

4 Change History

Document history		
Version	Date	History
Ver. 1.00	March 2, 2000	Approved by the 28th ARIB Standard Assembly
Ver. 1.10	June 25, 2000	Revised by the 32nd ARIB Standard Assembly
Ver. 1.20	October 12, 2000	Revised by the 33rd ARIB Standard Assembly
Ver. 1.30	January 30, 2001	Revised by the 35th ARIB Standard Assembly
Ver. 1.40	May 31, 2001	Revised by the 37th ARIB Standard Assembly
Ver. 2.00	September 6, 2001	Revised by the 39th ARIB Standard Assembly Added release 4 standard
Ver. 2.10	November 15, 2001	Revised by the 40th ARIB Standard Assembly
Ver. 2.20	January 24, 2002	Revised by the 41st ARIB Standard Assembly
Ver. 2.30	March 28, 2002	Revised by the 42nd ARIB Standard Assembly
Ver. 3.00	May 30, 2002	Revised by the 43rd ARIB Standard Assembly Added release 5 standard
Ver. 3.10	September 26, 2002	Revised by the 45th ARIB Standard Assembly
Ver. 3.20	February 6, 2003	Revised by the 47th ARIB Standard Assembly
Ver. 3.30	March 26, 2003	Revised by the 48th ARIB Standard Assembly
Ver. 3.40	July 29, 2003	Revised by the 50th ARIB Standard Assembly
Ver. 3.50	October 16, 2003	Revised by the 51st ARIB Standard Assembly
Ver. 3.60	February 5, 2004	Revised by the 52nd ARIB Standard Assembly
Ver. 4.00	May 25, 2004	Revised by the 53rd ARIB Standard Assembly Added release 6 standard
Ver. 4.10	July 22, 2004	Revised by the 54th ARIB Standard Assembly
Ver. 4.20	September 28, 2004	Revised by the 55th ARIB Standard Assembly
Ver. 4.30	December 14, 2004	Revised by the 56th ARIB Standard Assembly
Ver. 4.40	March 24, 2005	Revised by the 57th ARIB Standard Assembly
Ver. 4.50	September 29, 2005	Revised by the 59th ARIB Standard Assembly
Ver. 4.60	November 30, 2005	Revised by the 60th ARIB Standard Assembly
Ver. 4.70	March 14, 2006	Revised by the 61st ARIB Standard Assembly
Ver. 4.80	May 29, 2006	Revised by the 62nd ARIB Standard Assembly
Ver. 5.00	September 28, 2006	Revised by the 63rd ARIB Standard Assembly Added release 7 standard

continue to next page

Document history		
Version	Date	History
Ver. 6.00	December 12, 2006	- Revised by the 64th ARIB Standard Assembly - Added standard of Time Division Duplex (TDD) scheme - Changed Title from "IMT-2000 DS-CDMA System" to "IMT-2000 DS-CDMA and TDD-CDMA System"
Ver. 6.10	March 14, 2007	Revised by the 65th ARIB Standard Assembly
Ver. 6.20	May 29, 2007	Revised by the 66th ARIB Standard Assembly
Ver. 6.30	September 26, 2007	Revised by the 67th ARIB Standard Assembly
Ver. 6.40	December 12, 2007	Revised by the 68th ARIB Standard Assembly
Ver. 6.50	March 19, 2008	Revised by the 69th ARIB Standard Assembly
Ver. 6.60	June 6, 2008	Revised by the 70th ARIB Standard Assembly
Ver. 7.00	September 25, 2008	Revised by the 71st ARIB Standard Assembly Added release 8 standard
Ver. 7.10	December 12, 2008	Revised by the 72nd ARIB Standard Assembly
Ver. 7.20	March 18, 2009	Revised by the 73rd ARIB Standard Assembly
Ver. 7.30	July 29, 2009	Revised by the 74th ARIB Standard Assembly
Ver. 7.40	December 16, 2009	Revised by the 75th ARIB Standard Assembly
Ver. 8.00	April 26, 2010	Revised by the 76th ARIB Standard Assembly Added release 9 standard
Ver. 8.10	July 15, 2010	Revised by the 77th ARIB Standard Assembly
Ver. 8.20	November 5, 2010	Revised by the 78th ARIB Standard Assembly
Ver. 8.30	March 28, 2011	Revised by the 79th ARIB Standard Assembly
Ver. 9.00	July 7, 2011	Revised by the 80th ARIB Standard Assembly Added release 10 standard
Ver. 9.10	September 16, 2011	Revised by the 81th ARIB Standard Assembly
Ver. 9.20	December 6, 2011	Revised by the 82th ARIB Standard Assembly
Ver. 9.21	February 14, 2012	Revised by the 83th ARIB Standard Assembly
Ver. 9.30	July 3, 2012	Revised by the 84th ARIB Standard Assembly
Ver. 9.40	September 25, 2012	Revised by the 85th ARIB Standard Assembly
Ver. 9.50	December 18, 2012	Revised by the 86th ARIB Standard Assembly
Ver. 9.60	March 19, 2013	Revised by the 87th ARIB Standard Assembly

Annex 1 (Informative)

3GPP ARIB Change history List of Standards Ver. 1.10

15 June 2000

1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	New Documents summary
ARIB STD-T63-22.140	3.0.0		Multimedia Messaging Service Stage 1	New doc. : The TS defines the stage 1 description of the non realtime Multimedia Messaging Service(MMS).
ARIB STD-T63-23.140	3.0.1	-	Multimedia Messaging Service Stage 2	New doc. : The TS defines the stage 2 and 3 description of the non realtime MMS, contains the core functions.
ARIB STD-T63-23.171	3.0.0	-	Functional stage 2 description of location services in UMTS	New doc. :Location Service Specification in UMTS.
ARIB STD-T63-31.111	3.0.0	-	USIM Application Toolkit (USAT)	New doc. : The interface between the Universal ICC (UICC) and the Mobile Equipment (ME), and mandatory ME procedures, specifically for "USIM Application Toolkit".
ARIB STD-T63-34.121	3.0.1	-	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	New doc. : RF conformance specification for UE (FDD)
ARIB STD-T63-34.124	3.0.0	-	Electro-Magnetic Compatibility (EMC) requirements for Mobile Terminals and ancillary equipment	New doc. : EMC specification for UE

2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-21.101	3.0.1	2.2.0	3 rd Generation mobile system Release 1999 Specifications	This document identifies the 3 rd Generation mobile system specifications for Release 1999. Ex. Numbering, structure...
ARIB STD-T63-21.111	3.1.0	3.0.1	USIM and IC card requirements	A description about the location of UIA was aligned with 3G TS33.102.
ARIB STD-T63-22.001	3.2.0	3.1.1	Principles of Circuit Telecommunication Services Supported by a Public Land Mobile Network(PLMN)	Editorial modification for change of SMS-CB to CBS and Procedure for call progress indications
ARIB STD-T63-22.002	3.3.0	3.2.0	Circuit Bearer Services supported by a Public Land Mobile Network (PLMN)	Corrections on 3,1 kHz Audio support
ARIB STD-T63-22.003	3.2.0	3.1.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Editorial modification for change of SMS-CB to CBS and to correct the references
ARIB STD-T63-22.030	3.3.0	3.2.0	Man-Machine Interface (MMI) of the User Equipment (UE)	Introduction of Service Code 214 for "Follow Me" MMI(Man-Machine interface) of Multicall
ARIB STD-T63-22.034	3.2.0	3.1.0	High Speed Circuit Switched Data(HSCSD) - Stage 1	CR on HSCSD changes for 3GPP
ARIB STD-T63-22.038	3.1.0	3.0.0	USIM/SIM Application Toolkit (SAT); Service Description; Stage 1	USIM/SIM Application Toolkit, Service Description, Stage 1 Addition requirements for bearer independent data transfer feature
ARIB STD-T63-22.100	3.6.0	3.5.0	UMTS Phase 1 Release 99	SoLSA not applicable for UMTS Release '99

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-22.101	3.9.0	3.8.0	Service aspects; Service principles	Support of encryption in GPRS mobile stations Fixed Dialing Number (FDN)
ARIB STD-T63-22.105	3.8.0	3.7.0	Service aspects; Services & Service capabilities	Clarification of SoLSA support Correction related to FAX support
ARIB STD-T63-23.040	3.4.1	3.3.0	Technical realisation of Short Message Service	Enhancement of the Message Content, Multiple Information Elements, SMS E-MAIL PARAMETERS
ARIB STD-T63-23.041	3.2.0	3.1.0	Technical Realization of Cell Broadcast Service (SCB)	Addition of LCS message identifier, Adaptation of the scope to "GSM and UMTS"
ARIB STD-T63-23.057	3.1.1	3.0.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Corrections to WAP chapters, And changed QoS
ARIB STD-T63-23.107	3.2.0	3.1.0	QoS Concept and Architecture	Editorial modification and additions have been made to update the specification.
ARIB STD-T63-24.011	3.2.0	3.1.0	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	Using MM sublayer for message transfer, SDL modification, Reintroduction of diagrams in CM sublayer
ARIB STD-T63-25.101	3.2.0	3.1.0	UE Radio transmission and reception (FDD)	CPCH as one of the possible UE transmit ON/OFF scenarios has been added. Enhancements to the performance requirements and modification in DL power control have been made.
ARIB STD-T63-25.104	3.2.0	3.1.0	UTRA (BS) FDD; Radio transmission and Reception	Chapter 6.6.2.3 has been removed. Regional requirements have been added. Editorial corrections have been made.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-25.113	3.1.0	3.0.0	Base station EMC	Corrections and additions have been made to update the specification
ARIB STD-T63-25.133	3.1.0	3.0.0	Requirements for Support of Radio Resource Management (FDD)	TDD Measurements Performance Requirements needed for FDD-TDD Handover have been added. Performance requirements in idle mode have been introduced. UE measurement requirement and UTRAN measurement requirement have been updated
ARIB STD-T63-25.141	3.1.0	3.0.0	Base station conformance testing (FDD)	Test Models for transmitter testing and Description on BS configuration have been added. Regional requirements in TS 25.104 have been added.
ARIB STD-T63-25.201	3.0.2	3.0.1	Physical layer -General description	Editorial changes have been done to update terminology and references.
ARIB STD-T63-25.211	3.2.0	3.1.1	Physical channels and mapping of transport channels onto physical channels (FDD)	CPCH related channels have been finalised. DSCH timing has been changed. Editorial changes and small adjustments/corrections have also been done.
ARIB STD-T63-25.212	3.2.0	3.1.1	Multiplexing and channel coding (FDD)	Compressed mode with puncturing and fixed positions have been concluded. Smaller size Turbo interleavers including padding functionality, and zero-size transport block case have been finalised.
ARIB STD-T63-25.213	3.2.0	3.1.1	Spreading and modulation (FDD)	CPCH spreading have been clarified. The PRACH and PCPCH scrambling code sets have also been clarified.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-25.214	3.2.0	3.1.1	Physical layer procedures (FDD)	Out-of-synch and synchronisation procedures have been in general clarified. Some of the power control descriptions have been moved to the annex. SSDT codes have been modified.
ARIB STD-T63-25.215	3.2.0	3.1.1	Physical layer - Measurements (FDD)	BER and RSCP measurements for UE have been removed. Measurement ranges and compressed mode parameterisation have been finalised.
ARIB STD-T63-25.301	3.4.0	3.3.0	Radio Interface Protocol Architecture	Correction of the CFN length, removal of SCH are changed.
ARIB STD-T63-25.302	3.4.0	3.3.0	Services provided by the Physical Layer	CPCH model, coding for FACH, compressed mode description, TrBLK size, PDSCH multi-code, Primitives for CPCH Abnormal Situation Handling, Physical channel BER, AMR trblk size, L1 and L2 functionality descriptions, and some descriptions are changed.
ARIB STD-T63-25.303	3.3.0	3.2.0	Interlayer Procedures in Connected Mode	CPCH start of message indication, Correction to Transport Format Combination Control procedure, CPCH Emergency Stop sequence, Variable Rate Packet Transmission for uplink DCH, Random access transmission sequence, are changed.
ARIB STD-T63-25.304	3.2.0	3.1.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Cell Selection for DS-41 mode, cell search procedure, UE individual DRX cycles in CELL_PCH and URA_PCH states, Cell re-selection criteria including HCS, description of DRX are changed.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-25.305	3.1.0	3.0.0	Stage 2 Functional Specification of Location Services in UTRAN	Network assisted GPS LCS, Enhancements for cell coverage based positioning, Replacement for Figure 4.1, Restructuring, Target UE-RNC signalling model, LMU description, LMU signalling description, Incorporation of R1 Liaisons, OTDOA - GPS Location Procedures, Clarification of the different LMU types are changed.
ARIB STD-T63-25.321	3.3.0	3.2.0	MAC protocol specification	Bit Aligned TDD MAC Headers, CPCH including Channel Assignment, UE-ID type indication, RACH transmission control procedure, CPCH start of message indication, Removal of SCH and SCCH, Clarification of bit order are changed.
ARIB STD-T63-25.401	3.2.0	3.1.0	UTRAN Overall Description	Changes on SAB,CPCH and lub U-Plane.
ARIB STD-T63-25.402	3.1.0	3.0.0	Synchronisation in UTRAN Stage 2	Changes on Node B synchronisation and inclusion on Time Alignment.
ARIB STD-T63-25.420	3.1.0	3.0.0	UTRAN Iur Interface General Aspects and Principles	The significant changes are based on the agreement on CPCH, DSCH on Iur, and USCH on Iur issues. Several minor modifications have also been agreed.
ARIB STD-T63-25.422	3.3.0	3.2.0	UTRAN Iur Interface Signalling Transport	ATM Protection Switching was removed and RNSAP protocol stack for IP domain was updated.
ARIB STD-T63-25.423	3.1.0	3.0.0	UTRAN Iur Interface RNSAP Signalling	Several parameters were added, modified, and clarified. Editorial modifications were done

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-25.424	3.2.0	3.1.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	CPCH and USCH were added, and ATM protection switching was removed.
ARIB STD-T63-25.425	3.1.0	3.0.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	CPCH, DSCH, TDD USCH and Spare extension were added, and some corrections were made.
ARIB STD-T63-25.426	3.2.0	3.1.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	ATM Protection Switching was removed.
ARIB STD-T63-25.427	3.2.0	3.1.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	Description on Quality Estimate was aligned with TSG RAN WG1 TS and DSCH was reflected.
ARIB STD-T63-25.430	3.1.0	3.0.0	UTRAN Iub Interface: General Aspects and Principles	DSCH and USCH were reflected.
ARIB STD-T63-25.433	3.1.0	3.0.0	UTRAN Iub Interface NBAP Signalling	Editorial Improvements of NBAP version 3.0.0 and Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP.
ARIB STD-T63-25.434	3.2.0	3.1.0	UTRAN Iub Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	Changes on CPCH and USCH.
ARIB STD-T63-25.435	3.2.0	3.1.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	DSCH and USCH frame protocols were modified.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-25.442	3.1.0	3.0.0	UTRAN Implementation Specific O&M Transport	Clarifications to Implementation Specific O&M Transport. (Clarifying text of the use of IP addresses and VCs to make the specification clearer and unambiguous.)
ARIB STD-T63-26.073	3.1.0	3.0.0	ANSI-C code for Adaptive Multi Rate speech Codec	Avoidance of pulse cancellation in FCB excitation
ARIB STD-T63-26.074	3.0.1	3.0.0	Mandatory speech codec speech processing functions; AMR speech codec test sequences	Inclusion of test sequences. (Text otherwise unchanged.)
ARIB STD-T63-26.101	3.1.0	3.0.0	Mandatory Speech Codec speech processing functions; AMR Speech Codec Frame Structure	Addition of comfort noise bit ordering and correction of indices in Annex B table and table indexing for AMR Core Frame class division
ARIB STD-T63-26.102	3.1.0	3.0.0	Mandatory Speech Codec; AMR speech Codec; Interface to Iu and Uu	Introduction of QoS parameters used at RAB assignment, different RFCS set on Iu User Plane and Time Alignment
ARIB STD-T63-27.007	3.4.0	3.3.0	AT command set for 3G User Equipment (UE)	Correction and Addition for AT command
ARIB STD-T63-27.010	3.3.0	3.2.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Editorial change
ARIB STD-T63-31.101	3.1.0	3.0.0	UICC-Terminal Interface; Physical and logical characteristics	All the release 99 feature descriptions were fixed.
ARIB STD-T63-31.102	3.1.0	3.0.0	Characteristics of the USIM Application	All the release 99 feature descriptions were fixed.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.10	Version at ARIB STD-T63 Ver.1.00	Title	Change summary
ARIB STD-T63-31.110	3.1.0	3.0.0	Numbering system for telecommunication IC card applications	The management of country codes and card issuer identifiers.
ARIB STD-T63-33.102	3.4.0	3.3.1	3G Security; Security Architecture	Clarification and modification of security architecture.
ARIB STD-T63-33.103	3.2.0	3.1.0	3G Security; Integration Guidelines	Modification by adjustments to TS33.102.
ARIB STD-T63-33.105	3.3.0	3.2.0	3G Security;Cryptographic Algorithm requirements	Modification by adjustments to TS33.102.

Annex 2 (Informative)

3GPP ARIB Change history List of Standards Ver. 1.20

14 September 2000

1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	New Documents summary
ARIB STD-T63-26.104	3.0.0		AMR speech Codec; Floating point C-Code	New doc: ANSI-C code for the Floating-Point AMR Speech Codec (Release 1999).
ARIB STD-T63-26.132	3.0.0	-	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification	New doc: Terminal Acoustic Characteristics for Telephony – Test Requirements (Release 1999) have been specified.
ARIB STD-T63-34.108	3.0.1	-	Common Test Environments for User Equipment (UE) Conformance Testing	Common Test Environment for UE conformance testing
ARIB STD-T63-34.109	3.0.0	-	Terminal Logical Test Interface ;Special conformance testing functions	Approved at T#8, and issued as Ver3.0.0. The present document specifies for User Equipment (UE), for 3rd Generation WCDMA system, those ME functions which are required for conformance testing purposes.
ARIB STD-T63-34.123-1	3.0.0	-	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Protocol conformance specification for UE

2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-21.101	3.2.0	3.0.1	3 rd Generation mobile system Release 1999 Specifications	This document identifies list of the 3 rd generation mobile system specifications for Release 1999.
ARIB STD-T63-21.111	3.2.0	3.1.0	USIM and IC card requirements	Clarification of USIM application and Selection Alignment with 33.102: removal of Enhanced User Identity Confidentiality (EUIC) from R99
ARIB STD-T63-22.002	3.4.0	3.3.0	Circuit Bearer Services supported by a Public Land Mobile Network (PLMN)	Lower User Rates in UMTS for Circuit Switched Data Services.
ARIB STD-T63-22.016	3.2.0	3.1.0	International Mobile Equipment Identities (IMEI)	IMEI coding Modification of section 2 to delete unnecessary information about phases and releases removed.
ARIB STD-T63-22.038	3.2.0	3.1.0	USIM/SIM Application Toolkit (SAT); service description Stage 1	Deletion of note to non-existent TS.
ARIB STD-T63-22.101	3.a.0	3.9.0	Service aspects; Service principles	• Network selection procedures removed from section 16, reference to 22.011 added • Emergency Calls and numbers used • CS multimedia support • Clarification for USIM Application selection

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-22.105	3.9.0	3.8.0	Service aspects; Services & Service capabilities	- Clarification of requirement in TS 22.105 for Delay - Access dependent services
ARIB STD-T63-22.140	3.1.0	3.0.0	Multimedia Messaging Service Stage 1	Alignment of the general requirements to TS 23.140 (MMS R99 stage 2)
ARIB STD-T63-23.040	3.5.0	3.4.1	Technical realisation of Short Message Service	Alignment in Enhanced Messaging Service, Correction of SMS TimeZone, and TP-PID.
ARIB STD-T63-23.057	3.2.0	3.1.1	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Addition for phonebook entry, correction for ME actions on SIM insertion and/or power up, Client/Server 'negotiation', Third Party root public keys management and User permission types
ARIB STD-T63-23.107	3.3.0	3.2.0	QoS Concept and Architecture	Add subflow bit-rate to description of SDU format information
ARIB STD-T63-23.171	3.1.0	3.0.0	Functional stage 2 description of location services in UMTS	The main change is the deletion of all the PS related material (will be re-introduced in LCS R00 in 23.271).
ARIB STD-T63-24.011	3.3.0	3.2.0	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	Alignment of SMS protocol with current MM/GMM integrity protection rules
ARIB STD-T63-25.101	3.3.0	3.2.0	UE Radio transmission and reception (FDD)	Twenty one (21) corrections and one (1) editorial modification have been made to update the specification.
ARIB STD-T63-25.104	3.3.0	3.2.0	UTRA (BS) FDD; Radio transmission and Reception	Seven (7) corrections and two (2) editorial modifications have been made to update the specification.
ARIB STD-T63-25.113	3.2.0	3.1.0	Base station EMC	One (1) correction has been made to update the specification.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-25.133	3.2.0	3.1.0	Requirements for Support of Radio Resource Management (FDD)	Twenty five (25) corrections and one (1) editorial modification have been made to update the specification.
ARIB STD-T63-25.141	3.2.0	3.0.0	Base station conformance testing (FDD)	Nine (9) corrections and two (2) editorial modifications have been made to update the specification.
ARIB STD-T63-25.201	3.1.0	3.0.2	Physical layer -General description	New subclause 4.2.6 is added to describe the relationship of the physical layer functions. Preferred mathematical notations in the physical layer specifications are described in Annex A.
ARIB STD-T63-25.211	3.3.0	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarifications for PDSCH, PCPCH, PICH, and power control preambles are done. Physical classification of indicators and preambles are also clarified.
ARIB STD-T63-25.212	3.3.0	3.2.0	Multiplexing and channel coding (FDD)	A lot of clarifications and notational corrections are done on rate matching algorithm, channel coding, and TFCI coding.
ARIB STD-T63-25.213	3.3.0	3.2.0	Spreading and modulation (FDD)	Clarifications for preambles are done. Uplink gain factors are expressed by fractional numbers.
ARIB STD-T63-25.214	3.3.0	3.2.0	Physical layer procedures (FDD)	Corrections and revisions are done on power control procedures, transmit diversities, radio link synchronisation procedures.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-25.215	3.3.0	3.2.0	Physical layer - Measurements (FDD)	UTRAN transport channel BLER, and ranges and mappings for all measurements are removed. Acknowledged PRACH/PCPCH preamble measurements are newly introduced.
ARIB STD-T63-25.301	3.5.0	3.4.0	Radio Interface Protocol Architecture	Clarification of ciphering parameters and corrections. Replacement of duplicated information on ciphering description by reference.
ARIB STD-T63-25.302	3.5.0	3.4.0	Services provided by the Physical Layer	Compressed mode pattern sequences, Measurements, End of CPCH transmission, Transport Block Size, Transport Block, Out-of-sync-configuration control primitives, CPCH Emergency Stop and Start of Message Indicator, and some descriptions are changed.
ARIB STD-T63-25.303	3.4.0	3.3.0	Interlayer Procedures in Connected Mode	RRC Connection Establishment procedure, RRC Connection Release procedure, Cell & URA Update procedures, RRC Traffic volume monitoring procedure, Transfer and update of system information procedure, UE controlled AMR mode adaptation procedure, Asymmetric transport channel reconfiguration procedure, correction to Transport Format Combination Control procedure, corrections to L2 link management and radio link setup in message sequence charts are changed.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-25.304	3.3.0	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Triggering of inter-system measurements, Cell re-selection, Access Control, Downlink signalling failure, Cell-reselection parameter signalling, Cell Selection and Reselection, CN DRX cycle coefficient are changed.
ARIB STD-T63-25.305	3.2.0	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN	Modifications to LCS text on cell-ID method, Editorial modifications of OTDOA descriptions for alignment with TDD, Update on clause 5, Clarification of OTDOA signalling operation, Assisted GPS procedures are changed.
ARIB STD-T63-25.321	3.4.0	3.3.0	MAC protocol specification	CPCH correction, End of CPCH transmission, Clarification of prioritisation of logical channels in UE, CPCH MAC procedures, Traffic Volume Measurement for dynamic radio bearer control are changed.
ARIB STD-T63-25.401	3.3.0	3.2.0	UTRAN Overall Description	Changes on the definitions in section 3.1, regarding the corrections on "Cell" and "Coordinated DCHs" and the inclusion of "Radio Link Set".
ARIB STD-T63-25.402	3.2.0	3.1.0	Synchronisation in UTRAN Stage 2	Changes for clarifications in section 9, regarding the corrections applied to UTRAN synchronisation counters during state transitions.
ARIB STD-T63-25.422	3.4.0	3.3.0	UTRAN Iur Interface Signalling Transport	Clarification of ATM cell format, Correction to version number of SCTP and M3UA.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-25.423	3.2.0	3.1.0	UTRAN Iur Interface RNSAP Signalling	Several parameters were added, modified, and clarified. Correction of ASN.1.
ARIB STD-T63-25.424	3.3.0	3.2.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	Use of the NNI ATM cell format was specified.
ARIB STD-T63-25.425	3.2.0	3.1.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	User Plane Protocol Version, Scheduling of SDU transmission from DRNC and Selection of S-CCPCH in the FACH Data Transfer procedure were specified.
ARIB STD-T63-25.426	3.3.0	3.2.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	Corrections to protocol stack and references for IP based ALCAP to align with status of SCTP were made.
ARIB STD-T63-25.427	3.3.0	3.2.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	Clarification of payload CRC field (DCH FP), Change quality estimate definition
ARIB STD-T63-25.430	3.2.0	3.1.0	UTRAN Iub Interface: General Aspects and Principles	Correction of number of PICH in cell model, Correction of common resources in Node B.
ARIB STD-T63-25.433	3.2.0	3.1.0	UTRAN Iub Interface NBAP Signalling	NBAP Signaling support for CPCH and compressed measurement handling is updated.
ARIB STD-T63-25.435	3.3.0	3.2.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Correction of Paging Indication and change of definition of the Quality Estimation.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-26.093	3.2.0	3.1.0	Mandatory Speech Codec speech processing functions ; AMR speech Codec; Source Controlled Rate operation	Re-scheduling of stolen SID_UPDATE Frames for AMR has been added.
ARIB STD-T63-26.111	3.2.0	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Changes to editorial notes.
ARIB STD-T63-26.131	3.1.0	3.0.0	Terminal Acoustic Characteristics for Telephony; Requirements	· Listener side tone (LSTR) and talker side tone (STMR) requirements have been added. · Change of handset and headset UE receiving sensitivity/frequency characteristic mask.
ARIB STD-T63-27.007	3.5.0	3.4.0	AT command set for 3G User Equipment (UE)	Correction and Addition for AT command
ARIB STD-T63-31.101	3.2.0	3.1.0	UICC-Terminal Interface; Physical and logical characteristics	Corrections and Clarifications
ARIB STD-T63-31.102	3.2.0	3.1.0	Characteristics of the USIM Application	Corrections and Clarifications
ARIB STD-T63-31.111	3.1.0	3.0.0	USIM Application Toolkit (USAT)	Corrections and Clarifications
ARIB STD-T63-33.102	3.5.0	3.4.0	3G Security; Security Architecture	Clarification and modification of security architecture.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.20	Version at ARIB STD-T63 Ver.1.10	Title	Change summary
ARIB STD-T63-33.103	3.3.0	3.2.0	3G Security; Integration Guidelines	Modification by adjustments to TS33.102.
ARIB STD-T63-33.105	3.4.0	3.3.0	3G Security; Cryptographic Algorithm requirements	Modification by adjustments to TS33.102.
ARIB STD-T63-34.121	3.1.0	3.0.1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	RF conformance specification for UE (FDD)

(Annex 3)

3GPP ARIB Change history List of Standards Ver. 1.30

30 January 2001

1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	New Documents summary
ARIB STD-T63-34.123-2	3.1.0	-	User Equipment (UE) Conformance Specification, Part 2 ; ICS	ICS for protocol conformance test

2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-21.111	3.3.0	3.2.0	USIM and IC card requirements	Partial AID selection requirements
ARIB STD-T63-22.002	3.5.0	3.4.0	Circuit Bearer Services supported by a Public Land Mobile Network (PLMN)	32 kbit/s UDI/RDI multimedia in GSM
ARIB STD-T63-22.022	3.1.0	3.0.1	Personalization of GSM Mobile Equipment (ME) Mobile Functionality Specification – Stage 1	Clarification and modification of ME functionality.
ARIB STD-T63-22.030	3.4.0	3.3.0	Man-Machine Interface (MMI) of the User Equipment (UE)	Codes for defined Supplementary Services

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-22.071	3.3.0	3.2.0	Location Services (LCS);Service description, Stage 1	Correction to LCS Service Description Stage 1 Document (R'99)
ARIB STD-T63-22.101	3.b.0	3.a.0	Service Aspects ; Service principles	Handling of interactions between applications requiring the access to UE resources
ARIB STD-T63-23.041	3.3.0	3.2.0	Technical Realization of Cell Broadcast Service (SCB)	Defining Assisted GPS Broadcast Identifiers
ARIB STD-T63-23.057	3.3.0	3.2.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Storage of user private data in the user profile in the network, Correction of UAProf tags, WAP UAProf URL correction
ARIB STD-T63-23.107	3.4.0	3.3.0	QoS Concept and Architecture	To add QoS Attribute and parameter, traffic class corrections etc.
ARIB STD-T63-24.011	3.4.0	3.3.0	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	Corrections of CP/RP-DATA IE lengths
ARIB STD-T63-25.101	3.4.1	3.3.1	UE Radio transmission and reception (FDD)	Sixteen (16) corrections have been made to update the specification.
ARIB STD-T63-25.104	3.4.0	3.3.0	UTRA (BS) FDD; Radio transmission and reception	Five (5) corrections have been made to update the specification.
ARIB STD-T63-25.113	3.3.0	3.2.0	Base station EMC	One (1) correction has been made to update the specification.
ARIB STD-T63-25.133	3.3.0	3.2.0	Requirements for Support of Radio Resource Management (FDD)	Eleven (11) corrections have been made to update the specification.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-25.141	3.3.0	3.2.0	Base station conformance testing (FDD)	Twelve (12) corrections and one (1) editorial modification have been made to update the specification.
ARIB STD-T63-25.211	3.4.0	3.3.0	Physical channels and mapping of transport channels onto physical channels (FDD)	Some clarifications have been done; ex. Paging indicator mapping. DPCH initialisation subclause, 7.7, has been removed.
ARIB STD-T63-25.212	3.4.0	3.3.0	Multiplexing and channel coding (FDD)	Many notational corrections and clarifications have been done.
ARIB STD-T63-25.214	3.4.0	3.3.0	Physical layer procedures (FDD)	Some corrections and clarifications have been done; ex. DPCH initialisation procedure, maximum and minimum power limit (new subclause 5.1.2.6), etc.
ARIB STD-T63-25.215	3.4.0	3.3.0	Physical layer - Measurements (FDD)	UTRAN SIR error measurement has been added. Some clarifications have been done.
ARIB STD-T63-25.301	3.6.0	3.5.0	Radio Interface Protocol Architecture	RLC modes for SHCCH.
ARIB STD-T63-25.302	3.6.0	3.5.0	Services provided by the Physical Layer	Clarification of filtering period and Timeslot ISCP measurements, Modification of UE Simultaneous reception, Removal of puncturing limit from the transport format definition, Inclusion of SIR ERROR measurement.
ARIB STD-T63-25.303	3.5.0	3.4.0	Interlayer Procedures in Connected Mode	SRNS Relocation, Variable Rate Transmission.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-25.304	3.4.0	3.3.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Paging channel selection, HCS measurement rules, Usage of Ec/N0 measurement quantity for cell ranking, Correction and restructuring, Editorial corrections.
ARIB STD-T63-25.305	3.3.0	3.2.0	Stage 2 Functional Specification of Location Services in UTRAN	Alignment of FDD and TDD positioning methods and editorial changes, Assisted GPS Procedures, TDD/FDD alignment of OTDOA and GPS assisted positioning methods, Clean-up, Corrections from LCS Ad Hoc.
ARIB STD-T63-25.321	3.50	3.4.0	MAC protocol specification	Corrections to RACH procedure, Clarification on the parameters of the MAC-RLC primitives.
ARIB STD-T63-25.401	3.4.0	3.3.0	UTRAN Overall Description	Inclusion of the description on Paging Support, Positioning, Tracing, Volume Reporting and Layered Architecture.
ARIB STD-T63-25.402	3.3.0	3.2.0	Synchronisation in UTRAN Stage 2	Inclusion of DOFFTDD parameter and clarification on the relation between TDD synchronisation issues.
ARIB STD-T63-25.420	3.2.0	3.1.0	UTRAN Iur Interface General Aspects and Principles	Changes for clarification.
ARIB STD-T63-25.422*	3.4.1	3.4.0	UTRAN Iur interface signalling transport	Updated rapporteur information.
ARIB STD-T63-25.423	3.3.0	3.2.0	UTRAN Iur Interface RNSAP Signalling	Several parameters were added, modified, and clarified.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-25.424	3.4.0	3.3.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	Remove "Draft" in the title of the reference Q.2630.1.
ARIB STD-T63-25.426	3.4.0	3.3.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	Addition of AAL2 switching possibility and reference to Q.2210 implementor's guide.
ARIB STD-T63-25.427	3.4.0	3.3.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	Corrections for transport channel synchronization and timing adjustment
ARIB STD-T63-25.430	3.3.0	3.2.0	UTRAN Iub Interface: General Aspects and Principles	Clarification of DCH data stream corresponds to a bi-directional transport channel in UTRAN
ARIB STD-T63-25.433	3.3.0	3.2.0	UTRAN Iub interface NBAP signalling	Several editorial modifications and clarification of explanation for NBAP signalling.
ARIB STD-T63-25.434	3.3.0	3.2.0	UTRAN Iuh interface data transport & transport signalling for CCH data streams	Corrections in the References section.
ARIB STD-T63-25.435	3.4.0	3.3.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Change to supporting the signaling of the 'DSCH DL signaling frame' from the CRNC to the Node B.
ARIB STD-T63-26.111	3.3.0	3.2.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	The missing description indicating how the MPEG-4 Visual bitstream is segmented for placement in AL-SDUs is added.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-26.132	3.1.0	3.0.0	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Corrections to test setup configurations are introduced.
ARIB STD-T63-27.007	3.6.0	3.5.0	AT command set for 3G User Equipment (UE)	TE software implementations must take account of extra parameters, APN presentation
ARIB STD-T63-27.103	3.1.0	3.0.0	Wide Area Network Synchronisation Standard	Introduction of PUSH and TARGET
ARIB STD-T63-31.101	3.3.0	3.2.0	UICC-Terminal Interface; Physical and logical characteristics	Replacement of the technical contents with a reference to ETSI TS 102 221.
ARIB STD-T63-31.102	3.3.0	3.2.0	Characteristics of the USIM Application	12 Corrections and/or Clarifications
ARIB STD-T63-31.110	3.2.0	3.1.0	Numbering system for telecommunication IC card applications	Reservation of TAR values
ARIB STD-T63-31.111	3.2.0	3.1.0	USIM Application Toolkit (USAT)	3 Corrections and a Clarification
ARIB STD-T63-33.103	3.4.0	3.3.0	3G Security; Integration Guidelines	Modification by adjustments to TS33.102
ARIB STD-T63-33.102	3.6.0	3.5.0	3G Security; Security Architecture	Clarification and modification of security architecture.
ARIB STD-T63-33.105	3.5.0	3.4.0	3G Security; Cryptographic Algorithm requirements	Modification by adjustments to TS33.102

Changed Standard Number	Version at ARIB STD-T63 Ver.1.30	Version at ARIB STD-T63 Ver.1.20	Title	Change summary
ARIB STD-T63-34.108	3.1.0	3.0.1	Common Test Environments for User Equipment (UE) Conformance Testing	Correction of changes due to changes of core specifications; Updates for Test USIM parameters, test algorithm for authentication, and TDD information.
ARIB STD-T63-34.109	3.1.0	3.0.0	Logical Test Interface (TDD and FDD)	Clarification of UE test loop mode 2 loop back scheme, Clarification of loopback delay requirement, Clarification of TDD modes description, UE test loop mode 1, loopback of PDCP SDUs.
ARIB STD-T63-34.121	3.2.0	3.1.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Correction of changes due to changes of core specifications; And correction and improvement for test procedures.
ARIB STD-T63-34.123-1	3.1.0	3.0.0	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Correction of changes due to changes of core specifications; And correction, implementation and improvement for test procedures.
ARIB STD-T63-34.124	3.1.0	3.0.0	Electro-Magnetic Compatibility (EMC) requirements for Mobile Terminals and ancillary equipment	Correction of editorial mistakes and idle mode information, and addition of end-user data for EMC testing.

(Annex 4)**3GPP ARIB Change history List of Standards Ver. 1.40****31 May 2001****1. Added Standards**

Added Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	New Documents summary
ARIB STD-T63-25.306	3.0.0	-	UE Radio Access capabilities definition	The Change from TR 25.926 to TS 25.306 was newly approved. Other changes are Removal of example RABs, Correction on parameter "Maximum total number of transport blocks...", Change to UE multi-RAT capability.
ARIB STD-T63-31.120	3.0.0	-	Terminal tests for the UICC Interface; Part1	Physical, Electrical and Logical Test Specification
ARIB STD-T63-31.121	3.0.0	-	Terminal tests for the UICC Interface; Part2	USIM Application Test specification
ARIB STD-T63-31.122	3.0.0	-	UICC Test Specification	USIM Conformance Test Specification

2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-21.101	3.2.0	3.1.0	3 rd Generation mobile system Release 1999 Specifications	Update list of R99 specs
ARIB STD-T63-22.101	3.12.0	3.11.0	Service Aspects ; Service principles	Removal of requirement for an encrypted data interface between USIM and UE

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-22.105	3.10.0	3.9.0	Service Aspects ; Services & Service capabilities	Alignment of delay definition for QoS classes
ARIB STD-T63-23.107	3.5.0	3.4.0	QoS Concept and Architecture	To clarify the scope of this TS to reflect the focus of the document on the framework for QoS within UMTS, and to clarify the streaming delay attribute.
ARIB STD-T63-23.171	3.2.0	3.1.0	Functional stage 2 description of location services in UMTS	To add a chapter "MT-LR without HLR Query-application to North America Emergency Call only".
ARIB STD-T63-24.011	3.5.0	3.4.0	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	Modifications of references, Terminology CR for radio access technology..
ARIB STD-T63-25.101	3.5.0	3.4.0	UE Radio transmission and reception (FDD)	- OCNS definition for the performance test is revised so as to guarantee that the measurement results are independent from the structure of the OCNS - Requirements on compressed mode performance is incorporated.
ARIB STD-T63-25.104	3.5.0	3.4.0	UTRA (BS) FDD; Radio transmission and reception	Some editorial corrections which need to avoid misleading, such as channel numbering and 2048kbps reference measurement channel are made
ARIB STD-T63-25.113	3.4.0	3.3.0	Base station EMC	Editorial changes to align with other existing EMC standards, such as terminology correction, are made

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-25.133	3.4.0	3.3.0	Requirements for Support of Radio Resource Management (FDD)	• The name "RSSI measurement" is changed to "Received total wide-band power". • Several measurement related functions and its measurement periods are modified
ARIB STD-T63-25.141	3.4.0	3.3.0	Base station conformance testing (FDD)	• Some of the latest test tolerances are incorporated. • Also, missed square brackets ("[]") are added to test tolerance values to indicate them as tentative values clearly
ARIB STD-T63-25.211	3.5.0	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	CSICH information structure has been transferred from TS 25.331. Downlink phase references, power control preambles, RACH message part length, etc., have been clarified.
ARIB STD-T63-25.212	3.5.0	3.4.0	Multiplexing and channel coding (FDD)	One limitation has been added on blind transport format detection. Some corrections, including corrections for compressed mode by puncturing, have been done.
ARIB STD-T63-25.213	3.4.0	3.3.0	Spreading and modulation (FDD)	Secondary scrambling code option has been removed for some common downlink channels.
ARIB STD-T63-25.214	3.5.0	3.4.0	Physical layer procedures (FDD)	Some corrections and clarifications have been done; e.g., radio link establishment procedure, TPC command generation, power control preambles, power control in SSDT, and RACH/CPCH random access procedure.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-25.215	3.5.0	3.4.0	Physical layer - Measurements (FDD)	Reference point, compressed mode usage, and SIR_error measurement during compressed mode have been clarified. Received total wide band power has superseded UTRAN RSSI.
ARIB STD-T63-25.302	3.7.0	3.6.0	Services provided by the Physical Layer	RACH model, Clarification of UTRAN SIR measurement, Removal of compressed mode measurement purpose "other" and "GSM", Removal of physical channel BER measurement for TDD, CPCH model correction, Removal of FAUSCH and ODMA, Correction to transport channel mapping, Alignment of measurement reference description, Changing the name of "RSSI" to "Received total wide band power".
ARIB STD-T63-25.303	3.6.0	3.5.0	Interlayer Procedures in Connected Mode	Corrections to SRNS Relocation, Correction to Relocation text.
ARIB STD-T63-25.304	3.5.0	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Support for PLMN selection, Correction of algorithm for paging channel selection, Alignment of use of TEMP_OFFSET parameters with TS 25.331, Clarifications and Editorial Corrections, Clarifications to cell selection and reselection procedures, Removal of immediate cell evaluation, One step cell selection.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-25.305	3.4.0	3.3.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Editorial and Minor Technical Clean-up, Editorial corrections, Removal of SoLSA concepts, Signalling flows on lub and lur, LCS functionality during SRNS relocation, UE Search Correction, Signaling Between RNC and Stand-Alone LMU, Use of RTT measurements in the Assisted GPS procedure, LCS assistance data delivery, Description for frequency reference, Editorial clean-up, Clarification on information to be transferred between UTRAN nodes, Moving of semantic descriptions from RRC, and Title was changed.
ARIB STD-T63-25.321	3.6.0	3.5.0	MAC protocol specification	Corrections to logical channel priorities in MAC Protocol, Removal of FAUSCH, General MAC clarification, Error Handling in MAC, Error handling for MAC RACH and CPCH transmission control procedure, Inclusion of stage 3 for ciphering.
ARIB STD-T63-25.401	3.5.0	3.4.0	UTRAN Overall Description	Clarification on Binding Identifier and deletion of "Service Descriptor, and Flow ID" in CN Distribution function clause.
ARIB STD-T63-25.402	3.4.0	3.3.0	Synchronisation in UTRAN Stage 2	Clarification and correction on Timing Advance and UE changes from CELL_FACH/PCH to CELL_DCH state, and Including Synch Port Accuracy.
ARIB STD-T63-25.422	3.5.0	3.4.1	UTRAN lur interface signalling transport	Corrections to SCTP and M3UA version numbers.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-25.423	3.4.0	3.3.0	UTRAN Iur Interface RNSAP Signalling	Changes for correction and clarification. Several parameters were added, modified, and clarified. Correction of ASN.1.
ARIB STD-T63-25.424	3.5.0	3.4.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	The AAL2 Link Characteristics(ALC) parameter in ALCAP was specified as a mandatory when there is AAL2 switching in the Transport Network Layer.
ARIB STD-T63-25.425	3.3.0	3.2.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	Correction of spare bits, addition of FACH Capacity Request control frame and removal of the S-CCPCH Indicator (S-CI) were made.
ARIB STD-T63-25.426	3.5.0	3.4.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	The AAL2 Link Characteristics(ALC) parameter in ALCAP was specified as a mandatory when there is AAL2 switching in the Transport Network Layer Corrections to SCTP and M3UA Version Numbers were made.
ARIB STD-T63-25.427	3.5.0	3.4.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	Ignorance of invalid CFN is corrected for control frames. Position and size of the Rx Timing Deviation are corrected in the payload of Rx timing deviation control frame.
ARIB STD-T63-25.430	3.4.0	3.3.0	UTRAN Iub Interface: General Aspects and Principles	Figure 3 is corrected to reflect that CSICH is always defined with AP-AICH

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-25.433	3.4.0	3.3.0	UTRAN Iub interface NBAP signalling	Many addition, modification and clarification for NBAP procedures(more than 70 places), IE in NBAP messages (more then 130 places), ASN.1 and other NBAP signalling.
ARIB STD-T63-25.434	3.4.0	3.3.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	Including the description on AAL2 Link Characteristics on Iub Transport Signalling and some editorial corrections.
ARIB STD-T63-25.435	3.5.0	3.4.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Correction of meaning of the payload CFN, behaviour of Node B for the Timing Advance adjustment and applicable case of the paging message over multiple radio frame.
ARIB STD-T63-26.093	3.3.0	3.2.0	Mandatory Speech Codec speech processing functions ; AMR speech Codec; Source Controlled Rate operation	Re-scheduling of stolen SID_UPDATE frames by SID_FIRST frames for AMR Clarification of Hangover period after Handover.
ARIB STD-T63-26.102	3.2.0	3.1.0	Mandatory Speech Codec; AMR speech Codec; Interface to Iu and Uu	Change of Incorrect Introductory text of RAB Section
ARIB STD-T63-26.104	3.1.0	3.0.0	AMR speech Codec; Floating point C-Code	Change of AMR Core Frame bit ordering .
ARIB STD-T63-26.111	3.4.0	3.3.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Change to MPEG4 visual simple profile @ level 0

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-27.007	3.7.0	3.6.0	AT command set for 3G User Equipment (UE)	Clarification of the specification to incorporate UICC/USIM references
ARIB STD-T63-31.102	3.4.0	3.3.0	Characteristics of the USIM Application	7 corrections and clarifications
ARIB STD-T63-31.111	3.3.0	3.2.0	USIM Application Toolkit (USAT)	6 corrections and clarifications
ARIB STD-T63-33.102	3.7.0	3.6.0	3G Security; Security Architecture	Clarification and modification of security architecture.
ARIB STD-T63-33.105	3.6.0	3.5.0	3G Security ; Cryptographic Algorithm requirements	Clarification and modification.
ARIB STD-T63-33.107	3.1.0	3.0.0	3G Security ; Lawful Interception Architecture and Functions	Clarification and modification.
ARIB STD-T63-34.108	3.2.0	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	Updates for SIB/MIB information, default values of message contents, common generic procedures for AS testing, requirements for SS, and integrity mode protection.
ARIB STD-T63-34.109	3.2.0	3.1.0	Logical Test Interface (TDD and FDD)	Setting up UE test loop for multiple radio bearer configurations
ARIB STD-T63-34.121	3.3.0	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Corrections and updates due to changes of core specifications. Corrections and improvements of test procedures.

Changed Standard Number	Version at ARIB STD-T63 Ver.1.40	Version at ARIB STD-T63 Ver.1.30	Title	Change summary
ARIB STD-T63-34.123-1	3.2.0	3.1.0	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Updates of intergrity mode protection, addition of CS intersystem handover, and mapping information between core specification and test cases
ARIB STD-T63-34.123-2	3.2.0	3.1.0	User Equipment (UE) Conformance Specification, Part 2; ICS	Corrections and updates corresponding to the changes of TS34.121-1
ARIB STD-T63-34.124	3.2.0	3.1.0	Electro-Magnetic Compatibility (EMC) requirements for Mobile Terminals and ancillary equipment	Editorial changes only

(Annex 5)

3GPP ARIB Change history List of Standards Ver. 2.00

31 July 2001

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-21.101	3.3.0	3.2.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.002	3.6.0	3.5.0	Circuit Bearer Services supported by a Public Land Mobile Network (PLMN)	Restructure the document and to correct and adapt it to UMTS capabilities to avoid inconsistencies with other documents
ARIB STD-T63-23.057	3.4.0	3.3.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	CCM update with new administrator signed package
ARIB STD-T63-23.107	3.6.0	3.5.0	QoS Concept and Architecture	To clarify the explanation how traffic classes have different weights in the QoS profile.
ARIB STD-T63-23.171	3.3.0	3.2.0	Functional stage 2 description of location services in UMTS	The correction on the SAI definition, the clarification on the usage of "LOCATION REPORTING CONTROL" of RANAP, and the correction on the previous CR on the Call related MT-LR was made.
ARIB STD-T63-25.101	3.6.0	3.5.0	UE Radio transmission and reception (FDD)	Test Tolerances, performance requirement for 250km/h case were incorporated. Correction on abbreviations, references and OCNS structures were made.
ARIB STD-T63-25.104	3.6.0	3.5.0	UTRA (BS) FDD; Radio transmission and reception	Test Tolerances, performance requirement for 250km/h case were incorporated. Correction on references, inclusion of environmental requirements were made.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.113	3.5.0	3.4.0	Base station EMC	Correction on radiated spurious emission test method, changes to keep consistency with CISPR 22 standard were introduced.
ARIB STD-T63-25.133	3.5.0	3.4.0	Requirements for Support of Radio Resource Management (FDD)	Suppliment for UTRA/GSM inter-system handover, UTRA-TDD/UTRA-FDD handover, measurement on GSM, FDD and TDD in cell-FACH state etc. were introduced.
ARIB STD-T63-25.141	3.5.0	3.4.0	Base station conformance testing (FDD)	Implement test tolerances for receiver part. Regional requirement on test tolerance were incorporated as well. Requirements for Case 4 (250km/h) environment were introduced.
ARIB STD-T63-25.141	3.3.0	3.2.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-25.211	3.6.0	3.5.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The phase reference for S-CCPCH carrying FACH is corrected. The higher layer signalling option for DSCH is removed.
ARIB STD-T63-25.213	3.5.0	3.4.0	Spreading and modulation (FDD)	The restrictions on use of SF=512 channelisation codes are clarified. Unnecessary sentences are removed to clarify the scrambling code of power control preambles.
ARIB STD-T63-25.214	3.6.0	3.5.0	Physical layer procedures (FDD)	Some clarifications are done on uplink power control in compressed mode, transmission of uplink power control preambles, downlink synchronisation, closed loop transmit diversity operations during downlink compressed mode, and SSdT operation.
ARIB STD-T63-25.215	3.6.0	3.5.0	Physical layer - Measurements (FDD)	UE SIR measurement is removed. Clarifications are done on Transport channel BLER measurement and GSM measurement.
ARIB STD-T63-25.301	3.7.0	3.6.0	Radio Interface Protocol Architecture	Correction for RACH/CPCH, Correction to Signalling Radio Bearer, Editorial update for Release'99, Removal of FAUSCH, Removal of ODMA channels, UE Model Channel numbering, Renaming of Dynamic Transport Channel Type Switching, Removal of payload unit concept.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.302	3.8.0	3.7.0	Services provided by the Physical Layer	Additional physical channel combination for FDD downlink to allow COUNT-C-SFN difference measurement, n & Out of Sync Indications per CCTrCH in TDD, Correction & Clarification to TDD RACH Model and Primitives, Alignment of measurements provided by the physical layer, Physical channel combinations in TDD, Measurement model clarifications, Removal of DPCCH Gating from Release 99, Clarification of simultaneous operation of DRAC and CTCH.
ARIB STD-T63-25.303	3.7.0	3.6.0	Interlayer Procedures in Connected Mode	Text corrections, SRNS relocation, Clean-up
ARIB STD-T63-25.304	3.6.0	3.5.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Usage of HCS Parameters in Cell Reselection, Clarification of usage of "Initial UE-Id" for SCCPCH selection, Clarification of paging occasion, Correction in Any Cell Selection State, Correction to the definition of a suitable cell, Correction to discontinuous reception in TDD, Correction of PI calculation for Paging DRX, Equivalent PLMN codes, High quality cell in PLMN selection, Clean-up.
ARIB STD-T63-25.305	3.5.0	3.4.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to Assistance Data Delivery procedure, Clarification of assisted GPS related parameters, Clarification of paging initiation, Editorial Corrections, Clarification of Timing Assistance, Clarification of Integrity Monitor Function.
ARIB STD-T63-25.306	3.1.0	3.0.0	UE Radio Access capabilities definition	Downlink rate matching limitation, Miscellaneous corrections and editorial clean-up, Maximum number of AM entity, Clarification of maximum number of TF, Removal of the RLC PU concept
ARIB STD-T63-25.321	3.7.0	3.6.0	MAC protocol specification	Removal of FAUSCH, TFC selection algorithm correction, Miscellaneous corrections, Clarification on Traffic Volume Measurement Procedure, Clarification on parameters of the primitives.
ARIB STD-T63-25.401	3.6.0	3.5.0	UTRAN Overall Description	Correction for the directions of the logical channels in Figure 15, 19 and 21. And correction and clarification for the several definitions and abbreviations.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.402	3.5.0	3.4.0	Synchronisation in UTRAN Stage 2	Correction for the values of t parameters in Figure 3: RNC-Node B Node Synchronisation.
ARIB STD-T63-25.420	3.3.0	3.2.0	UTRAN Iur Interface General Aspects and Principles	Subclause numbers in 4.5.1.1 are modified and specification notations in 9.1.to 9.7 are modified. It is clarified that DSCH and USCH are treated within DCH Procedure module.
ARIB STD-T63-25.421	3.1.0	3.0.0	UTRAN Iur interface Layer 1	The referred specification version number and date in Chapter2: References is removed.
ARIB STD-T63-25.423	3.5.0	3.4.0	UTRAN Iur Interface RNSAP Signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.
ARIB STD-T63-25.424	3.6.0	3.5.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	The mandatory application of the AAL2 Link Characteristics parameters on Iur was specified.
ARIB STD-T63-25.425	3.4.0	3.3.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	Flow chart for FACH Flow control was added, and "DSCH Flow Control frame" was replaced by "DSCH Capacity Allocation frame". Iur RACH frame format was modified. Infrequent Out-of-sequence delivery was permitted. Handling of spare bits was specified.
ARIB STD-T63-25.426	3.6.0	3.5.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	The mandatory application of the AAL2 Link Characteristics parameters on Iur was specified.
ARIB STD-T63-25.427	3.6.0	3.5.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	It is mandated that the Node B must transmit special bursts as per WG1before the DL user plane is synchronized in TDD. The services expected from the transport layer are modified. Infrequent Out-of-sequence delivery is permitted.
ARIB STD-T63-25.430	3.5.0	3.4.0	UTRAN Iub Interface: General Aspects and Principles	Figure 7 is corrected that ALCAP corresponds to Q.2630.1 only.
ARIB STD-T63-25.431	3.1.0	3.0.0	UTRAN Iub interface Layer 1	The requirement for "Fractional ATM" on the Iub interface is inserted. The referred specification version number and date are removed from Chapter 2: References.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.433	3.5.0	3.4.0	UTRAN Iub interface NBAP signalling	Many correction, modification and clarification for NBAP procedure text (more than 90 places), IE in NBAP messages (more than 50), ASN.1 and other NBAP signalling.
ARIB STD-T63-25.434	3.5.0	3.4.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	Clarification for the use of the ALC parameters in the Establish Request message.
ARIB STD-T63-25.435	3.6.0	3.5.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Clarification for that Infrequent Out-of-sequence delivery is permitted and how the transmitter and receiver shall handle spare bits.
ARIB STD-T63-26.073	3.2.0	3.1.0	ANSI-C code for Adaptive Multi Rate speech Codec	Correction of potential bugs in AMR decoder.
ARIB STD-T63-26.074	3.1.0	3.1.2	Mandatory Speech Codec speech processing functions ; AMR speech Codec; Test sequences	Correction of test vectors due to bug fix.
ARIB STD-T63-26.102	3.3.0	3.2.0	Mandatory Speech Codec; AMR speech Codec; Interface to Iu and Uu	Removal of initial time alignment.
ARIB STD-T63-26.110	3.1.0	3.0.1	Codec for Circuit switched Multimedia Telephony Service; General Description	Correction of incorrect reference.
ARIB STD-T63-26.131	3.2.0	3.1.0	Terminal Acoustic Characteristics for Telephony; Requirements	Harmonisation of narrow-band acoustic requirements between 3GPP and GSM
ARIB STD-T63-26.132	3.2.0	3.1.0	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Harmonisation of test methods for acoustics between 3GPP and GSM
ARIB STD-T63-27.007	3.8.0	3.7.0	AT command set for 3G User Equipment (UE)	Addition of explicit subscribed value to QoS command. Corresponding GMM states for +CGREG command. Definition of "class C in GPRS and circuit switched alternate mode"
ARIB STD-T63-31.102	3.5.0	3.4.0	Characteristics of the USIM Application	11 corrections and clarifications
ARIB STD-T63-31.111	3.4.0	3.3.0	USIM Application Toolkit (USAT)	4 corrections
ARIB STD-T63-33.102	3.8.0	3.7.0	3G Security; Security Architecture	Correction and modification of security architecture
Changed	Version at ARIB STD-T63	Version at ARIB STD-T63	Title	Change summary

Standard Number	STD-T63 Ver.2.00	STD-T63 Ver.1.40		
ARIB STD-T63-33.105	3.7.0	3.6.0	3G Security ; Cryptographic Algorithm requirements	Correction of description
ARIB STD-T63-33.107	3.2.0	3.1.0	3G Security ; Lawful Interception Architecture and Functions	Correction and modification of LI architecture
ARIB STD-T63-34.108	3.3.0	3.2.0	Common Test Environments for User Equipment (UE) Conformance Testing	Parameters used in test conditions are revised based on CRs of test specifications.
ARIB STD-T63-34.109	3.3.0	3.2.0	Logical Test Interface (TDD and FDD)	Electrical Man Machine Interface.
ARIB STD-T63-34.121	3.4.0	3.3.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Test Tolerance information is incorporated, and Test procedures are revised and improved.
ARIB STD-T63-34.123-1	3.3.0	3.2.0	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Test methods are revised based on CRs of core specifications.
ARIB STD-T63-34.123-2	3.3.0	3.2.0	User Equipment (UE) Conformance Specification, Part 2; ICS	All revisions are based on changes of 34.123-1.
ARIB STD-T63-34.124	3.3.0	3.2.0	Electro-Magnetic Compatibility (EMC) requirements for Mobile Terminals and ancillary equipment	Reference to ITU-R SM329 were corrected. Measurement Band Width for Rx spurious emission was corrected.

2. Release 4

2.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-21.101	4.0.0	-	3rd Generation mobile system Release 4 specifications	Identifies the 3rd generation mobile system specifications for Release 4.
ARIB STD-T63-21.111	4.0.0		USIM and IC card requirements	Issued as version 4.0.0 in order to create a complete set of specifications for release 4. The contents of version 4.0.0 are identical to the contents of version 3.3.0
ARIB STD-T63-21.133	4.0.0		Security Threats and Requirements	Description of security threats and requirements for 3G
ARIB STD-T63-22.001	4.1.1		Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Covers the definition of the circuit telecommunication services supported by a PLMN and to provide a method for the characterization and the description of these telecommunication services.
ARIB STD-T63-22.002	4.1.0		Circuit Bearer Services Supported by a PLMN	Defines a set of Circuit Bearer Services to be provided to PLMN subscribers by a PLMN itself and in connection with other networks for Rel4
ARIB STD-T63-22.003	4.1.0		Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Describes and defines a recommended set of Circuit Teleservices to be supported by a PLMN in connection with other networks for rel4
ARIB STD-T63-22.016	4.0.0		International Mobile Equipment Identities (IMEI)	Unique number which shall be allocated to each individual mobile station equipment in the PLMN and shall be unconditionally implemented by the MS manufacturer

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-22.022	4.0.0		Personalisation of GSM ME Mobile functionality specification ; Stage 1	The present document provides functional specifications of five features to personalise Mobile Equipment (ME) for GSM and 3G systems. These features are called: - Network personalisation; - Network subset personalisation; - Service Provider (SP) personalisation; - Corporate personalisation; - SIM/USIM personalisation (SIM for GSM systems or USIM for 3G systems). The present document specifies requirements for MEs which provide these personalisation features.
ARIB STD-T63-22.030	4.0.0		Man-Machine Interface (MMI) of the Mobile Station (MS)	Defines the requirements for and gives guidelines on the MMI on the User Equipment (UE) and includes the requirements of the user procedures for call control and supplementary service control, the requirements on the physical input media and the output, such as indications and displayed information
ARIB STD-T63-22.034	4.0.0		High Speed Circuit Switched Data (HSCSD) ; Stage 1	Feature that introduce General Bearer Services and a multislot mechanism is used for user rates that can be achieved with one or more TCH/F
ARIB STD-T63-22.038	4.1.0		SIM application toolkit (SAT); Stage 1	Execution environment for applications stored on the USIM/SIM card and the ability to utilize certain functions of the supporting mobile equipment
ARIB STD-T63-22.057	4.0.0		Mobile Station Application Execution Environment (MExE); Stage 1	Execution environment in an UE, and an ability to negotiate its supported capabilities with a MExE service provider, allowing applications to be developed independently of any UE platform
ARIB STD-T63-22.067	4.0.0		enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	Provides different levels of precedence for call set-up and for call continuity in case of handover.
ARIB STD-T63-22.071	4.3.0		Location Services (LCS); Stage 1	Report in the current location of the user's terminal and to make the information available to the user, ME, network operator, service provider, value added service providers and for PLMN internal operations

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-22.076	4.0.0		Noise Suppression for the AMR	Stage 1 service description is specified for the Noise Suppression feature for AMR codec which enhances the input speech signal corrupted by acoustic noise.
ARIB STD-T63-22.101	4.3.0		UMTS Service principles	Describes the Service Principles for PLMNs specified by 3GPP
ARIB STD-T63-22.105	4.1.0		Services & Service capabilities	Describes service & service capabilities how and what kind of services the user has access to
ARIB STD-T63-22.112	4.0.0		USIM toolkit interpreter; Stage 1	The present document specifies a system to make Mobile Operator services, based on USAT functionality and USIM based security functionality.
ARIB STD-T63-22.140	4.1.0		Multimedia Messaging Service; Stage 1	Service which allows transfer of multimedia messages between users without the requirement for the multimedia messages to be transferred in real-time
ARIB STD-T63-23.038	4.2.0		Alphabets & Language-specific information	The alphabets, languages and message handling requirements for SMS, CBS and USSD .
ARIB STD-T63-23.039	4.0.0		Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	Range of alternative interfaces for Short Message Service Centre (SMSC) and Short Message Entity (SME)
ARIB STD-T63-23.040	4.2.0		Technical realisation of Short Message Service	The Short Message Service (SMS) for GSM/UMTS networks.
ARIB STD-T63-23.041	4.0.0		Technical Realization of Cell Broadcast Service	The Cell Broadcast short message service (CBS) for GSM and UMTS.
ARIB STD-T63-23.042	4.0.0		Compression algorithm for text messaging services	The concepts and mechanisms involved in the compression and decompression of a stream of data.
ARIB STD-T63-23.057	4.1.0		Mobile Execution Environment (MExE) Functional description Stage 2	The stage 2 and 3 description of the Mobile Station Application Execution Environment (MExE).
ARIB STD-T63-23.107	4.0.0		Quality of Service, Concept and Architecture	The present document provides the framework for Quality of Service within UMTS. The main purpose is to specify the list of attributes applicable to UMTS Bearer Service and Radio Access Bearer Service.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-23.140	4.2.0		Multimedia Messaging Service (MMS) Functional description Stage 2	The stage 2 and stage 3 description of the non-realtime Multimedia Messaging Service, MMS.
ARIB STD-T63-23.227	4.0.0		Application and user interaction in the UE; Principles and specific requirements	The principles for scheduling resources between applications in different application execution environment
ARIB STD-T63-25.101	4.0.0		UE Radio transmission and reception (FDD)	The minimum RF characteristics of the FDD mode of UTRA for the User Equipment (UE) for release 4 are provided.
ARIB STD-T63-25.104	4.0.0		UTRA (BS) FDD; Radio transmission and reception	The minimum RF characteristics of the FDD mode of UTRA for Base Station(BS) for release 4 are provided..
ARIB STD-T63-25.106	4.0.0		UTRA Repeater; Radio transmission and reception	The minimum RF characteristics of the FDD mode of UTRA for Repeater are provided.
ARIB STD-T63-25.113	4.0.0		Base station and Repeater electromagnetic compatibility (EMC)	The assessment of base stations, their associated ancillary equipment and repeaters for FDD mode of UTRA, in respect of Electromagnetic Compatibility (EMC) are provided.
ARIB STD-T63-25.133	4.0.0		Requirements for support of radio resource management (FDD)	The document specifies requirements for support of Radio Resource Management for FDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamical behaviour and interaction, in terms of delay and response characteristics.
ARIB STD-T63-25.141	4.0.0		Base station conformance testing (FDD)	The document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the FDD mode. These have been derived from, and are consistent with the UTRA Base Station (BS) specifications defined in STD-T63-25.101.
ARIB STD-T63-25.143	4.0.0		UTRA Repeater; Conformance testing	The document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Repeater operating in the FDD mode. These have been derived from, and are consistent with the UTRA repeater specifications defined in STD-T63-25.106.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.201	4.0.0		Physical layer -General Description	This document describes a general description of the physical layer of the UTRA radio interface. This version is the same as V3.1.0, except that some modifications are included for the 1.28Mcps TDD option.
ARIB STD-T63-25.211	4.0.0		Physical channels and mapping of transport channels onto physical channels (FDD)	This document describes the characteristics of the Layer 1 transport channels and physicals channels in the FDD mode of UTRA. This version is the same as V3.6.0.
ARIB STD-T63-25.212	4.0.0		Multiplexing and channel coding (FDD)	This document describes the characteristics of the Layer 1 multiplexing and channel coding in the FDD mode of UTRA. This version is the same as V3.5.0.
ARIB STD-T63-25.213	4.0.0		Spreading and modulation (FDD)	This document describes spreading and modulation for UTRA Physical Layer FDD mode. This version is the same as V3.5.0.
ARIB STD-T63-25.214	4.0.0		Physical layer procedures (FDD)	This document specifies and establishes the characteristics of the physical layer procedures in the FDD mode of UTRA. This version is the same as V3.6.0, except for DSCH power control improvement in soft handover.
ARIB STD-T63-25.215	4.0.0		Physical layer; Measurements (FDD)	This document contains the description and definition of the measurements for FDD done at the UE and network. This version is the same as V3.6.0, except for introduction of RTD measurement.
ARIB STD-T63-25.301	4.0.0		Radio Interface Protocol Architecture	An overview and overall description of the UE-UTRAN radio interface protocol architecture. This version is based on Rel-99 V3.7.0 and added support of 1.28Mcps TDD.
ARIB STD-T63-25.302	4.0.0		Services provided by the physical layer	The services provided by the physical layer of UTRA to upper layers. This version is based on Rel-99 V3.8.0 and added support of 1.28Mcps TDD, Measurements for Node B synchronisation.
ARIB STD-T63-25.303	4.0.0		Inter-layer Procedures in Connected Mode	All procedures that assign, reconfigure and release radio resources. This version is based on Rel-99 V3.7.0 and added support of 1.28Mcps TDD.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.304	4.0.0		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	The Access Stratum part of the Idle Mode procedures, cell reselection processes, and model for the functional division between the non-access stratum and access stratum in a UE.. This version is based on Rel-99 V3.6.0 and added support of 1.28Mcps TDD.
ARIB STD-T63-25.305	4.0.0		Stage 2 Functional Specification of UE Positioning in UTRAN	The stage 2 of the UE Positioning function of UTRAN. This version is based on Rel-99 V3.5.0 and added Introduction of IPDLs for TDD.
ARIB STD-T63-25.306	4.0.0		UE Radio Access capabilities	The parameters of the access stratum part of the UE radio access capabilities. This version is based on Rel-99 V3.1.0 and added support of 1.28Mcps TDD, DSCH related updates for UE capabilities for the UE Radio Access Capability parameter combinations, Addition of ROHC.
ARIB STD-T63-25.321	4.0.0		MAC protocol specification	The MAC protocol. This version is based on Rel-99 V3.7.0 and added support of 1.28Mcps TDD.
ARIB STD-T63-25.401	4.0.0		UTRAN Overall Description	The present document describes the overall architecture of the UTRAN, including internal interfaces and assumptions on the radio and lu interfaces.
ARIB STD-T63-25.402	4.0.0		Synchronisation in UTRAN Stage 2	The present document constitutes the stage 2 specification of different synchronisation mechanisms in UTRAN and on Uu.
ARIB STD-T63-25.420	4.0.0		UTRAN Iur Interface: General Aspects and Principles	The present document is an introduction to the TSG RAN TS 25.42x series of TSs that define the Iur Interface. It is a logical interface for the interconnection of two RNC components of the UTRAN.
ARIB STD-T63-25.421	4.0.0		UTRAN Iur interface Layer 1	The present document specifies the standards allowed to implement Layer 1 on the Iur interface. The specification of transmission delay requirements and O&M requirements are not in the scope of this document.
ARIB STD-T63-25.422	4.0.0		UTRAN Iur interface signalling transport	The present document specifies the standards for Signalling Transport to be used across Iur Interface. The present document describes how the RNSAP signalling messages are transported between the two RNCs.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.423	4.0.0		UTRAN lur interface RNSAP signalling	The present document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN.
ARIB STD-T63-25.424	4.0.0		UTRAN lur interface data transport & transport signalling for CCH data streams	The present document shall provide a specification of the lur interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.425	4.0.0		UTRAN lur interface user plane protocols for CCH data streams	The present document shall provide a description of the lur interface user plane protocols for Common Transport Channel data streams.
ARIB STD-T63-25.426	4.0.0		UTRAN lur and lub interface data transport & transport signalling for DCH data streams	The present document specifies the transport bearers for the DCH data streams on UTRAN lur and lub interfaces. The corresponding Transport Network Control plane is also specified. The physical layer for the transport bearers is outside the scope of the present document.
ARIB STD-T63-25.427	4.0.0		UTRAN lur and lub interface user plane protocols for DCH data streams	This document shall provide a description of the UTRAN lur and lub interfaces user plane protocols for Dedicated Transport Channel data streams.
ARIB STD-T63-25.430	4.0.0		UTRAN lub Interface: General Aspects and Principles	The present document is an introduction to the TSG RAN TS 25.43x series of TSs that define the lub Interface. The lub interface is a logical interface for the interconnection of Node B and RNC components of the UTRAN.
ARIB STD-T63-25.431	4.0.0		UTRAN lub interface Layer 1	The present document specifies the standards allowed to implement Layer 1 on the lub interface. The specification of transmission delay requirements and O&M requirements is not in the scope of this document.
ARIB STD-T63-25.432	4.0.0		UTRAN lub interface signalling transport	The present document specifies the signalling transport related to NBAP signalling to be used across the lub Interface. The radio network control signalling between these nodes is based on the Node B application part (NBAP).

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.433	4.0.0		UTRAN Iub interface NBAP signalling	The present document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.
ARIB STD-T63-25.434	4.0.0		UTRAN Iub interface data transport & transport signalling for CCH data streams	The present document shall provide a specification of the Iub interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.435	4.0.0		UTRAN Iub interface user plane protocols for CCH data streams	The present document provides a description of the Iub interface user plane protocols for Common Channel data streams.
ARIB STD-T63-25.442	4.0.0		UTRAN Implementation Specific O&M Transport	The present document specifies the transport of implementation specific O&M signalling between Node B and the Management Platform in case that the transport is routed via the RNC.
ARIB STD-T63-26.071	4.0.0		AMR speech Codec; General description	General description of AMR speech codec.
ARIB STD-T63-26.073	4.0.0		AMR speech Codec; C-source code	ANSI-C source code of AMR speech codec.
ARIB STD-T63-26.074	4.0.0		AMR speech Codec; Test sequences	Test Vectors for AMR speech codec.
ARIB STD-T63-26.077	4.0.0		Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Minimum Performance Requirements for Noise Suppressor is specified which is applied to AMR speech encoder.
ARIB STD-T63-26.090	4.0.0		AMR speech Codec; Transcoding Functions	AMR speech codec transcoding functions are specified.
ARIB STD-T63-26.091	4.0.0		AMR speech Codec; Error concealment of lost frames	Error concealment of lost frames in AMR decoder is
ARIB STD-T63-26.092	4.0.0		AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Noise parameter encoding/decoding and comfort noise generation is specified during source controlled rate operation.
ARIB STD-T63-26.093	4.0.0		AMR speech Codec; Source Controlled Rate operation	Source controlled rate (SCR) operation for AMR speech codec is specified.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-26.094	4.0.0		AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	Two alternatives for the Voice Activity Detector (VAD) to be used in the Discontinuous Transmission (DTX) for AMR speech codec is specified.
ARIB STD-T63-26.101	4.0.0		AMR speech Codec; Frame Structure	Generic frame format for AMR speech codec is specified.
ARIB STD-T63-26.102	4.0.0		AMR speech Codec; Interface to lu and Uu	Two alternatives for the Voice Activity Detector (VAD) to be used in the Discontinuous Transmission (DTX) for AMR speech codec is specified.
ARIB STD-T63-26.103	4.1.0		Codec lists	Codec Lists are specified in 3GPP to be used by the Out of Band Transcoder Control (OoBTC) protocol in TrFO and in TFO.
ARIB STD-T63-26.104	4.0.0		AMR speech Codec; Floating point C-Code	An electronic copy of the ANSI-C code for a floating-point implementation of AMR codec is contained in this specification.
ARIB STD-T63-26.110	4.1.0		Codec for Circuit switched Multimedia Telephony Service; General Description	H.324 based multimedia codecs for circuit switched 3GPP networks is specified. Support of mobile multi-link operation is described.
ARIB STD-T63-26.111	4.0.0		Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Additions, deletions, and changes made to ITU-T Recommendation H.324 with annex C for the purpose of applying to circuit switched multimedia service in 3GPP networks.
ARIB STD-T63-26.115	4.0.0		Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	Minimum performance requirements for the transmission planning aspects of 3G speech and multi-media services are specified.
ARIB STD-T63-26.131	4.0.0		Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	Minimum performance requirements for the acoustic characteristics of 3G terminals when used to provide narrow-band or wideband telephony are specified.
ARIB STD-T63-26.132	4.0.0		Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Test methods to allow the minimum performance requirements for the acoustic characteristics of 3G terminals when used to provide narrow-band or wideband telephony to be assessed.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-26.233	4.0.0		End-to-end transparent streaming service; General description	General description of a transparent packet-switched streaming service in 3G networks is described.
ARIB STD-T63-26.234	4.0.0		End-to-end transparent streaming service; Protocols and codecs	Protocols and codecs for the PSS within the 3GPP system are described. Protocols for control signalling, scene description, media transport and media encapsulations are specified. Codecs for speech, audio, video, still images, bitmap graphics, and text are specified.
ARIB STD-T63-26.235	4.0.0		Packet switched conversational multimedia applications; Default codecs	Set of default codecs for packet switched conversational multimedia applications within 3GPP IP Multimedia Subsystem are specified. Visual and sound communication are specifically addressed.
ARIB STD-T63-27.005	4.0.0		Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Three interface protocols for control of SMS functions within a GSM/UMTS mobile telephone from a remote terminal via an asynchronous interface.
ARIB STD-T63-27.007	4.1.0		AT command set for 3G User Equipment (UE)	A profile of AT commands, and recommendation for controlling of Mobile Equipment (ME) functions and GSM/UMTS network services from a Terminal Equipment (TE) through Terminal Adaptor (TA).
ARIB STD-T63-27.010	4.0.0		Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	A multiplexing protocol between a UE and a TE.. The multiplexing protocol can be used to send any data, for instance voice, SMS, USSD, fax etc.
ARIB STD-T63-27.103	4.0.0		Wide area network synchronization standard	Wide Area Network Synchronization between current and future mobile communication end-user devices, desktop applications and server-based information servers.
ARIB STD-T63-28.062	4.0.0		Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Service Description for the In-band signalling Protocol for the support of Tandem Free Operation of Speech Codecs in GSM and GSM-evolved 3G systems.
ARIB STD-T63-31.101	4.0.0		UICC-Terminal Interface; Physical and Logical Characteristics	Issued as version 4.0.0 in order to create a complete set of specifications for release 4. The contents of version 4.0.0 are identical to the contents of version 3.3.0

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-31.102	4.0.0		Characteristics of the USIM Application	Issued as version 4.0.0 in order to create a complete set of specifications for release 4. The contents of version 4.0.0 are identical to the contents of version 3.5.0
ARIB STD-T63-31.110	4.0.0		Numbering system for telecommunication IC card applications	Issued as version 4.0.0 in order to create a complete set of specifications for release 4. The contents of version 4.0.0 are identical to the contents of version 3.2.0
ARIB STD-T63-31.111	4.2.1		USIM Application Toolkit (USAT)	13 corrections
ARIB STD-T63-33.102	4.0.0		Security Architecture	Overview and detailed description of security architecture
ARIB STD-T63-33.103	4.0.0		Security Integration Guidelines	Guidelines for implementators
ARIB STD-T63-33.105	4.0.0		Cryptographic Algorithm requirements	Requirements for authentication, confidentiality and integrity algorithms
ARIB STD-T63-33.106	4.0.0		Lawful interception requirements	Requirements for lawful interception
ARIB STD-T63-33.107	4.0.0		Lawful interception architecture and functions	Architecture of lawful interception
ARIB STD-T63-33.120	4.0.0		Security Objectives and Principles	Security objectives and principles for 3G system
ARIB STD-T63-33.200	4.0.0		Network Domain Security	MAP security
ARIB STD-T63-34.109	4.0.0		Terminal logical test interface; Special conformance testing functions	The present document specifies for User Equipment (UE), in UMTS system, for FDD and TDD modes, those UE functions that are required for conformance testing purposes. This version is same as Rel-99 V3.3.0.
ARIB STD-T63-34.124	4.0.0		Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	The document specifies the applicable EMC tests, the methods of measurement, the frequency range, the limits and the minimum performance criteria for all types of UTRA UE's operating in FDD or TDD modes and their accessories.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-35.201	4.0.0		Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Specifications of f8 and f9
ARIB STD-T63-35.202	4.0.0		Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	Specification of KASUMI
ARIB STD-T63-35.203	4.0.0		Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	List of test data
ARIB STD-T63-35.204	4.0.0		Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Design conformance test data

(Annex 6)

3GPP ARIB Change history List of Standards Ver. 2.10

15 November 2001

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-21.101	3.4.0	3.3.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.003	3.3.0	3.2.0	Circuit Teleservices Supported by a Public Land Mobile Network (PLMN)	22.003 implies that Voice Group service is applicable to GERAN and UTRAN in R99. Note to indicate Voice Group service apply to GERAN only.
ARIB STD-T63-22.101	3.13.0	3.12.0	Service Aspects ; Service principles	The Service Provider Name Indication included in Release 98 (02.07) was not carried into Release 99 (22.101), but is in the SIM/USIM specification for Release 99.
ARIB STD-T63-23.041	3.4.0	3.3.0	Technical Realization of Cell Broadcast Service (SCB)	Clarification of Geographical Scope
ARIB STD-T63-23.171	3.3.0	3.2.0	Functional stage 2 description of location services in UMTS	The correction on the SAI definition, the clarification on the usage of "LOCATION REPORTING CONTROL" of RANAP, and the correction on the previous CR on the Call related MT-LR was made.
ARIB STD-T63-23.171	3.4.0	3.3.0	Functional stage 2 description of location services in UMTS	Clarification of LCS location notification messages
ARIB STD-T63-25.101	3.7.0	3.6.0	UE Radio transmission and reception (FDD)	Corrections on test parameters, conditions and definition have been made to avoid ambiguity in each test.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.00	Version at ARIB STD-T63 Ver.1.40	Title	Change summary
ARIB STD-T63-25.104	3.7.0	3.6.0	UTRA (BS) FDD; Radio transmission and reception	Definition of ACLR and Eb/No for Rx performance have been corrected. Tests for Rx blocking characteristics and emission for co-located BS are corrected as well.
ARIB STD-T63-25.133	3.6.0	3.5.0	Requirements for Support of Radio Resource Management (FDD)	Corrections on cell re-selection requirements, idle mode selection, measurements in CELL_FACH State, sections for connected mode and sections for measurement performance requirements have been made.
ARIB STD-T63-25.141	3.6.0	3.5.0	Base station conformance testing (FDD)	Corrections correspond to those for TS25.104 have been made. Further corrections on measurement uncertainty etc. have been introduced.
ARIB STD-T63-25.211	3.7.0	3.6.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The representation of slot formats for P-CCPCH, S-CCPCH, and PDSCH has been modified to use Ndata1 instead of Ndata. The phase reference for "DL-DPCCH for CPCH" has been corrected.
ARIB STD-T63-25.212	3.6.0	3.5.0	Multiplexing and channel coding (FDD)	Calculation of rate matching parameters on compressed mode by puncturing has been corrected. Derivation of rate matching parameters for DSCH CCTrCH has been added. The non-detection case has been allowed for dual transport format detection.
ARIB STD-T63-25.213	3.6.0	3.5.0	Spreading and modulation (FDD)	Sequence alignment of downlink channelisation codes has been clarified. The notion of PDSCH root channelisation code has been defined.
ARIB STD-T63-25.214	3.7.0	3.6.0	Physical layer procedures (FDD)	Some clarification has been done on synchronisation procedures, downlink TPC command generation during RL initialisation, downlink maximum power level in compressed mode, closed-loop transmit diversity initialisation during compressed mode, and the definition of the IPDL burst mode parameters.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-25.215	3.7.0	3.6.0	Physical layer - Measurements (FDD)	BLER computation has been described explicitly, and the applicability of BLER has been corrected. LCS has been renamed to UE positioning.
ARIB STD-T63-25.301	3.8.0	3.7.0	Radio Interface Protocol Architecture	Clarification in the services provided to upper layers by RLC, Cleanup of Layer 2 services and functions.
ARIB STD-T63-25.302	3.9.0	3.8.0	Services provided by the Physical Layer	Physical Channel Combination, General corrections and clarifications, Definition of empty TF and TFC.
ARIB STD-T63-25.303	3.8.0	3.7.0	Interlayer Procedures in Connected Mode	Corrections to procedure examples.
ARIB STD-T63-25.304	3.7.0	3.6.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Corrections to 25.304, Emergency calls in barred cells, Clarification to usage of measurement thresholds.
ARIB STD-T63-25.305	3.6.0	3.5.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Removal of positioning request transfer during SRNS relocation.
ARIB STD-T63-25.306	3.2.0	3.1.0	UE Radio Access capabilities definition	Clarification on the number of CCTrCHs to be received simultaneously by the UE.
ARIB STD-T63-25.321	3.8.0	3.7.0	MAC protocol specification	RLC Tr Discard, Clarification on compressed mode, Correction of relation between MAC functions and transport channels, Rate adaptation, Cleanup of MAC services and functions.
ARIB STD-T63-25.401	3.7.0	3.6.0	UTRAN Overall Description	Fig4 was modified, AAL5 was removed, 'PLMN Identifier' was changed into 'PLMN Identity' and some editorial modifications.
ARIB STD-T63-25.402	3.6.0	3.5.0	Synchronisation in UTRAN Stage 2	Requirement for NodeB synchronisation via TDD was included, network synchronisation aspect was clarified and incorrect figure reference was corrected.
ARIB STD-T63-25.423	3.6.0	3.5.0	UTRAN Iur Interface RNSAP Signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-25.427	3.7.0	3.6.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	It is clarified that the CRCI bit is included also for TBs with TB length equal to zero. Synchronisation in the Iub User Plane for a Radio Link shall only be achieved when all the transport channels established for carrying DL DCH Data Streams are synchronised.
ARIB STD-T63-25.430	3.6.0	3.5.0	UTRAN Iub Interface: General Aspects and Principles	It is corrected that DSCH is not a common channel. If any Iub transport bearers for common or dedicated transport channels exist when the cell is deleted, the Node B shall initiate the release of those transport bearers.
ARIB STD-T63-25.433	3.6.0	3.5.0	UTRAN Iub interface NBAP signalling	This part is many correction, modification and clarification for NBAP procedure text (21places), IE in NBAP messages (44 places), ASN.1 and other NBAP signalling.
ARIB STD-T63-25.435	3.7.0	3.6.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Clarification of Timing Deviation for RACH/USCH in cases where any physical layer bursts are used to transmit the user data over the Uu interface.
ARIB STD-T63-26.101	3.2.0	3.1.0	Mandatory Speech Codec speech processing functions ; AMR speech Codec Frame Structure	Correction to SID Frame Mapping
ARIB STD-T63-26.104	3.2.0	3.1.0	AMR speech Codec; Floating point C-Code	Corrections encoder-decoder operations AMR-NB floating point.
ARIB STD-T63-27.007	3.9.0	3.8.0	AT command set for 3G User Equipment (UE)	Aligning command AT+CSNS with changes introduced to single numbering scheme. Inclusion of multimedia values to command AT+CBST. Inclusion of IPv6 and removal of X.25 and OSPIH <PDP_type> values
ARIB STD-T63-31.102	3.6.0	3.5.0	Characteristics of the USIM Application	8 corrections and clarifications
ARIB STD-T63-31.111	3.5.0	3.4.0	USIM Application Toolkit (USAT)	5 corrections and clarifications
ARIB STD-T63-31.121	3.1.0	3.0.0	Terminal tests for the UICC Interface; Part2	4 corrections and clarifications

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-33.102	3.9.0	3.8.0	3G Security; Security Architecture	Modification and clarification of security architecture
ARIB STD-T63-33.103	3.6.0	3.5.0	3G Security ; Integration Guidelines	Modification and clarification of integrated parameters
ARIB STD-T63-33.105	3.8.0	3.7.0	3G Security ; Cryptographic Algorithm requirements	Modification and clarification of algorithm requirements
ARIB STD-T63-34.108	3.4.0	3.3.0	Common Test Environments for User Equipment (UE) Conformance Testing	Parameters used in test conditions are revised based on CRs of test specifications.
ARIB STD-T63-34.109	3.4.0	3.3.0	Terminal logical test interface; Special conformance testing functions	Clarification to Loopback Delay requirement & BTFD in TDD mode, Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers.
ARIB STD-T63-34.121	3.5.0	3.4.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Test Tolerance information is incorporated, and Test procedures are revised and improved.
ARIB STD-T63-34.123-1	3.4.0	3.3.0	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Test methods are revised based on CRs of core specifications.
ARIB STD-T63-34.123-2	3.4.0	3.3.0	User Equipment (UE) Conformance Specification, Part 2; ICS	All revisions are based on changes of 34.123-1.

2. Release 4

2.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-22.048	4.0.0	-	Security mechanisms for the SIM Application Toolkit; Stage 1	Alignment with 3G release-4 specifications NOTE: This CR converts the terminology in TS 02.48 v8.0.0 to apply to both GSM and 3G. With this change, the specification number changes from TS 02.48 to TS 22.048.
ARIB STD-T63-23.048	4.0.0		Security Mechanisms for SIM Toolkit Application; Stage 2	Alignment with 3G release-4 specifications NOTE: This CR (A018) converts the terminology in the specification to apply to both GSM and 3G. With this change, the specification number changes from TS 03.48 to TS 23.048.

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-21.102	4.1.0	4.0.0	3rd Generation mobile system Release 4 specifications	Correction to list of specs
ARIB STD-T63-22.001	4.2.0	4.1.1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Removal of features due to deletion of the workitem on "Bearer modification without pre-notification".
ARIB STD-T63-22.002	4.2.0	4.1.0	Circuit Bearer Services Supported by a PLMN	Clarification and Restructure document on Circuit Switched Bearer Services in UMTS

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-22.003	4.2.0	4.1.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	22.003 implies that Voice Group service is applicable to GERAN and UTRAN in R04. Note to indicate Voice Group service apply to GERAN only.
ARIB STD-T63-22.101	4.4.0	4.3.0	UMTS Service principles	Text to allow at least 10 PLMN Identifications to be associated with one PLMN name moved to PLMN Name section and one SP name. Rules for display of SP name and PLMN name clarified.
ARIB STD-T63-22.105	4.2.0	4.1.0	Services & Service capabilities	Removal of features due to deletion of the workitem on "Bearer modification without pre-notification".
ARIB STD-T63-23.040	4.3.0	4.2.0	Technical realisation of Short Message Service	Clarification of Application Port Addressing, User Prompt Indicator and Email Addressing for Email - SMS Interworking.. Removal of duplicated values in TP-PID section.
ARIB STD-T63-23.041	4.1.0	4.0.0	Technical Realization of Cell Broadcast Service	Clarification of Geographical Scope
ARIB STD-T63-23.057	4.2.0	4.1.0	Mobile Execution Environment (MExE) Functional description Stage 2	Correction of SIM insert/remove terminology. Quality of Service Support. Clarifications on call control and signed packages. Certificate Chain Verification Diagram
ARIB STD-T63-23.107	4.1.0	4.0.0	Quality of Service, Concept and Architecture	Mitigation of bandwidth consumption attacks
ARIB STD-T63-23.140	4.3.0	4.2.0	Multimedia Messaging Service (MMS) Functional description Stage 2	Corrections, Clarifications and Updates of MMS Media Codec/Format. Correction of MMSE definition and MM4 example. Address Hiding and Read-Reply Report.
ARIB STD-T63-25.101	4.1.0	4.0.0	UE Radio transmission and reception (FDD)	Other than shadow change requests (changes follow changes in release 99), a correction on AICH performance has been made.
ARIB STD-T63-25.104	4.1.0	4.0.0	UTRA (BS) FDD; Radio transmission and reception	Other than shadow change requests (changes follow changes in release 99), corrections on requirements for RACH demodulation and RACH preamble requirements have been introduced.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-25.113	4.1.0	4.0.0	Base station and Repeater electromagnetic compatibility (EMC)	Correction to the description of the radiated spurious emission test method for 1.28Mcps TDD option is incorporated.
ARIB STD-T63-25.133	4.1.0	4.0.0	Requirements for support of radio resource management (FDD)	Other than shadow change requests (changes follow changes in release 99), correction on "detection and measurements of new cells not belonging to monitored set" has been introduced.
ARIB STD-T63-25.141	4.1.0	4.0.0	Base station conformance testing (FDD)	Changes to follow the changes in release 99 have been incorporated.
ARIB STD-T63-25.211	4.1.0	4.0.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The representation of slot formats for P-CCPCH, S-CCPCH, and PDSCH has been modified to use Ndata1 instead of Ndata. The phase reference for "DL-DPCCH for CPCH" has been corrected.
ARIB STD-T63-25.212	4.1.0	4.0.0	Multiplexing and channel coding (FDD)	Calculation of rate matching parameters on compressed mode by puncturing has been corrected. Derivation of rate matching parameters for DSCH CCTrCH has been added. The non-detection case has been allowed for dual transport format detection.
ARIB STD-T63-25.213	4.1.0	4.0.0	Spreading and modulation (FDD)	Sequence alignment of downlink channelisation codes has been clarified. The notion of PDSCH root channelisation code has been defined.
ARIB STD-T63-25.214	4.1.0	4.0.0	Physical layer procedures (FDD)	Some clarification has been done on synchronisation procedures, downlink TPC command generation during RL initialisation, downlink maximum power level in compressed mode, closed-loop transmit diversity initialisation during compressed mode, and the definition of the IPDL burst mode parameters. In addition, a note is added for uplink only SS-DT signaling.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-25.215	4.1.0	4.0.0	Physical layer; Measurements (FDD)	BLER computation has been described explicitly, and the applicability of BLER has been corrected. LCS has been renamed to UE positioning.
ARIB STD-T63-25.301	4.1.0	4.0.0	Radio Interface Protocol Architecture	Clarification in the services provided to upper layers by RLC, Cleanup of Layer 2 services and functions.
ARIB STD-T63-25.302	4.1.0	4.0.0	Services provided by the physical layer	Physical Channel Combination, General corrections and clarifications, Definition of empty TF and TFC, Timing Advance (TADV) for 1.28Mcps TDD.
ARIB STD-T63-25.303	4.1.0	4.0.0	Inter-layer Procedures in Connected Mode	Corrections to procedure examples.
ARIB STD-T63-25.304	4.1.0	4.0.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Corrections to 25.304, Emergency calls in barred cells, Clarification to usage of measurement thresholds.
ARIB STD-T63-25.305	4.1.0	4.0.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Removal of positioning request transfer during SRNS relocation.
ARIB STD-T63-25.306	4.1.0	4.0.0	UE Radio Access capabilities	Clarification on the number of CCTrCHs to be received simultaneously by the UE, Modified UE Capability for CPCH.
ARIB STD-T63-25.321	4.1.0	4.0.0	MAC protocol specification	RLC Tr Discard, Clarification on compressed mode, Correction of relation between MAC functions and transport channels, Rate adaptation, Cleanup of MAC services and functions, Correction to control of RACH Transmissions for 1.28Mcps TDD.
ARIB STD-T63-25.401	4.1.0	4.0.0	UTRAN Overall Description	Fig4 was modified, AAL5 was removed, 'PLMN Identifier' was changed into 'PLMN Identity', 1.28Mcps TDD Uplink Synchronisation was added and some editorial modifications.
ARIB STD-T63-25.402	4.1.0	4.0.0	Synchronisation in UTRAN Stage 2	Requirement for NodeB synchronisation via TDD was included, Frequency Acquisition phase for Cell Synchronisation for TDD was included and some corrections.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-25.423	4.1.0	4.0.0	UTRAN Iur interface RNSAP signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.
ARIB STD-T63-25.427	4.1.0	4.0.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	It is clarified that the CRCI bit is included also for TBs with TB length equal to zero. Synchronisation in the Iub User Plane for a Radio Link shall only be achieved when all the transport channels established for carrying DL DCH Data Streams are synchronised.
ARIB STD-T63-25.430	4.1.0	4.0.0	UTRAN Iub Interface: General Aspects and Principles	It is corrected that DSCH is not a common channel. If any Iub transport bearers for common or dedicated transport channels exist when the cell is deleted, the Node B shall initiate the release of those transport bearers.
ARIB STD-T63-25.433	4.1.0	4.0.0	UTRAN Iub interface NBAP signalling	This part is many correction, modification and clarification for NBAP procedure text (33 places), IE in NBAP messages (86 places), ASN.1(26 places) and other NBAP signalling
ARIB STD-T63-25.434	4.1.0	4.0.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	Reference number to Q.2630.1 was corrected to Q.2630.2.
ARIB STD-T63-25.435	4.1.0	4.0.0	UTRAN Iub interface user plane protocols for CCH data streams	Clarification of Timing Deviation for RACH/USCH in cases where any physical layer bursts are used to transmit the user data over the Uu interface, and identification of some parameters that are used in only 3.84Mcps TDD.
ARIB STD-T63-26.101	4.1.0	4.0.0	AMR speech Codec; Frame Structure	Correction to SID Frame Mapping
ARIB STD-T63-26.104	4.1.0	4.0.0	AMR speech Codec; Floating point C-Code	Corrections encoder-decoder operations AMR-NB floating point .
ARIB STD-T63-26.235	-	4.0.0	Packet switched conversational multimedia applications; Default codecs	Withdrawn becomes Rel-5

Changed Standard Number	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-27.007	4.2.0	4.1.0	AT command set for 3G User Equipment (UE)	Aligning command AT+CSNS with changes introduced to single numbering scheme. Inclusion of multimedia values to command AT+CBST. Inclusion of IPv6 and removal of X.25 and OSPfH <PDP_type> values
ARIB STD-T63-28.062	4.1.0	4.0.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Remove the reference and add UMTS_AMR_2 codec types in operator's guide.
ARIB STD-T63-31.102	4.1.0	4.0.0	Characteristics of the USIM Application	8 corrections and clarifications
ARIB STD-T63-31.111	4.3.0	4.2.1	USIM Application Toolkit (USAT)	5 corrections and clarifications
ARIB STD-T63-33.102	4.1.0	4.0.0	Security Architecture	Modification and clarification of security architecture
ARIB STD-T63-33.103	4.1.0	4.0.0	Security Integration Guidelines	Modification and clarification of integrated parameters
ARIB STD-T63-33.105	4.1.0	4.0.0	Cryptographic Algorithm requirements	Modification and clarification of algorithm requirements
ARIB STD-T63-34.109	4.1.0	4.0.0	Terminal logical test interface; Special conformance testing functions	Clarification to Loopback Delay requirement & BTfD in TDD mode, Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers.

(Annex 7)

3GPP ARIB Change history List of Standards Ver. 2.20

24 January 2002

1. Release 99

1.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	summary
ARIB STD-T63-25.307	3.0.0	-	Requirement on UE supporting a release-independent frequency band	The present document specifies requirements on UEs supporting a frequency band that is independent of release.

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-21.101	3.5.0	3.4.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.100	3.7.0	3.6.0	UMTS Phase 1 Release 99	The provision of FAX service as described in section 6.2 is optionally and possible with means outside the necessary UMTS specifications.
ARIB STD-T63-23.040	3.6.0	3.5.0	Technical realisation of Short Message Service	Removal of EMS PID
ARIB STD-T63-23.171	3.5.0	3.4.0	Functional stage 2 description of location services in UMTS	A normative annex was added to explain how traffic classes have different weights in the QoS profile, in order to allow sub flows associated with an IP address and APN to have different "Traffic Classes" and hence support traffic of different types e.g. SIP signalling vs. video.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-25.101	3.8.0	3.7.0	UE Radio transmission and reception (FDD)	Reference pattern for compressed mode, frequency range for receiver spurious emission etc. are corrected.
ARIB STD-T63-25.104	3.8.0	3.7.0	UTRA (BS) FDD; Radio transmission and reception	PCDE(Peak Code Domain Error) requirement, Frequency range for receiver spurious emission etc. are corrected.
ARIB STD-T63-25.133	3.7.0	3.6.0	Requirements for Support of Radio Resource Management (FDD)	Hand over test cases for FDD to FDD, FDD-GSM and Cell reselection in CELL_FACH state etc. are corrected.
ARIB STD-T63-25.141	3.7.0	3.6.0	Base station conformance testing (FDD)	BS configuration for multi-carrier test cases, Frequency range for receiver spurious emission requirements and spectrum emission mask requirement etc. are corrected.
ARIB STD-T63-25.211	3.8.0	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The usage of transmit diversity modes in soft handover has been clarified. The usage of STTD has been clarified.
ARIB STD-T63-25.212	3.7.0	3.6.0	Multiplexing and channel coding (FDD)	Calculation of rate matching parameters on compressed mode by puncturing has been corrected. Derivation of rate matching parameters for DSCH CCTrCH has been added. The non-detection case has been allowed for dual transport format detection.
ARIB STD-T63-25.214	3.8.0	3.7.0	Physical layer procedures (FDD)	The description of closed loop transmit diversity has been improved. The SSDF behaviour with beam forming has been clarified. The CPCH access procedure has been corrected. The calculation of idle period position has been corrected and clarified.
ARIB STD-T63-25.215	3.8.0	3.7.0	Physical layer - Measurements (FDD)	BLER measurement on BCH has been removed.
ARIB STD-T63-25.302	3.10.0	3.9.0	Services provided by the Physical Layer	Transmission of selected ASC to physical layer, Corrected definition of the CCTrCH concerning BCH, RACH and CPCH, Transport Format Set Annex Correction, Corrections on unsupported features.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-25.303	3.9.0	3.8.0	Interlayer Procedures in Connected Mode	SRNS relocation and header compression protocol, Alignment on active set update, Proposed correction to SRNS relocation procedure.
ARIB STD-T63-25.304	3.8.0	3.7.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification to usage of measurement thresholds for HCS, Definition of strongest cell in cell search procedures, Miscellaneous corrections, Correction to cells reserved for operator use, Service type also valid in connected mode, Cell Access Restrictions for emergency calls.
ARIB STD-T63-25.306	3.3.0	3.2.0	UE Radio Access capabilities definition	Clarification of FDD physical channel parameters, Support of dedicated pilots for channel estimation, Correction of UE capabilities regarding Rx-Tx time difference type 2 measurements.
ARIB STD-T63-25.321	3.9.0	3.8.0	MAC protocol specification	Setting of UE Id in MAC, MAC ASC selection operation when access class is used to determine ASC, Addition of neighbour cell BCH to MAC-b model for the UE, Clarification on TFC selection.
ARIB STD-T63-25.401	3.8.0	3.7.0	UTRAN Overall Description	The power control function description with respect to the TDD mode was updated. It was clearly described that all DCHs in a set of coordinated DCHs must all have the same TTI.
ARIB STD-T63-25.402	3.7.0	3.6.0	Synchronisation in UTRAN Stage 2	The uniform notation for time instances was performed. 1)General alignment of notation: Capital letters, 2)Removal of outdated "(FFS)" statement, 3)Correction of typo in 8.3.4.4.2.
ARIB STD-T63-25.423	3.7.0	3.6.0	UTRAN Iur Interface RNSAP Signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.
ARIB STD-T63-25.425	3.5.0	3.4.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	Several editorial corrections and minor corrections.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-25.427	3.8.0	3.7.0	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	It is clarified that the CRCI bit is included also for TBs with TB length equal to zero. Synchronisation in the Iub User Plane for a Radio Link shall only be achieved when all the transport channels established for carrying DL DCH Data Streams are synchronised.
ARIB STD-T63-25.433	3.7.0	3.6.0	UTRAN Iub interface NBAP signalling	This part is many correction, modification and clarification for NBAP procedure text, IE in NBAP messages, ASN.1 and other NBAP signalling.
ARIB STD-T63-25.435	3.8.0	3.7.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Adding the control frame type of DSCH TFCI signalling, clarification for the association of all control frames to the transport bearers/transport channels and the several editorial corrections.
ARIB STD-T63-26.104	3.3.0	3.2.1	AMR speech Codec; Floating point C-Code	Correction to make encoder and decoder memories independent and correction of decoder operation in error concealment of lost frames are added.
ARIB STD-T63-26.131	3.3.0	3.2.0	Terminal Acoustic Characteristics for Telephony; Requirements	ANR tolerance of 3 dB is introduced.
ARIB STD-T63-26.132	3.3.0	3.2.0	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Bandwidth of test signals for acoustic testing is described.
ARIB STD-T63-31.102	3.7.0	3.6.0	Characteristics of the USIM Application	General Corrections
ARIB STD-T63-31.111	3.6.0	3.5.0	USIM Application Toolkit (USAT)	4 Corrections
ARIB STD-T63-33.103	3.7.0	3.6.0	3G Security ; Integration Guidelines	Modification and clarification of security parameters
ARIB STD-T63-33.107	3.3.0	3.2.0	3G Security ; Cryptographic Algorithm requirements	Modification and clarification of lawful interception architecture
ARIB STD-T63-34.108	3.5.0	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	Parameters used in test conditions are revised based on CRs of test specifications.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-34.121	3.6.0	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Test Tolerance information is incorporated, and Test procedures are revised and improved.
ARIB STD-T63-34.123-1	3.5.0	3.4.0	User Equipment (UE) Conformance Specification, Part 1; Conformance specification	Test methods are revised based on CRs of core specifications. All R99 information is incorporated to Rel-4 (V4), and R99(V3) is no more maintained on this document from 2001-12.
ARIB STD-T63-34.123-2	3.5.0	3.4.0	User Equipment (UE) Conformance Specification, Part 2; ICS	All revisions are based on changes of 34.123-1. All R99 information is incorporated to Rel-4 (V4), and R99(V3) is no more maintained on this document from 2001-12.
ARIB STD-T63-35.201	3.1.2	3.1.1	Specification of the 3GPP confidentiality and integrity algorithms; Document 1	IPR and license text are added.
ARIB STD-T63-35.202	3.1.2	3.1.1	Specification of the 3GPP confidentiality and integrity algorithms; Document 2	IPR and license text are added.
ARIB STD-T63-35.203	3.1.2	3.1.1	Specification of the 3GPP confidentiality and integrity algorithms; Document 3	IPR and license text are added.
ARIB STD-T63-35.204	3.1.2	3.1.1	Specification of the 3GPP confidentiality and integrity algorithms; Document 4	IPR and license text are added.

2. Release 4

2.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	summary
ARIB STD-T63-22.053	4.0.1	-	Tandem Free Operation(TFO);Service description;Stage1	Clean-up is made.
ARIB STD-T63-23.053	4.0.0	-	Tandem Free Operation(TFO);Service description;Stage2	Extension of TFO to AMR is described.
ARIB STD-T63-25.307	4.0.0	-	Requirements on UE supporting a release- independent frequency band	Approved at TSG-RAN #13 and placed under Change Control. The present document specifies requirements on UEs supporting a frequency band that is independent of release.
ARIB STD-T63-33.200	4.0.0		Network Domain Security	Modification and clarification of MAP security
ARIB STD-T63-34.108	4.0.0	-	Common Test Environments for User Equipment (UE) Conformance Testing	This is the first version for Rel-4. This contains R99 and Rel-4 information.
ARIB STD-T63-34.123-1	4.0.0	-	UE Conformance Specification, Part 1 – Conformance specification	This is the first version for Rel-4. This contains R99 and Rel-4 information.R99 information is also maintained by this document.
ARIB STD-T63-34.123-2	4.0.0	-	UE Conformance Specification, Part 2 – ICS	This is the first version for Rel-4. This contains R99 and Rel-4 information.R99 information is also maintained by this document.

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-21.102	4.2.0	4.1.0	3rd Generation mobile system Release 4 specifications	Correction to list of specs
ARIB STD-T63-22.076	4.0.1	4.0.0	Noise Suppression for the AMR	Clean-up is made.
ARIB STD-T63-22.101	4.5.0	4.4.1	UMTS Service principles	To clarify that the stage1 requirement for secure OTA updating applies to both the SIM as well as the USIM
ARIB STD-T63-23.038	4.3.0	4.2.0	Alphabets & Language-specific information	Support to UCS2 and editorial corrections
ARIB STD-T63-23.040	4.4.0	4.3.0	Technical realisation of Short Message Service	Removal of EMS PID
ARIB STD-T63-23.042	4.0.1	4.0.0	Compression algorithm for text messaging services	Replacement of erroneous R99 test vector file by correct Rel-4 one
ARIB STD-T63-23.048	4.1.0	4.0.0	Security Mechanisms for SIM Toolkit Application; Stage 2	3 Corrections and Clarifications
ARIB STD-T63-23.057	4.3.1	4.2.0	Mobile Execution Environment (MExE) Functional description Stage 2	Editorial modification
ARIB STD-T63-23.107	4.2.0	4.1.0	Quality of Service, Concept and Architecture	In order for the current handling of the Privacy Override Indicator in this specification to align LCS stage 1 3GPP TS 22.071, the description on "The Privacy Override Indicator" was changed. The Privacy Override Indicator shall be applicable only if the subscriber to be positioned is in the same country as the GMLC, as allowed by regulatory requirements.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-23.140	4.4.0	4.3.0	Multimedia Messaging Service (MMS) Functional description Stage 2	Correction to MMS MM4 interface, delivery report
ARIB STD-T63-25.101	4.2.0	4.1.0	UE Radio transmission and reception (FDD)	Corrections corresponds to those in V.3.8.0 are made.
ARIB STD-T63-25.104	4.2.0	4.1.0	UTRA (BS) FDD; Radio transmission and reception	Correction on RACH measurement definition is made. Other changes corresponds to the corrections in V3.8.0
ARIB STD-T63-25.113	4.2.0	4.1.0	Base station and Repeater electromagnetic compatibility (EMC)	Arrangement for testing repeater is added.
ARIB STD-T63-25.133	4.2.0	4.1.0	Requirements for support of radio resource management (FDD)	Corrections on UE positioning measurement, RACH propagation delay accuracy are made. Rest of the changes are mostly corresponds to corrections in V3.7.0.
ARIB STD-T63-25.141	4.2.0	4.1.0	Base station conformance testing (FDD)	Correction on RACH message and preamble test cases are made. Other changes corresponds to the corrections in V.3.7.0.
ARIB STD-T63-25.211	4.2.0	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The same changes as those in V3.8.0 have been done.
ARIB STD-T63-25.212	4.2.0	4.1.0	Multiplexing and channel coding (FDD)	The same changes as those in V3.7.0 have been done.
ARIB STD-T63-25.214	4.2.0	4.1.0	Physical layer procedures (FDD)	The same changes as those in V3.8.0 have been done. In addition, the definition of primary/non-primary case has been clarified.
ARIB STD-T63-25.215	4.2.0	4.1.0	Physical layer; Measurements (FDD)	The same changes as those in V3.8.0 have been done.
ARIB STD-T63-25.302	4.2.0	4.1.0	Services provided by the physical layer	Corrected definition of the CCTrCH concerning BCH, RACH and CPCH, Transport Format Set Annex Correction, Corrections on un-supported features.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-25.303	4.2.0	4.1.0	Inter-layer Procedures in Connected Mode	SRNS relocation and header compression protocol, Alignment on active set update, Proposed correction to SRNS relocation procedure.
ARIB STD-T63-25.304	4.2.0	4.1.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification to usage of measurement thresholds for HCS, Definition of strongest cell in cell search procedures, Miscellaneous corrections, Correction to cells reserved for operator use, Service type also valid in connected mode, Cell Access Restrictions for emergency calls.
ARIB STD-T63-25.306	4.2.0	4.1.0	UE Radio Access capabilities	Modified UE Capability for CPCH, Maximum number of simultaneous transport channels, Clarification of FDD physical channel parameters, Support of dedicated pilots for channel estimation, Correction of UE capabilities regarding Rx-Tx time difference type 2 measurements.
ARIB STD-T63-25.321	4.2.0	4.1.0	MAC protocol specification	Setting of UE Id in MAC, MAC ASC selection operation when access class is used to determine ASC, Addition of neighbour cell BCH to MAC-b model for the UE, Clarification on TFC selection.
ARIB STD-T63-25.401	4.2.0	4.1.0	UTRAN Overall Description	The power control function description with respect to the TDD mode was updated. It was clearly described that all DCHs in a set of coordinated DCHs must all have the same TTI.
ARIB STD-T63-25.402	4.2.0	4.1.0	Synchronisation in UTRAN Stage 2	The uniform notation for time instances was performed. 1)General alignment of notation: Capital letters, 2)Removal of outdated "(FFS)" statement, 3)Correction of typo in 8.3.4.4.2.
ARIB STD-T63-25.423	4.2.0	4.1.0	UTRAN Iur interface RNSAP signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.20	Version at ARIB STD-T63 Ver.2.10	Title	Change summary
ARIB STD-T63-25.425	4.1.0	4.0.0	UTRAN Iur interface user plane protocols for CCH data streams	Several editorial corrections and minor corrections.
ARIB STD-T63-25.427	4.2.0	4.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Clarifications regarding the detailed transport bearer replacement over Iub/Iur and some editorial errors on the specification.
ARIB STD-T63-25.433	4.2.0	4.1.0	UTRAN Iub interface NBAP signalling	This part is many correction, modification and clarification for NBAP procedure text, IE in NBAP messages, ASN.1 and other NBAP signalling.
ARIB STD-T63-25.435	4.2.0	4.1.0	UTRAN Iub interface user plane protocols for CCH data streams	Adding the control frame type of DSCH TFCI signalling, clarification for the association of all control frames to the transport bearers/transport channels and the several editorial corrections.
ARIB STD-T63-26.104	4.2.0	4.1.0	AMR speech Codec; Floating point C-Code	Correction to make encoder and decoder memories independent and correction of decoder operation in error concealment of lost frames are added.
ARIB STD-T63-26.131	4.1.0	4.0.0	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	ANR tolerance of 3 dB is introduced.
ARIB STD-T63-26.132	4.1.0	4.0.0	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Bandwidth of test signals for acoustic testing is described.
ARIB STD-T63-26.234	4.1.0	4.0.0	End-to-end transparent streaming service; Protocols and codecs	Corrections to Annex A, clarifications to chapter 7 and clarification of the use of XHTML Basic are described.
ARIB STD-T63-27.005	4.1.0	4.0.0	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Conversion of GSM to 3GPP references

	Version at ARIB STD-T63 Ver.2.10	Version at ARIB STD-T63 Ver.2.00	Title	Change summary
ARIB STD-T63-27.010	4.1.0	4.0.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Conversion of GSM to 3GPP references
ARIB STD-T63-28.062	4.1.0	4.0.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Clean-up is made.
ARIB STD-T63-31.102	4.1.0	4.0.0	Characteristics of the USIM Application	Corrections and Clarification
ARIB STD-T63-31.111	4.1.0	4.0.0	USIM Application Toolkit (USAT)	4 Corrections
ARIB STD-T63-33.102	4.2.0	4.1.0	3G Security ; Security Architecture	Modification and clarification of security architecture
ARIB STD-T63-33.103	4.2.0	4.1.0	3G Security ; Security Integration Guidelines	Modification and clarification of security parameters
ARIB STD-T63-33.107	4.2.0	4.1.0	3G Security ;Lawful interception architecture and functions	Modification and clarification of lawful interception architecture

(Annex 8)

3GPP ARIB Change history List of Standards Ver. 2.30

28 March 2002

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-21.101	3.6.0	3.5.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-21.133	3.2.0	3.1.0	Security Threats and Requirements	Definition of UICC (Also some minor editorial cleaning as per 3GPP editing decisions made since version 3.1.0)
ARIB STD-T63-23.040	3.7.0	3.6.0	Technical realisation of Short Message Service	Correction on SMS Information Element Data Length
ARIB STD-T63-23.107	3.7.0	3.6.0	QoS Concept and Architecture	The following changes was included in this version. - Clarification of Bearer Service Attributes Maximum and Guaranteed bitrate. - Deletion of QoS Requirement for Inter-SGSN RA Update. - Clarification of the QoS mapping on the MS.
ARIB STD-T63-23.171	3.6.0	3.5.0	Functional stage 2 description of location services in UMTS	The changes on the following items was included in this version. - "Wrong node name in privacy check procedures" - "Exception procedures in the VMSC"

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.101	3.9.0	3.8.0	UE Radio transmission and reception (FDD)	Essential corrections for averaging method and initial convergence of downlink power control have been made.
ARIB STD-T63-25.104	3.9.0	3.8.0	UTRA (BS) FDD; Radio transmission and reception	Essential corrections for spurious emissions and its emission mask have been made.
ARIB STD-T63-25.133	3.9.0	3.8.0	Requirements for Support of Radio Resource Management (FDD)	Essential corrections on UE Tx timing rate, measurement in CELL_FACH state etc. have been made.
ARIB STD-T63-25.141	3.8.0	3.7.0	Base station conformance testing (FDD)	Essential corrections on test models and spectrum emission mask etc. have been made.
ARIB STD-T63-25.201	3.2.0	3.1.0	Physical layer -General description	The 'slow power control' and the 'ODMA specific procedures' citations have been removed.
ARIB STD-T63-25.211	3.9.0	3.8.0	Physical channels and mapping of transport channels onto physical channels (FDD)	Some aspects of TX diversity have been clarified; TX diversity usage on some channel types, non-simultaneous usage of SSFDT with closed loop modes, and downlink pilot bit patterns for antenna-2. Interaction between DSCH scheduling and phase reference modification has also been clarified.
ARIB STD-T63-25.212	3.8.0	3.7.0	Multiplexing and channel coding (FDD)	Compressed mode has been clarified.
ARIB STD-T63-25.213	3.7.0	3.6.0	Spreading and modulation (FDD)	Section number references have been corrected.
ARIB STD-T63-25.214	3.9.0	3.8.0	Physical layer procedures (FDD)	The followings have been clarified; closed loop mode TX diversity during compressed mode, non-simultaneous usage of SSFDT with closed loop TX diversity, and power control procedures.
ARIB STD-T63-25.215	3.9.0	3.8.0	Physical layer - Measurements (FDD)	Definitions of CPICH Ec/No, UTRA carrier RSSI, and P-CCPCH RSCP have been revised.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.301	3.9.0	3.8.0	Radio Interface Protocol Architecture	Clean up of RLC function, Correction on transport channel numbering, Removal of Tr mode DCCH from R99 only.
ARIB STD-T63-25.302	3.11.0	3.10.0	Services provided by the Physical Layer	Correction of control primitive parameter (CPHY-Out-of-Sync-Config).
ARIB STD-T63-25.303	3.10.0	3.9.0	Interlayer Procedures in Connected Mode	Correction to RNTI in cell-update and URA-update procedures, HFN transfer between network nodes in SRNS relocation, Removal of Tr mode DCCH from R99 only.
ARIB STD-T63-25.304	3.9.0	3.8.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on DRX cycle length in connected mode, Correction to search for available PLMNs.
ARIB STD-T63-25.305	3.7.0	3.6.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction of broadcast of assistance data, Migration of Descriptive Text from TS 25.331.
ARIB STD-T63-25.306	3.4.0	3.3.0	UE Radio Access capabilities definition	Correction on UL parameter "Maximum number of DPDCH bits per 10 ms".
ARIB STD-T63-25.307	3.1.0	3.0.0	Requirements on UEs supporting a Release Independent Frequency Band	Inclusion of release independent RF related information.
ARIB STD-T63-25.321	3.10.0	3.9.0	MAC protocol specification	Cautionary Note for Interfrequency Measurements in Cell-FACH, Correction on Control of RACH Transmissions, Correction on Traffic Volume Control, General correction on Access Service Class selection, TFC selection in compressed mode.
ARIB STD-T63-25.402	3.8.0	3.7.0	Synchronisation in UTRAN Stage 2	The formula for determining the CFN within the UE was corrected and the related specification was clarified.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.420	3.4.0	3.3.0	UTRAN Iur Interface General Aspects and Principles	Reference was corrected. Combining/Splitting function was clarified. "Specification Notations" section was added. Behaviour of the RNC in case of Iur transmission failure was specified.
ARIB STD-T63-25.422	3.6.0	3.5.0	UTRAN Iur Interface Signalling Transport	The publication dates of affected specs regarding ITU-T recommendations and IETF RFCs were updated in 'Reference' section.
ARIB STD-T63-25.423	3.8.0	3.7.0	UTRAN Iur Interface RNSAP Signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.
ARIB STD-T63-25.424	3.7.0	3.6.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	The publication date of affected spec regarding ITU-T recommendation Q.2630.1 was updated in 'Reference' section.
ARIB STD-T63-25.425	3.6.0	3.5.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	The spare extension fields were added in the DSCH/USCH data and control frames. And other clarification and modification were performed.
ARIB STD-T63-25.426	3.7.0	3.6.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	The AAL5 SSCS sublayer was deleted from the IP based protocol stack in Figure 3. And the publication dates of affected specs regarding ITU-T recommendations and IETF RFCs were updated in 'Reference' section.
ARIB STD-T63-25.427	3.9.0	3.8.0	N Iur and Iub Interface User Plane Protocols for DCH Data Streams	Synchronisation procedure and Timing Adjustment procedure were clarified. And many other correction and clarification were performed.
ARIB STD-T63-25.430	3.7.0	3.6.0	UTRAN Iub Interface: General Aspects and Principles	A "Specification Notations" section was added to Section 3. And the publication date of affected spec regarding ITU-T recommendation Q.2630.1 was updated in 'Reference' section.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.433	3.8.0	3.7.0	UTRAN Iub interface NBAP signalling	Many correction, modification and clarification for NBAP procedure text, IE in NBAP messages, ASN.1 and other NBAP signalling.
ARIB STD-T63-25.434	3.6.0	3.5.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	A reference to PCH were added in the text of Sections 5.1, 5.2 and in Figure 1. And the publication dates of affected specs regarding ITU-T recommendations were updated in 'Reference' section.
ARIB STD-T63-25.435	3.9.0	3.8.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	A new subclause regarding a DSCH transport bearer replacement was added. The text describing the transmission of the PCH/PICH data was clarified. And other modifications were performed.
ARIB STD-T63-26.073	3.3.0	3.2.0	ANSI-C code for Adaptive Multi Rate speech Codec	Correction in AMR decoder to avoid division by zero in RX-DTX handling is done.
ARIB STD-T63-26.103	3.1.0	3.0.0	Speech Codec Lists for GSM and UMTS	Inclusion of codec type UMTS AMR2 is done.
ARIB STD-T63-27.007	3.10.0	3.9.0	AT command set for 3G User Equipment (UE)	Correction in the +CGACT command explanation. Different compression algorithms in AT command +CGDCONT and +CGDSCONT.
ARIB STD-T63-31.102	3.8.0	3.7.0	Characteristics of the USIM Application	General Corrections
ARIB STD-T63-31.111	3.7.0	3.6.0	USIM Application Toolkit (USAT)	Miscellaneous corrections (to the bearer independant protocol feature)
ARIB STD-T63-31.122	3.1.0	3.0.0	UICC Test Specification	Corrections and Change test for TLV DO with tag '82' and '83'

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-33.102	3.10.0	3.9.0	3G Security ; Security Architecture	(1) Annex F.2 (changing list parameters) modification, (2) Sequence Number Management Corrections, (3) SQNMS retrieval in AuC during resynchronisation
ARIB STD-T63-33.107	3.4.0	3.3.0	3G Security ; Lawful Interception Architecture and Functions	Correct the MO-SMS and MT-SMS events
ARIB STD-T63-34.108	3.6.0	3.5.0	Common Test Environments for User Equipment (UE) Conformance Testing	Parameters used in test conditions are revised based on CRs of test specifications.
ARIB STD-T63-34.121	3.7.0	3.6.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Missing tests in RRM are developed. Test procedures are maintained (revised and improved).
ARIB STD-T63-35.201	3.2.0	3.1.2	Specification of the 3GPP confidentiality and integrity algorithms; Document 1	Correct the maximum input message length for f8 and f9

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-21.102	4.3.0	4.2.0	3rd Generation mobile system Release 4 specifications	Correction to list of specs
ARIB STD-T63-21.133	4.1.0	4.0.0	Security Threats and Requirements	Definition of UICC (Also some minor editorial cleaning as per 3GPP editing decisions made since version 3.1.0)
ARIB STD-T63-23.038	4.4.0	4.3.0	Alphabets & Language-specific information	Deletion of GSM 01.04 reference
ARIB STD-T63-23.040	4.5.0	4.4.0	Technical realisation of Short Message Service	Correction on SMS Information Element Data Length
ARIB STD-T63-23.041	4.2.0	4.1.0	Technical Realization of Cell Broadcast Service	Clarification on the use of Message IDs in multi-technology networks
ARIB STD-T63-23.048	4.2.0	4.1.0	Security Mechanisms for SIM Toolkit Application; Stage 2	2 clarifications and a correction
ARIB STD-T63-23.057	4.4.0	4.3.1	Mobile Execution Environment (MExE) Functional description Stage 2	Addition reference to 23.227, Removing References to Sun Microsystems, Marking MRPK/ARPK Invalid through Secure Mechanism. Correction of PKCS #15 reference and editorial changes
ARIB STD-T63-23.107	4.3.0	4.2.0	Quality of Service, Concept and Architecture	The following changes was included in this version. - Clarification of the QoS mapping on the MS - Deletion of QoS Requirement for Inter-SGSN RA Update - Clarification of Bearer Service attributes Maximum and Guaranteed Bitrate

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-23.140	4.5.0	4.4.0	Multimedia Messaging Service (MMS) Functional description Stage 2	Correction on MM1 and MM4 abstract messages. Clarification of status codes in MM4_read_reply_report.REQ
ARIB STD-T63-23.227	4.1.0	4.0.0	Application and user interaction in the UE; Principles and specific requirements	Correction in WAP Forum Reference and Text added to Figure A.1
ARIB STD-T63-25.101	4.3.0	4.2.0	UE Radio transmission and reception (FDD)	Corrections which correspond to V.3.9.0 have been made.
ARIB STD-T63-25.104	4.3.0	4.2.0	UTRA (BS) FDD; Radio transmission and reception	Corrections which correspond to V.3.9.0 have been made.
ARIB STD-T63-25.133	4.3.0	4.2.0	Requirements for support of radio resource management (FDD)	Correction on SFN-SFN observed time difference measurement has been made with corresponding corrections in V.3.8.0..
ARIB STD-T63-25.141	4.3.0	4.2.0	Base station conformance testing (FDD)	Corrections which correspond to V.3.8.0 have been made.
ARIB STD-T63-25.201	4.1.0	4.0.0	Physical layer -General Description	The same changes as those in V3.2.0 have been done.
ARIB STD-T63-25.211	4.3.0	4.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	The same changes as those in V3.9.0 have been done.
ARIB STD-T63-25.212	4.3.0	4.2.0	Multiplexing and channel coding (FDD)	The same changes as those in V3.8.0 have been done.
ARIB STD-T63-25.213	4.2.0	4.1.0	Spreading and modulation (FDD)	The same changes as those in V3.7.0 have been done.
ARIB STD-T63-25.214	4.3.0	4.2.0	Physical layer procedures (FDD)	In addition to the same changes as those in V3.9.0, the DSCH related power control procedures have been clarified.
ARIB STD-T63-25.215	4.2.0	4.1.0	Physical layer; Measurements (FDD)	In addition to the same changes as those in V3.9.0, UE GPS code phase measurement has been newly added, and UTRAN SFN-SFN observed time difference measurement has been revised.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.301	4.2.0	4.1.0	Radio Interface Protocol Architecture	Clean up of RLC function, Correction on transport channel numbering.
ARIB STD-T63-25.302	4.3.0	4.2.0	Services provided by the physical layer	Correction of control primitive parameter (CPHY-Out-of-Sync-Config), UTRAN SFN-SFN observed time difference measurement.
ARIB STD-T63-25.303	4.3.0	4.2.0	Interlayer Procedures in Connected Mode	Correction to RNTI in cell-update and URA-update procedures, HFN transfer between network nodes in SRNS relocation.
ARIB STD-T63-25.304	4.3.0	4.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on DRX cycle length in connected mode, Correction to search for available PLMNs.
ARIB STD-T63-25.305	4.2.0	4.1.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction of broadcast of assistance data, Migration of Descriptive Text from TS 25.331, Correction of RTD usage in TDD.
ARIB STD-T63-25.306	4.3.0	4.2.0	UE Radio Access capabilities	Correction on UL parameter "Maximum number of DPDCH bits per 10 ms".
ARIB STD-T63-25.307	4.1.0	4.0.0	Requirements on UE supporting a release-independent frequency band	Inclusion of release independent RF related information.
ARIB STD-T63-25.321	4.3.0	4.2.0	MAC protocol specification	Cautionary Note for Interfrequency Measurements in Cell-FACH, Correction on Control of RACH Transmissions, Correction on Traffic Volume Control, General correction on Access Service Class selection, TFC selection in compressed mode.
ARIB STD-T63-25.402	4.3.0	4.2.0	Synchronisation in UTRAN Stage 2	The chapter TDD Inter Node B Node Synchronisation procedure was clarified. And the formula for determining the CFN within the UE was corrected.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.420	4.1.0	4.0.0	UTRAN lur Interface: General Aspects and Principles	Reference was corrected. Combining/Splitting function was clarified. "Specification Notations" section was added. Behaviour of the RNC in case of lur transmission failure was specified.
ARIB STD-T63-25.422	4.1.0	4.0.0	UTRAN lur interface signalling transport	The publication dates of affected specs regarding ITU-T recommendations and IETF RFCs were updated in 'Reference' section.
ARIB STD-T63-25.423	4.3.0	4.2.0	UTRAN lur interface RNSAP signalling	Many correction, modification and clarification for RNSAP procedure text, IE in RNSAP messages, ASN.1 and other RNSAP signalling.
ARIB STD-T63-25.424	4.1.0	4.0.0	UTRAN lur interface data transport & transport signalling for CCH data streams	The publication date of affected spec regarding ITU-T recommendation Q.2630.1 was updated in 'Reference' section.
ARIB STD-T63-25.425	4.2.0	4.1.0	UTRAN lur interface user plane protocols for CCH data streams	The spare extension fields was added in the DSCH/USCH data and control frames. And other clarification and modification were performed.
ARIB STD-T63-25.426	4.1.0	4.0.0	UTRAN lur and lub interface data transport & transport signalling for DCH data streams	The AAL5 SSCS sublayer was deleted from the IP based protocol stack in Figure 3. And the publication dates of affected specs regarding ITU-T recommendations and IETF RFCs were updated in 'Reference' section.
ARIB STD-T63-25.427	4.3.0	4.2.0	UTRAN lur and lub interface user plane protocols for DCH data streams	Synchronisation procedure and Timing Adjustment procedure were clarified. And many other correction and clarification were performed.
ARIB STD-T63-25.430	4.2.0	4.1.0	UTRAN lub Interface: General Aspects and Principles	A "Specification Notations" section was added to Section 3. And the publication date of affected spec regarding ITU-T recommendation Q.2630.1 was updated in 'Reference' section.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-25.433	4.3.0	4.2.1	UTRAN Iub interface NBAP signalling	Several Rel4 specific modifications were performed. And Many correction, modification and clarification for NBAP were performed like as R99.
ARIB STD-T63-25.434	4.2.0	4.1.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	A reference to PCH were added in the text of Sections 5.1, 5.2 and in Figure 1. And the publication dates of affected specs regarding ITU-T recommendations were updated in 'Reference' section.
ARIB STD-T63-25.435	4.3.0	4.2.0	UTRAN Iub interface user plane protocols for CCH data streams	A new subclause regarding a DSCH transport bearer replacement was added. The text describing the transmission of the PCH/PICH data was clarified. And other modifications were performed
ARIB STD-T63-26.073	4.1.0	4.0.0	AMR speech Codec; C-source code	Correction in AMR decoder to avoid division by zero in RX-DTX handling is done.
ARIB STD-T63-26.103	4.2.0	4.1.0	Codec lists	Removal of AMR-WB codec type is done.
ARIB STD-T63-26.233	4.1.0	4.0.0	End-to-end transparent streaming service; General description	Correction of RTSP TEARDOWN protocol flow in Figure 1 is done.
ARIB STD-T63-26.234	4.2.0	4.1.0	End-to-end transparent streaming service; Protocols and codecs	Amendments to file format support for 26.234 release 4 is done.
ARIB STD-T63-27.007	4.3.0	4.2.0	AT command set for 3G User Equipment (UE)	Obsolete +CGCLOSP, +CGCLPAD and corrections due to IHOSS, OSP and X.25 removal. Clarifications to AT commands used with circuit switched data. Correction in the +CGACT command explanation. Different compression algorithms in AT commands +CGDCONT and +CGDSCONT

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-28.062	4.2.0	4.1.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Corrections are done.
ARIB STD-T63-31.102	4.3.0	4.2.0	Characteristics of the USIM Application	General corrections
ARIB STD-T63-31.110	4.1.0	4.0.0	Numbering system for telecommunication IC card applications	Replacement of contents by a reference to ETSI TS 101 220
ARIB STD-T63-31.111	4.5.0	4.4.0	USIM Application Toolkit (USAT)	Reservation for TIA/EIA/IS-820 facilities and Miscellaneous corrections
ARIB STD-T63-33.102	4.3.0	4.2.0	3G Security ; Security Architecture	(1) Annex F.2 (changing list parameters) modification, (2) Sequence Number Management Corrections, (3) SQNMS retrieval in AuC during resynchronisation
ARIB STD-T63-33.107	4.2.0	4.1.0	3G Security ;Lawful interception architecture and functions	(1) Start of secondary interception of an active PDP context, (2) Correct the MO-SMS and MT-SMS events, (3) Source of PDP context initiation
ARIB STD-T63-33.200	4.2.0	4.1.0	Network Domain Security	(1) MEA encryption algorithm update, (2) Use of 'Original component identifier' during MAPsec processing, (3) Protection Profiles correction, (4) Policy configuration clarification, (5) The Soft Expiry Time for the MAPsec SA, (6) Removing the Sending PLMN-Id from Security Header, (7) Protection Profile Revision Identifier, (8) Completing the specification of a MAPsec SA
ARIB STD-T63-34.108	4.1.0	4.0.0	Common Test Environments for User Equipment (UE) Conformance Testing	Parameters used in test conditions are revised based on CRs of test specifications.
ARIB STD-T63-34.123-1	4.1.0	4.0.0	UE Conformance Specification, Part 1 – Conformance specification	This contains R99 and Rel-4 information. Test procedures are maintained based on CRs of core specifications.

Changed Standard Number	Version at ARIB STD-T63 Ver.2.30	Version at ARIB STD-T63 Ver.2.20	Title	Change summary
ARIB STD-T63-34.123-2	4.1.0	4.0.0	UE Conformance Specification, Part 2 – ICS	This contains R99 and Rel-4 information. Test procedures are maintained based on CRs of core specifications.
ARIB STD-T63-35.201	4.1.0	4.0.0	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Correct the maximum input message length for f8 and f9

(Annex 9)

3GPP ARIB Change history List of Standards Ver. 3.00

30 May 2002

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.00	Version at ARIB STD-T63 Ver.2.30	Title 2. 3 0	Change summary
ARIB STD-T63-21.101	3.7.0	3.6.0	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.071	3.4.0	3.3.0	Location Services (LCS);Service description, Stage 1	Clarified that the LCS client attempting to locate a mobile while roaming must be authorised by the home PLMN of the subscriber
ARIB STD-T63-23.040	3.8.0	3.7.0	Technical realisation of Short Message Service	MO-SMS duplicate message response
ARIB STD-T63-23.107	3.8.0	3.7.0	QoS Concept and Architecture	The following change requests were approved; that is, an additional definition of the QoS attribute delivery order for R99 MS, the correction on the UMTS bearer service attribute and the clarification on the QoS mapping rule for the asymmetric bearers.
ARIB STD-T63-23.171	3.7.0	3.6.0	Functional stage 2 description of location services in UMTS	* Corrections of the list of information exchange between the LCS client and GMLC was made. * The parameter "NA-ESRK" was removed from MT-LR request for North American Emergency Service Call.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-25.101	3.10.0	3.9.0	UE Radio transmission and reception (FDD)	Correction of power terms and definitions, spectral density have been made.
ARIB STD-T63-25.104	3.10.0	3.9.0	UTRA (BS) FDD; Radio transmission and reception	Correction of power terms and definitions, removal of BS performance requirement in SSDT have been made.
ARIB STD-T63-25.133	3.9.0	3.8.0	Requirements for Support of Radio Resource Management (FDD)	Introduction of new requirements or test cases for hand over scenarios, AMR 2 etc. have been made. Some requirements were corrected.
ARIB STD-T63-25.141	3.9.0	3.8.0	Base station conformance testing (FDD)	The corresponding changes in 25.104 have been made as well as introduction or corrections on EVM definition, frequency error test etc..
ARIB STD-T63-25.201	3.3.0	3.2.0	Physical layer -General description	The channel coding option “no coding” has been removed.
ARIB STD-T63-25.211	3.10.0	3.9.0	Physical channels and mapping of transport channels onto physical channels (FDD)	Transmit diversity operation in the same active set has been clarified.
ARIB STD-T63-25.212	3.9.0	3.8.0	Multiplexing and channel coding (FDD)	The channel coding option “no coding” has been removed.
ARIB STD-T63-25.214	3.10.0	3.9.0	Physical layer procedures (FDD)	Qth parameter in SSDT has been removed. TPC procedure in UE when SSDT is activated has been clarified.
ARIB STD-T63-25.215	3.10.0	3.9.0	Physical layer - Measurements (FDD)	UE measurement applicability has been clarified. The channel coding option “no coding” has been removed.
ARIB STD-T63-25.302	3.12.0	3.11.0	Services provided by the Physical Layer	Removal of channel coding option "no coding" for FDD.
ARIB STD-T63-25.303	3.11.0	3.10.0	Interlayer Procedures in Connected Mode	Correction on RRC connection establishment procedure, Alignment of SRNS relocation in CELL_DCH, Corrections on combined Cell/URA update and SRNS relocation.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	
ARIB STD-T63-25.304	3.10.0	3.9.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification of IMSI at Paging channel selection and DRX calculation.
ARIB STD-T63-25.305	3.8.0	3.7.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to CELL ID positioning when UE is not reachable.
ARIB STD-T63-25.306	3.5.0	3.4.0	UE Radio Access capabilities definition	Clarification on ICS version within UE radio access capabilities, Clarification of Maximum number of TFC in the TFCS, Support of UP measurement reporting in CELL_PCH/URA_PCH.
ARIB STD-T63-25.321	3.11.0	3.10.0	MAC protocol specification	Clarification on ciphering, TDD MAC Layer Subchannel Assignment, Missing DTCH channel type in UE-ID Type Indicator, Correction on UE Id for DSCH, UE undefined behaviour when padding is required.
ARIB STD-T63-25.401	3.9.0	3.8.0	UTRAN Overall Description	New UE identifier for MAC-c/sh multiplexing for DSCH
ARIB STD-T63-25.402	3.9.0	3.8.0	Synchronisation in UTRAN Stage 2	Clarification on the DPCH frame offset
ARIB STD-T63-25.420	3.5.0	3.4.0	UTRAN Iur Interface General Aspects and Principles	SCCP Connection Release Initiated by RNC in Abnormal case
ARIB STD-T63-25.422	3.6.1	3.6.0	UTRAN Iur Interface Signalling Transport	Editorial corrections.
ARIB STD-T63-25.423	3.9.0	3.8.0	UTRAN Iur Interface RNSAP Signalling	RNSAP signalling support for flexible split, Setting of Initial power in a new CCTrCH in TDD, Removal of obsolete IMSI from ASN.1, New UE identifier for MAC-c/sh multiplexing for DSCH, Removing of channel coding option "no coding" for FDD, etc.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-25.424	3.8.0	3.7.0	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	Alignment of 25.424 to 25.426 and Correction to transport bearers release initiation
ARIB STD-T63-25.425	3.7.0	3.6.0	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	Transport Bearer replacement for the USCH
ARIB STD-T63-25.426	3.8.0	3.7.0	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	Correction to transport bearers release initiation
ARIB STD-T63-25.433	3.9.0	3.8.0	UTRAN Iub interface NBAP signalling	Incorrect Physical Shared Channel TDD Procedure definition in ASN.1, Removal of criticality information for Transaction ID in the ERROR INDICATION message, Removing of channel coding option "no coding" for FDD, etc.
ARIB STD-T63-25.434	3.7.0	3.6.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	Alignment of 25.434 to 25.426 and Correction to transport bearers release initiation
ARIB STD-T63-25.435	3.10.0	3.9.0	UTRAN Iub Interface User Plane Protocols for Common Transport Channel Data Streams	Transport Bearer replacement for the USCH
ARIB STD-T63-26.101	3.3.0	3.2.0	Mandatory Speech Codec speech processing functions ; AMR speech Codec Frame Structure	Correction of AMR codec output bitstream is done.
ARIB STD-T63-26.104	3.4.0	3.3.0	AMR speech Codec; Floating point C-Code	Maintaining bit-exactness with TS 26.073 is performed.
ARIB STD-T63-26.132	3.4.0	3.3.0	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Correction of references and editorial changes are done.
ARIB STD-T63-27.007	3.11.0	3.10.0	AT command set for 3G User Equipment (UE)	Alignment of UE architecture with 23.101

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-27.010	3.4.0	3.3.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Incorrect explanation of length indicator bit
ARIB STD-T63-31.122	3.2.0	3.1.0	UICC Test Specification	Removal of an invalid transfer protocol test case and Corrections
ARIB STD-T63-33.102	3.11.0	3.10.0	3G Security ; Security Architecture	Removal of Tr mode DCCH
ARIB STD-T63-33.107	3.5.0	3.4.0	3G Security ; Lawful Interception Architecture and Functions	Inter-SGSN RA update with active PDP context
ARIB STD-T63-34.108	3.7.1	3.6.0	Common Test Environments for User Equipment (UE) Conformance Testing	New RABs are incorporated and corrections are made. The reference config and test conditions are updated.
ARIB STD-T63-34.109	3.5.0	3.4.0	Terminal logical test interface; Special conformance testing functions	Clarifications of UE conformance test functions.
ARIB STD-T63-34.121	3.8.0	3.7.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	RRM test procedures are developed and corrections are made for existing test procedures. UMTS 1800/1900 information has been added a release-independent function.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-21.102	4.4.0	4.3.0	3rd Generation mobile system Release 4 specifications	Correction to list of specs
ARIB STD-T63-22.001	4.3.0	4.2.0	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.003	4.3.0	4.2.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.016	4.1.0	4.0.0	International Mobile Equipment Identities (IMEI)	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.030	4.1.0	4.0.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.057	4.1.0	4.0.0	Mobile Execution Environment (MExE) Functional description Stage 2	Inclusion of CRs at SA#15 to create Release 4.1 version.
ARIB STD-T63-22.067	4.1.0	4.0.0	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-22.071	4.4.1	4.3.0	Location Services (LCS); Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. Clarified that the LCS client attempting to locate a mobile while roaming must be authorised by the home PLMN of the subscriber
ARIB STD-T63-22.101	4.6.0	4.5.0	UMTS Service principles	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.105	4.3.0	4.2.0	Services & Service capabilities	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.140	4.2.0	4.1.0	Multimedia Messaging Service; Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-23.040	4.6.0	4.5.0	Technical realisation of Short Message Service	MO-SMS duplicate message response
ARIB STD-T63-23.048	4.3.0	4.2.0	Security Mechanisms for SIM Toolkit Application; Stage 2	Clarifications on Access Domain Parameter
ARIB STD-T63-23.057	4.5.0	4.4.0	Mobile Execution Environment (MExE) Functional description Stage 2	Changing the urls for the CLDC/MIDP references
ARIB STD-T63-23.107	4.4.0	4.3.0	Quality of Service, Concept and Architecture	The following change requests were approved; that is, an additional definition of the QoS attribute delivery order for R99 MS, the correction on the UMTS bearer service attribute and the clarification on the QoS mapping rule for the asymetric bearers.
ARIB STD-T63-23.140	4.6.0	4.5.0	Multimedia Messaging Service (MMS) Functional description Stage 2	Correction on the SMTP-address encoding. Correction on the MIME Content-Type Message format on MM4. Correction of the Forwarding Feature

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-23.227	4.2.0	4.1.0	Application and user interaction in the UE; Principles and specific requirements	Alignment of UE architecture with 23.101.
ARIB STD-T63-25.101	4.4.0	4.3.0	UE Radio transmission and reception (FDD)	The corresponding changes in 25.101(V3.10.0) have been made.
ARIB STD-T63-25.104	4.4.0	4.3.0	UTRA (BS) FDD; Radio transmission and reception	The corresponding changes in 25.104(V3.10.0) have been made.
ARIB STD-T63-25.133	4.4.0	4.3.0	Requirements for support of radio resource management (FDD)	The corresponding changes in 25.133(V3.9.0) have been made.
ARIB STD-T63-25.141	4.4.0	4.3.0	Base station conformance testing (FDD)	The corresponding changes in 25.141(V3.9.0) have been made. Furthermore, fading conditions for RACH test has been introduced.
ARIB STD-T63-25.201	4.2.0	4.2.0	Physical layer -General Description	The channel coding option “no coding” has been removed.
ARIB STD-T63-25.211	4.4.0	4.3.0	Physical channels and mapping of transport channels onto physical channels (FDD)	Transmit diversity operation in the same active set has been clarified.
ARIB STD-T63-25.212	4.4.0	4.3.0	Multiplexing and channel coding (FDD)	The channel coding option “no coding” has been removed.
ARIB STD-T63-25.214	4.4.0	4.3.0	Physical layer procedures (FDD)	Qth parameter in SSdT has been removed. TPC procedure in UE when SSdT is activated has been clarified. In addition, closed loop transmit diversity during soft handover has been clarified..
ARIB STD-T63-25.215	4.4.0	4.3.0	Physical layer; Measurements (FDD)	UE measurement applicability has been clarified. The channel coding option “no coding” has been removed.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-25.302	4.4.0	4.3.0	Services provided by the physical layer	Removal of channel coding option "no coding" for FDD, UE GPS Code Phase Measurement.
ARIB STD-T63-25.303	4.4.0	4.3.0	Interlayer Procedures in Connected Mode	Correction on RRC connection establishment procedure, Alignment of SRNS relocation in CELL_DCH, Corrections on combined Cell/URA update and SRNS relocation.
ARIB STD-T63-25.304	4.4.0	4.3.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to TDD paging message receiving occasion, Clarification of IMSI at Paging channel selection and DRX calculation.
ARIB STD-T63-25.305	4.3.0	4.2.0	Stage 2 Functional Specification of UE Positioning in UTRAN	Corrections Relating to IPDL and Timing Advance for 1.28 Mcps TDD, Correction to CELL ID positioning when UE is not reachable.
ARIB STD-T63-25.306	4.4.0	4.3.0	UE Radio Access capabilities	Clarification on ICS version within UE radio access capabilities, Clarification of Maximum number of TFC in the TFCS, Support of UP measurement reporting in CELL_PCH/URA_PCH.
ARIB STD-T63-25.321	4.4.0	4.3.0	MAC protocol specification	Clarification on ciphering, TDD MAC Layer Subchannel Assignment, Missing DTCH channel type in UE-ID Type Indicator, Correction on UE Id for DSCH, UE undefined behaviour when padding is required.
ARIB STD-T63-25.401	4.3.0	4.2.0		New UE identifier for MAC-c/sh multiplexing for DSCH
ARIB STD-T63-25.402	4.4.0	4.3.0	Synchronisation in UTRAN Stage 2	Clarification on the DPCH frame offset
ARIB STD-T63-25.420	4.2.0	4.1.0	UTRAN Iur Interface: General Aspects and Principles	SCCP Connection Release Initiated by RNC in Abnormal case
ARIB STD-T63-25.422	4.1.1	4.1.0	UTRAN Iur interface signalling transport	Editorial corrections.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-25.423	4.4.0	4.3.0	UTRAN Iur interface RNSAP signalling	Re-ordering of cause values, Modification of the T_utran-gps length, Amendment of the COMMON MEASUREMENT INITIATION REQUEST message, Load Value Extension, Enhanced DSCH and syntax error ASN.1 correction, Introduction of ellipses for IPDL parameters, etc.
ARIB STD-T63-25.424	4.2.0	4.1.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	Alignment of 25.424 to 25.426 and Correction to transport bearers release initiation
ARIB STD-T63-25.425	4.3.0	4.2.0	UTRAN Iur interface user plane protocols for CCH data streams	Transport Bearer replacement for the USCH
ARIB STD-T63-25.426	4.2.0	4.1.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Correction to transport bearers release initiation
ARIB STD-T63-25.433	4.4.0	4.3.0	UTRAN Iub interface NBAP signalling	Modification of the T_utran-gps length, Amendment of the COMMON MEASUREMENT INITIATION REQUEST message, ASN.1 and tabular amendments for LCR TDD, Midamble shift LCR in the PHYSICAL SAHRED SCHANNEL RECONFIGURATION REQUEST [TDD] message, etc.
ARIB STD-T63-25.434	4.3.0	4.2.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	Alignment of 25.434 to 25.426 and Correction to transport bearers release initiation
ARIB STD-T63-25.435	4.4.0	4.3.0	UTRAN Iub interface user plane protocols for CCH data streams	Transport Bearer replacement for the USCH
ARIB STD-T63-26.101	4.2.0	4.1.0	AMR speech Codec; Frame Structure	Correction of AMR codec output bitstream is done.
ARIB STD-T63-26.104	4.3.0	4.2.0	AMR speech Codec; Floating point C-Code	Maintaining bit-exactness with TS 26.073 is carried out.

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-26.132	4.2.0	4.1.0	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Correction of references and editorial changes is done.
ARIB STD-T63-26.233	4.2.0	4.1.0	End-to-end transparent streaming service; General description	Correction of missing use case example: PSS service activation via MMS is carried out.
ARIB STD-T63-26.234	4.3.0	4.2.0	End-to-end transparent streaming service; Protocols and codecs	Specification of missing limit for number of AMR Frames per Sample, Removing of the reference to TS 26.235, Correction to the reference for the XHTML MIME media type, Correction to MPEG-4 references, Correction to the width field of H263 Sample Entry Atom in Section D.6, Correction to the definition of "b=AS", Clarification of the index number's range in the referred MP4 file format, Correction of SDP attribute 'C=', and References to "3GPP AMR-WB codec" replaced by "ITU-T Rec. G.722.2" and "RFC 3267" are carried out.
ARIB STD-T63-27.007	4.4.0	4.3.0	AT command set for 3G User Equipment (UE)	Alignment of UE architecture with 23.101.
ARIB STD-T63-27.010	4.2.0	4.1.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Incorrect explanation of length indicator bit.
ARIB STD-T63-28.062	4.3.0	4.2.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Correction of OM & OD bits mapping in TFO 16k frames, Inclusion of the Non_Speech TFO frames in conditions for TFO_Frame, Corrections in TFO Protocol Tables, and Corrected C-Code for AMR TFO decision rules are done.
ARIB STD-T63-31.102	4.4.0	4.3.0	Characteristics of the USIM Application	Editorial changes to START-HFN and THRESHOLD files and Introduction of MMS files and procedures
ARIB STD-T63-31.111	4.6.0	4.5.0	USIM Application Toolkit (USAT)	Usage of Simple TLV Tag Values
ARIB STD-T63-33.107	4.3.0	4.2.0	3G Security ;Lawful interception architecture and functions	Inter-SGSN RA update with active PDP context

Changed Standard Number	Version at ARIB STD-T63 Ver3.00	Version at ARIB STD-T63 Ver2.30	Title	Change summary
ARIB STD-T63-33.200	4.3.0	4.2.0	Network Domain Security	NIST Special Publication 800-38A updates on MEA-1
ARIB STD-T63-34.108	4.2.1	4.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	New RABs are incorporated and corrections are made. The corresponding changes in TS34.108 (V3.7.0) have been made.
ARIB STD-T63-34.109	4.2.0	4.1.0	Terminal Logical test interface; Special conformance testing function	Clarifications of UE conformance test functions.
ARIB STD-T63-34.123-1	4.2.0	4.1.0	UE Conformance Specification, Part 1 – Conformance specification	Missing tests are developed and corrections are made for existing test procedures due to changes of core specifications.
ARIB STD-T63-34.123-2	4.2.0	4.1.0	UE Conformance Specification, Part 2 – ICS	ICS tables are updated based on changes of TS34.123-1.

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-22.003	5.1.0		Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.038	5.2.0		USIM/SIM Application Toolkit (USAT/SAT);Service description Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.057	5.3.1		Mobile Execution Environment (MExE); Service description; Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-22.071	5.1.1		Location Services (LCS); Stage 1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. Introduction of codeword, requestor, and service type privacy. Clarified that the LCS client attempting to locate a mobile while roaming must be authorised by the home PLMN of the subscriber
ARIB STD-T63-22.101	5.5.0		UMTS Service principles	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. To clarify the functionality of GERAN only terminals with USIM in Release 5 and later and access to IMS service using ISM.
ARIB STD-T63-22.105	5.1.0		Services & Service capabilities	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. End user performance expectation with Packet Streaming Service.

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-22.112	5.0.0		USIM toolkit interpreter; Stage 1	At TSG-T #13, it was agreed that TS 22.112 should be withdrawn from rel-4 and reissued as part of Rel-5. This is a consequence of the decision to have the other specifications necessary for this feature (TSs 31.112, 31.113, 31.114) in Rel-5 rather than Rel-4 as originally planned. The contents of version 4.0.0 and 5.0.0 are technically identical.
ARIB STD-T63-22.140	5.1.0		Service aspects; Stage1Multimedia Messaging Service;	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. Support of recipient pay charging and of both MSISDN and e-mail addressing schemes
ARIB STD-T63-22.141	5.2.0		Presence service; Stage1	Introdction of presence service and Correction to the number of roles ne w requirements for allowing a watcher to define during the watcher-subscription which attributes shall trigger notifications when their values change and allowing to access from external network.
ARIB STD-T63-22.146	5.2.0		Multimedia Broadcast/Multicast Service (MBMS); Stage1	New requirements for Area specific QoS and power consumption minimisation, and MBMS session scenario.
ARIB STD-T63-22.228	5.5.0		Service requirements for the IP multimedia core network subsystem; Stage1	clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein. Introduction of IMS public identities and other related requirements
ARIB STD-T63-22.233	5.0.0		Transparent end-to-end packet-switched streaming service; Stage1	the provision of a streaming service, seen primarily from the user's and service providers' points of view but also includes the service capabilities of the PSS itself
ARIB STD-T63-23.038	5.0.0		Alphabets & Language-specific information	The alphabets, languages and message handling requirements for SMS, CBS and USSD .

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-23.040	5.3.0		Technical realisation of Short Message Service(SMS)	The Short Message Service (SMS) for GSM/ UMTS networks.
ARIB STD-T63-23.048	5.3.0		Security Mechanisms for (U)SIM Toolkit Application; Stage 2	Define link between Open Platform Security Domain and 23.048 secure messaging and Clarifications on Access Domain Parameter
ARIB STD-T63-23.057	5.0.0		Mobile Execution Environment (MExE) Functional description Stage 2	The stage 2 and 3 description of the Mobile Station Application Execution Environment (MExE).
ARIB STD-T63-23.107	5.4.0		Quality of Service, Concept and Architecture	This document provides the framework of Quality of Service within UMTS. The main purpose is to specify the list of attributes applicable to UMTS Bearer Service and Radio Access Bearer Service, as well as the description of QoS architecture to be used in UMTS.
ARIB STD-T63-23.140	5.2.0		Multimedia Messaging Service (MMS) Functional description Stage 2	The stage 2 and stage 3 description of the non- realtime Multimedia Messaging Service, MMS.
ARIB STD-T63-23.207	5.3.0		IP Multimedia Subsystem(IMS); Stage 2	This document provides the framework of End-to-End Quality of Service involving GPRS and complements TS23.107 that describe the framework of Quality of Service within UMTS.
ARIB STD-T63-23.227	5.1.0		Application and user interaction in the UE; Principles and specific requirements	The principles for scheduling resources between applications indifferent application execution environment
ARIB STD-T63-23.228	5.4.0		IP Multimedia Subsystem(IMS); Stage 2	This document defines the stage-2 service description for the IP Multimedia Core Network Subsystem (IMS), which includes the elements necessary to support IP Multimedia (IM) services in UMTS.

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-23.236	5.2.0		Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	This document covers the details for the Intra Domain Connection of RAN Nodes to Multiple CN Nodes for GSM and UMTS systems. In particular, it details the impacts to GSM and UMTS systems and the stage 2 procedures for the support of connecting a RNC or BSC to multiple MSC servers or SGSNs.
ARIB STD-T63-25.101	5.2.0		UE Radio transmission and reception (FDD)	It was created from V4.1.0 as V5.0.0. Since then, correction on TFC description etc have been made as well as the corresponding changes in 25.101(V4.2.0 - V4.4.0).
ARIB STD-T63-25.104	5.2.0		UTRA (BS) FDD; Radio transmission and reception	It was created from V4.1.0 as V5.0.0. Since then, regional requirement on HSDPA(adding note), correction on spectrum emission mask etc have been made as well as the corresponding changes in 25.104(V4.2.0 - V4.4.0).
ARIB STD-T63-25.113	5.0.0		Base station and Repeater electromagnetic compatibility (EMC)	Created from 25.113(V4.2.0), with no changes.
ARIB STD-T63-25.133	5.2.0		Requirements for support of radio resource management (FDD)	It was created from V4.1.0 as V5.0.0. Since then, active set size limit on dedicated pilot, correction on UTRA measurements etc have been made with the corresponding changes in 25.133(V4.2.0 - V4.4.0).
ARIB STD-T63-25.141	5.2.0		Requirements for support of radio resource management (FDD)	It was created from V4.1.0 as V5.0.0. Since then, the corresponding changes in 25.141(V4.2.0 - V4.4.0) and 25.104(V5.1.0, 5.2.0) have been made.
ARIB STD-T63-25.201	5.0.0		Physical layer -General Description	HSDPA functionality and performance have been introduced.
ARIB STD-T63-25.211	5.0.0		Physical channels and mapping of transport channels onto physical channels (FDD)	HSDPA functionality and performance have been introduced (New sections have been added to define HS-PDSCH, HS-DSCH, and HS-DPCCH).

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-25.212	5.0.0		Multiplexing and channel coding (FDD)	HDSPA functionality and performance have been introduced (Channel coding and multiplexing chain for HS-DSCH have been added). The TFCI coding scheme for the flexible hard split mode has been included..
ARIB STD-T63-25.213	5.0.0		Spreading and modulation (FDD)	HDSPA functionality and performance have been introduced.
ARIB STD-T63-25.214	5.0.0		Physical layer procedures (FDD)	HDSPA functionality and performance have been introduced. The TFCI power control scheme for the flexible hard split mode has also introduced. Qth parameter in SSDT has been defined
ARIB STD-T63-25.215	5.0.0		Physical layer; Measurements (FDD)	This version is the same as Ver.4.4.0.
ARIB STD-T63-25.301	5.0.0		Radio Interface Protocol Architecture	The present document shall provide an overview and overall description of the UE-UTRAN radio interface protocol architecture as agreed within the 3GPP TSG RAN working group 2.
ARIB STD-T63-25.302	5.0.0		Services provided by the physical layer	The present document is a technical specification of the services provided by the physical layer of UTRA to upper layers.
ARIB STD-T63-25.303	5.0.0		Inter-layer Procedures in Connected Mode	The present document describes all procedures that assign, reconfigure and release radio resources.
ARIB STD-T63-25.304	5.0.0		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	The present document specifies the Access Stratum (AS) part of the Idle Mode procedures applicable to a UE..
ARIB STD-T63-25.305	5.4.0		Stage 2 Functional Specification of UE Positioning in UTRAN	The present document specifies the stage 2 of the UE Positioning function of UTRAN, which provides the mechanisms to support the calculation of the geographical position of a UE..

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-25.306	5.0.0		UE Radio Access capabilities	The present document identifies the parameters of the access stratum part of the UE radio access capabilities. Furthermore, some reference configurations of these values are defined.
ARIB STD-T63-25.321	5.0.0		MAC protocol specification	The present document specifies the MAC protocol.
ARIB STD-T63-25.401	5.2.0		UTRAN Overall Description	the overall architecture of the UTRAN, including internal interfaces and assumptions on the radio and lu interfaces
ARIB STD-T63-25.402	5.0.0		Synchronisation in UTRAN Stage 2	the stage 2 specification of different synchronisation mechanisms in UTRAN and on Uu
ARIB STD-T63-25.420	5.0.0		UTRAN lur Interface: General Aspects and Principles	an introduction to the TSG RAN TS 25.42x series of UMTS Technical Specifications that define the lur Interface
ARIB STD-T63-25.421	5.0.0		UTRAN lur interface Layer 1	the standards allowed to implement Layer 1 on the lur interface
ARIB STD-T63-25.422	5.0.0		UTRAN lur interface signalling transport	the standards for Signalling Transport to be used across lur Interface
ARIB STD-T63-25.423	5.0.0		UTRAN lur interface RNSAP signalling	the radio network layer signalling procedures of the control plane between RNCs in UTRAN
ARIB STD-T63-25.424	5.0.0		UTRAN lur interface data transport & transport signalling for CCH data streams	a specification of the UTRAN RNC-RNC (lur) interface Data Transport and Transport Signalling for Common Transport Channel data streams
ARIB STD-T63-25.425	5.0.0		UTRAN lur interface user plane protocols for CCH data streams	a description of the UTRAN RNS-RNS (lur) interface user plane protocols for Common Transport Channel data streams
ARIB STD-T63-25.426	5.0.0		UTRAN lur and lub interface data transport & transport signalling for DCH data streams	the transport bearers for the DCH data streams on UTRAN lur and lub interfaces and the corresponding Transport Network Control plane

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-25.427	5.0.0		UTRAN Iur and Iub interface user plane protocols for DCH data streams	a description of the UTRAN Iur and Iub interfaces user plane protocols for Dedicated Transport Channel data streams
ARIB STD-T63-25.430	5.0.0		UTRAN Iub Interface: General Aspects and Principles	an introduction to the TSG RAN TS 25.43x series of UMTS Technical Specifications that define the Iub Interface
ARIB STD-T63-25.431	5.0.0		UTRAN Iub interface Layer 1	the standards allowed to implement Layer 1 on the Iub interface.
ARIB STD-T63-25.432	5.0.1		UTRAN Iub interface signalling transport	the signalling transport related to NBAP signalling to be used across the Iub Interface
ARIB STD-T63-25.433	5.0.0		UTRAN Iub interface NBAP signalling	the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface
ARIB STD-T63-25.434	5.0.0		UTRAN Iub interface data transport & transport signalling for CCH data streams	a specification of the UTRAN RNC-Node B (Iub) interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.435	5.0.0		UTRAN Iub interface user plane protocols for CCH data streams	a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams
ARIB STD-T63-25.442	5.0.0		UTRAN Implementation Specific O&M Transport	the transport of implementation specific O&M signalling between Node B and the Management Platform in case that the transport is routed via the RNC
ARIB STD-T63-25.450	5.1.0		UTRAN Iupc interface general aspects and principles	an introduction to the TSG RAN TS 25.45z series of UMTS Technical Specifications that define the Iupc Interface
ARIB STD-T63-25.451	5.0.0		UTRAN Iupc interface layer1	the standards allowed to implement Layer 1 on the Iupc interface.
ARIB STD-T63-25.452	5.0.0		UTRAN Iupc interface signalling transport	the signalling transport related to PCAP signalling to be used across the Iupc interface

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-25.453	5.0.0		UTRAN Iurc interface Positioning Calculation Application Part (PCAP) signalling	the Positioning Calculation Application Part (PCAP) between the Radio Network Controller (RNC) and the Stand-alone A-GPS SMLC (SAS)
ARIB STD-T63-26.103	5.1.0		Codec lists	Introduction of GERAN-8PSK Codec Types into Codec List, and Introduction of codepoint for Dummy Codec for CS Multi Media (3G 324M) are done.
ARIB STD-T63-26.131	5.1.0		Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	Introduction of ANR tolerance of 3 dB is done.
ARIB STD-T63-26.132	5.2.0		Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Correction of references and editorial changes are done.
ARIB STD-T63-26.140	5.0.0		Multimedia Messaging Service (MMS);Media formats and codes	This document specifies the media types, formats and codecs for the MMS within the 3GPP system.
ARIB STD-T63-26.171	5.0.0		AMR speech Codec; wideband; General description	This document is an introduction to the speech processing parts of the wideband telephony speech service employing the Adaptive Multi-Rate Wideband (AMR-WB) speech coder.
ARIB STD-T63-26.173	5.4.0		ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction of mode reading and memory usage, Correction of pitch calculation of AMR-WB encoder, and Error concealment of high band gain in 23.85 kbit/s mode are done.
ARIB STD-T63-26.174	5.3.0		AMR speech codec, wideband; Test sequences	Update of AMR-WB test sequences" (Rel 5)
ARIB STD-T63-26.190	5.1.0		Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	Inconsistency between TS 26.190 and TS 26.173 is corrected.
ARIB STD-T63-26.191	5.1.0		AMR speech codec ,wideband; Error concealment of lost frames	Error concealment of high band gain in 23.85 kbit/s mode is done.

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-26.192	5.0.0		Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Comfort noise aspects	This document gives the detailed requirements for the correct operation of the background acoustic noise evaluation, noise parameter encoding/decoding and comfort noise generation for the AMR Wideband (AMR-WB) speech codec during Source Controlled Rate (SCR) operation.
ARIB STD-T63-26.193	5.0.0		AMR speech codec , wideband; Source Controlled Rate operation	This document describes the Source Controlled Rate (SCR) operation of the Adaptive Multi-Rate Wideband speech Codec.
ARIB STD-T63-26.194	5.0.0		Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)	This document specifies the Voice Activity Detector (VAD) to be used in the Discontinuous Transmission (DTX) .
ARIB STD-T63-26.201	5.0.0		AMR speech codec , wideband; Frame structure	The present document describes a generic frame format for the Adaptive Multi-Rate Wideband (AMR-WB) speech codec
ARIB STD-T63-26.202	5.0.0		AMR speech codec ,wideband; Interface to lu and Uu	The present document specifies the mapping of the AMR wideband generic frame format (3GPP TS 26.201) to the lu Interface (3GPP TS 25.415), the Uu Interface and the Nb Interface (3GPP TS 29.415).
ARIB STD-T63-26.204	5.0.0		ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) wideband speech codec	This document contains an electronic copy of the ANSI-C code for the Floating-point Adaptive Multi-Rate Wideband codec.
ARIB STD-T63-26.226	5.0.0		Global text telephony; Transport of text in the voice channel	This Technical Specification (TS) concerns the Cellular Text Telephone Modem (CTM).
ARIB STD-T63-26.230	5.0.1		Global text telephony; Cellular text telephone modem transmitter C-code description	Correct source code CTM attached.
ARIB STD-T63-26.231	5.2.0		Global text telephony; Cellular text telephone modem minimum performance requirements	To remove the CTM tandeming requirement for handsets in the Minimum Performance Requirements is requested.
ARIB STD-T63-26.233	5.0.0		End-to-end transparent streaming service; General description	Consolidated addition of Release 5 PSS-E features to TS 26.233 Rel-4 is done.

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-26.234	5.0.0		End-to-end transparent streaming service; Protocols and codecs	Addition of Release 5 functionality is done.
ARIB STD-T63-26.235	5.1.0		Packet switched conversational multimedia application; Default codecs	AMR & AMR-WB RTP payload format is updated, and references to obsolete SIP RFC 2543 IETF is corrected.
ARIB STD-T63-26.236	5.0.0		Packet switched conversational multimedia application; Transport protocols	New specification. Required protocol usage within 3GPP specified Conversational Packet Switched Multimedia Services which is based IP Multimedia Subsystem (IM Subsystem) is approved in SA#15.
ARIB STD-T63-27.007	5.1.0		AT command set for 3G User Equipment (UE)	A profile of AT commands, and recommendation for controlling of Mobile Equipment (ME) functions and GSM/ UMTS network services from a Terminal Equipment (TE) through Terminal Adaptor (TA).
ARIB STD-T63-28.062	5.0.0		Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Modification of TFO_Messages for AMR-WB introduction is done, Generic Configuration Frames is introduced into TS 28.062, Annex H, AMR-WB codec types and codec type OHR_AMR (AMR-NB on 8PSK-HR channel) is included into TFO, and AMR-WB codec types and codec type OHR_AMR is included into reference implementation C-Code of AMR TFO decision rules.
ARIB STD-T63-31.102	5.0.0		Characteristics of the USIM Application	Added 2 items as R5 based on 4.4.0
ARIB STD-T63-31.111	5.0.0		USIM Application Toolkit (USAT)	Added 2 items as R5 based on 4.6.0
ARIB STD-T63-31.112	5.1.0		USAT Interpreter Architecture Description; Stage 2	Correction of TAR value usage
ARIB STD-T63-31.113	5.2.0		USAT interpreter byte codes	Added 8 CRs to 5.0.0
ARIB STD-T63-31.114	5.0.0		USAT interpreter protocol and administration	the transmission protocol to be used to communicate with the USAT Interpreter and the administrative structures and procedures to administer the USAT Interpreter.

Added Standard Number	Version at ARIB STD-T63 Ver3.00		Title	New Documents Summary
ARIB STD-T63-33.106	5.0.0		Lawful interception requirements	Release 5 updates
ARIB STD-T63-33.107	5.2.0		3G security; Lawful interception architecture and functions	(1)PDP context Deactivation cause, (2)The use of H.248 in setting up a bearer intercept point at the MGW, (3)Inter-SGSN RA update with active PDP context, (4)Addition of PDP context modification Event and Transferring the QoS information element across the X2 interface
ARIB STD-T63-33.200	5.0.0		Network Domain Security	(1)NIST Special Publication 800-38A updates on MEA-1, (2)Automatic Key Management
ARIB STD-T63-33.203	5.1.0		3G security; Access security for IP-based services	(1) Correction of references to obsolete SIP RFC 2543bis IETF internet draft, (2)Removal of reference to non Operator IMS provision
ARIB STD-T63-33.210	5.0.0		3G security; Network Domain Security (NDS); IP network layer security	Approved at TSG SA#15 and placed under change control
ARIB STD-T63-34.109	5.0.0		Terminal logical test interface; Special conformance testing functions	The present document specifies for User Equipment (UE), in UMTS system, for FDD and TDD modes, those UE functions that are required for conformance testing purposes.
ARIB STD-T63-34.124	5.0.0		Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Created from 34.124(V4.0.0), with no changes.

3.2. Revised Standards

None

(Annex 10)

3GPP ARIB Change history List of Standards Ver. 3.10

26 September 2002

1. Release 99

1.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG	Title	Summary
ARIB STD-T63-22.032	3.0.0		S3	Immediate Service Termination(IST); Stage1	Decision to transfer IST to 3GPP system specification set
ARIB STD-T63-23.035	3.0.0		S3	Immediate Service Termination(IST); Stage2	Decision to transfer IST to 3GPP system specification set. References corrected to 3GPP specification references.

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.8.0	3.7.0	S	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.016	3.3.0	3.2.0	S1	International Mobile Equipment Identities (IMEI)	The TAC code is renamed "Type Allocation Code" since in many regions the allocation of the TAC is not now tied to type approval
ARIB STD-T63-22.022	3.2.1	3.2.0	S3	Personalization of GSM Mobile Equipment (ME) Mobile Functionality Specification – Stage 1	Editorial correcyion of change history

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	3.9.0	3.8.0	T2	Technical realisation of Short Message Service	Clarification of the requirement for type 0 Short Messages
ARIB STD-T63-23.041	3.5.0	3.4.0	T2	Technical Realization of Cell Broadcast Service (SCB)	Update of references
ARIB STD-T63-23.140	3.1.0	3.0.1	T2	Multimedia Messaging Service Stage 2	Encapsulation of a short message (SMS) in a multimedia message (MMS)
ARIB STD-T63-23.171	3.8.0	3.7.0	S2	Functional stage 2 description of location services in UMTS	The GMLC address was defined as a GMLC address stored in the 3G-VMSC. Then, the clarification of CS-MO-LR procedures was completed. Also the "Note" was deleted.
ARIB STD-T63-25.101	3.11.0	3.10.0	R4	UE Radio transmission and reception (FDD)	Requirements for Control and monitoring functions of UE, Compressed mode performance etc have been introduced.
ARIB STD-T63-25.133	3.10.0	3.9.0	R4	Requirements for Support of Radio Resource Management (FDD)	Corrections to UTRAN carrier RSSI measurement accuracy requirement, cell reselection test cases etc have been made.
ARIB STD-T63-25.141	3.10.0	3.9.0	R4	Base station conformance testing (FDD)	Corrections of power control dynamic range Test Tolerance and Total power dynamic range test have been made.
ARIB STD-T63-25.201	3.4.0	3.3.0	R1	Physical layer -General description	Figures 2 and 3 which show the relationship of the physical layer functions by specification are corrected.
ARIB STD-T63-25.211	3.11.0	3.10.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	For all channels, except AICH-type channels, the output format from 25.211 is specified as 0, 1 and "DTX". STTD description, CPICH, PICH and CSICH definitions are updated accordingly. TFCI is included in STTD encoding with SCCPCH.
ARIB STD-T63-25.212	3.10.0	3.9.0	R1	Multiplexing and channel coding (FDD)	It is clarified that DTX indicators are not removed by the PhCH mapping.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG	Title	Change Summary
					PhCH mapping.
ARIB STD-T63-25.213	3.8.0	3.7.0	R1	Spreading and modulation (FDD)	The mapping of real-valued signals and 3-valued digits to a real-valued signal at the input of spreading is specified. Title of figure 9 is corrected.
ARIB STD-T63-25.301	3.10.0	3.9.0	R2	Radio Interface Protocol Architecture	Introduction of DSCH-RNTI.
ARIB STD-T63-25.302	3.13.0	3.12.0	R2	Services provided by the Physical Layer	Correction to inconsistency between 25.302 and RRM Specifications (25.123/25.133).
ARIB STD-T63-25.303	3.12.0	3.11.0	R2	Interlayer procedures in Connected Mode	Clarification on lossless SRNS Relocation.
ARIB STD-T63-25.304	3.11.0	3.10.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Limitations of CBS reception.
ARIB STD-T63-25.306	3.6.0	3.5.0	R2	UE Radio Access capabilities	Security Capabilities.
ARIB STD-T63-25.321	3.12.0	3.11.0	R2	MAC protocol specification	Update References to include 25.123 (TDD), TFCS selection guideline correction.
ARIB STD-T63-25.401	3.10.0	3.9.0	R3	UTRAN Overall Description	New UE identifier for Shared Channel handling for TDD DSCH/USCH was included.
ARIB STD-T63-25.402	3.10.0	3.9.0	R3	Synchronisation in UTRAN Stage 2	Reference section was corrected.
ARIB STD-T63-25.423	3.10.0	3.9.0	R3	UTRAN Iur Interface RNSAP Signalling	Alignment of tabular and ASN.1 coding, including New UE identifier for Shared Channel for TDD and other clarifications and corrections were performed.
ARIB STD-T63-25.424	3.9.0	3.8.0	R3	UTRAN Iur Interface Data Transport & Transport Signalling for Common Transport Channel Data Streams	Aesa formats were corrected.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.426	3.9.0	3.8.0	R3	UTRAN Iur and Iub Interface Data Transport & Transport Signalling for DCH Data Streams	Aesa formats were corrected.
ARIB STD-T63-25.430	3.8.0	3.7.0	R3	UTRAN Iub Interface: General Aspects and Principles	Definition of TFCI2 signalling bearer was included.
ARIB STD-T63-25.433	3.10.0	3.9.0	R3	UTRAN Iub interface NBAP signalling	Alignment to ASN.1 by reviewing totally and other corrections were performed.
ARIB STD-T63-25.434	3.8.0	3.7.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Aesa formats were corrected.
ARIB STD-T63-26.103	3.2.0	3.1.0	S4	Speech Codec Lists for GSM and UMTS	UMTS_AMR2 is added to be default Codec Type in R99 dual_mode terminals.
ARIB STD-T63-27.005	3.2.0	3.1.0	T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Three interface protocols for control of SMS functions within a GSM/UMTS mobile telephone from a remote terminal via an asynchronous interface.
ARIB STD-T63-31.102	3.9.0	3.8.0	T3	Characteristics of the USIM Application	CMI-Alignment with TS 11.11 R99
ARIB STD-T63-31.111	3.8.0	3.7.0	T3	USIM Application Toolkit (USAT)	Correction to OPEN CHANNEL for GPRS Correction of PDP context description in Channel Status TLV
ARIB STD-T63-31.121	3.2.0	3.1.0	T3	Terminal tests for the UICC Interface; Part2	Correction of tests using EF (USIM Service Table)
ARIB STD-T63-31.122	3.3.0	3.2.0	T3	UICC Test Specification	General Corrections Removal of test for use of procedure byte '61xx' for case 2 commands

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.102	3.12.0	3.11.0	S3	3G Security ; Security Architecture	(1) Optional use of Access Link Data Confidentiality (2) Encryption/Integrity algorithms ordered by preference in Security Mode command (3) Correction of (U)SIM toolkit security reference
ARIB STD-T63-34.108	3.8.0	3.7.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	New RABs are incorporated and corrections are made. The reference configurations and test conditions are updated.
ARIB STD-T63-34.109	3.6.0	3.5.0	R2	Terminal logical test interface; Special conformance testing functions	Correction to UE test loop mode 2, Clarification of test loop performance requirements.
ARIB STD-T63-34.121	3.9.0	3.8.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	RRM test procedures are newly developed and corrections are made for existing test procedures.

2. Release 4

2.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG)	Title	Summary
ARIB STD-T63-22.032	4.0.0		S3	Immediate Service Termination (IST); Service description; Stage1	Decision to transfer IST to 3GPP system specification set
ARIB STD-T63-23.035	4.0.0		S3	Immediate Service Termination (IST); Service description; Stage2	Decision to transfer IST to 3GPP system specification set. References corrected to 3GPP specification references.

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-21.102	4.5.0	4.4.0	SA	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs
ARIB STD-T63-22.016	4.2.0	4.1.0	S1	International Mobile Equipment Identities (IMEI)	The TAC code is renamed "Type Allocation Code" since in many regions the allocation of the TAC is not now tied to type approval
ARIB STD-T63-22.022	4.1.0	4.0.0	S3	Personalisation of GSM ME Mobile functionality specification ; Stage 1	IMEI format for de-personalisation over the air
ARIB STD-T63-22.034	4.1.0	4.0.0	S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Clean-up of its specifications to correct the references to all TSs and has normalised the terms used therein.
ARIB STD-T63-23.040	4.7.0	4.6.0	T2	Technical realisation of Short Message Service description; Stage2	Clarification of the requirement for type 0 Short Messages

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-23.041	4.3.0	4.2.0	T2	Technical Realization of Cell Broadcast Service	Update of references
ARIB STD-T63-23.140	4.7.0	4.6.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Encapsulation of a short message (SMS) in a multimedia message (MMS)
ARIB STD-T63-25.101	4.5.0	4.4.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in Release 99 spec (V3.11.0) have been made.
ARIB STD-T63-25.104	4.5.0	4.4.0	R4	UTRA (BS) FDD; Radio transmission and reception	Reference measurement channels for UL RACH, Ratio of preamble power and total message power have been introduced. Corrections of RACH preamble detection requirement have been made.
ARIB STD-T63-25.133	4.5.0	4.4.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in Release 99 spec (V3.10.0) have been made.
ARIB STD-T63-25.141	4.5.0	4.4.0	R4	Base station conformance testing (FDD)	Corresponding changes in Release 99 spec (TS25.141, V3.10.0) and in core specs (TS25.104, V4.5.0) have been made. Test system uncertainties and test tolerances for RACH tests have been added as well.
ARIB STD-T63-25.201	4.3.0	4.2.0	R1	Physical layer -General Description	The same corrections have been done as done on 25.201 Ver.3.4.0.
ARIB STD-T63-25.211	4.5.0	4.4.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The same corrections have been done as done on 25.211 Ver.3.11.0.
ARIB STD-T63-25.212	4.5.0	4.4.0	R1	Multiplexing and channel coding (FDD)	The same corrections have been done as done on 25.212 Ver.3.10.0.
ARIB STD-T63-25.213	4.3.0	4.2.0	R1	Spreading and modulation (FDD)	The same corrections have been done as done on 25.213 Ver.3.8.0.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP (WG)	Title	Change Summary
ARIB STD-T63-25.301	4.3.0	4.2.0	R2	Radio Interface Protocol Architecture	Introduction of DSCH-RNTI.
ARIB STD-T63-25.302	4.5.0	4.4.0	R2	Services provided by the physical layer	Correction to inconsistency between 25.302 and RRM Specifications (25.123/25.133).
ARIB STD-T63-25.303	4.5.0	4.4.0	R2	Interlayer procedures in Connected Mode	Clarification on lossless SRNS Relocation.
ARIB STD-T63-25.304	4.5.0	4.4.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Limitations of CBS reception.
ARIB STD-T63-25.306	4.5.0	4.4.0	R2	UE Radio Access capabilities definition	Security Capabilities.
ARIB STD-T63-25.321	4.5.0	4.4.0	R2	MAC protocol specification	Update References to include 25.123 (TDD), TFCS selection guideline correction.
ARIB STD-T63-25.401	4.4.0	4.3.0	R3	UTRAN Overall Description	New UE identifier for Shared Channel handling for TDD DSCH/USCH was included.
ARIB STD-T63-25.402	4.5.0	4.4.0	R3	Synchronisation in UTRAN Stage 2	Reference section was corrected.
ARIB STD-T63-25.423	4.5.0	4.4.0	R3	UTRAN Iur interface RNSAP signalling	Alignment of tabular and ASN.1 coding, including New UE identifier for Shared Channel for TDD and other clarifications and corrections were performed.
ARIB STD-T63-25.424	4.5.0	4.4.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Aesa formats were corrected.
ARIB STD-T63-25.426	4.3.0	4.2.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Aesa formats were corrected.
ARIB STD-T63-25.430	4.3.0	4.2.0	R3	UTRAN Iub Interface: General Aspects and Principles	Definition of TFCI2 signalling bearer was included.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP (WG)	Title	Change Summary
ARIB STD-T63-25.433	4.5.0	4.4.0	R3	UTRAN Iub interface NBAP signalling	Alignment to ASN.1 by reviewing totally and other corrections were performed.
ARIB STD-T63-25.434	4.4.0	4.3.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	AESA formats were corrected.
ARIB STD-T63-26.103	4.3.0	4.2.0	S4	Codec lists	UMTS_AMR2 is added to be default Codec Type in all terminals of REL-4 and onwards.
ARIB STD-T63-26.234	4.4.0	4.3.0	S4	End-to-end transparent streaming service; Protocols and codecs	MIME media type is updated. Corrections Based on Interoperability Issues are carried out.
ARIB STD-T63-27.005	4.2.0	4.1.0	T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Three interface protocols for control of SMS functions within a GSM/UMTS mobile telephone from a remote terminal via an asynchronous interface.
ARIB STD-T63-28.062	4.4.0	4.3.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Clarify Extendibility of TFO_Messages is done. Corrections to Clause 9 and 10 are carried out.
ARIB STD-T63-31.102	4.5.0	4.4.0	T3	Characteristics of the USIM Application	Essential clarifications and corrections Handling of different sets of connectivity parameters and automatic bearer selection CMI - Alignment with TS 51.011 REL-4
ARIB STD-T63-31.111	4.7.0	4.6.0	T3	USIM Application Toolkit (USAT)	Miscellaneous corrections Correction to OPEN CHANNEL for GPRS
ARIB STD-T63-31.121	4.1.0	4.0.0	T3	UICC-terminal interface; USIM application test specification	Correction of tests using EF (USIM Service Table)

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-33.102	4.4.0	4.3.0	S3	3G Security Architecture	(1) Optional use of Access Link Data Confidentiality (2) Encryption/Integrity algorithms ordered by preference in Security Mode command (3) Correction of (U)SIM toolkit security reference
ARIB STD-T63-34.108	4.3.0	4.2.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	New RABs are incorporated and corrections are made. The corresponding changes in TS34.108 (V3.8.0) are also made.
ARIB STD-T63-34.109	4.3.0	4.2.0	R2	Terminal logical test interface; Special conformance testing functions	Correction to UE test loop mode 2, Clarification of test loop performance requirements.
ARIB STD-T63-34.123-1	4.3.0	4.2.0	T1	UE Conformance Specification, Part 1 – Conformance specification	Corrections are made to be consistent with core specifications (2002-03).
ARIB STD-T63-34.123-2	4.3.0	4.2.0	T1	UE Conformance Specification, Part 2 – ICS	ICS tables are updated based on changes of TS34.123-1 (4.3.0)

3. Release 5

3.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG)	Title	Summary
ARIB STD-T63-21.103	5.0.0		SA	3rd Generation mobile system Release 5 specifications	approved
ARIB STD-T63-21.111	5.0.0		T3	USIM and IC card requirements	Issued as version 5.0.0 in order to create a complete set of specifications for release 5. The contents of version 5.0.0 are identical to the contents of version 4.0.0
ARIB STD-T63-22.002	5.0.0		S1	Circuit Bearer Services Supported by a PLMN	Service requirements (restrictions) introduced for GERAN lu mode. Appearance of all tables has been harmonized in order to improve readability.
ARIB STD-T63-22.032	5.0.0		S3	Immediate Service Termination (IST); Service description; Stage1	Decision to transfer IST to 3GPP system specification set and upgrade to Rel-5
ARIB STD-T63-22.053	5.0.0		S4	Tandem Free Operation(TFO);Service description;Stage1	Updated from Release 4 to Release 5
ARIB STD-T63-22.076	5.0.0		S4	Noise Suppression for the AMR	New version 5.0.0 for Release 5
ARIB STD-T63-23.035	5.0.0		S3	Immediate Service Termination (IST); Service description; Stage2	Decision to transfer IST to 3GPP system specification set. References corrected to 3GPP specification references.
ARIB STD-T63-23.039	5.0.0		T2	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	Range of alternative interfaces for Short Message Service Centre (SMSC) and Short Message Entity (SME)

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG)	Title	Summary
ARIB STD-T63-23.041	5.0.0		T2	Technical Realization of Cell Broadcast Service	The Cell Broadcast short message service (CBS) for GSM and UMTS.
ARIB STD-T63-23.042	5.0.0		T2	Compression algorithm for SMS	The concepts and mechanisms involved in the compression and decompression of a stream of data.
ARIB STD-T63-23.053	5.0.0		T2	Tandem Free Operation for the (U)SIM application toolkit ; Stage 2	The stage 2 service description for Tandem Free Operation (TFO) in and between GSM and UMTS. TFO corresponds to the Mobile-to-Mobile calls for which the speech is not transcoded two times but only one by the Mobile Stations
ARIB STD-T63-26.071	5.0.0		S4	AMR speech Codec; General description	Rel-5 version is derived.
ARIB STD-T63-26.073	5.0.0		S4	AMR speech Codec; C-source code	Rel-5 version is derived.
ARIB STD-T63-26.074	5.0.0		S4	AMR speech Codec; Test sequences	Rel-5 version is derived.
ARIB STD-T63-26.077	5.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Rel-5 version is derived.
ARIB STD-T63-26.090	5.0.0		S4	AMR speech Codec; Transcoding Functions	Rel-5 version is derived.
ARIB STD-T63-26.091	5.0.0		S4	AMR speech Codec; Error concealment of lost frames	Rel-5 version is derived.
ARIB STD-T63-26.092	5.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Rel-5 version is derived.
ARIB STD-T63-26.093	5.0.0		S4	AMR speech Codec; Source Controlled Rate operation	Rel-5 version is derived.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG)	Title	Summary
ARIB STD-T63-26.094	5.0.0		S4	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	Rel-5 version is derived.
ARIB STD-T63-26.101	5.0.0		S4	AMR speech Codec; Frame Structure	Rel-5 version is derived.
ARIB STD-T63-26.102	5.0.0		S4	AMR speech Codec; Interface to Iu and Uu	Rel-5 version is derived.
ARIB STD-T63-26.104	5.0.0		S4	AMR speech Codec; Floating point C-Code	Rel-5 version is derived.
ARIB STD-T63-26.110	5.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General	Rel-5 version is derived.
ARIB STD-T63-26.111	5.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Rel-5 version is derived.
ARIB STD-T63-26.115	5.0.0		S4	Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	Rel-5 version is derived.
ARIB STD-T63-27.005	5.0.0		T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Three interface protocols for control of SMS functions within a GSM/UMTS mobile telephone from a remote terminal via an asynchronous interface.
ARIB STD-T63-27.010	5.0.0		T2	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	A multiplexing protocol between a UE and a TE.. The multiplexing protocol can be used to send any data, for instance voice, SMS, USSD, fax etc.
ARIB STD-T63-27.103	5.0.0		T2	Wide area network synchronization standard	Wide Area Network Synchronization between current and future mobile communication end-user devices, desktop applications and server-based information servers.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10		3GPP WG)	Title	Summary
ARIB STD-T63-31.103	5.0.0		T3	Characteristics of the ISIM Application	T#16 approved the specification to be part of Rel-5. The only changes to v1.0.0 are in the references clause for the reference in [16]
ARIB STD-T63-33.103	5.0.0		S3	3G Security Architecture	Clarification of sequence number management (Rel-5 created)
ARIB STD-T63-33.108	5.0.0		S3	3G security; Handover interface for Lawful interception	Release 5 draft Approved at TSG SA #16.
ARIB STD-T63-34.123-1	5.0.1		T1	UE Conformance Specification, Part 1 – Conformance specification	It is newly created to add tests of short message type 0 (Rel-5).
ARIB STD-T63-34.123-2	5.0.0		T1	UE Conformance Specification, Part 2 – ICS	ICS tables are updated based on changes of TS34.123-1 (5.0.1)
ARIB STD-T63-35.201	5.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Upgrade to Release 5
ARIB STD-T63-35.202	5.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	Release 5 version created.
ARIB STD-T63-35.203	5.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	Release 5 version created.
ARIB STD-T63-35.204	5.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Release 5 version created.

3.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-22.003	5.2.0	5.1.0	S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	The requirements is to Clarify to support on GERAN lu mode on ASCI and FAX.
ARIB STD-T63-22.057	5.4.0	5.3.0	S1	Mobile Execution Environment (MExE); Service description; Stage 1	All occurrences of "MExE application" are replaced with "MExE executable". The usage of the term applets is also removed, as this included in the MExE executable definition. Spelling corrections have also been made.
ARIB STD-T63-22.101	5.6.0	5.5.0	S1	UMTS Service principles	Some of SA1 requirements have not been fulfilled in Rel 5 time frame and thus they need to be deleted.
ARIB STD-T63-22.105	5.2.0	5.1.0	S1	Services & Service capabilities	Clarification to support on GERAN lu mode on access dependent services.
ARIB STD-T63-22.140	5.2.0	5.1.0	S1	Service aspects; Stage1Multimedia Messaging Service;	Introduction of the short code feature for VASP addressing and inclusion of definition in
ARIB STD-T63-22.228	5.6.0	5.5.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Some of SA1 requirements have not been fulfilled in Rel 5 time frame and thus they need to be deleted.
ARIB STD-T63-23.040	5.4.0	5.3.0	T2	Technical realisation of Short Message Service(SMS)	Clarification of bit value combinations within TP-PI. Clarification of the requirement for type 0 Short Messages. Add repeat and bouncing to Standard Animation for consistency with Simple Animation . Allow angle applied to special shape grid for consistency with other special shape elements
ARIB STD-T63-23.107	5.5.0	5.4.0	S2	Quality of Service, Concept and Architecture	The reference to 22.105 was corrected. Also a minor grammatical error was corrected.
ARIB STD-T63-23.140	5.3.0	5.2.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Parameters for CDR creation related to VASP/VAS connectivity via MM7. Charged Party Indication on MM7. Encapsulation of a short

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
					message (SMS) in a multimedia message (MMS). Clarification of Persistent Network-based Storage: Store Status and Store Status Text throughout MM1 Reference Point
ARIB STD-T63-23.207	5.4.0	5.3.0	S2	End to end quality of service concept and architecture	To correct the Figure 7 as the CR S2-020585 intended. Clarifications was made for several places in order to avoid unclear text. New P-CSCF function had been added to 23.228 by CR#134 and was simplified. The corresponding text in 23.207 was aligned with these simplifications.
ARIB STD-T63-23.228	5.5.0	5.4.0	S2	IP Multimedia Subsystem(IMS); Stage 2	No change has beed made.
ARIB STD-T63-25.101	5.3.0	5.2.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in release 99 (V3.11.0) have been reflected. Correction of ITU-R SM.329 references has been made. UE HSDPA performance requirements for fixed reference channel case have been introduced.
ARIB STD-T63-25.104	5.3.0	5.2.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in release 4 (V4.5.0) have been reflected. BS modulation accuracy requirement for HS-PDSCH etc have been introduced with corrections of Spectrum emission mask and references for SM.329.
ARIB STD-T63-25.113	5.1.0	5.0.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Restructuring of sections and correction of references have been made.
ARIB STD-T63-25.133	5.3.0	5.2.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in release99/4 (V3.100, 4.5.0) have been reflected with corrections on UTRAN measurements, re-selection requirements in Cell-FACH state and definition of known cell.
ARIB STD-T63-25.141	5.3.0	5.2.0	R4	Base station conformance testing (FDD)	Corresponding changes in release 4 (V4.5.0) and core spec (25.104, V5.3.0) have been made. Corrections on UTRAN measurement of Tx code power, occupied

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
					bandwidth test etc have been made.
ARIB STD-T63-25.201	5.1.0	5.0.0	R1	Physical layer -General Description	The same corrections have been done as done on 25.201 Ver.3.4.0.
ARIB STD-T63-25.211	5.1.0	5.0.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The same corrections have been done as done on 25.211 Ver.3.11.0. In addition, a new section is added to describe HS-PDSCH timing. TX diversity for HSDPA is specified.
ARIB STD-T63-25.212	5.1.0	5.0.0	R1	Multiplexing and channel coding (FDD)	The same corrections have been done as done on 25.212 Ver.3.10.0. Rate matching and channel coding for HS-SCCH is modified.
ARIB STD-T63-25.213	5.1.0	5.0.0	R1	Spreading and modulation (FDD)	The same corrections have been done as done on 25.213 Ver.3.8.0. The amplitude gain factor for HS-DPCCH is defined. Handling of DTX on HS-DPCCH is included in the uplink spreading section. Channelisation code mapping for HS-DSCH is removed. The modulation scheme for 16 QAM is scaled.
ARIB STD-T63-25.214	5.1.0	5.0.0	R1	Physical layer procedures (FDD)	The HS-DPCCH power offset is corrected. The definition of CQI and its reporting are modified. UE transmission timing adjustment with HS-DPCCH is clarified. A description on the operation of HSDPA during compressed mode is added. Qth threshold parameter in SSdT is defined.
ARIB STD-T63-25.301	5.1.0	5.0.0	R2	Radio Interface Protocol Architecture	Introduction of DSCH-RNTI, HSDPA specific corrections.
ARIB STD-T63-25.302	5.1.0	5.0.0	R2	Services provided by the physical layer	HSDPA corrections.
ARIB STD-T63-25.303	5.1.0	5.0.0	R2	Interlayer procedures in Connected Mode	Clarification on lossless SRNS Relocation, RFC 3095 context relocation.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-25.304	5.1.0	5.0.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Limitations of CBS reception.
ARIB STD-T63-25.306	5.1.0	5.0.0	R2	UE Radio Access capabilities	Security Capabilities, Corrections in HSDPA UE capabilities, HSDPA TDD UE capabilities, DPCH capabilities with simultaneous HSDPA configuration, RFC 3095 context relocation.
ARIB STD-T63-25.321	5.1.0	5.0.0	R2	MAC protocol specification	Update References to include 25.123 (TDD), TFCS selection guideline correction, HSDPA related MAC corrections, Description for MAC-hs reset.
ARIB STD-T63-25.401	5.3.0	5.2.0	R3	UTRAN Overall Description	HSDPA-related changes, Corrections on ATM-IP interoperability scenarios and IP transport in UTRAN and some other changes were performed.
ARIB STD-T63-25.402	5.1.0	5.0.0	R3	Synchronisation in UTRAN Stage 2	Reference section was corrected.
ARIB STD-T63-25.423	5.1.0	5.0.0	R3	UTRAN Iur interface RNSAP signalling	Changes for TFCI power control in DSCH hard split mode, support for HSDPA, Introduction of Qth signalling and other changes were performed.
ARIB STD-T63-25.424	5.1.0	5.0.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Aesa formats were corrected.
ARIB STD-T63-25.425	5.1.0	5.0.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	HS-DSCH Initial credits was introduced and Maximum number of credits was changed.
ARIB STD-T63-25.426	5.1.0	5.0.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Aesa formats were corrected.
ARIB STD-T63-25.430	5.1.0	5.0.0	R3	UTRAN Iub Interface: General Aspects and Principles	Definition of TFCI2 signalling bearer was included.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
ARIB STD-T63-25.433	5.1.0	5.0.0	R3	UTRAN Iub interface NBAP signalling	Support for HSDPA, Introduction of Qth signalling and other changes were performed.
ARIB STD-T63-25.434	5.1.0	5.0.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Aesa formats were corrected.
ARIB STD-T63-25.435	5.1.0	5.0.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	HS-DSCH Initial credits was introduced and Maximum number of credits was changed.
ARIB STD-T63-25.453	5.4.0	5.3.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Criticality Information Decoding Failure Handling was changed and the usage of the cause value was clarified.
ARIB STD-T63-26.103	5.2.0	5.1.0	S4	Codec lists	UMTS_AMR2 is added to be default Codec Type in all terminals of Rel-4 and onwards.
ARIB STD-T63-26.140	5.1.0	5.0.0	S4	Multimedia Messaging Service (MMS);Media formats and codes	Correcting the reference to AMR and AMR-WB RTP payload is done.
ARIB STD-T63-26.234	5.1.0	5.0.0	S4	End-to-end transparent streaming service; Protocols and codecs	Correction to Timed Text is done. Mime media type is updated. Corrections to the description of Sample Description atom and Timed Text Format are carried. Corrections Based on Interoperability Issues are done.
ARIB STD-T63-28.062	5.1.0	5.0.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service	Editorial corrections and additions are done. Additional TFO_Message Elements for Immediate Codec Type Optimisation is added. Corrections to TS 28.062, sections 4 to 8, sections 9 and 10, Annex C and Annex H are done. TFO Version Handling. Configuration Exchange in Annex C is done. Immediate Codec Type Optimization is carried out.
ARIB STD-T63-31.102	5.1.0	5.0.0	T3	Characteristics of the USIM Application	Essential clarifications and corrections Handling of different sets of connectivity parameters and automatic bearer selection

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
					CMI - Alignment with TS 51.011
ARIB STD-T63-31.111	5.1.0	5.0.0	T3	USIM Application Toolkit (USAT)	Miscellaneous corrections Correction to OPEN CHANNEL for GPRS
ARIB STD-T63-31.112	5.2.0	5.1.0	T3	USAT Interpreter Architecture Description; Stage 2	Removal of "session mode"
ARIB STD-T63-31.113	5.3.0	5.2.0	T3	USAT interpreter byte codes	Miscellaneous corrections and clarifications on the specification from 6 CRs
ARIB STD-T63-31.114	5.1.0	5.0.0	T3	USAT interpreter protocol and administration	Clarification on the USAT Interpreter behaviour Proof of Receipt management modification
ARIB STD-T63-33.107	5.3.0	5.2.0	S3	3G security; Lawful interception architecture and functions	(1) Changes to 33.107 to support interception at a GGSN (2) Addition of SMS type information (3) Inclusion of Serving System IRI in TS 33.107
ARIB STD-T63-33.203	5.2.0	5.1.0	S3	3G security; Access security for IP-based services	(1) ISIM related parameters (2) Reference of HTTP Digest AKA in TS 33.203 (3) Clean-up of section 6.1.1 (4) Integrity protection indicator (5) UE and P-CSCF Behaviour on an Incomplete Authentication (6) Requested Changes for SIP integrity

Changed Standard Number	Version at ARIB STD-T63 Ver.3.10	Version at ARIB STD-T63 Ver.3.00	3GPP WG)	Title	Change Summary
					(7) Clean-up of 7.3 (8) Security association handling in IMS when the UE changes IP address (9) Remove Annexes that describes Extended HTTP Digest solution
ARIB STD-T63-33.210	5.1.0	5.0.0	S3	3G security; Network Domain Security (NDS); IP network layer security	(1) NDS/IP Confidentiality protection for IMS session keys (2) Strengthening the requirements on IV construction to prevent attacks based on predictable IV
ARIB STD-T63-34.109	5.1.0	5.0.0	R2	Terminal logical test interface; Special conformance testing functions	Correction to UE test loop mode 2, Clarification of test loop performance requirements.

(Annex 11)

3GPP ARIB Change history List of Standards Ver. 3.20

6 February 2003

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.9.0	3.8.0	S	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs; editorial corrections to spec titles
ARIB STD-T63-21.111	3.4.0	3.3.0	T3	USIM and IC card requirements	Clarification on the use of the USIM and the SIM
ARIB STD-T63-23.035	3.1.0	3.0.0	S3	Immediate Service Termination(IST); Stage	Correction of use IST Command message and Call Termination Indication parameter
ARIB STD-T63-23.107	3.9.0	3.8.0	S2	QoS Concept and Architecture	Corrections and Clarifications of 3 CRs
ARIB STD-T63-23.171	3.9.0	3.8.0	S2	Functional stage 2 description of location services in UMTS	Incorporation of the following CR, approved at SA#17: CR026r1 Privacy class selection flow diagram
ARIB STD-T63-25.133	3.11.0	3.10.0	R4	Requirements for Support of Radio Resource Management (FDD)	Corrections on CELL_FACH state for BSIC identification, CELL_FACH test case,etc. were made. Accuracy requirement of UE RX-TX time difference (Type 2) and definition of valid range for RX-TX time difference were corrected.
ARIB STD-T63-25.141	3.11.0	3.10.0	R4	Base station conformance testing (FDD)	Correction of regional requirements was made.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.211	3.12.0	3.11.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Unwanted corrections on the previous version have been reversed.
ARIB STD-T63-25.212	3.11.0	3.10.0	R1	Multiplexing and channel coding (FDD)	The definition of L1 transport channel numbers has been corrected.
ARIB STD-T63-25.214	3.11.0	3.10.0	R1	Physical layer procedures (FDD)	Unwanted corrections on the previous version have been reversed. Maximum power adjustment in case of compressed mode has been corrected.
ARIB STD-T63-25.215	3.11.0	3.10.0	R1	Physical layer - Measurements (FDD)	UE SFN-SFN type 1 measurement has been removed for cell DCH state.
ARIB STD-T63-25.301	3.11.0	3.10.0	R2	Radio Interface Protocol Architecture	Clarification on RLC connection
ARIB STD-T63-25.302	3.14.0	3.13.0	R2	Services provided by the Physical Layer	Correction of transport to physical channel mapping for TDD
ARIB STD-T63-25.321	3.13.0	3.12.0	R2	MAC protocol specification	MAC TVM Corrections, MAC header for DTCH and DCCH
ARIB STD-T63-25.423	3.11.0	3.10.0	R3	UTRAN Iur Interface RNSAP Signalling	Replacing all occurrences of Psir(k) by ~~δ~~ Pcurr in 25.423, Correction of the Error Indication and Correction to Compressed Mode in RL Addition Failure.
ARIB STD-T63-25.433	3.11.0	3.10.0	R3	UTRAN Iub interface NBAP signalling	Replacing all occurrences of Psir(k) by ~~δ~~ Pcurr in 25.433 and Correction for Handling of conflicting specification text
ARIB STD-T63-26.131	3.4.0	3.3.0	S4	Terminal Acoustic Characteristics for Telephony; Requirements	Removal of wideband telephony from terminal acoustic requirements is done.
ARIB STD-T63-26.132	3.5.0	3.4.0	S4	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Removal of wideband telephony from terminal acoustic tests is done.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-31.102	3.10.0	3.9.0	T3	Characteristics of the USIM Application	Corrections and Clarifications of 2 CRs
ARIB STD-T63-31.121	3.3.0	3.2.0	T3	Terminal tests for the UICC Interface; Part2	Corrections and Clarifications of 3 CRs
ARIB STD-T63-31.122	3.4.0	3.3.0	T3	UICC Test Specification	Corrections and Clarifications of 5 CRs
ARIB STD-T63-34.108	3.9.0	3.8.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Update of default message contents based on 2002-06 core spec, and addition of default message contents for RF and default pattern for compressed mode.
ARIB STD-T63-34.109	3.7.0	3.6.0	R2	Terminal logical test interface; Special conformance testing functions	Correction of figure 5.3.2.6.1.1
ARIB STD-T63-34.121	3.10.0	3.9.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Addition of five new tests in RRM, some corrections, and inclusion of test tolerance

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.102	4.6.0	4.5.0	SA	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs; editorial corrections to titles.
ARIB STD-T63-21.111	4.1.0	4.0.0	T3	3rd Generation mobile system Release 1999 Specifications	Clarification on the use of the USIM and the SIM
ARIB STD-T63-23.035	4.1.0	4.0.0	S3	Immediate Service Termination (IST); Service description; Stage2	Correction of use IST Command message and Call Termination Indication parameter
ARIB STD-T63-23.107	4.5.0	4.4.0	S2	Quality of Service, Concept and Architecture	Corrections and Clarifications of 3 CRs
ARIB STD-T63-23.140	4.8.0	4.7.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Handling of MMS-related information on the USIM
ARIB STD-T63-25.113	4.3.0	4.2.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Correction to radiated spurious emission limits for 1,28 Mcps TDD option was made.
ARIB STD-T63-25.133	4.6.0	4.5.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.11.0 were made. Also AMR speech codec requirement was removed.
ARIB STD-T63-25.141	4.6.0	4.5.0	R4	Base station conformance testing (FDD)	Corresponding changes in V3.11.0, i.e. correction of regional requirements was made.
ARIB STD-T63-25.211	4.6.0	4.5.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Unwanted corrections on the previous version have been reversed.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
				channels onto physical channels (FDD)	reversed.
ARIB STD-T63-25.212	4.6.0	4.5.0	R1	Multiplexing and channel coding (FDD)	The definition of L1 transport channel numbers has been corrected.
ARIB STD-T63-25.214	4.5.0	4.4.0	R1	Physical layer procedures (FDD)	In addition to the corrections on version 3, generic parameter names are replaced by the TS 25.433 parameters.
ARIB STD-T63-25.215	4.5.0	4.4.0	R1	Physical layer; Measurements (FDD)	UE SFN-SFN type 1 measurement has been removed for cell DCH state. Transmitted carrier power has been clarified.
ARIB STD-T63-25.301	4.4.0	4.3.0	R2	Radio Interface Protocol Architecture	Clarification on RLC connection
ARIB STD-T63-25.302	4.6.0	4.5.0	R2	Services provided by the physical layer	Correction of transport to physical channel mapping for TDD
ARIB STD-T63-25.321	4.6.0	4.5.0	R2	MAC protocol specification	MAC TVM Corrections, MAC header for DTCH and DCCH
ARIB STD-T63-25.401	4.5.0	4.4.0	R3	UTRAN Overall Description	Correction of ALCAP identifiers
ARIB STD-T63-25.422	4.2.0	4.1.1	R3	UTRAN Iur interface signalling transport	Addition of new reference on SCTP checksum
ARIB STD-T63-25.423	4.6.0	4.5.0	R3	UTRAN Iur interface RNSAP signalling	Several corrections and clarifications for the functions.
ARIB STD-T63-25.426	4.4.0	4.3.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Addition of new reference on SCTP checksum
ARIB STD-T63-25.430	4.4.0	4.3.0	R3	UTRAN Iub Interface: General Aspects and Principles	Diagram modified to allow for 0 to i instances of PICH for alignment of TDD with FDD.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	4.6.0	4.5.0	R3	UTRAN Iub interface NBAP signalling	Several corrections and clarifications for the functions.
ARIB STD-T63-25.435	4.5.0	4.4.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Correction on Paging Indication bitmap
ARIB STD-T63-26.131	4.2.0	4.1.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	Removal of wideband telephony from terminal acoustic requirements is done.
ARIB STD-T63-26.132	4.3.0	4.2.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Removal of wideband telephony from terminal acoustic tests is done.
ARIB STD-T63-31.102	4.6.0	4.5.0	T3	Characteristics of the USIM Application	Corrections and Clarifications of 4 CRs
ARIB STD-T63-31.111	4.8.0	4.7.0	T3	USIM Application Toolkit (USAT)	Correction of Run AT command description
ARIB STD-T63-31.121	4.2.0	4.1.0	T3	UICC-terminal interface; USIM application test specification	Corrections and Clarifications of 3 CRs
ARIB STD-T63-34.108	4.4.0	4.3.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Update of default message contents based on 2002-06 core spec, and addition of default message contents for RF and default pattern for compressed mode.

3. Release 5

3.1. Added Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20		3GPP WG	Title	Summary
ARIB STD-T63-22.022	5.0.0		S3	Personalization of GSM Mobile Equipment (ME) Mobile Functionality Specification	Upgrade to Release 5
ARIB STD-T63-31.101	5.0.0		T3	UICC-Terminal Interface; Physical and logical characteristics	Issued as version 5.0.0 in order to create a complete set of specifications for release 5.

3.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.103	5.1.0	5.0.0	SA	3rd Generation mobile system Release 5 specifications	Updates lists of specs, editorial corrections to titles of specs.
ARIB STD-T63-21.111	5.1.0	5.0.0	T3	USIM and IC card requirements	Clarification on the use of the USIM and the SIM
ARIB STD-T63-22.101	5.7.0	5.6.0	S1	UMTS Service principles	Clarification that IMS Services are subject to a PS domain subscription. Clarification that Emergency calls are not supported in the IM CN Subsystem and that the UE shall use the CS domain for emergency calls. The possibility for the UE to recognise an emergency number from a stored list and the network to be able update this list is added.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.140	5.3.0	5.2.0	S1	Service aspects; Stage1Multimedia Messaging Service;	SMS and USSD are deleted from the list of bearers for MMS delivery and submission.
ARIB STD-T63-23.035	5.1.0	5.0.0	S3	Immediate Service Termination (IST); Service description; Stage2	Correction of use IST Command message and Call Termination Indication parameter
ARIB STD-T63-23.040	5.5.1	5.4.0	T2	Technical realisation of Short Message Service(SMS)	Addition of compression_test_vectors.zip to the specification zip-file
ARIB STD-T63-23.048	5.5.1	5.4.0	T3	Security Mechanisms for (U)SIM Toolkit Application; Stage 2	Corrections and Clarifications of 7 CRs
ARIB STD-T63-23.057	5.1.0	5.0.0	T2	Mobile Execution Environment (MExE) Functional description Stage 2	Adding new attributes to the JAR manifest file
ARIB STD-T63-23.107	5.6.0	5.5.0	S2	Quality of Service, Concept and Architecture	Corrections and Clarifications of 3 CRs
ARIB STD-T63-23.140	5.4.0	5.3.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Time stamp definition and time clarification. Changes to the support of MAP operations for recipient MSISDN address resolution based on IMSI. Binary Encoding of MMS User Preferences for Storage on the USIM. MMS UA behaviour with respect to handling MMS notification parameters stored on the USIM. MMS UA behaviour for handling number of MMS connectivity parameters sets on the USIM
ARIB STD-T63-23.207	5.5.0	5.4.0	S2	End to end quality of service concept and architecture	Corrections and Clarifications of 6 CRs
ARIB STD-T63-23.228	5.6.0	5.5.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Corrections and Clarifications of 16 CRs
ARIB STD-T63-25.101	5.4.0	5.3.0	R4	UE Radio transmission and reception (FDD)	Requirements for dedicated pilot case and HSDPA fixed reference channel case were introduced. Specifications for spectrum emission mask and PRACH modulation quality were corrected.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	5.4.0	5.3.0	R4	UTRA (BS) FDD; Radio transmission and reception	Correction on spurious emission limits and CPICH measurement period were made. Time alignment in Tx diversity was also corrected.
ARIB STD-T63-25.113	5.2.0	5.1.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Correction to radiated spurious emission limits for 1,28 Mcps TDD option was made.
ARIB STD-T63-25.133	5.4.0	5.3.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V4.6.0 were made. Requirements of AMR WB speech codec and TTI uncertainty in event reporting delays for FDD measurement test cases were included. Tables for valid compressed mode pattern were corrected.
ARIB STD-T63-25.141	5.4.0	5.3.0	R4	Base station conformance testing (FDD)	Corrections on transmit inter modulation test method, receiver spurious emission test method, description of Test Model 4, Spectrum emission mask and CPICH accuracy measurement were made with corresponding changes in V4.6.0. Node-B EVM Test for Transmission of HSDPA 16QAM Signals was introduced.
ARIB STD-T63-25.201	5.2.0	5.1.0	R1	Physical layer -General Description	A sentence describing the relation to other layers has been corrected.
ARIB STD-T63-25.211	5.2.0	5.1.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	TX diversity usage of UE has been clarified. HS-DPCCH timing has also been clarified. Closed loop transmit diversity for HSDPA has been included.
ARIB STD-T63-25.212	5.2.0	5.1.0	R1	Multiplexing and channel coding (FDD)	Bit scrambling for HS-DSCH has been introduced. Some corrections for HSDPA have been done.
ARIB STD-T63-25.213	5.2.0	5.1.0	R1	Spreading and modulation (FDD)	Power offset values for HS-DPCCH have been introduced. Figure 1 has been corrected to include the maximum DPDCH

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.214	5.2.0	5.1.0	R1	Physical layer procedures (FDD)	In addition to the corrections on version 4, CQI definition, CQI reference period, and timing of CQI reporting have been clarified. Closed loop transmit diversity for HSPDA has been included.
ARIB STD-T63-25.215	5.1.0	5.0.0	R1	Physical layer; Measurements (FDD)	UE SFN-SFN type 1 measurement has been removed for cell DCH state. Transmitted carrier power has been clarified.
ARIB STD-T63-25.301	5.2.0	5.1.0	R2	Radio Interface Protocol Architecture	Clarification on RLC connection.
ARIB STD-T63-25.302	5.2.0	5.1.0	R2	Services provided by the physical layer	Correction of transport to physical channel mapping for TDD.
ARIB STD-T63-25.306	5.2.0	5.1.0	R2	UE Radio Access capabilities	Introduction of HS-PDSCH capability definition and QPSK-only UE categories, Mandatory Support of dedicated pilots for channel estimation.
ARIB STD-T63-25.321	5.2.0	5.1.0	R2	MAC protocol specification	MAC TVM Corrections, MAC header for DTCH and DCCH, Optional use of a maximum transmission delay for MAC-hs SDUs, AC-hs: Scheduler and HARQ entity functions for TSN, Correction on C/T field definition for HS-DSCH, Corrections to re-ordering protocol description, Limiting of number of PDUs per TTI, Signaling of Transport Block Sizes for HS-DSCH, Transport block size signalling 3.84 Mcps TDD, Static HSDPA Transport Block Sizes for 1.28 Mcps TDD.
ARIB STD-T63-25.401	5.4.0	5.3.0	R3	UTRAN Overall Description	Clarification on ALCAP Identifiers and Introduction of Iur-g, the Access Control Function: SNA and HS-DSCH RNTI.
ARIB STD-T63-25.420	5.1.0	5.0.0	R3	UTRAN Iur Interface: General Aspects and Principles	Introduction of Iur-g

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
				Principles	
ARIB STD-T63-25.422	5.1.0	5.0.0	R3	UTRAN Iur interface signalling transport	Addition of new reference on SCTP checksum
ARIB STD-T63-25.423	5.3.0	5.2.0	R3	UTRAN Iur interface RNSAP signalling	Several corrections, clarifications and additions for the functions.
ARIB STD-T63-25.425	5.2.0	5.1.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	The procedure text has been updated so that the start of the data transport is allowed also without DSCH Capacity allocation procedure if initial credits are allocated in RNSAP signalling.
ARIB STD-T63-25.426	5.2.0	5.1.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Addition of new reference on SCTP checksum
ARIB STD-T63-25.430	5.2.0	5.1.0	R3	UTRAN Iub Interface: General Aspects and Principles	Diagram modified to allow for 0 to i instances of PICH for alignment of TDD with FDD.
ARIB STD-T63-25.432	5.1.0	5.0.1	R3	UTRAN Iub interface signalling transport	Addition of new reference on SCTP checksum
ARIB STD-T63-25.433	5.2.0	5.1.0	R3	UTRAN Iub interface NBAP signalling	Several corrections, clarifications and additions for the functions.
ARIB STD-T63-25.435	5.2.0	5.1.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Correction on Paging Indication bitmap
ARIB STD-T63-25.442	5.1.0	5.0.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Deletion of Misleading Sentence for O&M Signalling Bearer
ARIB STD-T63-26.093	5.1.0	5.0.0	S4	AMR speech Codec; Source Controlled Rate operation	Correction of Codec Type Names is done.
ARIB STD-T63-26.103	5.3.0	5.2.0	S4	Codec lists	Introduction of codepoint for Dummy Codec for CS Multi Media (3G 324M) is done.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
					Media (3G 324M) is done.
ARIB STD-T63-26.131	5.2.0	5.1.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	Correction on the ANR requirement for hands-free Use is done.
ARIB STD-T63-26.132	5.3.0	5.2.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	Correction on ANR test for hands-free Use is done.
ARIB STD-T63-26.202	5.1.0	5.0.0	S4	AMR speech codec ,wideband; Interface to lu and Uu	Consideration of allowed Configurations for AMR-WB is done.
ARIB STD-T63-26.234	5.2.0	5.1.0	S4	End-to-end transparent streaming service; Protocols and codecs	Correction of Mapping of SDP parameters to UMTS QoS parameters (Annex J) is done.
ARIB STD-T63-28.062	5.2.0	5.1.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service	TFO-Signalling for allowed AMR-WB Configurations, Simplified TFO Decision for AMR-WB, TFO-Signalling for preferred AMR-NB Configurations, and TFO Version Handling are carried out.
ARIB STD-T63-31.102	5.2.0	5.1.0	T3	Characteristics of the USIM Application	Corrections and Clarifications of 4 CRs
ARIB STD-T63-31.103	5.1.0	5.0.0	T3	Characteristics of the ISIM Application	Corrections
ARIB STD-T63-31.111	5.2.0	5.1.0	T3	USIM Application Toolkit (USAT)	Corrections and Clarifications of 2 CRs
ARIB STD-T63-31.113	5.4.0	5.3.0	T3	USAT interpreter byte codes	Corrections and Clarifications of 3 CRs
ARIB STD-T63-31.114	5.2.0	5.1.0	T3	USAT interpreter protocol and administration	Handling of operational pull messages and post mode

Changed Standard Number	Version at ARIB STD-T63 Ver.3.20	Version at ARIB STD-T63 Ver.3.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.106	5.1.0	5.0.0	S3	Lawful interception requirements	Clarification of interception capabilities
ARIB STD-T63-33.107	5.4.0	5.3.0	S3	3G security; Lawful interception architecture and functions	Essential clarification to the Timestamp IE and additional X3-interface parameters
ARIB STD-T63-33.108	5.1.0	5.0.0	S3	3G security; Handover interface for Lawful interception	Corrections to TS 33.108
ARIB STD-T63-33.203	5.3.0	5.2.0	S3	3G security; Access security for IP-based services	1) SA handling when the UE changes IP address, 2) Removal of some editor notes, 3) Correction to S-CSCF behaviour on Network Authentication Failure, 4) Correcting the network behaviour in response to an incorrect AUT-S, 5) Mitigating reflection attacks in IMS, 6) Protect port number to be assigned by UE in re-registration, 7) One SA for both TCP and UDP sockets, 8) Correction of authentication vector distribution procedure, 9) The definition of the key to be used for HMAC-SHA1-96 within ESP, 10) Draft-ietf-sip-sec-agree syntax for manually keyed Ipsec, 11) Update of User Authentication Failure, 12) Update of SA handling procedures
ARIB STD-T63-34.123-1	5.1.1	5.0.1	T1	UE Conformance Specification, Part 1 – Conformance specification	Update to 2002-06 version of core specifications, and some corrections. This includes all signalling test cases for R99, Rel-4 and Rel-5.
ARIB STD-T63-34.123-2	5.1.0	5.0.0	T1	UE Conformance Specification, Part 2 – ICS	ICS tables are updated based on changes of TS34.123-1 (5.1.1)
ARIB STD-T63-34.124	5.1.0	5.0.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Reference to ITU-R recommendation SM.329-9 was updated.

(Annex 12)

3GPP ARIB Change history List of Standards Ver. 3.30

26 March 2003

1. Release 99

1.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-3	3.0.0		T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSSs)	First TTCN test was approved based on March 02 core specifications. This test case runs in 3 independent UE implementations, including the security mode.

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.10.0	3.9.0	S	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs; editorial corrections to spec titles
ARIB STD-T63-25.101	3.12.0	3.11.0	R4	UE Radio transmission and reception (FDD)	A correction for TPC combining test case 1 was made.
ARIB STD-T63-25.104	3.11.0	3.10.0	R4	UTRA (BS) FDD; Radio transmission and reception	Requirement on FDD GSM co-existence in the Same Geographic Area was corrected.
ARIB STD-T63-25.133	3.12.0	3.11.0	R4	Requirements for Support of Radio Resource Management (FDD)	Corrections on interruption time in FDD/FDD hard handover, UE Transmitted Power requirements in case of compressed mode gaps, measurement occasion pattern in case of BSIC reconfirmation, UE parameters of random

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
					access test, required window size for measurement in IPDL and UE timer accuracy were made.
ARIB STD-T63-25.141	3.12.0	3.11.0	R4	Base station conformance testing (FDD)	Description on FDD GSM co-existence in the Same Geographic Area was corrected.
ARIB STD-T63-25.302	3.15.0	3.14.0	R2	Services provided by the Physical Layer	Two realisations of an Empty Transport Format.
ARIB STD-T63-25.304	3.12.0	3.11.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Highest HCS priority.
ARIB STD-T63-25.306	3.7.0	3.6.0	R2	UE Radio Access capabilities definition	UE capability for RLC window size.
ARIB STD-T63-25.321	3.14.0	3.13.0	R2	MAC protocol specification	TFC selection for RACH transmissions, RB id in ciphering, Correction to TFC selection for TDD, Unblockable TFCs in excess power state, Ciphering of multiple PDUs per TTI.
ARIB STD-T63-25.423	3.12.0	3.11.0	R3	UTRAN Iur Interface RNSAP Signalling	Correction for the DL DPDCH transmission and DSCH-RNTI in RADIO LINK SETUP FAILURE.
ARIB STD-T63-25.427	3.10.0	3.9.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Correction for the DL DPDCH transmission.
ARIB STD-T63-25.433	3.12.0	3.11.0	R3	UTRAN Iub interface NBAP signalling	Correction for the DL DPDCH transmission.
ARIB STD-T63-27.007	3.12.0	3.11.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behaviour of AT+W46
ARIB STD-T63-31.102	3.11.0	3.10.0	T3	Characteristics of the USIM Application	Essential corrections file size and record lengths in several EFs
ARIB STD-T63-31.111	3.9.0	3.8.0	T3	USIM Application Toolkit (USAT)	5 clarifications & corrections

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.121	3.4.0	3.3.0	T3	Terminal tests for the UICC Interface; Part2	Clarifications & corrections
ARIB STD-T63-31.122	3.5.0	3.4.0	T3	UICC Test Specification	Correction of test of Read Record on Linear Fixed EF and T=1 test
ARIB STD-T63-33.102	3.13.0	3.12.0	S3	3G security; Security architecture	Correction to the START formula
ARIB STD-T63-34.108	3.10.0	3.9.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Update of default message contents based on 2002-09 core spec, and addition of new RAB combinations and extensions for multi-call.
ARIB STD-T63-34.109	3.8.0	3.7.0	R2	Terminal logical test interface; Special conformance testing functions	Reference Measurement Channels references.
ARIB STD-T63-34.121	3.11.0	3.10.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Some corrections and improvements are made in RRM mainly.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.102	4.7.0	4.6.0	S	3rd Generation mobile system Release 4 specifications	Correction to list of specs; editorial corrections to titles.
ARIB STD-T63-22.140	4.3.0	4.2.0	S1	Multimedia Messaging Service (MMS); Stage 1	Changes to reflect the support for the storage of MMS configuration information, of MMS notifications and of MMS user preferences in the (U)SIM, and clarification of the handling of preferred bearer in the (U)SIM.
ARIB STD-T63-23.107	4.6.0	4.5.0	S2	Quality of Service, Concept and Architecture	Modification on "Highest value for bit rates" are done.
ARIB STD-T63-25.101	4.6.0	4.5.0	R4	UE Radio transmission and reception (FDD)	Only a corresponding correction as in V3.12.0 was made.
ARIB STD-T63-25.104	4.6.0	4.5.0	R4	UTRA (BS) FDD; Radio transmission and reception	A corresponding change as in V3.11.0 and corrections on BS IPDL requirement, table of regional requirements were made.
ARIB STD-T63-25.113	4.4.0	4.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Corrections on new exclusion bands, requirements for telecommunication port and interpretation of measurement results were made.
ARIB STD-T63-25.133	4.7.0	4.6.0	R4	Requirements for support of radio resource management (FDD)	A correction on total received power density definition for the BS was made. Corresponding changes in V3.12.0 were also introduced.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	4.7.0	4.6.0	R4	Base station conformance testing (FDD)	A corresponding change as in V3.11.0 and corrections on BS IPDL test requirement, transmit intermodulation test and general corrections were introduced.
ARIB STD-T63-25.215	4.6.0	4.5.0	R1	Physical layer; Measurements (FDD)	The measurement reference point is changed to the receiving antenna connector, while still considering the receiver generated noise and measurement bandwidth.
ARIB STD-T63-25.302	4.7.0	4.6.0	R2	Services provided by the physical layer	Two realisations of an Empty Transport Format.
ARIB STD-T63-25.304	4.6.0	4.5.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Highest HCS priority.
ARIB STD-T63-25.306	4.6.0	4.5.0	R2	UE Radio Access capabilities definition	UE capability for RLC window size, UE capability for RFC3095.
ARIB STD-T63-25.321	4.7.0	4.6.0	R2	MAC protocol specification	TFC selection for RACH transmissions, RB id in ciphering, Correction to TFC selection for TDD, Unblockable TFCs in excess power state, Ciphering of multiple PDUs per TTI.
ARIB STD-T63-25.401	4.6.0	4.5.0	R3	UTRAN Overall Description	Definition of URA.
ARIB STD-T63-25.402	4.6.0	4.5.0	R3	Synchronisation in UTRAN Stage 2	Node B Synchronisation for 3.84Mcps TDD.
ARIB STD-T63-25.423	4.7.0	4.6.0	R3	UTRAN Iur interface RNSAP signalling	Several corrections, clarifications and additions for the functions.
ARIB STD-T63-25.427	4.4.0	4.3.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Correction for the DL DPDCH transmission.
ARIB STD-T63-25.433	4.7.0	4.6.0	R3	UTRAN Iub interface NBAP signalling	Several corrections, clarifications and additions for the functions.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.234	4.5.0	4.4.0	S4	End-to-end transparent streaming service; Protocols and codecs	Addition regarding IPv6 support in SDP and SMIL authoring instructions are done.
ARIB STD-T63-27.007	4.5.0	4.4.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behaviour of AT+W46
ARIB STD-T63-28.062	4.5.0	4.4.0	S4	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	Correction to TFO_Term state description is done.
ARIB STD-T63-31.101	4.1.0	4.0.0	T3	UICC-terminal interface; Physical and logical characteristics	Remove mention of application specifications from TS 31.101
ARIB STD-T63-31.102	4.7.0	4.6.0	T3	Characteristics of the USIM Application	Essential corrections file size and record lengths in several EFs
ARIB STD-T63-31.111	4.9.0	4.8.0	T3	USIM Application Toolkit (USAT)	3 clarifications & corrections
ARIB STD-T63-31.121	4.3.0	4.2.0	T3	UICC-terminal interface; USIM application test specification	Clarifications & corrections
ARIB STD-T63-33.102	4.5.0	4.4.0	S3	3G security; Security architecture	Correction to the START formula
ARIB STD-T63-34.108	4.5.0	4.4.0	T1	Common test environments for User Equipment (UE) conformance testing	Update of default message contents based on 2002-09 core spec, and addition of new RAB combinations and extensions for multi-call. Rel-5 information is included in an annex of Rel-4 specification
ARIB STD-T63-34.109	4.4.0	4.3.0	R2	Terminal logical test interface; Special conformance testing functions	Reference Measurement Channels references.
ARIB STD-T63-34.124	4.1.0	4.0.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	A correction on new exclusion bands and interpretation of measurement results was made.

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.103	5.2.0	5.1.0	S	3rd Generation mobile system Release 5 specifications	Correction to list of specs, editorial corrections to titles of specs
ARIB STD-T63-22.101	5.8.0	5.7.0	S1	UMTS Service principles	Modifications to the text to reflect the fact that support of the SIM is optional from Release 5 of the 3GPP specifications.
ARIB STD-T63-22.140	5.4.0	5.3.0	S1	Service aspects; Stage1Multimedia Messaging Service;	Changes to clarify the support for the storage of MMS configuration information, of MMS notifications and of MMS user preferences in the USIM, and the handling of preferred bearer in the USIM.
ARIB STD-T63-23.048	5.5.0	5.4.0	T3	Security Mechanisms for the (U)SIM application toolkit; Stage 2	3 clarifications
ARIB STD-T63-23.107	5.7.0	5.6.0	S2	Quality of Service, Concept and Architecture	Modification on "Highest value for bit rates" are done.
ARIB STD-T63-23.140	5.5.0	5.4.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	MMS message size definition and its support on the MMS UA. MMS UA behaviour regarding the MMS parameters on the (U)SIM. Further corrections towards the MM7 XML Schema and MM7 examples
ARIB STD-T63-23.207	5.6.0	5.5.0	S2	End to end quality of service concept and architecture	Clarifications on Go interface Changes on Consistency of stage 2 – RSVP proxy

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
				architecture	● Mobile IP and Service Based Local Policy interactions ● Combined CR on alignment with stage-3 on end-to-end QoS
ARIB STD-T63-23.228	5.7.0	5.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Clarification on ● charging concepts ● MRFP reference point ● the ISC interface ● Network Configuration Hiding ● grouping of media components to PDP Contexts Changes on ● Correction to services concepts ● Service Invocation ● Separation of media components in relation to forking ● Number internationalisation clarification ● S-CSCF re-assignment ● P-CSCF at home or visited ● Stripping of headers in the P-CSCF ● Resource reservation ● Local services ● Handling of SDP manipulation issue in stage-2 specifications
ARIB STD-T63-25.101	5.5.0	5.4.0	R4	UE Radio transmission and reception (FDD)	A corresponding change as in V4.6.0 and a correction on Specified TBS for HSDPA Reference Channels were made. Requirements for HSDPA UE categories 11 and 12 were newly introduced.
ARIB STD-T63-25.104	5.5.0	5.4.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes as in V4.6.0, corrections on TX diversity requirements and general corrections were made.
ARIB STD-T63-25.113	5.3.0	5.2.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Only a corresponding correction as in V4.4.0 was made.
ARIB STD-T63-25.133	5.5.0	5.4.0	R4	Requirements for support of radio resource management (FDD)	With corresponding changes as in V4.7.0, a correction on CPICH RSCP report mapping was made.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	5.5.0	5.4.0	R4	Base station conformance testing (FDD)	With corresponding changes as in V4.7.0, a correction on TX Diversity timing accuracy test and general corrections were made.
ARIB STD-T63-25.211	5.3.0	5.2.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Table 10 is updated indicating that TxAA mode 2 is not applicable with HSDPA channels.
ARIB STD-T63-25.212	5.3.0	5.2.0	R1	Multiplexing and channel coding (FDD)	The mapping from decimal CQI values to binary codewords is defined. A table is inserted describing the mapping of HARQ-ACK messages to physical layer coding, and the relevant figure is also revised.
ARIB STD-T63-25.214	5.3.0	5.2.0	R1	Physical layer procedures (FDD)	Two transport format parameters, for the purpose of CQI reporting, are specified to clarify the ambiguity. CQI definition for UE categories 11 and 12 is added. It clarifies that UE has to support different timing adjustment mode in the same active set. Reference to the transport block size signalling procedure is introduced. The condition on the received uplink signal quality in 5.2.1.4.4 is not considered in DSCH PC improvement in soft handover.
ARIB STD-T63-25.215	5.2.0	5.1.0	R1	Physical layer; Measurements (FDD)	The measurement reference point is changed to the receiving antenna connector, while still considering the receiver generated noise and measurement bandwidth.
ARIB STD-T63-25.302	5.3.0	5.2.0	R2	Services provided by the physical layer	Two realisations of an Empty Transport Format, Corrections to the channel models for TDD.
ARIB STD-T63-25.304	5.2.0	5.1.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Highest HCS priority.
ARIB STD-T63-25.321	5.3.0	5.2.0	R2	MAC protocol specification	TFC selection for RACH transmissions, RB id in ciphering, Correction to TFC selection for TDD, Unblockable TFCs in excess power state, Generation of RLC Status Reports to coordinate with MAC-hs reset, Re-ordering Mechanism,

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
					Transport Block Size Signalling for 1.28Mcps TDD, Limitation on number of PDUs per single TTI for 1.28 Mcps TDD, The Number of mac-d pdu's in a single mac-hs PDU for TDD, HSDPA Retransmission block Size, Ciphering of multiple PDUs per TTI.
ARIB STD-T63-25.401	5.5.0	5.4.0	R3	UTRAN Overall Description	Definition of URA and Corrections to the SNA Access Control Function
ARIB STD-T63-25.423	5.4.0	5.3.0	R3	UTRAN Iur interface RNSAP signalling	Several corrections, clarifications and additions for the functions.
ARIB STD-T63-25.425	5.3.0	5.2.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Clarification for the initial capacity allocation of HS-DSCH and clarification for the Maximum MAC-d PDU Length.
ARIB STD-T63-25.427	5.1.0	5.0.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Correction for the DL DPDCH transmission.
ARIB STD-T63-25.433	5.3.0	5.2.0	R3	UTRAN Iub interface NBAP signalling	Several corrections, clarifications and additions for the functions.
ARIB STD-T63-25.435	5.3.0	5.2.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Clarification for the initial capacity allocation of HS-DSCH and clarification for the Maximum MAC-d PDU Length.
ARIB STD-T63-26.093	5.2.0	5.1.0	S4	AMR speech Codec; Source Controlled Rate operation	Correction of uplink SCR operation activation for UMTS AMR is done.
ARIB STD-T63-26.102	5.1.0	5.0.0	S4	AMR speech Codec; Interface to Iu and Uu	Correction of RAB parameter assignment for AMR is done.
ARIB STD-T63-26.103	5.4.0	5.3.0	S4	Speech codec list for GSM and UMTS	Correction of uplink SCR activation for UMTS AMR and Correction to the Codec ID Table are done.
ARIB STD-T63-26.140	5.2.0	5.1.0	S4	Multimedia Messaging Service (MMS); Media formats and codes	Code points for H.263 and File Format name change from MP4 to 3GP are done.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.173	5.5.0	5.4.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction of ambiguous expression in the AMR-WB C-Code is done.
ARIB STD-T63-26.174	5.4.0	5.3.0	S4	AMR speech codec, wideband; Test sequences	Correction in frame synchronisation sequence is done.
ARIB STD-T63-26.234	5.3.0	5.2.0	S4	End-to-end transparent streaming service; Protocols and codecs	Addition regarding IPv6 support in SDP, Code points for H.263, File format 3GP based on ISO and not MP4, SMIL authoring instructions, Client usage of bandwidth parameter at the media level in SDP, SMIL Language Profile, Usage of Multiple Media Sample Entries in Media Tracks of 3GP files and Progressive download of 3GP files.
ARIB STD-T63-26.236	5.1.0	5.0.0	S4	Packet switched conversational multimedia applications; Transport protocols	QoS profile parameters for conversational multimedia applications and Clarification on SDP session bandwidth parameter are done.
ARIB STD-T63-27.007	5.2.0	5.1.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behaviour of AT+W46
ARIB STD-T63-28.062	5.3.0	5.2.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service	Correction to TFO_Term state description, TFO version handling, Corrections to the TFO standard (wrong specification references) and Correction of TFO_REQ message for AMR-WB are done.
ARIB STD-T63-31.101	5.1.0	5.0.0	T3	UICC-terminal interface; Physical and logical characteristics	Remove mention of 3GPP applications using TS 31.101
ARIB STD-T63-31.102	5.3.0	5.2.0	T3	Characteristics of the USIM Application	Essential corrections file size and record lengths in several EFs
ARIB STD-T63-31.103	5.2.0	5.1.0	T3	Characteristics of the ISIM Application	Replace reference to TS 31.110 by reference to ETSI TS 101 220

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.111	5.3.0	5.2.0	T3	USIM Application Toolkit (USAT)	A clarification & a correction
ARIB STD-T63-33.102	5.1.0	5.0.0	S3	3G security; Security architecture	(1)USIM support in GERAN only terminals, (2)Correction to the START formula
ARIB STD-T63-33.107	5.5.0	5.4.0	S3	3G security; Lawful interception architecture and functions	(1)Event Time, (2)Essential correction to the LI events generated during inter-SGSN RAU, when PDP context is active, (3)Essential correction to the LI events generated during inter-SGSN RAU, when PDP context is active
ARIB STD-T63-33.108	5.2.0	5.1.0	S3	3G security; Handover interface for Lawful interception	(1)Essential corrections to the Annex C.1 (ULIC), (2)Missing PDP Context Modification event, (3)Essential correction to the LI events generated during RAU, when PDP context is active, (4)Changes to TS 33.108 for U.S. LI Requirements
ARIB STD-T63-33.200	5.1.0	5.0.0	S3	3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security	Removal of Automatic Key Management from Release 5
ARIB STD-T63-33.203	5.4.0	5.3.0	S3	3G security; Access security for IP-based services	(1)Correction of IP address acquisition in P-CSCF, (2)Sending error response when P-CSCF receives unacceptable proposal, (3)The use of SAs in user authentication failures, (4)Clean up one Editor's note in 33.203, (5)Re-use and re-transmission of RAND and AUTN, (6)Update of SIP Security Agreement Syntax in Appendix H, (7)Registration and SA lifetimes, (8)Open issues in SA handling, (9)TCP and UDP share the same SA, (10)Indication in the UE that the SA is no longer active in P-CSCF
ARIB STD-T63-33.210	5.2.0	5.1.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Adding requirement to provide mandatory support for 3DES encryption in NDS/IP. Remove AES references and dependencies

Changed Standard Number	Version at ARIB STD-T63 Ver.3.30	Version at ARIB STD-T63 Ver.3.20	3GPP WG	Title	Change Summary
ARIB STD-T63-34.109	5.2.0	5.1.0	R2	Terminal logical test interface; Special conformance testing functions	Reference Measurement Channels references.
ARIB STD-T63-34.123-1	5.2.0	5.1.1	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Update to 2002-09 version of core specifications, and some corrections. (main impact in RRC measurement Control/Reporting) This includes all signalling test cases for R99, Rel-4 and Rel-5.
ARIB STD-T63-34.123-2	5.2.0	5.1.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	ICS tables are updated based on changes of TS34.123-1 (5.2.0)
ARIB STD-T63-34.124	5.2.0	5.1.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Only a corresponding correction as in V4.1.0 was made

(Annex 13)

3GPP ARIB Change history List of Standards Ver. 3.40

29 July 2003

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.11.0	3.10.0	S	3rd Generation mobile system Release 1999 Specifications	Correction to list of specs; editorial corrections to spec titles
ARIB STD-T63-25.101	3.13.0	3.12.0	R4	UE Radio transmission and reception (FDD)	The closed loop timing adjustment mode parameter for Tx diversity and downlink power control during compressed mode test were incorporated.
ARIB STD-T63-25.104	3.12.0	3.11.0	R4	UTRA (BS) FDD; Radio transmission and reception	Protect of the FDD BS receiver was revised.
ARIB STD-T63-25.133	3.13.0	3.12.0	R4	Requirements for Support of Radio Resource Management (FDD)	Corrections of hard hand over test cases, UE parameters for Random access test and constant value in random access test requirements were made.
ARIB STD-T63-25.141	3.13.0	3.12.0	R4	Base station conformance testing (FDD)	Corresponding changes in the core specification (TS25.104) was incorporated.
ARIB STD-T63-25.214	3.12.0	3.11.0	R1	Physical layer procedures (FDD)	Corrects TxAA mode 1 antenna verification description.
ARIB STD-T63-25.321	3.15.0	3.14.0	R2	MAC protocol specification	Setting of ciphering activation time for TM bearers, TFC Control Implementation.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.423	3.13.0	3.12.0	R3	UTRAN Iur Interface RNSAP Signalling	Correction to DCH Combining in Radio Link Setup and Radio Link Addition and Cell Individual Offset is aligned with RRC.
ARIB STD-T63-25.433	3.13.0	3.12.0	R3	UTRAN Iub interface NBAP signalling	Correction to DCH Combining in Radio Link Setup and Radio Link Addition.
ARIB STD-T63-26.102	3.4.0	3.3.0	S4	Mandatory Speech Codec; AMR speech Codec; Interface to Iu and Uu	AMR Rate Adaptation of R'99 is added.
ARIB STD-T63-26.104	3.5.0	3.4.0	S4	Speech Codec Lists for GSM and UMTS	Correction to floating-point implementation of sp_dec.c is carried out.
ARIB STD-T63-27.007	3.13.0	3.12.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behaviour of AT+CGCLASS. Correction ATV0 result codes and AT+WS46 parameter values
ARIB STD-T63-31.102	3.12.0	3.11.0	T3	Characteristics of the USIM Application	CR to make EF-EXT1 optional in the USIM Phonebook
ARIB STD-T63-31.111	3.10.0	3.9.0	T3	USIM Application Toolkit (USAT)	4 clarifications and corrections
ARIB STD-T63-31.121	3.5.0	3.4.0	T3	Terminal tests for the UICC Interface; Part2	File size correction Correction of PLMN coding
ARIB STD-T63-31.122	3.6.0	3.5.0	T3	UICC Test Specification	Correction to the returned FCP of the SELECT and the STATUS command
ARIB STD-T63-34.108	3.11.0	3.10.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Updated to 2002-12 core specifications, maintenance of RAB in line with RAN LSSs, and resolutions of RLC/PDCP test RAB issues.
ARIB STD-T63-34.109	3.9.0	3.8.0	R2	Terminal logical test interface; Special conformance testing functions	Removal of uplink dummy DCCH transmission function in UE.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121	3.12.0	3.11.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	RRM test cases are developed and maintained.
ARIB STD-T63-34.123-3	3.1.0	3.0.0	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSSs)	Changes to test cases required for approval.
ARIB STD-T63-34.124	3.4.0	3.3.0	R4	Electro-Magnetic Compatibility (EMC) requirements for Mobile Terminals and ancillary equipment	Correction to radiated spurious emission measurement bandwidth was made.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.102	4.8.0	4.7.0	S	3rd Generation mobile system Release 4 specifications	Correction to list of specs; editorial corrections to spec titles
ARIB STD-T63-23.041	4.4.0	4.3.0	T2	Technical Realization of Cell Broadcast Service	Clarification of the maximum CB Data length
ARIB STD-T63-23.048	4.4.0	4.3.0	T3	Security Mechanisms for SIM Toolkit Application; Stage 2	Implementation for SMS-CB in 3G
ARIB STD-T63-23.140	4.9.0	4.8.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Conditional Usage of the Message-ID in MM1_Retrieve RES. MMS UA behaviour regarding the MMS parameters on the (U)SIM. MM4_Read_reply_report processing refers to an incorrect message
ARIB STD-T63-25.101	4.7.0	4.6.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in V3.13.0 and correction to PCH demodulation test were made.
ARIB STD-T63-25.104	4.7.0	4.6.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in V3.12.0 and correction to external equipment definition were made.
ARIB STD-T63-25.133	4.8.0	4.7.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.13.0 and correction on UE rx-tx time difference type 1 were made.
ARIB STD-T63-25.141	4.8.0	4.7.0	R4	Base station conformance testing (FDD)	Corresponding change in V3.13.0 and correction to

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
					external equipment definition were made.
ARIB STD-T63-25.214	4.6.0	4.5.0	R1	Physical layer; Measurements (FDD)	Corrects TxAA mode 1 antenna verification description.
ARIB STD-T63-25.305	4.4.0	4.3.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Update to figure 5.1, LMU terminology.
ARIB STD-T63-25.321	4.8.0	4.7.0	R2	MAC protocol specification	Setting of ciphering activation time for TM bearers, TFC Control Implementation.
ARIB STD-T63-25.423	4.8.0	4.7.0	R3	UTRAN Iur interface RNSAP signalling	Correct the miss alignment between Information Exchange Response message and the Information Report Characteristics IE and the value range 90..179 shall not be used in Orientation of Major Axis of Uncertainty Ellipse.
ARIB STD-T63-25.433	4.8.0	4.7.0	R3	UTRAN Iub interface NBAP signalling	Correct the miss alignment between Information Exchange Response message
ARIB STD-T63-26.102	4.1.0	4.0.0	S4	AMR speech Codec; Interface to Iu and Uu	AMR Rate Adaptation of Rel-4 is added.
ARIB STD-T63-26.104	4.4.0	4.3.0	S4	AMR speech Codec; Floating point C-Code	Correction to floating-point implementation of sp_dec.c is added.
ARIB STD-T63-27.007	4.6.0	4.5.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behavior of AT+CGCLASS. Correction ATV0 result codes and AT+WS46 parameter values
ARIB STD-T63-31.102	4.8.0	4.7.0	T3	Characteristics of the USIM Application	Example for MMS connectivity parameters CR to make EF-EXT1 optional in the USIM Phonebook
ARIB STD-T63-31.111	4.10.0	4.9.0	T3	USIM Application Toolkit (USAT)	3 clarifications and corrections

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.121	4.4.0	4.3.0	T3	UICC-terminal interface; USIM application test specification	File size correction Correction of PLMN coding
ARIB STD-T63-34.108	4.6.0	4.5.0	T1	Common test environments for User Equipment (UE) conformance testing	Updated to 2002-12 core specifications, maintenance of RAB in line with RAN LSs, and resolutions of RLC/PDCP test RAB issues.
ARIB STD-T63-34.109	4.5.0	4.4.0	R2	Terminal logical test interface; Special conformance testing functions	Removal of uplink dummy DCCH transmission function in UE.
ARIB STD-T63-34.124	4.2.0	4.1.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Corresponding change in V3.4.0 was made.

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.103	5.3.0	5.2.0	S	3rd Generation mobile system Release 5 specifications	Correction to list of specs; editorial corrections to spec titles
ARIB STD-T63-22.101	5.9.0	5.8.0	S1	UMTS Service principles	Clarification that whenever an ISIM is present this will be used to access the IMS. Clarification of optional usage SIM releases and that SIM in general refers to Rel 4.
ARIB STD-T63-23.041	5.1.0	5.0.0	T2	Technical Realization of Cell Broadcast Service	Clarification of the maximum CB Data length
ARIB STD-T63-23.048	5.6.0	5.5.0	T3	Security Mechanisms for the (U)SIM application toolkit; Stage 2	4 clarifications and corrections
ARIB STD-T63-23.107	5.8.0	5.7.0	S2	Quality of Service, Concept and Architecture	Signalling PDP context indication
ARIB STD-T63-23.140	5.6.0	5.5.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Transferring distribution indicator as part of message retrieval. Conditional Usage of the Message-ID in MM1_Retrieve RES. Support of the "Bcc:" information element in the MM4 reference point. MM1 MMBBox View Clarifications. M4_Read_reply_report processing refers to an incorrect message. Addition of missing field in table K6. Correcting definition of MM7 Version

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-23.207	5.7.0	5.6.0	S2	End to end quality of service concept and architecture	Removal of editors notes
ARIB STD-T63-23.228	5.8.0	5.7.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Subscribed Media P-CSCF initiated session release
ARIB STD-T63-25.101	5.6.0	5.5.0	R4	UE Radio transmission and reception (FDD)	With corresponding changes in V4.7.0, changes in phase shift due to power steps, correction to PRACH modulation quality were made. Requirement in HSDPA FRC (H-set 4 & 5), open loop Tx diversity were incorporated. Test procedure of HS-SCCH signalling error was introduced.
ARIB STD-T63-25.104	5.6.0	5.5.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in V4.7.0 and modification of the W-CDMA interfere definition in BS requirements for ACS and blocking characteristics were made.
ARIB STD-T63-25.113	5.4.0	5.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Assessment of BLER in Uplink for immunity test was introduced.
ARIB STD-T63-25.133	5.6.0	5.5.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V4.8.0, correction of measurement and reporting capability requirements in CELL_DCH states in case of parallel measurements, and changes to TFC selection requirements for codec mode switch were made.
ARIB STD-T63-25.141	5.6.0	5.5.0	R4	Base station conformance testing (FDD)	Corresponding changes in V4.8.0 as well as in the core specification (TS25.104, V5.6.0) and introduction of statistical approach for BER/BLER tests were made.
ARIB STD-T63-25.212	5.4.0	5.3.0	R1	Multiplexing and channel coding (FDD)	The mapping between the 31 decimal CQI values and the 32 binary CQI codewords is modified. Some corrections in bit scrambling of HS-DSCH. Corrects a subscript for modulation scheme information.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.213	5.3.0	5.2.0	R1	Spreading and modulation (FDD)	In 4.2.1, the index “HS” is changed to “hs”, and the channelisation code term is changed to lower case.
ARIB STD-T63-25.214	5.4.0	5.3.0	R1	Physical layer procedures (FDD)	Corrects TxAA mode 1 antenna verification description.
ARIB STD-T63-25.215	5.3.0	5.2.0	R1	Physical layer; Measurements (FDD)	The measurement “Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission” is introduced. Corrects UTRAN SIR measurement definition which is applied when a radio link set contains more than one radio link and when Rx diversity is implemented.
ARIB STD-T63-25.302	5.4.0	5.3.0	R2	Services provided by the physical layer	HCSN in TDD DL physical model, Correction on HSDPA physical channel combination.
ARIB STD-T63-25.305	5.5.0	5.4.0	R2	Stage 2 Functional specification of UE Positioning in UTRAN	Update to figure 5.1, LMU terminology.
ARIB STD-T63-25.306	5.4.0	5.3.0	R2	UE Radio Access capabilities	Network Assisted Cell Change from UTRAN to GERAN, Modification to the number of soft channel bits required for HS-DSCH (TDD).
ARIB STD-T63-25.321	5.4.0	5.3.0	R2	MAC protocol specification	Setting of ciphering activation time for TM bearers, TFC Control Implementation, TDD HCSN determination in MAC-hs, Correction to the use of Transport Block Size index equal to 111111 for TDD, Editorial changes to MAC-hs, Re-ordering entity corrections.
ARIB STD-T63-25.423	5.5.0	5.4.0	R3	UTRAN Iur interface RNSAP signalling	Clarification of HS-SCCH Power Offset usage in case of multiple HS-SCCHs, corrected that the Guaranteed DL rate shall be applied to downlink, MAC-hs Guaranteed Bit Rate IE was added in order to support Stream traffic and some clarifications for HSDPA.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.425	5.4.0	5.3.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	The mechanism of the flow control for HSDPA-Iur/Iub was clarified.
ARIB STD-T63-25.433	5.4.0	5.3.0	R3	UTRAN Iub interface NBAP signalling	Clarification of HS-SCCH Power Offset usage in case of multiple HS-SCCHs, the non HS-DSCH power measurement was added, MAC-hs Guaranteed Bit Rate IE was added in order to support Stream traffic and some clarifications for HSDPA.
ARIB STD-T63-25.435	5.4.0	5.3.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	The mechanism of the flow control for HSDPA-Iur/Iub was clarified.
ARIB STD-T63-25.453	5.5.0	5.4.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	The value of Orientation of Major Axis in Uncertainty Ellipse is changed to 0..79, Correct the miss alignment between Information Exchange Response message and the bit string in SV Global Health of GPS Almanac and Satellite Health IE was changed to from 192 to 364 bits.
ARIB STD-T63-26.073	5.1.0	5.0.0	S4	AMR speech Codec; C-source code	MMS compatible input/output option is added.
ARIB STD-T63-26.102	5.2.0	5.1.0	S4	AMR speech Codec; Interface to Iu and Uu	AMR Rate Adaptation of Rel-5 is added.
ARIB STD-T63-26.104	5.1.0	5.0.0	S4	AMR Speech codec; Floating point C-Code	Correction to floating-point implementation of sp_dec.c is carried out.
ARIB STD-T63-26.173	5.6.0	5.5.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction for handling of RX_NO_DATA frames is done.
ARIB STD-T63-26.204	5.1.0	5.0.0	S4	ANSI-C code for the floating-point Adaptive Multi-Rate(AMR) wideband speech codec	Ambiguous expressions in the AMR-WB Floating-point C-Code is corrected.
ARIB STD-T63-26.234	5.4.0	5.3.0	S4	End-to-end transparent streaming service; Protocols and codecs	Correction of signalling frame size for H.263 in SDP is carried out.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.236	5.2.0	5.1.0	S4	Packet switched conversational multimedia applications; Transport protocols	SDP bandwidth modifier for RTCP bandwidth is added. Correction on QoS profile parameters for conversational multimedia applications is carried out.
ARIB STD-T63-27.007	5.3.0	5.2.0	T2	AT command set for 3G User Equipment (UE)	Clarification in the behavior of AT+CGCLASS. Correction ATV0 result codes and AT+WS46 parameter values
ARIB STD-T63-31.102	5.4.0	5.3.0	T3	Characteristics of the USIM Application	Example for MMS connectivity parameters CR to make EF-EXT1 optional in the USIM Phonebook
ARIB STD-T63-31.103	5.3.0	5.2.0	T3	Characteristics of the ISIM Application	Alignment with the Stage 2 terminology
ARIB STD-T63-31.111	5.4.0	5.3.0	T3	USIM Application Toolkit (USAT)	5 clarifications and corrections
ARIB STD-T63-31.113	5.5.0	5.4.0	T3	USAT interpreter byte codes	Several Corrections
ARIB STD-T63-31.114	5.3.0	5.2.0	T3	USAT interpreter protocol and administration	Correction on Byte Code List Value
ARIB STD-T63-33.108	5.3.0	5.2.0	S3	3G security; Handover interface for Lawful interception	Coding of ASN.1 parameters of the type OCTET STRING Incorrect ASN.1 object tree Correction to implementation of CR 005
ARIB STD-T63-33.203	5.5.0	5.4.0	S3	3G security; Access security for IP-based services	5 clarifications & corrections
ARIB STD-T63-33.210	5.3.0	5.2.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Za-interface and roaming agreements Clarification to the re-keying aspects of network domain security
ARIB STD-T63-34.109	5.3.0	5.2.0	R2	Terminal logical test interface; Special conformance testing functions	Removal of uplink dummy DCCH transmission function in UE.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.40	Version at ARIB STD-T63 Ver.3.30	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-1	5.3.0	5.2.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Updated to 2002-12 core specifications, removal of RRC reconfiguration and state transition tests cases with no coverage impact, addition of test cases for security and PS NAS, and added test method and support DSCH testing.
ARIB STD-T63-34.123-2	5.3.0	5.2.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Aligned with 34.123-1 (V.5.3.0)
ARIB STD-T63-34.124	5.3.0	5.2.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Corresponding change in V4.2.0 was made.

(Annex 14)

3GPP ARIB Change history List of Standards Ver. 3.50

16 October 2003

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.12.0	3.11.0	S	Technical Specifications and Technical Reports for UTRAN-based 3GPP system	Correction to list of specs Change spec title to make it release-independent
ARIB STD-T63-22.038	3.3.0	3.2.0	S1	USIM/SIM Application Toolkit (SAT); service description Stage 1	Modifications or suppressions of some requirements in order to align the Stage 1 with the Stage 3.
ARIB STD-T63-22.101	3.14.0	3.13.0	S1	Service Aspects ; Service principles	Subclause 8.1 requirements are removed and the title is changed to be more informative
ARIB STD-T63-23.040	3.10.0	3.9.0	T2	Technical realisation of Short Message Service	Missing SMSs over MSC even if the MS is capable of such sending
ARIB STD-T63-23.171	3.10.0	3.9.0	S2	Functional stage 2 description of location services in UMTS	Incorporation of the following CR, approved at SA#20: CR029r2 Exception procedures in 23.171
ARIB STD-T63-25.101	3.14.0	3.13.0	R4	UE Radio transmission and reception (FDD)	Correction of Initial convergence requirements and correction of SSDT performance requirements were made.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.133	3.14.0	3.13.0	R4	Requirements for Support of Radio Resource Management (FDD)	Correction of soft handover test case, correction reporting of neighbours in AWGN propagation condition, correction to SFN-SFN observed time difference type 1, correction to CPCH RSCP test case A.9.1.1, correction to RRC re-establishment delay test case in section A.6.1, TGPL limitations for inter-frequency measurements and correction to SFN-CFN observed time difference were made.
ARIB STD-T63-25.215	3.12.0	3.11.0	R1	Physical layer - Measurements (FDD)	The transmitted carrier power in case of Tx diversity is corrected.
ARIB STD-T63-25.304	3.13.0	3.12.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to cell selection to include RRC connected mode
ARIB STD-T63-25.305	3.9.0	3.8.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Handling of UP assistance data
ARIB STD-T63-25.306	3.8.0	3.7.0	R2	UE Radio Access capabilities definition	Extension of 32 kbps UE capability class
ARIB STD-T63-31.102	3.13.0	3.12.0	T3	Characteristics of the USIM Application	Corrections and clarifications Clarification on the support of extra guardtime
ARIB STD-T63-31.121	3.6.0	3.5.0	T3	Terminal tests for the UICC Interface; Part2	Correction of acceptance criteria
ARIB STD-T63-34.108	3.12.0	3.11.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Maintenance of default message contents and procedures is in line with March 03 core specification
ARIB STD-T63-34.121	3.13.0	3.12.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Several corrections, mainly in RRM section, were made for maintenance purpose.
ARIB STD-T63-34.123-3	3.2.1	3.1.0	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites	TTCN test cases are verified to Mar 02 baseline.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
				(ATSS)	

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121	4.0.0		T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Newly created from V3.12.0

2.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.9.0	4.8.0	S	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Renumber from 21.102 to 21.101
ARIB STD-T63-22.101	4.7.0	4.6.0	S1	UMTS Service principles	The requirements in subclause 9.3 are removed. The title of 9.3 is also changed to be more informative.
ARIB STD-T63-23.140	4.10.0	4.9.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Updating references Correction of RFC 2821 reference
ARIB STD-T63-25.101	4.8.0	4.7.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in V3.14.0 were made.
ARIB STD-T63-25.133	4.9.0	4.8.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.14.0 were made.
ARIB STD-T63-25.215	4.7.0	4.6.0	R1	Physical layer; Measurements (FDD)	The transmitted carrier power in case of Tx diversity is corrected.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.304	4.7.0	4.6.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to cell selection process to include RRC connected mode
ARIB STD-T63-25.305	4.5.0	4.4.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Handling of UP assistance data
ARIB STD-T63-25.306	4.7.0	4.6.0	R2	UE Radio Access capabilities	Extension of 32 kbps UE capability class
ARIB STD-T63-25.423	4.9.0	4.8.0	R3	UTRAN Iur interface RNSAP signalling	Alignment of the Requested Data Value Information IE description GPS trigger condition Correction of Failure message used for logical errors
ARIB STD-T63-25.433	4.9.0	4.8.0	R3	UTRAN Iub interface NBAP signalling	Alignment of the Requested Data Value Information IE description GPS trigger condition Correction of Failure message used for logical errors
ARIB STD-T63-26.104	4.5.0	4.4.0	S4	AMR speech Codec; Floating point C-Code	Correction on codec mode handling during DTX is done.
ARIB STD-T63-31.102	4.9.0	4.8.0	T3	Characteristics of the USIM Application	Correction of the MMS example Corrections and clarifications Clarification on the support of extra guardtime
ARIB STD-T63-31.121	4.5.0	4.4.0	T3	UICC-terminal interface; USIM application test specification	Correction of acceptance criteria
ARIB STD-T63-34.108	4.7.0	4.6.0	T1	Common test environments for User	Maintenance of default message contents and procedures

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
				Equipment (UE) conformance testing	is in line with March 03 core specification

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121	5.0.0		T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Newly created from V3.12.0 and modifying modulation accuracy requirements.

3.2. Revised Standards

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.4.0	5.3.0	S	3rd Generation mobile system Release 5 specifications	Renumber from 21.103 to 21.101
ARIB STD-T63-22.038	5.3.0	5.2.0	S1	USIM/SIM Application Toolkit (USAT/SAT);Service description Stage 1	Modifications or suppressions of some requirements in order to align the Stage 1 with the Stage 3.
ARIB STD-T63-22.101	5.10.0	5.9.0	S1	UMTS Service principles	The requirements in subclause 10.3 are removed. The title is changed to be more informative. The requirements in chapter 11 are shifted to a new chapter 11a (Identification Requirements). The sub-chapter "User / USIM identification" has been renamed "Subscriber Identification" and clarified. Re-establishment of the requirement for the network to be able to support UEs containing a SIM.
ARIB STD-T63-23.040	5.6.0	5.5.1	T2	Technical realisation of Short Message	Missing SMSs over MSC even if the MS is capable of such

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
				Service(SMS)	sending
ARIB STD-T63-23.048	5.7.0	5.6.0	T3	Security Mechanisms for the (U)SIM application toolkit; Stage 2	Correction of the 'System Parameters constructed value field'
ARIB STD-T63-23.107	5.9.0	5.8.0	S2	Quality of Service, Concept and Architecture	Transfer Delay definition QoS Signalling indicator handling Max SDU Size and MTU clarification Generic UMTS QoS model
ARIB STD-T63-23.140	5.7.0	5.6.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Updating references Correction of RFC 2821 reference
ARIB STD-T63-23.207	5.8.0	5.7.0	S2	End to end quality of service concept and architecture	Handling of IMS signalling information in QoS and PCO IEs at GGSN
ARIB STD-T63-23.228	5.9.0	5.8.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Barring and roaming restrictions, Guidelines for the UE to apply IPv6 privacy mechanism in conjunction with IMS, Handling of IMS signalling information in QoS and PCO IEs at GGSN, Implicit Registration with multiple Service Profiles, IMS corrections, S-CSCF requirements at registration
ARIB STD-T63-25.101	5.7.0	5.6.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in V3.14.0, correction of TPC dynamic range in tests using DPCH as a phase reference and removal of some of the FRC test cases with PA3 channel were made. Maximum input power, HSDPA CQI test, HSDPA CQI test in fading, HS-SCCH performance, and HSDPA FRC performance with closed loop transmit diversity were introduced.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	5.7.0	5.6.0	R4	UTRA (BS) FDD; Radio transmission and reception	General correction and alignment on co-existence and co-location requirements and addition of requirements for the protection of UTRA-FDD BS receiver operating in band I (III) in co-existence with UTRA-FDD BS operating in other bands were made.
ARIB STD-T63-25.133	5.7.0	5.6.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.14.0 and correction to Observed time difference to GSM cell requirement were made.
ARIB STD-T63-25.141	5.7.0	5.6.0	R4	Base station conformance testing (FDD)	Correction and alignment on co-existence and co-location test requirements and addition of requirements for the protection of UTRA-FDD BS receiver operating in band I (III) in co-existence with UTRA-FDD BS operating in other bands were made.
ARIB STD-T63-25.211	5.4.0	5.3.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	In section 7.7, T_{TX_diff} is described correctly, and the possible values are explicitly indicated. Figures 26A and 26B are corrected.
ARIB STD-T63-25.212	5.5.0	5.4.0	R1	Multiplexing and channel coding (FDD)	In section 4.3.4, the equation representing the bit position of TFCI output code word is changed to indicate the correct bit position. In section 4.4.2, it is clarified that the TPC command and the pilot field shall be STTD encoded in the transmission gap.
ARIB STD-T63-25.214	5.5.0	5.4.0	R1	Physical layer procedures (FDD)	The TPC command combining method for algorithm 2 is corrected. The reference power for HS-DPCCH is clarified, and the equation of " β_{HS} " in compressed frames is corrected. HS-SCCH reception in case of minimum interTTI interval is not 1 is clarified. The description of CQI transmission timing calculation is corrected.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.215	5.4.0	5.3.0	R1	Physical layer; Measurements (FDD)	The transmitted carrier power in case of Tx diversity is corrected. The transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission in case of Tx diversity is also corrected.
ARIB STD-T63-25.302	5.5.0	5.4.0	R2	Services provided by the physical layer	Measurements on HS-SICH for UTRA TDD, Power Measurement in non HSDPA codes for TDD
ARIB STD-T63-25.304	5.3.0	5.2.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to cell selection process to include RRC connected mode
ARIB STD-T63-25.305	5.6.0	5.5.0	R2	Stage 2 Functional specification of UE Positioning in UTRAN	Handling of UP assistance data, Addition of Position Method Used, to attributes returned with position estimate
ARIB STD-T63-25.306	5.5.0	5.4.0	R2	UE Radio Access capabilities	Extension of 32 kbps UE capability class, Correction of maximum transport block sizes for UE categories, SF1 corrections for TDD
ARIB STD-T63-25.321	5.5.0	5.4.0	R2	MAC protocol specification	Text clean up of the description of the reordering entity, MAC header for DTCH and DCCH mapped to HS-DSCH
ARIB STD-T63-25.401	5.6.0	5.5.0	R3	UTRAN Overall Description	Correction to HS-DSCH transport in case of SRNC not coincident with DRNC and without flow control in the DRNC
ARIB STD-T63-25.402	5.2.0	5.1.0	R3	Synchronisation in UTRAN Stage 2	Removal of the Frequency Acquisition for Late-Entrant Cells for 1.28Mcps TDD
ARIB STD-T63-25.423	5.6.0	5.5.0	R3	UTRAN Iur interface RNSAP signalling	HSDPA General Corrections Alignment of the Requested Data Value Information IE description Correction to HARQ Memory Partitioning

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
					Other essential correction
ARIB STD-T63-25.425	5.5.0	5.4.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Clarification of Capacity Allocation Interval Definition Correction for the HS-DSCH frame structure
ARIB STD-T63-25.433	5.5.0	5.4.0	R3	UTRAN Iub interface NBAP signalling	HSDPA General Corrections Alignment of the Requested Data Value Information IE description Correction to HARQ Memory Partitioning Other essential correction
ARIB STD-T63-25.435	5.5.0	5.4.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Correction for the HS-DSCH frame structure Power setting for multiplexed DSCH data frames Clarification of Capacity Allocation Interval Definition S-CCPCH power settings in case of no data transmission
ARIB STD-T63-25.453	5.6.0	5.5.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	GPS trigger condition “On Modification” and “Periodic” reporting alignment for Information Exchange procedures CR on Information Exchange Initiation Request for GPS Navigation Model CR on Information Report of GPS Almanac and Satellite Health Other essential correction
ARIB STD-T63-26.077	5.0.1	5.0.0	S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Correct spelling mistake in title is done.

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
ARIB STD-T63-26.104	5.2.0	5.1.0	S4	AMR Speech codec; Floating point C-Code	Correction on codec mode handling during DTX is done.
ARIB STD-T63-26.111	5.1.0	5.0.0	S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Removal of Reference to 26.112 is done.
ARIB STD-T63-26.173	5.7.1	5.6.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	MMS compatible input/output option for fixed-point AMR- WB source code is carried out.
ARIB STD-T63-26.234	5.5.0	5.4.0	S4	End-to-end transparent streaming service; Protocols and codecs	Correction to the Content Model of the SMIL Language Profile is done.
ARIB STD-T63-26.236	5.3.0	5.2.0	S4	Packet switched conversational multimedia applications; Transport protocols	Examples of QoS profiles for conversational multimedia applications is done.
ARIB STD-T63-31.102	5.5.0	5.4.0	T3	Characteristics of the USIM Application	Correction of the MMS example Corrections and clarifications Clarification on the support of extra guardtime Clarification on SIM support by R5 terminal
ARIB STD-T63-31.103	5.4.0	5.3.0	T3	Characteristics of the ISIM Application	Clarification that the home operator's network domain name is a SIP URI. Clarification on the support of extra guardtime
ARIB STD-T63-33.102	5.2.0	5.1.0	S3	3G Security Architecture	Handling of START values stored on a ME for use with a SIM
ARIB STD-T63-33.108	5.4.0	5.3.0	S3	3G security; Handover interface for Lawful interception	Correction to implementation of CR 005
ARIB STD-T63-33.203	5.6.0	5.5.0	S3	3G security; Access security for IP-based services	Annex H: Alignment of Authentication algorithm handling with RFC3329

Changed Standard Number	Version at ARIB STD-T63 Ver.3.50	Version at ARIB STD-T63 Ver.3.40	3GPP WG	Title	Change Summary
					Clarification on USIM-based access to IMS
ARIB STD-T63-33.210	5.4.0	5.3.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Use of IPsec ESP with encryption on the Za-interface
ARIB STD-T63-34.123-1	5.4.0	5.3.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Inter RAT test cases have been added and the specification has been updated in line with Mar 03 core specifications
ARIB STD-T63-34.123-2	5.4.0	5.3.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Updated to reflect changes in 34.123 – 1

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	3.15.0	3.14.0	S1	Service Aspects ; Service principles	Modified so that 112 and 911 are optionally identified as emergency numbers in addition to the numbers on the SIM/USIM and a note added to clarify the usage of emergency numbers stored in the UE.
ARIB STD-T63-25.101	3.15.0	3.14.0	R4	UE Radio transmission and reception (FDD)	Test conditions for Power control in the downlink, initial convergence was corrected.
ARIB STD-T63-25.133	3.15.0	3.14.0	R4	Requirements for Support of Radio Resource Management (FDD)	Correction of cell selection procedure was made and definition of "Out of Service area" was clarified accordingly.
ARIB STD-T63-25.302	3.16.0	3.15.0	R2	Services provided by the physical layer	Correction to FDD downlink transport channel combinations for SCCPCH
ARIB STD-T63-25.305	3.10.0	3.9.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to UE Positioning privacy procedures, Alignment with 25.331 regarding A-GPS assistance data, UE positioning support in the UE

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.306	3.9.0	3.8.0	R2	UE Radio Access capabilities definition	Correction of Maximum hc context space capability, UE positioning support in the UE
ARIB STD-T63-25.321	3.16.0	3.15.0	R2	Medium Access Control (MAC) protocol specification	TFCS selection guidelines for TFC Subset
ARIB STD-T63-25.423	3.14.0	3.13.0	R3	UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling	Correction to Tx Diversity
ARIB STD-T63-25.433	3.14.0	3.13.0	R3	UTRAN Iub interface NBAP signalling	Correction to Tx Diversity
ARIB STD-T63-31.102	3.14.0	3.13.0	T3	Characteristics of the USIM Application	-Turnaround Time -Removal of phonebook synchronization -Removal of reference to 02.07 -Clarification of “free entry in EF_EXT1/EF_EXT4 -Correction to the description of mandatory SF1 -Corrections on files for support of GSM services using USIM/NIA, using USIM-ASCII Files -Alignment of EF_HPLMN Search period with 22.011 and 23.122
ARIB STD-T63-31.121	3.7.0	3.6.0	T3	UICC-Terminal Interface; Application Test Specification	Usage of 3G PDU definition for UEs accessing UTRAN
ARIB STD-T63-34.108	3.13.0	3.12.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Several corrections were made for maintenance purpose.
ARIB STD-T63-34.121	3.14.0	3.13.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Delete the technical content of 34.121 Rel 99 and replace it by a pointer to the gathered releases document.

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-3	3.3.0	3.2.1	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Moving baseline from March 02 to March 03. Several corrections and test case additions were also made.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	4.5.0	4.4.0	S1	Location Services (LCS); Stage 1	The requirement for identification of a LCS client by APN is removed.
ARIB STD-T63-22.101	4.8.0	4.7.0	S1	Service aspects; Service principles	Modified so that 112 and 911 are optionally identified as emergency numbers in addition to the numbers on the SIM/USIM and a note added to clarify the usage of emergency numbers stored in the UE.
ARIB STD-T63-25.101	4.9.0	4.8.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V3.15.0 was made.
ARIB STD-T63-25.133	4.10.0	4.9.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in V3.15.0 was made.
ARIB STD-T63-25.302	4.8.0	4.7.0	R2	Services provided by the physical layer	Correction to FDD downlink transport channel combinations for SCCPCH
ARIB STD-T63-25.305	4.6.0	4.5.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to UE Positioning privacy procedures, Alignment with 25.331 regarding A-GPS assistance data
ARIB STD-T63-25.306	4.8.0	4.7.0	R2	UE Radio Access capabilities	Correction of Maximum hc context space capability, UE positioning support in the UE, Definition of minimum UE capability class

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	4.9.0	4.8.0	R2	Medium Access Control (MAC) protocol specification	TFCS selection guidelines for TFC Subset
ARIB STD-T63-25.423	4.10.0	4.9.0	R3	UTRAN Iur interface RNSAP signalling	Correction to Tx Diversity "On Modification" and "Periodic" reporting alignment for Information Exchange procedures.
ARIB STD-T63-25.433	4.10.0	4.9.0	R3	UTRAN Iub interface NBAP signalling	Correction to Tx Diversity "On Modification" and "Periodic" reporting alignment for Information Exchange procedures.
ARIB STD-T63-31.102	4.10.0	4.9.0	T3	Characteristics of the USIM Application	-Turnaround Time -Removal of phonebook synchronization -Removal of reference to 02.07 -Clarification of "free entry in EF_EXT1/EF_EXT4 -Correction to the description of mandatory SF1 -Corrections on files for support of GSM services using USIM/NIA, using USIM-ASCII Files -Alignment of EF_HPLMN Search period with 22.011 and 23.122
ARIB STD-T63-31.111	4.11.0	4.10.0	T3	USIM Application Toolkit (USAT)	-Update of the PROVIDE LOCAL INFORMATION functionality. -Correction of Provide Local Information in case of roaming onto a GSM access network
ARIB STD-T63-31.121	4.6.0	4.5.0	T3	UICC-Terminal Interface; Application Test Specification	Usage of 3G PDU definition for UEs accessing UTRAN
ARIB STD-T63-34.108	4.8.0	4.7.0	T1	Common test environments for User Equipment (UE) conformance testing	Several corrections were made for maintenance purpose.

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121	4.1.0	4.0.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Delete the technical content of 34.121 Rel 4 and replace it by a pointer to the gathered releases document.

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	5.2.0	5.1.1	S1	Location Services (LCS); Stage 1	The requirement for identification of a LCS client by APN is removed.
ARIB STD-T63-22.101	5.11.0	5.10.0	S1	UMTS Service principles	Remove limitation of IMS access to R99/Rel-4 USIMs, and clarification that when ISIM is available it shall be used. Add note to sections 13.1.3 and 14 to recommend SIM support in Rel-5 terminals. Modified so that 112 and 911 are identified as emergency numbers in addition to the numbers on the SIM/USIM list. Note added to clarify the usage of emergency numbers stored in the UE. Also usage of additional emergency numbers downloaded from the serving network clarified.
ARIB STD-T63-23.040	5.6.1	5.6.0	T2	Technical realisation of Short Message Service(SMS)	Reinstating of corrupted figures 15g and 15h
ARIB STD-T63-23.107	5.10.0	5.9.0	S2	Quality of Service, Concept and Architecture	-Support the maximum bit rate for HSDPA -Correction to RAB service attributes table -Priority of signaling PDP

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-23.140	5.8.0	5.7.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Correction of "Date" to "Time Stamp" in MM7 Schema
ARIB STD-T63-23.228	5.10.0	5.9.0	S2	IP Multimedia Subsystem(IMS); Stage 2	-IMS corrections -UE in a visited Network with a P-CSCF located in the Home network -Correction to Network initiated session release -IMS-SIP interworking
ARIB STD-T63-25.101	5.8.0	5.7.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V3.15.0 was made. Also, introduction of requirement t on transmitter characteristics for HS-DPCCH and correction of power terms and definitions were made.
ARIB STD-T63-25.133	5.8.0	5.7.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in V3.15.0 was made. Corrections of accuracy requirement of non-HSDPA transmit carrier power measurement and FDD inter-frequency cell identification were made.
ARIB STD-T63-25.211	5.5.0	5.4.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The combination of TxAA Mode 1 and HS-SCCH is removed.
ARIB STD-T63-25.212	5.6.0	5.5.0	R1	Multiplexing and channel coding (FDD)	A new chapter about requirements for single transport format detection is added. The conditions under which UEs are required to perform BTFD are broadened for the case where the UE receives HS-DSCH.
ARIB STD-T63-25.213	5.4.0	5.3.0	R1	Spreading and modulation (FDD)	The description of the 16QAM modulation mapping is clarified.
ARIB STD-T63-25.214	5.6.0	5.5.0	R1	Physical layer procedures (FDD)	The combination of TxAA Mode 1 and HS-SCCH is removed. Transport block size 17300 is to be corrected to 17237. It is clarified that transmit power scaling is done at only the DPCCH slot boundary. UE behaviours are clarified when receiving HS-SCCH and when reporting

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
					CQI. A section is added to the informative annex in order to clarify the expected Node B behaviour during loss of RL synchronisation.
ARIB STD-T63-25.215	5.5.0	5.4.0	R1	Physical layer; Measurements (FDD)	The concept of cell portion is introduced. The UTRAN measurement for SIR is extended to be made also per cell portion to support beamforming functionality.
ARIB STD-T63-25.302	5.6.0	5.5.0	R2	Services provided by the physical layer	Correction to FDD downlink transport channel combinations for SCCPCH, Correcting model of the UE's physical layer regarding DCH with HS-DSCH
ARIB STD-T63-25.305	5.7.0	5.6.0	R2	Stage 2 Functional specification of UE Positioning in UTRAN	Correction to UE Positioning privacy procedures, Alignment with 25.331 regarding A-GPS assistance data
ARIB STD-T63-25.306	5.6.0	5.5.0	R2	UE Radio Access capabilities	Correction of Maximum hc context space capability, UE positioning support in the UE, Definition of minimum UE capability class, Addition of memory unit in UE Radio Access Capabilities tables
ARIB STD-T63-25.321	5.6.0	5.5.0	R2	MAC protocol specification	TFCS selection guidelines for TFC Subset, MAC-hs Re-ordering Protocol Correction & MAC-hs window re-ordering, Addition of HS-DSCH Provided Bit Rate measurement
ARIB STD-T63-25.423	5.7.0	5.6.0	R3	UTRAN Iur interface RNSAP signalling	Discard timer signalling for HSDPA Phase Reference Signalling Support MAC-hs Reordering Buffer Size Correction of the Measurement Increase/Decrease Threshold IE "On Modification" and "Periodic" reporting alignment for Information Exchange procedures Coordination with RRC about the TFS of DL DCH for HS-DSCH

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
					Alignment of title and sub-clause text of chapter 10.3.4.2 Corrections on Uplink Signalling Transfer Etc.
ARIB STD-T63-25.424	5.2.0	5.1.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Handling of maximum bit rate exceeding 2048kbit/s
ARIB STD-T63-25.426	5.3.0	5.2.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Handling of maximum bit rate exceeding 2048kbit/s
ARIB STD-T63-25.427	5.2.0	5.1.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Coordination with RRC about the TFS of DL DCH for HS-DSCH
ARIB STD-T63-25.433	5.6.0	5.5.0	R3	UTRAN Iub interface NBAP signalling	Discard timer signalling for HSDPA Phase Reference Signalling Support HS-DSCH Priority Queue to Modify MAC-hs Reordering Buffer Size Correction of HS-SCCH Code IE “On Modification” and “Periodic” reporting alignment for Information Exchange procedures Coordination with RRC about the TFS of DL DCH for HS-DSCH Alignment of title and sub-clause text of chapter 10.3.4.2 Corrections on Uplink Signalling Transfer Etc.
ARIB STD-T63-25.434	5.2.0	5.1.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Handling of maximum bit rate exceeding 2048kbit/s

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.453	5.7.0	5.6.0	R3	UTRAN Iu-PS interface Positioning Calculation Application Part (PCAP) signalling	Correction to an incorrect implementation in the Requested Data Value Information IE Alignment of title and sub-clause text of chapter 10.3.4.2
ARIB STD-T63-26.073	5.2.0	5.1.0	S4	AMR speech Codec; C-source code	Correction of the MMS_IO flag is done.
ARIB STD-T63-26.132	5.4.0	5.3.0	S4	Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification	Loudness rating measurements at lower bit rates is corrected.
ARIB STD-T63-26.173	5.8.0	5.7.1	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Possible decoder LPC coefficients overflow is corrected.
ARIB STD-T63-26.204	5.2.0	5.10	S4	ANSI-C code for the floating-point Adaptive Multi-Rate - Wideband (AMR-W) speech codec	Possible decoder LPC coefficients overflow is corrected.
ARIB STD-T63-26.234	5.6.0	5.5.0	S4	End-to-end transparent streaming service; Protocols and codecs	-Correction on session bandwidth for RS and RR RTCP modifiers is done. -Correction of ambiguous range headers in SDP is done. -Correction of ambiguity in RTP timestamps handling after PAUSE/PLAY RTSP requests is done. -Timed-Text layout example is added. -Correction of obsolete RTP references is done. Correction of wrong reference is done. -Missing signaling of live content is added.
ARIB STD-T63-26.236	5.4.0	5.3.0	S4	Packet switched conversational multimedia applications; Transport protocols	-Correction of obsolete RTP references is done. -Correction of wrong reference is done.
ARIB STD-T63-27.007	5.4.0	5.3.0	T2	AT command set for 3G User Equipment (UE)	Adding reference to 24.008 for the 3G QoS AT-commands

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-28.062	5.4.0	5.3.0	S4	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	Removal of Pre-Handover Notification for UMTS is done.
ARIB STD-T63-31.102	5.6.0	5.5.0	T3	Characteristics of the USIM Application	Turnaround Time -Removal of phonebook synchronization -Removal of reference to TS02.07 -Clarification of “free entry in EF_EXT1/EF_EXT4 -Correction to the description of mandatory SF1 -Corrections on files for support of GSM services using USIM/NIA, using USIM-ASCII Files -Alignment of EF_HPLMN Search period with 22.011 and 23.122
ARIB STD-T63-31.111	5.5.0	5.4.0	T3	USIM Application toolkit (USAT)	-Cell Broadcast Data Download
ARIB STD-T63-33.102	5.3.0	5.2.0	S3	3G Security Architecture	-IMEISV retrieval before completion of security mode setup procedure -Mitigation against a man-in-the-middle attack associated with early UE handling
ARIB STD-T63-33.107	5.6.0	5.5.0	S3	3G security; Lawful interception architecture and functions	Missing QoS Parameter in IRI
ARIB STD-T63-33.108	5.5.0	5.4.0	S3	3G security; Handover interface for Lawful interception	-Syntax error in Annex B.3 -Reference errors in Annex G
ARIB STD-T63-33.203	5.7.0	5.6.0	S3	3G security; Access security for IP-based services	-Modification of the security association lifetime management -Annex H in 33.203 -Security association handling, behaviour of SIP over TCP and re-authentication

Revised Standard Number	Version at ARIB STD-T63 Ver.3.60	Version at ARIB STD-T63 Ver.3.50	3GPP WG	Title	Change Summary
ARIB STD-T63-33.210	5.5.0	5.4.0	S3	3G security; Network Domain Security (NDS); IP network layer security	-Change of IKE profiling -Update draft-ietf-ipsec-sctp-03.txt reference to new standard RFC: RFC 3554
ARIB STD-T63-34.121	5.1.1	5.1.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Complete CR266 – “Test Requirements for RRM CPICH RSCP Intra Frequency Measurement” – implementation.
ARIB STD-T63-34.123-1	5.5.0	5.4.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Several corrections were made for maintenance purpose.
ARIB STD-T63-34.123-2	5.5.0	5.4.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Several corrections, mainly for TDD 1.28 Mcps, were made for maintenance purpose.

1. Release 99**1.1. Added Standards**

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.307	3.2.0		R2	Requirements on UEs supporting a release-independent frequency band	The present document specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release.

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
ARIB STD-T63-22.038	3.4.0	3.3.0	S1	USIM Application Toolkit (USAT); Service description	The requirement for the Toolkit to request an emergency call set up is added. The text is added to the currently Void Clause 12.
ARIB STD-T63-22.101	3.16.0	3.15.0	S1	Service Aspects ; Service principles	Numbers 000, 08, 110 and 999 are removed from the list of emergency numbers that shall be stored in the ME (and used when SIM/USIM is present but does not contain emergency numbers).

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	3.16.0	3.15.0	R4	UE Radio transmission and reception (FDD)	Correction of W-CDMA modulated interferer definition was made.
ARIB STD-T63-25.133	3.16.0	3.15.0	R4	Requirements for Support of Radio Resource Management (FDD)	Correction of GSM test case on correct reporting of GSM neighbors, correction to Random Access test case and correction of CPICH Ec/Io relative accuracy were made.
ARIB STD-T63-25.213	3.9.0	3.8.0	R1	Spreading and modulation (FDD)	It is clarified that no more than one secondary scrambling code for one CCTrCH is allowable in downlink.
ARIB STD-T63-25.305	3.11.0	3.10.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to Location Reporting procedure
ARIB STD-T63-25.306	3.10.0	3.9.0	R2	UE Radio Access capabilities definition	Definition of minimum UE capability class, TDD Radio Access Parameters for UL 32kbs class UE's
ARIB STD-T63-25.425	3.8.0	3.7.0	R3	UTRAN Iur Interface User Plane Protocols for Common Transport Channel Data Streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.427	3.11.0	3.10.0	R3	UTRAN Iur and Iub Interface User Plane Protocols for DCH Data Streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.435	3.11.0	3.10.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-31.102	3.15.0	3.14.0	T3	Characteristics of the USIM Application	• Removal of references to TS 02.07 • Correction of T=0 protocol parameters • Corrections on files for support of GSM services using USIM / NIA • Support of GSM services on USIM • Corrections on files for support of GSM services using USIM - ASCI Files • Alignment of EF-HPLMN Search Period with 22.011 and 23.122 • Correction of SFI support • Correction to the description of mandatory SFIs

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					• Clarification of "free" entry in EF_EXT1/EF_EXT4 • Alignment of EF-HPLMN Search Period with 22.011 and 23.122
ARIB STD-T63-31.111	3.11.0	3.10.0	T3	USIM Application Toolkit (USAT)	Clarification on user confirmation for OPEN CHANNEL
ARIB STD-T63-31.122	3.7.0	3.6.0	T3	UICC Test Specification	Editorial Corrections
ARIB STD-T63-34.108	3.14.0	3.13.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	- Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND - Test frequencies of UMTS800MHz band VI - Update of generic test procedure for TX, RX and Performance Requirement - Introduction of generic test procedure for RRM handover test cases - Modification to default DPCCH_Power_offset value etc.
ARIB STD-T63-34.123-3	3.4.0	3.3.0	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	- ASP changes and MMI string corrections - Security ASP changes - Updating Annex A

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.307	4.2.0		R2	Requirements on UEs supporting a release-independent frequency band	The present document specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release.

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.10.0	4.9.0	S1	3rd Generation mobile system Release 4 specifications	Deletes 25.942
ARIB STD-T63-22.038	4.5.0	4.4.0	S1	USIM Application Toolkit (USAT); Service description	The requirement for the Toolkit to request an emergency call set up is added. The text is added to the currently Void Clause 12.
ARIB STD-T63-22.101	4.9.0	4.8.0	S1	Service aspects; Service principles	Numbers 000, 08, 110 and 999 are removed from the list of emergency numbers that shall be stored in the ME (and used when SIM/USIM is present but does not contain emergency numbers).

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	4.10.0	4.9.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V3.16.0 was made.
ARIB STD-T63-25.133	4.11.0	4.10.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.16.0 were made.
ARIB STD-T63-25.213	4.4.0	4.3.0	R1	Spreading and modulation (FDD)	It is clarified that no more than one secondary scrambling code for one CCTrCH is allowable in downlink.
ARIB STD-T63-25.305	4.7.0	4.6.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Correction to Location Reporting procedure
ARIB STD-T63-25.306	4.9.0	4.8.0	R2	UE Radio Access capabilities	Definition of minimum UE capability class, TDD Radio Access Parameters for UL 32kbs class UE's
ARIB STD-T63-25.423	4.11.0	4.10.0	R3	UTRAN Iur interface RNSAP signalling	The correction to the Information Exchange Initiation behaviour.
ARIB STD-T63-25.425	4.4.0	4.3.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.427	4.5.0	4.4.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.433	4.11.0	4.10.0	R3	UTRAN Iub interface NBAP signalling	Correction of wrong number in GPS Timing calculation. Correction of Node B synchronisation procedures. The correction to the Information Exchange Initiation behaviour. Extension of Requested Data Value IE.
ARIB STD-T63-25.435	4.6.0	4.5.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-31.102	4.11.0	4.10.0	T3	Characteristics of the USIM Application	• Removal of references to TS 02.07 • Correction of T=0 protocol parameters • Corrections on files for support of GSM services using

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					USIM / NIA • Support of GSM services on USIM • Corrections on files for support of GSM services using USIM - ASCII Files • Alignment of EF-HPLMN Search Period with 22.011 and 23.122 • Correction of SFI support • Correction to the description of mandatory SFIs • Clarification of "free" entry in EF_EXT1/EF_EXT4 • Alignment of EF-HPLMN Search Period with 22.011 and 23.122
ARIB STD-T63-34.108	4.9.0	4.8.0	T1	Common test environments for User Equipment (UE) conformance testing	-Addition of Default message contents for TDD - Test frequencies of UMTS800MHz band VI - Update of generic test procedure for TX, RX and Performance Requirement - Introduction of generic test procedure for RRM handover test cases - Modification to default DPCCH_Power_offset value. etc.

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.307	5.1.0		R2	Requirements on UEs supporting a release-independent frequency band	The present document specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.5.0	5.4.0	S1	3rd Generation mobile system Release 5 specifications	Adds 23.110, 31.121, 34.122, 34.902. Deletes 25.867, 25.876, 25.890.
ARIB STD-T63-22.101	5.12.0	5.11.0	S1	Service Aspects; Service principles	Numbers 000, 08, 110 and 999 are removed from the list of emergency numbers that shall be stored in the ME (and used when SIM/USIM is present but does not contain emergency numbers).
ARIB STD-T63-22.038	5.4.0	5.3.0	S1	USIM Application Toolkit (USAT); Service description	The requirement for the Toolkit to request an emergency call set up is added. The text is added to the currently Void Clause 12.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					Definition of Cell Broadcast as a bearer for USAT applications in UTRAN networks.
ARIB STD-T63-23.041	5.2.0	5.1.0	T2	Technical Realization of Cell Broadcast Service	Clarify CB Data structure
ARIB STD-T63-23.048	5.8.0	5.7.0	T3	Security Mechanisms for (U)SIM Toolkit Application; Stage 2	Cell Broadcast Data Download secure messages in UMTS
ARIB STD-T63-23.107	5.11.0	5.10.0	S2	Quality of Service, Concept and Architecture	It is indicated in section 6.5.2 by a note that parameters ARP and SDU format information are not applicable for GERAN when the Gb Bearer Service is used.
ARIB STD-T63-23.140	5.9.0	5.8.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Correcting references to ENUM & HLR
ARIB STD-T63-23.228	5.11.0	5.10.0	S2	IP Multimedia Subsystem(IMS); Stage 2	-Impose operator restriction on interworking with external SIP networks rather than on SIP header level and remove the statement 'The home network may impose restriction on session initiation without the IMS required capabilities'. -Add references to the two Privacy & Trust Domain RFCs and clarify the 3GPP trust domain assumption (ie. closed network) for Rel-5.
ARIB STD-T63-25.101	5.9.0	5.8.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V3.14.0, correction for FRC test in Closed loop mode 1, corrections of CQI reporting section, correction of power allocation for HS-SCCH in FRC test, clarification to DTX handling for CQI test in fading channel, clarification to HSDPA OCNS definition and correction of references to ITU recommendations were made. CQI Testing for UE Capability Categories 11 and 12 were introduced.
ARIB STD-T63-25.104	5.8.0	5.7.0	R4	UTRA (BS) FDD; Radio transmission and reception	Correction of the P-CPICH power accuracy requirement in case of TX-diversity, correction of references to ITU recommendations and correction of the applicability of

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					requirements in case of TX diversity were made.
ARIB STD-T63-25.113	5.5.0	5.4.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Modification of performance criteria for voltage dips and battery backup and correction of references to ITU recommendations were made.
ARIB STD-T63-25.133	5.9.0	5.8.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V3.16.0 and clarification on filtering requirements were made
ARIB STD-T63-25.141	5.8.0	5.7.0	R4	Base station conformance testing (FDD)	Correction of the P-CPICH power accuracy requirement in case of TX-diversity, correction of transmitter tests in case of TX-diversity and correction of references to ITU recommendations were made.
ARIB STD-T63-25.212	5.7.0	5.6.0	R1	Multiplexing and channel coding (FDD)	New sections 4.6.2.5 and 4.6.2.6 are added to clarify HARQ process identifier mapping and to clarify transport block size index mapping. CRC attachment procedure for HS-SCCH is clearly defined.
ARIB STD-T63-25.213	5.5.0	5.4.0	R1	Spreading and modulation (FDD)	It is clarified that no more than one secondary scrambling code for one CCTrCH is allowable in downlink. Some references are corrected.
ARIB STD-T63-25.214	5.7.0	5.6.0	R1	Physical layer procedures (FDD)	UE procedure for receiving HS-DSCH is clarified. CQI definition is clarified.
ARIB STD-T63-25.302	5.7.0	5.6.0	R2	Services provided by the physical layer	Correction to TDD HSDPA channel combinations
ARIB STD-T63-25.305	5.8.0	5.7.0	R2	Stage 2 Functional specification of UE Positioning in UTRAN	Correction to Location Reporting procedure
ARIB STD-T63-25.306	5.7.0	5.6.0	R2	UE Radio Access capabilities	Correction to HSDPA capability
ARIB STD-T63-25.321	5.7.0	5.6.0	R2	MAC protocol specification	Corrections Relating to HSDPA TB Sizes for 1.28Mcps TDD, HSDPA Transport block size table for 3.84Mcps TDD, HSDPA TB size table, Unwarranted HARQ re-transmissions, MAC-hs Re-ordering Protocol Flushing

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					correction, Correction to window based stall avoidance mechanism
ARIB STD-T63-25.401	5.7.0	5.6.0	R3	UTRAN Overall Description	NAS/AS issue for shared networks in connected mode
ARIB STD-T63-25.402	5.3.0	5.2.0	R3	Synchronisation in UTRAN Stage 2	Removal of the ambiguity about the activation time
ARIB STD-T63-25.423	5.8.0	5.7.0	R3	UTRAN Iur interface RNSAP signalling	-The usage of the MAC-hs Reordering Buffer Size. -Range Extension for GPS Almanac Reporting. -Explicit HARQ Memory Partitioning Clarification. -RT Load Value Clarification. -Removal of the ambiguity about the activation time. -Correction to Addition of HS-DSCH MAC-d Flows. -Unsynchronised RL Reconfiguration for HSDPA. -TNL QoS for uplink IP traffic. -Correction of Transmission Gap Pattern Sequence Information. -The correction to the Information Exchange Initiation behaviour. -Other change due to the RNSAP review.
ARIB STD-T63-25.424	5.3.0	5.2.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Diffserv marking is configurable.
ARIB STD-T63-25.425	5.6.0	5.5.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.427	5.3.0	5.2.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.433	5.7.0	5.6.0	R3	UTRAN Iub interface NBAP signalling	-Correction for the HS-DSCH Initial Capacity Allocation. -The usage of the MAC-hs Reordering Buffer Size. -Correction of Node B synchronisation procedures. -Correction to Addition of HS-DSCH MAC-d Flows. -Resource Status Indication and Audit for HSDPA.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					-Unsynchronised RL Reconfiguration for HSDPA. -TNL QoS for uplink IP traffic. -Correction of Transmission Gap Pattern Sequence Information. -Correction to Physical Shared Channel Reconfiguration for HSDPA. -Correction to Common Measurements for HSDPA. -Extension of <i>Requested Data Value</i> IE. -Other change due to the RNSAP review.
ARIB STD-T63-25.434	5.3.0	5.2.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Diffserv marking is configurable
ARIB STD-T63-25.435	5.6.0	5.5.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Spare Extension was introduced in Data frame
ARIB STD-T63-25.453	5.8.0	5.7.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Information Exchange Initiation behavior correction
ARIB STD-T63-26.104	5.3.0	5.2.0	S4	AMR speech Codec; Floating point C-Code	Correction on the implementation of the interface of decoder.c is carried out.
ARIB STD-T63-31.102	5.7.0	5.6.0	T3	Characteristics of the USIM Application	• Removal of references to TS 02.07 • Correction of T=0 protocol parameters • Corrections on files for support of GSM services using USIM / NIA • Support of GSM services on USIM • Corrections on files for support of GSM services using USIM - ASCII Files • Alignment of EF-HPLMN Search Period with 22.011 and 23.122 • Correction of SFI support • Correction to the description of mandatory SFIs • Clarification of "free" entry in EF_EXT1/4/8 • Alignment of EF-HPLMN Search Period with 22.011 and

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					23.122
ARIB STD-T63-31.103	5.5.0	5.4.0	T3	Characteristics of the ISIM Application	Correction of T=0 protocol parameters
ARIB STD-T63-31.111	5.6.0	5.5.0	T3	USIM Application toolkit (USAT)	Cell Broadcast Data Download
ARIB STD-T63-33.108	5.6.0	5.5.0	S3	3G security; Handover interface for Lawful interception	Correction to Annex G on TCP based transport
ARIB STD-T63-33.203	5.8.0	5.7.0	S3	3G security; Access security for IP-based services	(1) SA procedures, (2) SA parameters and management, (3) Reject or discard of messages, (4) Correcting the SA handling procedures, (5) Introducing the SIP Privacy mechanism in Stage 2 specifications, (6) Ensuring the correct RAND is used in synchronization failures, (7) Network behaviour when a new REGISTER is challenged during an on going authentication
ARIB STD-T63-34.121	5.2.0	5.1.1	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	- DS-CDMA Introduction in the 800 MHz Band - Test requirements for RRM CPICH RSCP Intra Frequency Measurement - Test requirements for RRM CPICH RSCP Inter Frequency Measurement - Correction on Random Access test cases etc.
ARIB STD-T63-34.123-1	5.6.0	5.5.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- New RRC test cases on Paging - New RRC test case on soft handover for multiple radio links - Traffic volume measurement test cases - Modification for GMM test cases etc.
ARIB STD-T63-34.123-2	5.6.0	5.5.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	- New RLC test case on reconfiguration of RLC parameters by upper layers - New RRC test cases on Paging - Correction of Applicability table for RRC Measurement

Revised Standard Number	Version at ARIB STD-T63 Ver.4.00	Version at ARIB STD-T63 Ver.3.60	3GPP WG	Title	Change Summary
					test cases - New RRC test case on soft handover for muliple radio links etc.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.011	6.2.0		S1	Service accessibility	The purpose of this TS is to describe the service access procedures as presented to the user.
ARIB STD-T63-22.038	6.2.0		S1	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	This 3GPP Technical Specification defines the stage one description of the USIM application Toolkit (USAT).
ARIB STD-T63-22.067	6.1.0		S1	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	The present document specifies the stage 1 description of the enhanced Multi-Level Precedence and Pre-emption Service (eMLPP).
ARIB STD-T63-22.071	6.6.0		S1	Location Services (LCS); Stage 1	This document provides the Stage One description of Location Services (LCS).
ARIB STD-T63-22.101	6.6.0		S1	Service aspects; Service principles	This Technical Specification (TS) describes the Service Principles for PLMNs specified by 3GPP.
ARIB STD-T63-22.105	6.2.0		S1	Services and service capabilities	3GPP specifications specify service capabilities rather than services, allowing service differentiation and system continuity. This Technical Specification (TS) describes how and what kind of services the user has access to.
ARIB STD-T63-22.140	6.4.0		S1	Multimedia Messaging Service (MMS); Stage 1	This Technical Specification defines the stage one description of the non real-time Multimedia Messaging Service, MMS.
ARIB STD-T63-22.141	6.2.0		S1	Presence service; Stage 1	This TS defines the stage one description for the presence service.
ARIB STD-T63-22.146	6.3.0		S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	This Technical specification defines the stage one description of the Broadcast and Multicast Services for the 3GPP System (UTRAN and GERAN).

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.174	6.2.0		S1	Push service; Stage 1	This Technical Specification defines the Stage 1 description of the Push Service and is the set of requirements that shall be supported for the provision of push, seen primarily from the subscriber's, service providers' and delivery network points of view.
ARIB STD-T63-22.228	6.5.0		S1	Service requirements for the Internet Protocol (IP) multimedia core network subsystem; Stage 1	This TS defines the service requirements from users' and operators' perspective for the support of IP multimedia applications.
ARIB STD-T63-22.233	6.3.0		S1	Transparent end-to-end packet-switched streamng service; Stage 1	This Technical Specification defines the stage one description of the Packet-switched Streaming Service (PSS).
ARIB STD-T63-22.246	6.0.0		S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	The present document describes MBMS User Services that use the capabilities of MBMS. Application scenarios including charging QoS aspects and related service requirements derived from them are described.
ARIB STD-T63-23.038	6.0.0		T2	Alphabets and language-specific information	The present document defines the character sets, languages and message handling requirements for SMS, CBS and USSD and may additionally be used for Man Machine Interface (MMI) (3GPP TS 22.030 [2]).
ARIB STD-T63-23.040	6.2.0		T2	Technical realization of Short Message Service (SMS)	The present document describes the Short Message Service (SMS) for GSM/UMTS networks.
ARIB STD-T63-23.041	6.2.0		T2	Technical Realization of Cell Broadcast Service	The present document describes the Cell Broadcast short message service (CBS) for GSM and UMTS.
ARIB STD-T63-23.057	6.2.0		T2	Mobile Execution Environment (MExE); Functional description; Stage 2	The present document defines the stage 2 and stage 3 description of the Mobile Execution Environment (MExE).
ARIB STD-T63-23.107	6.0.0		S2	Quality of Service, Concept and Architecture	The present document provides the framework for Quality of Service within UMTS.

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.140	6.4.0		T2	Multimedia Messaging Service (MMS) Functional description Stage 2	The present document defines the stage 2 and stage 3 description of the non-realtime Multimedia Messaging Service, MMS.
ARIB STD-T63-23.207	6.1.0		S2	End-to-end Quality of Service (QoS) concept and architecture	The present document provides the framework for end-to-end Quality of Service involving GPRS and complements TS23.107 which describes the framework for Quality of Service within UMTS.
ARIB STD-T63-23.228	6.4.1		S2	IP Multimedia Subsystem(IMS); Stage 2	This document defines the stage-2 service description for the IP Multimedia Core Network Subsystem (IMS), which includes the elements necessary to support IP Multimedia (IM) services.
ARIB STD-T63-25.101	6.3.0		R4	UE Radio transmission and reception (FDD)	The present document establishes the minimum RF characteristics of the FDD mode of UTRA for the User Equipment (UE).
ARIB STD-T63-25.104	6.4.0		R4	UTRA (BS) FDD; Radio transmission and reception	This document establishes the Base Station minimum RF characteristics of the FDD mode of UTRA.
ARIB STD-T63-25.113	6.0.0		R4	Base station and Repeater electromagnetic compatibility (EMC)	The present document covers the assessment of base stations, repeaters and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).
ARIB STD-T63-25.133	6.4.0		R4	Requirements for support of radio resource management (FDD)	The present document specifies requirements for support of Radio Resource Management for FDD.
ARIB STD-T63-25.141	6.4.0		R4	Base station conformance testing (FDD)	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the FDD mode.
ARIB STD-T63-25.201	6.0.0		R1	Physical layer - general description	The present document describes a general description of the physical layer of the UTRA radio interface.
ARIB STD-T63-25.211	6.0.0		R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The present document describes the characteristics of the Layer 1 transport channels and physicals channels in the FDD mode of UTRA.

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.212	6.0.0		R1	Multiplexing and channel coding (FDD)	The present document describes the characteristics of the Layer 1 multiplexing and channel coding in the FDD mode of UTRA.
ARIB STD-T63-25.213	6.0.0		R1	Spreading and modulation (FDD)	The present document describes spreading and modulation for UTRA Physical Layer FDD mode.
ARIB STD-T63-25.214	6.0.0		R1	Physical layer procedures (FDD)	The present document specifies and establishes the characteristics of the physicals layer procedures in the FDD mode of UTRA.
ARIB STD-T63-25.215	6.0.0		R1	Physical layer; Measurements (FDD)	The present document contains the description and definition of the measurements for FDD done at the UE and network in order to support operation in idle mode and connected mode.
ARIB STD-T63-25.301	6.0.0		R2	Radio Interface Protocol Architecture	The present document shall provide an overview and overall description of the UE-UTRAN radio interface protocol architecture as agreed within the 3GPP TSG RAN working group 2.
ARIB STD-T63-25.302	6.0.0		R2	Services provided by the physical layer	The present document is a technical specification of the services provided by the physical layer of UTRA to upper layers.
ARIB STD-T63-25.303	6.0.0		R2	Interlayer procedures in Connected Mode	The present document describes all procedures that assign, reconfigure and release radio resources.
ARIB STD-T63-25.304	6.0.0		R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	The present document specifies the Access Stratum (AS) part of the Idle Mode procedures applicable to a UE.
ARIB STD-T63-25.305	6.0.0		R2	Stage 2 Functional specification of UE Positioning in UTRAN	The present document specifies the stage 2 of the UE Positioning function of UTRAN, which provides the mechanisms to support the calculation of the geographical position of a UE.
ARIB STD-T63-25.306	6.0.0		R2	UE Radio Access capabilities	The present document identifies the parameters of the access stratum part of the UE radio access capabilities.

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.307	6.0.0		R2	Requirements on UEs supporting a release-independent frequency band	The present document specifies requirements on UEs supporting a frequency band that is independent of release. TSG-RAN has agreed that the standardisation of new frequency bands may be independent of a release.
ARIB STD-T63-25.321	6.0.0		R2	MAC protocol specification	The present document specifies the MAC protocol.
ARIB STD-T63-25.401	6.2.0		R3	UTRAN Overall Description	The present document describes the overall architecture of the UTRAN, including internal interfaces and assumptions on the radio and Iu interfaces.
ARIB STD-T63-25.402	6.0.0		R3	Synchronisation in UTRAN Stage 2	The present document constitutes the stage 2 specification of different synchronisation mechanisms in UTRAN and on Uu.
ARIB STD-T63-25.420	6.0.0		R3	UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling	The present document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode.
ARIB STD-T63-25.421	6.0.0		R3	UTRAN Iur interface Layer 1	The present document specifies the standards allowed to implement Layer 1 on the I _{ur} interface.
ARIB STD-T63-25.422	6.0.0		R3	UTRAN Iur interface signalling transport	The present document specifies the standards for Signalling Transport to be used across Iur Interface.
ARIB STD-T63-25.423	6.0.0		R3	UTRAN Iur interface RNSAP signalling	The present document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode.
ARIB STD-T63-25.424	6.0.0		R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	The present document shall provide a specification of the UTRAN RNC-RNC (Iur) interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.425	6.0.0		R3	UTRAN Iur interface user plane protocols for CCH data streams	The present document shall provide a description of the UTRAN RNS-RNS (Iur) interface user plane protocols for Common Transport Channel data streams as agreed within

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
					the TSG-RAN working group 3.
ARIB STD-T63-25.426	6.0.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	The present document specifies the transport bearers for the DCH data streams on UTRAN Iur and Iub interfaces.
ARIB STD-T63-25.427	6.0.0		R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	The present document shall provide a description of the UTRAN Iur and Iub interfaces user plane protocols for Dedicated Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.430	6.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	The present document is an introduction to the TSG RAN TS 25.43x series of UMTS Technical Specifications that define the Iub Interface.
ARIB STD-T63-25.431	6.0.0		R3	UTRAN Iub interface Layer 1	The present document specifies the standards allowed to implement Layer 1 on the I _{ub} interface.
ARIB STD-T63-25.432	6.0.0		R3	UTRAN Iub interface: signalling transport	The present document specifies the signalling transport related to NBAP signalling to be used across the Iub Interface.
ARIB STD-T63-25.433	6.0.0		R3	UTRAN Iub interface NBAP signalling	The present document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.
ARIB STD-T63-25.434	6.0.0		R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	The present document shall provide a specification of the UTRAN RNC-Node B (Iub) interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.435	6.0.0		R3	UTRAN Iub interface user plane protocols for CCH data streams	The present document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.442	6.0.0		R3	UTRAN implementation-specific O&M transport	UTRAN implementation-specific O&M transport

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.450	6.0.0		R3	UTRAN Iu-PS interface general aspects and principles	The present document is an introduction to the TSG RAN TS 25.45z series of UMTS Technical Specifications that define the Iu-PS Interface.
ARIB STD-T63-25.451	6.0.0		R3	UTRAN Iu-PS interface layer 1	The present document specifies the standards allowed to implement Layer 1 on the Iu-PS interface.
ARIB STD-T63-25.452	6.0.0		R3	UTRAN Iu-PS interface: signalling transport	The present document specifies the signalling transport related to PCAP signalling to be used across the Iu-PS interface.
ARIB STD-T63-25.453	6.3.0		R3	UTRAN Iu-PS interface Positioning Calculation Application Part (PCAP) signalling	The present document specifies the <i>Positioning Calculation Application Part (PCAP)</i> between the Radio Network Controller (RNC) and the Stand-Alone SMLC (SAS).
ARIB STD-T63-26.093	6.0.0		S4	AMR speech Codec; Source Controlled Rate operation	This document describes the Source Controlled Rate (SCR) operation of the Adaptive Multi-Rate speech Codec in Codec Types UMTS_AMR and UMTS_AMR2 for the UMTS system.
ARIB STD-T63-26.104	6.0.0		S4	AMR speech Codec; Floating point C-Code	This Technical Standard (TS) contains an electronic copy of the ANSI-C code for a floating-point implementation of the Adaptive Multi-Rate codec.
ARIB STD-T63-26.235	6.0.0		S4	Packet switched conversational multimedia applications; Default codecs	The present document introduces the set of default codecs for packet switched conversational multimedia applications within 3GPP IP Multimedia Subsystem.
ARIB STD-T63-27.007	6.4.0		T2	AT command set for 3G User Equipment (UE)	The present document specifies a profile of AT commands and recommends that this profile be used for controlling Mobile Termination (MT) functions and GSM/UMTS network services from a Terminal Equipment (TE) through Terminal Adaptor (TA).
ARIB STD-T63-31.101	6.2.0		T3	UICC-terminal interface; Physical and logical characteristics	The present document specifies the interface between the UICC and the Terminal for 3G telecom network operation.
ARIB STD-T63-31.102	6.4.0		T3	Characteristics of the USIM Application	The present document defines the USIM application for 3G telecom network operation.

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.103	6.2.0		T3	Characteristics of the ISIM Application	The present document defines the ISIM application for access to IMS services.
ARIB STD-T63-31.111	6.0.0		T3	USIM Application toolkit (USAT)	The present document defines the interface between the UICC and the Mobile Equipment (ME), and mandatory ME procedures, specifically for "USIM Application Toolkit".
ARIB STD-T63-31.113	6.2.0		T3	Universal Subscriber Identity Module Application Toolkit (USAT) interpreter byte codes	The present document specifies the byte codes that are recognised by an USAT Interpreter.
ARIB STD-T63-31.115	6.2.0		T3	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	The present document specifies the structure of the Secured Packets in implementations using Short Message Service Point to Point (SMS-PP) and Short Message Service Cell Broadcast (SMS-CB), based on TS 102 225.
ARIB STD-T63-31.116	6.3.0		T3	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	The present document defines the remote management of files and applets on the SIM/USIM.
ARIB STD-T63-31.131	6.1.0		T3	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	A Subscriber Identity Module Application Programming Interface (SIM API) has been defined in TS 42.019 [4] as a technology-independent API by which toolkit applications and (U)SIMs co-operate.
ARIB STD-T63-33.102	6.0.0		S3	3G security; Security architecture	This specification defines the security architecture, i.e., the security features and the security mechanisms, for the third generation mobile telecommunication system.
ARIB STD-T63-33.106	6.0.0		S3	Lawful interception requirements	The present document provides basic interception requirements within a Third Generation Mobile Communication System (3GMS) based on ETSI TS 101 331 and other national regulatory requirements and GSM specifications GSM TS 01.33 , GSM TS 02.33 and GSM TS 03.33 .
ARIB STD-T63-33.107	6.1.0		S3	3G security; Lawful interception architecture	The present document describes the architecture and functional requirements within a Third Generation Mobile

Added Standard Number	Version at ARIB STD-T63 Ver.4.00		3GPP WG	Title	New Document Summary
				and functions	Communication System (3GPP MS).
ARIB STD-T63-33.108	6.4.0		S3	3G security; Handover interface for Lawful interception	This specification addresses the handover interfaces for lawful interception of Packet-Data Services, Circuit Switched Services, and Multimedia Services within the UMTS network.
ARIB STD-T63-33.203	6.1.0		S3	3G security; Access security for IP-based services	The scope for this technical specification is to specify the security features and mechanisms for secure access to the IM subsystem (IMS) for the 3G mobile telecommunication system.
ARIB STD-T63-33.210	6.3.0		S3	3G security; Network Domain Security (NDS); IP network layer security	The present document defines the security architecture for the UMTS network domain IP based control plane.
ARIB STD-T63-34.131	6.0.0		T3	Test specification for C-language binding for (U)SIM API	The present document covers the minimum characteristics considered necessary in order to provide compliance to 3GPP TS 31.131 "C'-language binding to (U)SIM API"

4.2. Revised Standards

None

(Annex 17)

3GPP ARIB Change history List of Standards Ver. 4.10

22 July 2004

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.13.0	3.12.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.071	3.5.0	3.4.0	S1	Location Services (LCS); Stage 1	Addition of capability to route Emergency calls to Emergency Service Providers based on the geographical coordinates of the calling party.
ARIB STD-T63-22.101	3.17.0	3.16.0	S1	Service Aspects ; Service principles	Clarification of the requirement for the case when no emergency numbers are stored within the USIM. Clarification of the text to state that FDN/BDN unsupported terminals shall allow the receiving of calls in case FDN/BDN is enabled in the SIM/USIM.
ARIB STD-T63-23.171	3.11.0	3.10.0	S2	Functional stage 2 description of location services in UMTS	Incorporation of the following CR, approved at SA#23: CR030 Routing of Emergency Calls based on Geographical Coordinates

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	3.17.0	3.16.0	R4	UE Radio transmission and reception (FDD)	New minimum requirements for TPC combining in soft Handover was introduced.
ARIB STD-T63-25.133	3.17.0	3.16.0	R4	Requirements for Support of Radio Resource Management (FDD)	Corrections on inter system HO from UTRAN FDD to GSM were made.
ARIB STD-T63-25.304	3.14.0	3.13.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	To revise the description on H criteria & High mobility reselection
ARIB STD-T63-25.307	3.3.0	3.2.0	R2	Requirements on UEs supporting a release-independent frequency band	Additional performance requirement for UMTS800, Frequency band alignment with 25.101and introduction of UMTS1700/2100 (Band IV) and UMTS850(Band V).
ARIB STD-T63-31.102	3.16.0	3.15.0	T3	Characteristics of the USIM Application	• Correction of EFIAP coding • Adding missing note about DTMF string • Correction of 'CHV1' to 'PIN' • Correction of image instance descriptor for colour icons Test Specification
ARIB STD-T63-31.111	3.12.0	3.11.0	T3	USIM Application Toolkit (USAT)	•Clarification of Alpha Identifier for BIP commands
ARIB STD-T63-31.121	3.8.0	3.7.0	T3	Terminal tests for the UICC Interface; Part2	•Essential Corrections
ARIB STD-T63-34.108	3.15.0	3.14.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Correction and addition to some default message contents. Some changes according to the core specification.
ARIB STD-T63-34.123-3	3.5.2	3.4.0	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSSs)	Sections 8.3.28 – 8.3.31 were misplaced.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	4.6.0	4.5.0	S1	Location Services (LCS); Stage 1	Addition of capability to route Emergency calls to Emergency Service Providers based on the geographical coordinates of the calling party.
ARIB STD-T63-22.101	4.10.0	4.9.0	S1	UMTS Service principles	Clarification of the requirement for the case when no emergency numbers are stored within the USIM. Clarification of the text to state that FDN/BDN unsupported terminals shall allow the receiving of calls in case FDN/BDN is enabled in the SIM/USIM.
ARIB STD-T63-25.101	4.11.0	4.10.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in release 99 (V. 3.17.0) were made.
ARIB STD-T63-25.133	4.12.0	4.11.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in release 99 (V. 3.17.0) were made.
ARIB STD-T63-25.304	4.8.0	4.7.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	To revise the description on H criteria & High mobility reselection

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	4.3.0	4.2.0	R2	Requirements on UEs supporting a release-independent frequency band	Additional performance requirement for UMTS800, Frequency band alignment with 25.101 and introduction of UMTS1700/2100 (Band IV) and UMTS850 (Band V).
ARIB STD-T63-25.423	4.12.0	4.11.0	R3	UTRAN Iur interface RNSAP signalling	Correction of RL Congestion Indication Alignment with 23.032 correction of Included Angle for Ellipsoid Arc Correction to the threshold of Rx Timing Deviation LCR in tabular
ARIB STD-T63-25.433	4.12.0	4.11.0	R3	UTRAN Iub interface NBAP signalling	ASN.1 Corrections for the CELL SYNCHRONISATION RECONFIGURATION REQUEST TDD message Correction to the threshold of Rx Timing Deviation LCR in tabular
ARIB STD-T63-31.102	4.12.0	4.11.0	T3	Characteristics of the USIM Application	• Correction of ESIAP coding • Adding missing note about DTMF string • Correction of 'CHV1' to 'PIN' • Correction of image instance descriptor for colour icons Test Specification
ARIB STD-T63-31.121	4.7.0	4.6.0	T3	UICC-terminal interface; USIM application test specification	• Essential Corrections
ARIB STD-T63-34.108	4.10.0	4.9.0	T1	Common test environments for User Equipment (UE) conformance testing	Correction and addition to some default message contents. Some changes according to the core specification.

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.108	5.0.0		T1	Common test environments for User Equipment (UE) conformance testing	Initial version for Rel-5 based on 34.108 4.10.0.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.6.0	5.5.0	SA	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-21.071	5.4.0	5.3.0	S1	Location Services (LCS); Stage 1	Addition of capability to route Emergency calls to Emergency Service Providers based on the geographical coordinates of the calling party.
ARIB STD-T63-22.101	5.13.0	5.12.0	S1	UMTS Service principles	Clarification of the requirement for the case when no emergency numbers are stored within the USIM. Clarification of the text to state that FDN/BDN unsupported terminals shall allow the receiving of calls in case FDN/BDN is enabled in the USIM.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	5.7.1	5.6.1	T2	Technical realisation of Short Message Service(SMS)	Reinstating of corrupted figures 19, C.1, C.13 and C.14
ARIB STD-T63-23.107	5.12.0	5.11.0	S2	Quality of Service, Concept and Architecture	Correction to the use of delivery order set to yes
ARIB STD-T63-23.140	5.10.0	5.9.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Correction of the MM7 Schema, change "TimeStamp" to "date"
ARIB STD-T63-23.207	5.9.0	5.8.0	S2	End to end quality of service concept and architecture	Update Authorization Procedure
ARIB STD-T63-23.228	5.12.0	5.11.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Relation of IMS sessions and PDP Contexts
ARIB STD-T63-25.101	5.10.0	5.9.0	R4	UE Radio transmission and reception (FDD)	With the corresponding changes in release 4 (V. 4.11.0), new requirements on UE ACS, clarification of frequency error observation period for PRACH preambles etc. were made
ARIB STD-T63-25.133	5.10.0	5.9.0	R4	Requirements for support of radio resource management (FDD)	With the corresponding changes in release 4 (V. 4.12.0), test case for multipath fading intra-frequency cell identification was introduced.
ARIB STD-T63-25.212	5.8.0	5.7.0	R1	Multiplexing and channel coding (FDD)	CCTrCH of common type for HS-DSCH is added to section 4.2.13.
ARIB STD-T63-25.214	5.8.0	5.7.0	R1	Physical layer procedures (FDD)	The calculation of the gain factor for HS-DPCCH in compressed mode is clarified. UE procedure for receiving HS-DSCH is clarified.
ARIB STD-T63-25.304	5.4.0	5.3.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	To revise the description on H criteria & High mobility reselection
ARIB STD-T63-25.306	5.8.0	5.7.0	R2	UE Radio Access capabilities	Addition of the UE capability on simultaneous reception of S-CCPCH and HS-DSCH and correction to memory check

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
					in the UE
ARIB STD-T63-25.307	5.2.0	5.1.0	R2	Requirements on UEs supporting a release-independent frequency band	Additional performance requirement for UMTS800, Frequency band alignment with 25.101and introduction of UMTS1700/2100 (Band IV) and UMTS850(Band V).
ARIB STD-T63-25.321	5.8.0	5.7.0	R2	MAC protocol specification	UE handles NDI and TBS for HSDPA. HSDPA related corrections on MAC-hs reconfiguration and Reconfiguration of soft memory buffer partitioning get in.
ARIB STD-T63-25.423	5.9.0	5.8.0	R3	UTRAN Iur interface RNSAP signalling	Correction of RL Congestion Indication Ignore Criticality for RL Activation Command, RL Parameter Update Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of ASN.1 code Alignment with 23.032 correction of Included Angle for Ellipsoid Arc Correction Related to HS-DSCH Information Response Correction to the threshold of Rx Timing Deviation LCR in tabular Criticality Settings for HSDPA. Correction DCH Information Response
ARIB STD-T63-25.424	5.4.0	5.3.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Inclusion of HSDPA
ARIB STD-T63-25.425	5.7.0	5.6.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Correction of Common Transport Channel Priority Indicator for HSDPA
ARIB STD-T63-25.426	5.4.0	5.3.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Correction so that Diffserv marking is configurable

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	5.8.0	5.7.0	R3	UTRAN Iub interface NBAP signalling	Correction for TDD Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with "All NBCC" Correction Related to HS-DSCH Information Response Extension of the range of PCCPCH RSCP
ARIB STD-T63-25.434	5.4.0	5.3.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Inclusion of HSDPA
ARIB STD-T63-25.435	5.7.0	5.6.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Common Transport Channel Priority Indicator for HSDPA
ARIB STD-T63-25.453	5.9.0	5.8.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Alignment with 23.032 correction of Included Angle for Ellipsoid Arc Correction due to PCAP Review
ARIB STD-T63-26.073	5.3.0	5.2.0	S4	AMR speech Codec; C-source code	Correction of AMR DTX functionality
ARIB STD-T63-26.104	5.4.0	5.3.0	S4	AMR speech Codec; Floating point C-Code	Correction of floating point AMR DTX functionality
ARIB STD-T63-31.102	5.8.0	5.7.0	T3	Characteristics of the USIM Application	• Correction of EFIAP coding • Correction to Annex G Phonebook Example • Adding missing note about DTMF string • Correction of 'CHV1' to 'PIN' • Correction of image instance descriptor for colour icons Test Specification
ARIB STD-T63-31.103	5.6.0	5.5.0	T3	Characteristics of the ISIM Application	• Essential corrections to remove Session Keys

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	5.7.0	5.6.0	S3	3G security; Handover interface for Lawful interception	- Correction on the description of “initiator” in “PDP Context Modification CONTINUE Record”. - Implications of R5 onwards QoS parameters on ASN.1 module in 33.108. - Syntax error in Annex B.4.
ARIB STD-T63-34.121	5.3.1	5.2.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Introduction of Test Tolerances, Annexes for HSDPA, .. etc. are added. Also some corrections are made.
ARIB STD-T63-34.123-1	5.7.1	5.6.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Most of the changes are corrections. Also some test cases are removed and many test cases, ex.1.28Mcps TDD, HSDPA, ..etc., are added. Please refer to “Change history”.
ARIB STD-T63-34.123-2	5.7.0	5.6.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Some changes related to 34.123-1.
ARIB STD-T63-34.124	5.4.0	5.3.0	T1	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Correction of references to ITU recommendations.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.111	6.0.0		T3	USIM and IC card requirements	Update with respect to the third form factor and removal of an unused reference (TS 21.111 Rel-6 will be created)
ARIB STD-T63-22.030	6.0.0		S1	Man-Machine Interface (MMI) of the User Equipment (UE)	This document defines the requirements for and gives guidelines on the MMI on the User Equipment (UE).
ARIB STD-T63-26.244	6.0.0		S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	The present document defines the 3GPP file format (3GP) as an instance of the ISO base media file format.
ARIB STD-T63-31.130	6.0.0		T3	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	The present document defines the (U)SIM Application Programming Interface extending the "UICC API for Java Card™".
ARIB STD-T63-33.220	6.0.0		S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	This TS describes the security features and a mechanism to bootstrap authentication and key agreement for application security from the 3GPP AKA mechanism.
ARIB STD-T63-33.221	6.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	This TS describes subscriber certificate distribution by means of generic bootstrapping architecture (GBA) TS 33.220.
ARIB STD-T63-33.234	6.0.0		S3	3G security; Wireless Local Area Network (WLAN) interworking security	This TS specifies the security architecture; trust model and security requirements for the interworking of the 3GPP System and WLAN Access Networks.
ARIB STD-T63-33.310	6.0.0		S3	Network domain security; Authentication framework (NDS/AF)	This TS provides a highly scalable entity authentication framework for 3GPP network nodes.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	6.7.0	6.6.0	S1	Location Services (LCS); Stage 1	“U-TDOA” included in the list of supported positioning methods.
ARIB STD-T63-22.101	6.7.0	6.6.0	S1	Service aspects; Service principles	Clarification of the text to state that FDN/BDN unsupported terminals shall allow the receiving of calls in case FDN/BDN is enabled in the USIM. Requirements added to enable both operator and customer friendly transitions between CS video and CS voice calls
ARIB STD-T63-22.140	6.5.0	6.4.0	S1	Multimedia Messaging Service (MMS); Stage 1	Clause 5.2 entitled “MM intended for applications on the UE” and it is noted that the intended application may present the MM contents. Addition of a new subsection to the Error Messages section
ARIB STD-T63-22.146	6.4.0	6.3.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Clarification of user requirements for MBMS notification.
ARIB STD-T63-22.246	6.1.0	6.0.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Addition of requirement to advertise the required capabilities to receive a particular transmission in advance. Addition of “MBMS transport service” definition. Clarification that delivery verification shall be transmitted to the home network and may be relayed to the service provider. Addition of requirement to be able to make use of one MBMS transport service in several MBMS user services.
ARIB STD-T63-23.040	6.3.0	6.2.0	T2	Technical realization of Short Message Service (SMS)	Correction of error message for MAP_ForwardShortMessage. Procedure for confirming the existence of an SMS

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
					interworking agreement
ARIB STD-T63-23.107	6.1.0	6.0.0	S2	Quality of Service, Concept and Architecture	-Correction to the use of delivery order set to yes - ARP Clarification - Removal of reliability class 1
ARIB STD-T63-23.140	6.5.0	6.4.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	On the handling of MM7 messages composed with different XML schema. Correction of the MM7 Schema, change "TimeStamp" to "date". MM7 – Charged party, third party value,. Updates to Annex M (Delivery Report Generation). Content of RCPT in MM4. Management of Hyperlinks in MMS.
ARIB STD-T63-23.207	6.2.0	6.1.0	S2	End-to-end Quality of Service (QoS) concept and architecture	-Update of Authorization on Gq - Mapping amendment to PDF procedures - Mapping amendment to AF procedures - SBLP implications of bundling different IMS sessions to the same PDP Context - Service information
ARIB STD-T63-23.228	6.5.0	6.4.1	S2	IP Multimedia Subsystem(IMS); Stage 2	-Relation of IMS sessions and PDP Contexts - Session based messaging: general principles - An optimisation in registration information flow for user not registered etc.
ARIB STD-T63-25.101	6.4.0	6.3.0	R4	UE Radio transmission and reception (FDD)	With the corresponding changes in release 5 (V. 5.10.0), spurious emission requirements for Band I to protect UMTS800(band VI), reduction of channel number for UMTS800 etc. were introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	6.5.0	6.4.0	R4	UTRA (BS) FDD; Radio transmission and reception	Performance requirements for HS-DPCCH signaling detection, requirements for co-existence with UTRA FDD in band VI, reduction of channel number for UMTS800 (band VI) etc. were made.
ARIB STD-T63-25.133	6.5.0	6.4.0	R4	Requirements for support of radio resource management (FDD)	With the corresponding changes in release 5 (V5.10.0), requirements for band IV, V and VI were introduced. Also, clarification of measurement control for FDD/FDD Inter-frequency Hard Handover test case was made.
ARIB STD-T63-25.141	6.5.0	6.4.0	R4	Base station conformance testing (FDD)	With the corresponding changes in the core specification (TS25.104, V6.5.0), DCH performance test requirements for BS without Rx diversity were introduced.
ARIB STD-T63-25.212	6.1.0	6.0.0	R1	Multiplexing and channel coding (FDD)	CCTrCH of common type for HS-DSCH is added to section 4.2.13.
ARIB STD-T63-25.304	6.1.0	6.0.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	To revise the description on H criteria & High mobility reselection
ARIB STD-T63-25.306	6.1.0	6.0.0	R2	UE Radio Access capabilities	Addition of the UE capability on simultaneous reception of S-CCPCH and HS-DSCH and correction to memory check in the UE
ARIB STD-T63-25.307	6.1.0	6.0.0	R2	Requirements on UEs supporting a release-independent frequency band	Additional performance requirement for UMTS800, Frequency band alignment with 25.101 and introduction of UMTS1700/2100 (Band IV) and UMTS850 (Band V).
ARIB STD-T63-25.321	6.1.0	6.0.0	R2	MAC protocol specification	UE handles NDI and TBS for HSDPA. HSDPA related corrections on MAC-hs reconfiguration and Reconfiguration of soft memory buffer partitioning get in.
ARIB STD-T63-25.423	6.1.0	6.0.0	R3	UTRAN Iur interface RNSAP signalling	Correction for TDD Ignore Criticality for RL Activation Command Ignore Criticality for RL Parameter Update Corrections for HS-DSCH Configuration Signalling

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
					Priority Queue ID for HSDPA Correction of ASN.1 code Introduce the description of AOA measurement in the Allowed Combinations of Dedicated Measurement Criticality Settings for HSDPA Correction for DCH Information Response Issue
ARIB STD-T63-25.424	6.1.0	6.0.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Inclusion of HSDPA
ARIB STD-T63-25.425	6.1.0	6.0.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Common Transport Channel Priority Indicator for HSDPA
ARIB STD-T63-25.426	6.1.0	6.0.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Diffserv marking is configurable
ARIB STD-T63-25.433	6.1.0	6.0.0	R3	UTRAN Iub interface NBAP signalling	Correction for TDD Corrections for HS-DSCH Configuration Signalling Priority Queue ID for HSDPA Correction of the Dedicated Measurement Initiation procedure with "All NBCC" Correction Related to HS-DSCH Information Response Extension of the range of PCCPCH RSCP
ARIB STD-T63-25.434	6.1.0	6.0.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Inclusion of HSDPA
ARIB STD-T63-25.435	6.1.0	6.0.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Common Transport Channel Priority Indicator for HSDPA

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.453	6.4.0	6.3.0	R3	UTRAN Iurc interface Positioning Calculation Application Part (PCAP) signalling	Alignment with 23.032 correction of Included Angle for Ellipsoid Arc Initial UE Position IE only mandatory necessary for GPS Correction due to PCAP Review
ARIB STD-T63-26.104	6.1.0	6.0.0	S4	AMR speech Codec; Floating point C-Code	Correction of floating point AMR DTX functionality
ARIB STD-T63-31.102	6.5.0	6.4.0	T3	Characteristics of the USIM Application	• Correction of EFIAP coding • Correction to Annex G Phonebook Example • Adding missing note about DTMF string • Support for transparent background in images • Correction of references • Moving EFSUME from the USIM specification to a SCP specification • Essential corrections on use and coding of Byte 2 and Byte 3 in EF_AD (Administration) • Reservation of File IDs under ADFUSIM • Correction of image instance descriptor for colour cons Test Specification
ARIB STD-T63-31.103	6.3.0	6.2.0	T3	Characteristics of the ISIM Application	• Essential corrections to remove Session Keys • Creation of an ISIM Service Table to reflect the addition of optional files in the ISIM
ARIB STD-T63-31.111	6.1.0	6.0.0	T3	USIM Application toolkit (USAT)	• Terminal profile alignment with SCP 102 223 CAT specification • Align the OPEN CHANNEL pro-active command and the TERMINAL RESPONSE associated with the specific 3G Quality Of Service (QOS) for packet data channel.
ARIB STD-T63-31.116	6.3.0	6.3.0	T3	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• Clarification on the usage of SIM Remote File Management commands

Revised Standard Number	Version at ARIB STD-T63 Ver.4.10	Version at ARIB STD-T63 Ver.4.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	6.5.0	6.4.0	S3	3G security; Handover interface for Lawful interception	- Corrections to Tables 6.2, 6.7, Correlation Number, Identifiers, etc. - Correction on the description of “initiator” in “PDP Context Modification CONTINUE Record”. - Implications of R5 onwards QoS parameters on ASN.1 module in 33.108. - Syntax error in Annex B.4. - Clarification on the use of IRI-END record in PS interception.
ARIB STD-T63-33.203	6.2.0	6.1.0	S3	3G security; Access security for IP-based services	- Addition of AES transform. - Deploying TLS (sips:) for interoperation between IMS and non-IMS network
ARIB STD-T63-33.210	6.4.0	6.3.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Addition of AES transform.

(Annex 18)

3GPP ARIB Change history List of Standards Ver. 4.20

28 September 2004

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.133	3.18.0	3.17.0	R4	Requirements for Support of Radio Resource Management (FDD)	Correction of erroneous and Change of test procedure for event 1B test case were made.
ARIB STD-T63-25.321	3.17.0	3.16.0	R2	MAC Protocol Specification	Addition of use of U-RNTI in downlink.
ARIB STD-T63-25.423	3.14.2	3.14.0	R3	UTRAN Iur Interface RNSAP Signalling	ASN.1 editorials
ARIB STD-T63-25.433	3.14.1	3.14.0	R3	UTRAN Iub interface NBAP signalling	ASN.1 editorials
ARIB STD-T63-31.102	3.17.0	3.16.0	T3	Characteristics of the USIM Application	Correction of presence indication for NIA, VGCS/VBS files Clarification on Emergency Call Numbers. Alignment with TS22.101
ARIB STD-T63-31.121	3.9.0	3.8.0	T3	UICC-terminal interface; Application Test Specification	Removal of EF_RPLMNACT and related tests Security related tests

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-34.108	3.16.0	3.15.0	T1	Common Test Environments for User Equipment (UE) Conformance Testing	Replacement of the technical content of 34.108 Rel 99 by a pointer to the gathered releases document
ARIB STD-T63-34.123-3	3.6.1	3.5.2	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Additions and corrections of test cases.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	4.10.0	4.9.0	R2	MAC protocol specification	Addition of use of U-RNTI in downlink.
ARIB STD-T63-25.423	4.12.1	4.12.0	R3	UTRAN Iur interface RNSAP signalling	ASN.1 editorials
ARIB STD-T63-31.102	4.13.0	4.12.0	T3	Characteristics of the USIM Application	Correction of coding example for MMS Issuer/User Connectivity Parameters Correction of presence indication for NIA, VGCS/VBS files
ARIB STD-T63-31.121	4.8.0	4.7.0	T3	UICC-terminal interface; Application Test specification	Security related tests Removal of EF_RPLMNACT and related tests
ARIB STD-T63-34.108	4.11.0	4.10.0	T1	Common test environments for User Equipment (UE) conformance testing	Replacement of the technical content of 34.108 Rel 4 by a pointer to the gathered releases document

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.105	5.0.0		S3	Cryptographic algorithm requirements	Creation of Release 5 version from version 4.2.0. This specification constitutes a requirements specification for the security functions which may be used to provide the network access security features. The specification covers the intended use of the functions, the technical requirements on the functions and the requirements as regards standardization. For those functions that require standardization, it also covers the intended use of the algorithm specification, the requirements on test data, and quality assurance requirements on both the algorithm and its documentation.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.7.0	5.6.0	SA	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-23.140	5.11.0	5.10.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Changing erroneous OMA references from MMS1.1 to MMS1.2
ARIB STD-T63-25.101	5.11.0	5.10.0	R4	UE Radio transmission and reception (FDD)	Correction of maximum allowed power and range in TFC selection, and Definition of maximum output power tolerance with HS-DPCCH were made.
ARIB STD-T63-25.133	5.11.0	5.10.0	R4	Requirements for support of radio resource management (FDD)	Some corrections and removal of square brackets were made.
ARIB STD-T63-25.212	5.9.0	5.8.0	R1	Multiplexing and channel coding (FDD)	Formulas to calculate the channelization code-set information bits are clarified.
ARIB STD-T63-25.214	5.9.0	5.8.0	R1	Physical layer procedures (FDD)	Clarifies that UE shall follow the synchronisation procedure A when attempting to re-establish the DPCH after a inter-RAT, intra- or inter-frequency hard handover failure. Clarify that when resuming uplink DPCCH transmission the UE shall use the same active set, the same DPCCH power as before the handover attempt and the latest Npcp value signalled by higher layer for the current DPCH.
ARIB STD-T63-25.304	5.5.0	5.4.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	Correction to UE selection of reserved cells and modification of the Sintersearch and Ssearch _{RAT,m} behaviour and selection of suitable cell
ARIB STD-T63-25.305	5.9.0	5.8.0	R2	UE Radio Access capabilities	Corrections to time stamp in position information report and to SRNC relocation
ARIB STD-T63-25.321	5.9.0	5.8.0	R2	MAC protocol specification	Addition of use of U-RNTI in downlink and State variables arithmetic comparison
ARIB STD-T63-25.420	5.2.0	5.1.0	R3	UTRAN Iur Interface: General Aspects and Principles	Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.423	5.10.0	5.9.0	R3	UTRAN Iur interface RNSAP signalling	Correction the presence of Traffic Class IE Inclusion of scrambling code information in HS-DSCH FDD Information Response IE

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					Node B usage of the MAC-hs re-ordering buffer size Unsuccessful Operation of RL Setup Procedure for HSDPA Clarification on number of and capacity reporting of Priority Queues Power Balancing Corrections HSDPA Corrections in RL Reconfiguration
ARIB STD-T63-25.426	5.5.0	5.4.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.430	5.3.0	5.2.0	R3	UTRAN Iub Interface: General Aspects and Principles	Clarification on Node B Communication Contexts Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.433	5.9.0	5.8.0	R3	UTRAN Iub interface NBAP signalling	Correction of PHYSICAL SHARED CHANNEL RECONFIGURATION message Node B usage of the MAC-hs re-ordering buffer size Unsuccessful Operation of RL Setup Procedure for HSDPA Clarification on number of and capacity reporting of Priority Queues Power Balancing Corrections
ARIB STD-T63-26.230	5.0.2	5.0.1	S4	Global text telephony; Cellular text telephone moden transmitter C-code description	Removed copyright terms and conditions in the source code CTM attached.
ARIB STD-T63-26.236	5.5.0	5.4.0	S4	Packet switched conversational multimedia application; Transport protocols	RTCP usage for IMS is added.
ARIB STD-T63-31.102	5.9.0	5.8.0	T3	Characteristics of the USIM Application	Correction of coding example for MMS Issuer/User Connectivity Parameters Correction of presence indication for NIA, VGCS/VBS files

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.102	5.4.0	5.3.0	S3	3G Security Architecture	Handling of key sets at inter-system change.
ARIB STD-T63-33.108	5.8.0	5.7.0	S3	3G security; Handover interface for Lawful interception	WGS 84 coordinates length correction.
ARIB STD-T63-34.108	5.1.0	5.0.0	T1	Common test environments for User Equipment (UE) conformance testing	Some corrections for HSDPA, interRAT, UMTS800, ..etc. Changes to establish one version of 34.108 covering all releases.
ARIB STD-T63-34.121	5.4.0	5.3.1	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Some corrections and additions. Added test cases and Annexs for HSDPA. Introduction of Test Tolerances.
ARIB STD-T63-34.123-1	5.8.0	5.7.1	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Most of the changes are corrections. Also some test cases are removed and many test cases, ex. A-GPS, HCR TDD, HSDPA, ..etc., are added.
ARIB STD-T63-34.123-2	5.8.0	5.7.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Some changes related to 34.123-1.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.234	6.0.0		S4	Transparent end-to-end streaming service; Protocols and codecs	Addition of Release 6 functionality is done.
ARIB STD-T63-26.236	6.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	RTCP usage for IMS is added.
ARIB STD-T63-26.243	6.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	Approved at 3GPP TSG SA#24.
ARIB STD-T63-26.245	6.0.0		S4	Transparent end-to-end Packet witched Streaming Service (PS); Timed text format	Approved at 3GPP TSG SA#24.
ARIB STD-T63-26.246	6.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Approved at 3GPP TSG SA#24.
ARIB STD-T63-33.105	6.0.0		S3	Cryptographic algorithm requirements	Creation of Release 6 version from version 4.2.0. This specification constitutes a requirements specification for the security functions which may be used to provide the network access security features. The specification covers the intended use of the functions, the technical requirements on the functions and the requirements as regards standardization. For those functions that require standardization, it also covers the intended use of the algorithm specification, the requirements on test data, and quality assurance requirements on both the algorithm and its documentation.

Added Standard Number	Version at ARIB STD-T63 Ver.4.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.141	6.0.0		S3	Presence service; Security	This document describes the Stage 2 security requirements for the Presence Service, which includes the elements necessary to realise the requirements in TS 22.141 and TS 23.141. The document includes information applicable to network operators, service providers and manufacturers.
ARIB STD-T63-33.222	6.0.0		S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	This document specifies secure access methods to Network Application Functions (NAF) using HTTP over TLS in the Generic Authentication Architecture (GAA), and provides Stage 2 security requirements and principles for the access. The document describes both direct access to an Application Server (AS) and access to an Application Server through an Authentication Proxy (AP).

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.111	6.1.0	6.0.0	T3	USIM and IC card requirements	Release6 alignment
ARIB STD-T63-22.101	6.8.0	6.7.0	S1	Service aspects; Service principles	Text referring to the UICC is removed from Chapter 13.1.1 and appropriate text added to Chapter 13.2 including a reference to TS 31.101. Editorial correction.
ARIB STD-T63-22.140	6.6.0	6.5.0	S1	Multimedia Messaging Service (MMS); Stage 1	It is clarified that the MMS Client in the ME can manage (e.g. send, receive and present) MMS messages stored on the UICC.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					Removal of an unworkable requirement, removal of superfluous text and general editorial corrections. Introduction of definition and service requirements for capabilities to support MMS operator specific services.
ARIB STD-T63-22.141	6.2.1	6.2.0	S1	Presence service; Stage 1	Repair of corrupt file.
ARIB STD-T63-22.146	6.5.0	6.4.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Addition of text to describe that the user should be able to join a multicast service as soon as possible after the announcement of the service.
ARIB STD-T63-22.228	6.6.0	6.0.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Editorial correction.
ARIB STD-T63-23.040	6.4.0	6.3.0	T2	Technical realization of Short Message Service (SMS)	Enhanced Voice Mail Information. Optional IEI's.
ARIB STD-T63-23.140	6.6.0	6.5.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Addition of recipient list to MM4_Forward.RES. Correcting "X-Mms-Read-Status" erroneous mapping on Annex I. Changing erroneous OMA references from MMS1.1 to MMS1.2. MM7 delivery conditions for MMS. Size indication by MMS UA.
ARIB STD-T63-23.207	6.3.0	6.2.0	S2	End-to-end Quality of Service (QoS) concept and architecture	PDF rejects the authorisation because the service information is not consistent with the operator policy rules defined in the PDF. Application Function and service information on Gq Interface were strengthened. In the particular case of IMS, the AF is the P-CSCF which is in the same domain as the GGSN. A condition that PDF updates the authorization for the

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					session was added as, if the session description is consistent with the operator policy rules defined in the PDF.
ARIB STD-T63-23.228	6.6.0	6.5.0	S2	IP Multimedia Subsystem(IMS); Stage 2	The capability the message-sessions draft in IETF supports the inviting UE to either offer to host the message session or request the invited UE to host the session was removed. And it was added that SBLP is not possible with Session based messaging sessions. IPv4 is possible to use IMS-ALG and TrGW to IPv6 IMS interworking by making the interworking section generic instead of specific to IMS to external networks. Session flow examples for originating and terminalling IMS sessions were added. Abbreviation of SDP: Session Description Protocol was added. If charging mechanisms like charging based on the message content, an intermediate node (messaging AS) shall be involved. For an incoming SIP request, the S-CSCF shall perform any filtering for ISC interaction before performing other routing procedures towards the terminating use. S-CSCF shall check the registration request against the filter information and if necessary inform the application server about the registration of the user. ISC interface shall be able support subscription to event notifications between the Application Server and S-CSCF to allow the Application Server to be notified of the implicit registered public user identities, registration state and UE capabilities and characteristics.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					Private User Identity identifies the subscription, not the user. It was clarified that IMS identities can only be shared within an IMS subscription, that all Public User Identities within a single subscription are registered at the same S-CSCF and that shared identities in Release 6 are not intended to support services in which large numbers of different users register a contact against a single identity. Subscription option to prevent simultaneous registration of a shared identity by multiple contacts was removed. The sentences stating that the interface between the P-CSCF and the PDF is not standardised was removed. When the P-CSCF receives the INVITE Request from the UE. The Authorization-Token is generated by the PDF and stored in the P-CSCF. Session based messaging release procedure with an intermediate node was added. UE in local network shall store Home network contact information in Service-route header after registration.
ARIB STD-T63-25.104	6.6.0	6.5.0	R4	UTRA (BS) FDD; Radio transmission and reception	Introduction of new performance requirements without Rx diversity, Redrafting of spurious emission and blocking tables, and Correction on terminology were made.
ARIB STD-T63-25.133	6.6.0	6.5.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in release 5 (V.5.11.0) was made. Clarification of BSIC verification and removal of 5s limitation of identification time in interfrequency handover were made.
ARIB STD-T63-25.141	6.6.0	6.5.0	R4	Base station conformance testing (FDD)	Introduction of new performance requirements without Rx diversity, Redrafting of spurious emission and blocking

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					tables, and Correction on terminology were made. (corresponding changes as in 25.104 v6.6.0) Clarification of test procedures for HS-DPCCH and other corrections were made.
ARIB STD-T63-25.211	6.1.0	6.0.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The restriction that the P-CPICH shall always be a phase reference for DPCH and associated shared channels with Closed Loop Tx Diversity is removed. Instead the S-CPICH is re-introduced as phase reference. N_{TFCI} field of DL-DPCCH power preamble for CPCH is clarified.
ARIB STD-T63-25.212	6.2.0	6.1.0	R1	Multiplexing and channel coding (FDD)	Formulas to calculate the channelization code-set information bits are clarified.
ARIB STD-T63-25.214	6.2.0	6.0.0	R1	Physical layer procedures (FDD)	Clarifies that UE shall follow the synchronisation procedure A when attempting to re-establish the DPCH after a inter-RAT, intra- or inter-frequency hard handover failure. Clarify that when resuming uplink DPCCH transmission the UE shall use the same active set, the same DPCCH power as before the handover attempt and the latest N_{pcp} value signalled by higher layer for the current DPCH.
ARIB STD-T63-25.304	6.2.0	6.1.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	Correction to UE selection of reserved cells and modification of the Sintersearch and $S_{search_{RAT,m}}$ behaviour and selection of suitable cell
ARIB STD-T63-25.305	6.1.0	6.0.0	R2	Stage 2 Functional Specification of UE Positioning in UTRAN	Corrections to time stamp in position information report and to SRNC relocation and addition of the Indication of achieved accuracy in position estimate
ARIB STD-T63-25.306	6.2.0	6.1.0	R2	UE Radio Access capabilities	Correction to memory handling in the UE
ARIB STD-T63-25.321	6.2.0	6.1.0	R2	MAC protocol specification	Addition of use of U-RNTI in downlink and State variables arithmetic comparison

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.401	6.3.0	6.2.0	R3	UTRAN Overall Description	Introduction of lu and lur support of Network Assisted Cell Change from UTRAN to GERAN Completion of the REL-5 IP Transport WI
ARIB STD-T63-25.420	6.1.0	6.0.0	R3	UTRAN lur Interface: General Aspects and Principles	Inclusion of Information Transfer as an lur function Trace Parameter Propagation over the lur Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.423	6.2.0	6.1.0	R3	UTRAN lur interface RNSAP signalling	Correction the presence of Traffic Class IE Inclusion of scrambling code information in HS-DSCH FDD Information Response IE Node B usage of the MAC-hs re-ordering buffer size Unsuccessful Operation of RL Setup Procedure for HSDPA Clarification on number of and capacity reporting of Priority Queues Power Balancing Corrections HSDPA Corrections in RL Reconfiguration Trace Parameter Propagation over the lur
ARIB STD-T63-25.426	6.2.0	6.1.0	R3	UTRAN lur and lub interface data transport & transport signalling for DCH data streams	Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.430	6.1.0	6.0.0	R3	UTRAN lub Interface: General Aspects and Principles	Clarification on Node B Communication Contexts Completion of the Rel-5 IP transport WI
ARIB STD-T63-25.433	6.2.0	6.1.0	R3	UTRAN lub interface NBAP signalling	Correction of PHYSICAL SHARED CHANNEL RECONFIGURATION message Node B usage of the MAC-hs re-ordering buffer size Unsuccessful Operation of RL Setup Procedure for HSDPA Clarification on number of and capacity reporting of Priority

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					Queues Power Balancing Corrections
ARIB STD-T63-25.453	6.5.0	6.4.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Correction to usage of INITIAL UE POSITION
ARIB STD-T63-26.235	6.1.0	6.0.0	S4	Packet switched conversational multimedia application; Default codecs	Introduction of the DSR codec.
ARIB STD-T63-27.007	6.5.0	6.4.0	T2	AT command set for 3G User Equipment (UE)	Updating error codes description to support UICC.
ARIB STD-T63-31.102	6.6.0	6.5.0	T3	Characteristics of the USIM Application	• Correction of coding example for MMS Issuer/User Connectivity Parameters • Addition of WLAN files • VGCS security • Correction of presence indication for NIA, VGCS/VBS files • Correction of phonebook example
ARIB STD-T63-31.103	6.4.0	6.3.0	T3	Characteristics of the ISIM Application	• Clarification that the P-CSCF address shall not be used by a 3GPP terminal accessing a Interworking WLAN (as a result of LS from CN1)
ARIB STD-T63-31.111	6.2.0	6.1.0	T3	USIM Application toolkit (USAT)	• Consistency update, Alignment with new features with SCP TS 102 223 • Correction of the value of UTRAN packet service in the bearer description • Suppression of redundant description of Icon Identifier
ARIB STD-T63-31.130	6.0.1	6.0.0	T3	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	addition of Javascript file
ARIB STD-T63-33.102	6.1.0	6.0.0	S3	3G security; Security architecture	Handling of key sets at inter-system change. Clarification on Authentication re-attempt parameter.
ARIB STD-T63-33.106	6.1.0	6.0.0	S3	Lawful interception requirements	Clarification on delivery of IRI and CC.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.107	6.2.0	6.1.0	S3	3G security; Lawful interception architecture and functions	Correction on Network initiated Mobile Station Detach signalling flow. TEL-URL missing in activation of LI in the CSCFs. Correction on the use of session initiator parameter. Correction to HLR interception event name. Clarification for Push to talk over Cellular. Adding an encryption parameter to IRI across X2 interface. References. Enhancements for the Functional Architecture chapter.
ARIB STD-T63-33.108	6.6.0	6.5.0	S3	3G security; Handover interface for Lawful interception	Correction on interception identities in multi-media domain. WGS 84 coordinates length correction. CR offering alignment to ETSI TS 101 671. Additional text for Definition and Acronym section.
ARIB STD-T63-33.203	6.3.0	6.2.0	S3	3G security; Access security for IP-based services	Correction on IMS confidentiality protection. SIP Privacy mechanism when IMS interworking with non-IMS (foreign) network.
ARIB STD-T63-33.210	6.5.0	6.4.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Diffie-Hellman groups in NDS/IP.
ARIB STD-T63-33.220	6.1.0	6.0.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Removal of Annex A. NAF remove the security associations. Removal of editors notes on Transaction Identifiers. Introduction of a UICC-based Generic Bootstrapping Architecture. Editorial corrections to TS 33.220. Support for NAF in visited network.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.20	Version at ARIB STD-T63 Ver.4.10	3GPP WG	Title	Change Summary
					Editorial changes and clarifications to TS 33.220. Multiple key derivation mandatory. NAF's public hostname verification.
ARIB STD-T63-33.234	6.1.0	6.0.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	Profiling of IKEv2 and ESP for NAT traversal. Sending of temporary identities from WLAN UE. Extension of IKEv2 and IPsec profiles. Support of EAP SIM and AKA in AAA server and WLAN UE. Introduction of UE split alternative 2 in TS 33.234. Re-authentication failure notification to HSS. Identity request procedure clarification. WLAN mechanism to allow restrictions on simultaneous sessions. Requirement on keeping WLAN access keys independent from 2G/3G access keys stored in USIM.
ARIB STD-T63-33.310	6.1.0	6.0.0	S3	Network domain security; Authentication framework (NDS/AF)	Removal of inconsistencies regarding SEG actions during IKE phase 1. Removal of unnecessary restriction on CA path length. Correction of 'Extended key usage' extension in SEG Certificate profile.

(Annex 19)

3GPP ARIB Change history List of Standards Ver. 4.30

14 December 2004

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.133	3.19.0	3.18.0	R4	Requirements for Support of Radio Resource Management (FDD)	- Modification to get alignment of the activation time definition between TS 25.133 and TS 25.331 was made. - Test parameter for event triggered reporting with event 1B was changed.
ARIB STD-T63-25.307	3.4.0	3.3.0	R2	Requirements on User Equipments (Ues) supporting a release-independent frequency band	Correction to applicable TS25.101 clauses/section for release independent operation
ARIB STD-T63-25.433	3.14.2	3.14.1	R3	UTRAN Iub interface NBAP signalling	ASN.1 editorials
ARIB STD-T63-31.111	3.13.0	3.12.0	T3	Universal Subscriber Identity Module Application Toolkit (USAT)	- Correction of possible terminal responses versus proactive commands in relation to the display of icons - Essential corrections in content and coding of BC Repeat

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					indicator
ARIB STD-T63-31.121	3.10.0	3.9.0	T3	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- alignment with TS 51.010-1 on default EF-ADN configuration - Essential Corrections on sections 2-6 - Essential Corrections on section 7 - Correction of SMS related test cases - Correction of Access Control handling related test case TC 5.2.1.
ARIB STD-T63-34.109	3.10.0	3.9.0	T1	Terminal logical test interface; Special conformance testing functions	- Correction to figure 5.3.2.6.2.2(UE test loop mode 1, Loopback of RLC SDUs) - UE test loop mode with PDCP configuration - Addition of RESET UE POSITIONING STORED INFORMATION message
ARIB STD-T63-34.123-3	3.7.0	3.6.1	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Additions and corrections of test cases.

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-23.038	4.5.0	4.4.0	T2	Alphabets and language-specific information	Message Waiting Indication – how to handle Multiple Subscriber Profiles
ARIB STD-T63-23.040	4.9.0	4.8.0	T2	Technical realization of Short Message Service (SMS)	Special Message Indication – how to handle Multiple Subscriber Profiles
ARIB STD-T63-25.133	4.13.0	4.12.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes as in release 99 (V.3.19.0) were introduced.
ARIB STD-T63-25.433	4.13.0	4.12.0	R3	UTRAN Iub interface NBAP signalling	- Addition of TSTD for S-CCPCH, PICH and PDSCH in 1.28 Mcps TDD - Clean up of NBAP - Clarification on the FPACH configuration for 1.28Mcps TDD
ARIB STD-T63-31.111	4.12.0	4.11.0	T3	Universal Subscriber Identity Module Application Toolkit (USAT)	Essential corrections in content and coding of BC Repeat indicator
ARIB STD-T63-31.121	4.9.0	4.8.0	T3	UICC-terminal interface; Application Test specification	- Alignment with TS 51.010-1 on default EF-ADN configuration

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					- Essential Corrections on sections 2-6 - Essential Corrections on section 7 - Correction of SMS related test cases - Correction of Access Control handling related test case TC 5.2.1. - Creation of MMS related tests
ARIB STD-T63-34.109	4.6.0	4.5.0	R2	Terminal logical test interface; Special conformance testing functions	UE test loop mode with PDCP configuration and Addition of RESET UE POSITIONING STORED INFORMATION message

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.308	5.6.0		R2	UTRA High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	The present document is a technical specification of the overall support of High Speed Downlink Packet Access in UTRA.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-23.038	5.1.0	5.0.0	T2	Alphabets and language-specific information	Message Waiting Indication – how to handle Multiple Subscriber Profiles
ARIB STD-T63-23.040	5.8.1	5.7.1	T2	Technical realization of Short Message Service (SMS)	Inclusion of Compression Test Vectors file into the zip - was missed out by mistake
ARIB STD-T63-25.101	5.12.0	5.11.0	R4	UE Radio transmission and reception (FDD)	- Transmit power level of HS-PDSCH in several test cases were modified to keep consistency. - Correction to OCNS code allocation for HSDPA testing was made.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	5.9.0	5.8.0	R4	Base Station (BS) radio transmission and reception (FDD)	Regional Requirement for Japan on HSDPA was removed.
ARIB STD-T63-25.133	5.12.0	5.11.0	R4	Requirements for support of radio resource management (FDD)	- Requirements for number of reporting criteria for traffic volume measurements in cell_FACH state were settled (Square brackets were removed). - FDD/FDD Hard Handover test case was revised. Corresponding changes as in release 4 (V.4.13.0) were introduced as well.
ARIB STD-T63-25.141	5.9.0	5.8.0	R4	Base Station (BS) conformance testing (FDD)	Regional Requirement for Japan on HSDPA was removed.
ARIB STD-T63-25.211	5.6.0	5.5.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Correct the slot range of DL DPCCH power control preamble for CPCH.
ARIB STD-T63-25.301	5.3.0	5.2.0	R2	Radio interface protocol architecture	Removal of DCCH mapping on HS-DSCH
ARIB STD-T63-25.304	5.6.0	5.5.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	HCS measurement rules & high-mobility
ARIB STD-T63-25.307	5.3.0	5.2.0	R2	Requirements on User Equipments (Ues) supporting a release-independent frequency band	Correction to applicable TS25.101 clauses/section for release independent operation
ARIB STD-T63-25.401	5.9.0	5.8.0	R3	UTRAN overall description	Terminology correction of IP ALCAP CR
ARIB STD-T63-25.423	5.11.0	5.10.0	R3	UTRAN Iur interface RNSAP signalling	- Correction to tabular text associated with TDD DPCH Offset IE - Ignore the <i>Traffic Class</i> IE if the <i>TrCH Source Statistics Descriptor</i> IE indicates the value "RRC"

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.426	5.6.0	5.5.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Terminology correction of IP ALCAP CR
ARIB STD-T63-25.430	5.4.0	5.3.0	R3	UTRAN Iub Interface: General Aspects and Principles	- Clarification on the Uplink Power Control for 1.28Mcps TDD
ARIB STD-T63-25.433	5.10.0	5.9.0	R3	UTRAN Iub interface NBAP signalling	- Use of Communication Context id in NBAP reset - Addition of TSTD for S-CCPCH, PICH and PDSCH in 1.28 Mcps TDD - Re-wording of the Intra-Node B Serving HS-DSCH Radio Link Change in the Prepared Radio Link Reconfiguration procedure - Correction to tabular text associated with TDD DPCH Offset IE - Clean up of NBAP - Clarification on the FPACH configuration for 1.28Mcps TDD - Editorial correction HSDPA IEs
ARIB STD-T63-26.103	5.5.0	5.4.0	S4	Speech codec list for GSM and UMTS	Correction of Size and Reference of MuMe Codec
ARIB STD-T63-31.102	5.10.0	5.9.0	T3	Characteristics of the USIM Application	- Correction of a wrong reference to TS 102 221 - Correction of PPS procedure
ARIB STD-T63-31.103	5.7.0	5.6.0	T3	Characteristics of the IP Multimedia Services Identity Module (ISIM) application	Correction of PPS procedure
ARIB STD-T63-31.111	5.7.0	5.6.0	T3	Universal Subscriber Identity Module Application Toolkit (USAT)	Essential corrections in content and coding of BC Repeat indicator

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.102	5.5.0	5.4.0	S3	3G Security Architecture	Correction to mis-implementation of CR175 (USIM support in GERAN only terminals): Rel4-definition
ARIB STD-T63-33.203	5.9.0	5.8.0	S3	3G security; Access security for IP-based services	Deletion of old authentication vectors in S-CSCF after re-synchronization
ARIB STD-T63-34.108	5.2.0	5.1.0	T1	Common test environments for User Equipment (UE) conformance testing	Additions of default message and corrections.
ARIB STD-T63-34.109	5.4.0	5.3.0	T1	Terminal logical test interface; Special conformance testing functions	- UE test loop mode with PDCP configuration - Addition of RESET UE POSITIONING STORED INFORMATION message - Increase of maximum number of loopback entities
ARIB STD-T63-34.121	5.5.0	5.4.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	- Corrections and clarifications. - Some new test cases introduced. - Some test conditions and criteria are modified.
ARIB STD-T63-34.123-1	5.9.0	5.8.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Many corrections, additions and removals related to TDD, HSDPA, InterRAT, ..etc. Some new test cases are also introduced.
ARIB STD-T63-34.123-2	5.9.0	5.8.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	- Corrections, additions and removals. - Some changes are related to introduction of new test cases.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.171	6.0.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	The document specifies minimum performance requirements for A-GPS for FDD mode of UTRA for the User Equipment.
ARIB STD-T63-25.308	6.2.0		R2	UTRA High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	The present document is a technical specification of the overall support of High Speed Downlink Packet Access in UTRA.
ARIB STD-T63-25.309	6.0.0		R2	FDD enhanced uplink; Overall description; Stage 2	The present document is a technical specification of the overall support of FDD Enhanced Uplink in UTRA.
ARIB STD-T63-26.101	6.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	The present document describes a generic frame format for the Adaptive Multi-Rate (AMR) speech codec and the Enhanced Full Rate (GSM-EFR) speech codec. This format shall be used as a common reference point when interfacing speech frames between different elements of the 3G system and between different systems.
ARIB STD-T63-26.102	6.0.0		S4	Adaptive Multi-Rate (AMR) speech codec; Interface to lu and Uu	The present document specifies the mapping of the AMR generic frame format (3GPP TS 26.101) to the lu Interface (3GPP TS 25.415), the Uu Interface and the Nb Interface (3GPP TS 29.415). It further specifies the mapping of Enhanced Full Rate (GSM-EFR) coded speech and of PCM 64 kBit/s (ITU-T G.711) coded speech to the Nb Interface.
ARIB STD-T63-26.103	6.0.0		S4	Speech codec list for GSM and UMTS	The present Technical Specification outlines the Codec Lists in 3GPP including both systems, GSM and UMTS, to be used by the Out of Band Transcoder Control (OoBTC)

Added Standard Number	Version at ARIB STD-T63 Ver.4.30		3GPP WG	Title	New Document Summary
					protocol to set up a call or modify a call in Transcoder Free Operation (TrFO) and in "transcoder at the edge" scenarios.
ARIB STD-T63-26.111	6.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	In the present document is described additions, deletions, and changes made to ITU-T Recommendation H.324 with annex C for the purpose of using that recommendation as a basis for the technical specification for circuit switched multimedia service in 3GPP networks. The present document does not address call setup procedures, but references to the specifications which cover call setup are found in 3GPP TS 26.110.
ARIB STD-T63-26.131	6.0.0		S4	Terminal acoustic characteristics for telephony; Requirements	The present document specifies minimum performance requirements for the acoustic characteristics of 3G terminals when used to provide narrow-band or wideband telephony.
ARIB STD-T63-26.132	6.0.0		S4	Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification	The present document specifies test methods to allow the minimum performance requirements for the acoustic characteristics of 3G terminals when used to provide narrow-band or wideband telephony to be assessed.
ARIB STD-T63-26.140	6.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	The present document specifies the media types, formats and codecs for the MMS within the 3GPP system. The scope of the present document extends to codecs for speech, audio, video, still images, bitmap graphics, and other media in general, as well as scene description, multimedia integration and synchronization schemes.
ARIB STD-T63-26.233	6.0.0		S4	End-to-end transparent streaming service; General description End-to-end transparent streaming service; General description	The present document contains a general description of a transparent packet-switched streaming service in 3GPP-defined networks. In particular, it defines the usage scenarios, overall high-level end-to-end service concept, and lists terminal related functional components. It also

Added Standard Number	Version at ARIB STD-T63 Ver.4.30		3GPP WG	Title	New Document Summary
					lists any identified service interworking requirements.
ARIB STD-T63-26.290	6.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	This Telecommunication Standard (TS) describes the detailed mapping from input blocks of monophonic or stereophonic audio samples in 16 bit uniform PCM format to encoded blocks and from encoded blocks to output blocks of reconstructed monophonic or stereophonic audio samples.
ARIB STD-T63-26.304	6.0.0		S4	Floating--point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec	The present document contains an electronic copy of the ANSI-C code for the Floating-point Extended Adaptive Multi-Rate Wideband codec. Alternatively, fixed-point ANSI-C code is specified in 3GPP TS 26.273.
ARIB STD-T63-26.401	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	This Telecommunication Standard (TS) describes the detailed mapping from an MPEG-4 bitstream containing Enhanced aacPlus coded audio to PCM sample output. The Enhanced aacPlus audio codec is based on the AAC, SBR and Parametric Stereo coding tools defined in the MPEG-4 Audio standard. In addition it includes further tools such as error concealment, spline resampler, and stereo-to-mono downmix.
ARIB STD-T63-26.402	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	This Telecommunication Standard (TS) describes the error concealment algorithm, SBR parameter downmix and output resampling for the Enhanced aacPlus general audio codec.
ARIB STD-T63-26.403	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	This Telecommunication Standard (TS) describes the AAC encoder part of the Enhanced aacPlus general audio codec.
ARIB STD-T63-26.404	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band	This Telecommunication Standard (TS) describes the SBR encoder part of the Enhanced aacPlus general audio codec.

Added Standard Number	Version at ARIB STD-T63 Ver.4.30		3GPP WG	Title	New Document Summary
				Replication (SBR) part	
ARIB STD-T63-26.405	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	This Telecommunication Standard (TS) describes the Parametric Stereo encoder part of the Enhanced aacPlus general audio codec.
ARIB STD-T63-26.410	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	The present document contains an electronic copy of the ANSI-C code for the Floating-point Enhanced aacPlus codec.
ARIB STD-T63-33.246	6.0.0		S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	This TS covers the security procedures of the Multimedia Broadcast/Multicast Service (MBMS) for 3GPP systems (UTRAN and GERAN). MBMS is a GPRS network bearer service over which many different applications could be carried. The actual method of protection may vary depending on the type of MBMS application.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-22.038	6.3.0	6.2.0	S1	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	The MM display capability by the USAT is added, using the terminal MMS user agent.
ARIB STD-T63-22.146	6.6.0	6.5.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	- R-6 removal of notification requirement while receiving PS or CS services for GERAN. - Explicit requirements for key management are added,

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					clearly indicating the priority of the mechanisms.
ARIB STD-T63-22.246	6.2.0	6.1.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Minor editorial modifications to chapter 5, 6.1 and Annex A.
ARIB STD-T63-23.038	6.1.0	6.0.0	T2	Alphabets and language-specific information	- Message Waiting Indication – how to handle Multiple Subscriber Profiles. - Enhanced Voice Mail Information – not applicable for CBS
ARIB STD-T63-23.040	6.5.0	6.4.0	T2	Technical realization of Short Message Service (SMS)	- Special Message Indication – introduction of Multiple Subscriber Profiles. - Enhanced Voice Mail Information – access number priority.
ARIB STD-T63-23.140	6.7.0	6.6.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	- Deletion of annex K.6. - Clarification about WAP-based and IP-based MM1 implementations. - Adding status text in the MM1 Delivery Report. Indication about Content Adaptation. - Clarification of interpretation of value “No” in Information Element “Forward to Originator UA” in the MM4 Delivery Report Forwarding. - Clarification of MM4_Forward.RES covering partial status information. - Support for multiple and single recipients on MM4. Adding the Information Elements VASID and VASPID to the MM7_Deliver.REQ. - Support of Messaging Service Control Function (MSCF). Additional DRM Requirements to the MMS Relay Server
ARIB STD-T63-23.207	6.4.0	6.3.0	S2	End-to-end Quality of Service (QoS) concept and architecture	Generation of multiple token option is removed.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	6.7.0	6.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- A requirement is added to allow maximum message size to be indicated during set-up and modification of a session based messaging sessions. - It is proposed to add the ISC interface checking to IMS registration requirement and clarify 5.2.1 so that S-CSCF can decide when and whether the initial Register message or re-register messages to be communicated directly to the AS. - Add some description to clarify that there exists other conditions for the UE to initiate a Re-Registration Procedure. - Remove the text added for IMS Emergency Services and replace it with the statement from the R5 version. - Clarified that the UE and MGCF will not cancel other early dialogs when a 200 OK is received. - The possibility to tear down the transport connection is moved to directly after a BYE request is sent or received. - The proposed generic signalling flow will be used first in the context of session based messaging (see CR443). - Adapted signaling flows to the current version of the IETF draft and to the general signaling flow. - Each endpoint may immediately indicate that its local preconditions are fulfilled if no resource reservation is required. The resource reservation requirements of the peer have no influence on the local precondition usage. - Clarification that media components that are not subject to explicit indication from the P-CSCF regarding mapping

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					to PDP Contexts can be mapped in any manner chosen by the UE.
ARIB STD-T63-25.101	6.5.0	6.4.0	R4	User Equipment (UE) radio transmission and reception (FDD)	- Correction of maximum allowed power and range in TFC selection with HS-DPCCH and other clarifications were made. - Clarification of test parameter of reliable TPC command combining was made. Editorial change on UE maximum input level for HS-PDSCH was made. - Modification for clarification to change of TFC and compressed mode time mask diagrams was made. - Corresponding change in previous version of release 5 (V.5.11.0), which was on "UE maximum output power with HS-DPCCH", as well as other corresponding changes in the latest version of release 5 (V.5.12.0) were made.
ARIB STD-T63-25.104	6.7.0	6.6.0	R4	UTRA (BS) FDD; Radio transmission and reception	- Corresponding change as in release 5 (V.5.9.0), which was on "Removal of regional requirement for Japan on HSDPA" was made. - Another modification on Band V (850MHz band in US) was also made.
ARIB STD-T63-25.133	6.7.0	6.6.0	R4	Requirements for support of radio resource management (FDD)	- FDD inter frequency fading test case was corrected. - Scenarios for cell reselection test requirements were added. - Modification on RX-TX timing test for soft handover was made. - Delay range for RX-TX timing test was specified as well. Corresponding changes as in release 5 (V.5.12.0) were also introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	6.7.0	6.6.0	R4	Base station conformance testing (FDD)	- Corresponding change as in release 5 (V.5.9.0), which was on "Removal of regional requirement for Japan on HSDPA" was made. - Another modification on Band V (850MHz band in US) was also made.
ARIB STD-T63-25.211	6.2.0	6.1.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Correct the slot range of DL DPCH power control preamble for CPCH.
ARIB STD-T63-25.214	6.3.0	6.2.0	R1	Physical layer procedures (FDD)	Clarify when SSOT uplink only signalling is supported.
ARIB STD-T63-25.303	6.1.0	6.0.0	R2	Interlayer procedures in Connected Mode	Clarification to SRNS Relocation
ARIB STD-T63-25.304	6.3.0	6.2.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	HCS measurement rules & high-mobility
ARIB STD-T63-25.401	6.4.0	6.3.0	R3	UTRAN Overall Description	- Introduction of I-UTRAN into UTRAN architecture for control of RET Antennas - Terminology correction of IP ALCAP CR
ARIB STD-T63-25.423	6.3.0	6.2.0	R3	UTRAN Iur interface RNSAP signalling	- Correction of Trace reference in Deactivate trace - Correction to tabular text associated with TDD DPCH Offset IE - Ignore the <i>Traffic Class</i> IE if the <i>TrCH Source Statistics Descriptor</i> IE indicates the value "RRC"
ARIB STD-T63-25.426	6.3.0	6.2.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Terminology correction of IP ALCAP CR
ARIB STD-T63-25.430	6.2.0	6.1.0	R3	UTRAN Iub Interface: General Aspects and Principles	Clarification on the Uplink Power Control for 1.28Mcps TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	6.3.0	6.2.0	R3	UTRAN Iub interface NBAP signalling	- Use of Communication Context id in NBAP reset - Addition of TSTD for S-CCPCH, PICH and PDSCH in 1.28 Mcps TDD - Re-wording of the Intra-Node B Serving HS-DSCH Radio Link Change in the Prepared Radio Link Reconfiguration procedure - Correction to tabular text associated with TDD DPCH Offset IE - Review on NBAP - Clarification on the FPACH configuration for 1.28Mcps TDD - Editorial correction for HSDPA IEs
ARIB STD-T63-25.453	6.6.0	6.5.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Introduction of the requested accuracy and an indication of achieved accuracy in Position Calculation procedure over Iupc interface
ARIB STD-T63-26.234	6.1.0	6.0.0	S4	Transparent end-to-end streaming service; Protocols and codecs	- Additional Release-6 updates to PSS Protocols and codecs - Introduction of Extended AMR-WB and Enhanced AACPlus into PSS service - Introduction of the H.264 (AVC) video codec into the PSS service
ARIB STD-T63-26.235	6.2.0	6.1.0	S4	Packet switched conversational multimedia application; Default codecs	- Language improvement and alignment - Introduction of the H.264 video codec into packet-switched conversational services - Support for 128 kbps video in the packet-switched conversational services
ARIB STD-T63-26.244	6.1.0	6.0.0	S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	- Storage of AMR-WB+ audio in 3GP files - Additional Release 6 update to 3GP file format

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					- Storage of H.264 (AVC) video in 3GP files - Storage of Enhanced aacPlus audio in 3GP files
ARIB STD-T63-27.007	6.6.0	6.5.0	T2	AT command set for 3G User Equipment (UE)	- Correction to AT command +CHSN. - Support of logical channels in AT commands.
ARIB STD-T63-31.101	6.3.0	6.2.0	T3	UICC-terminal interface; Physical and logical characteristics	- Requirement for higher UICC/Terminal interface speed - Move "GSM/USIM application interactions and restrictions" from ETSI TS 102 221
ARIB STD-T63-31.102	6.7.0	6.6.0	T3	Characteristics of the USIM Application	- VGCS/VBS security - MMs storage on the card - GBAU ME-USIM interface - Introduction of M-IMAP and SIP as MMS implementations in MMS provisioning - Editorial changes in WLAN identities lists - Storage of WLAN fast re-authentication information - MBMS security - Removal of a wrong reference to 102 221 - Alignment with requirements regarding USSD usage
ARIB STD-T63-31.103	6.5.0	6.4.0	T3	Characteristics of the ISIM Application	- New 3GPP2 IMS authentication context in ISIM - GBAU ME-ISIM interface
ARIB STD-T63-31.111	6.3.0	6.2.0	T3	USIM Application toolkit (USAT)	- MMS Management by USAT - Correction of wording for call control - Alignment with SCP TS 102 223 - Disallow SMS/SS/USSD transmission in the case where UICC responds with an error status code in Envelope Confirmation. - Modifications in the reference - Alignment with requirements regarding USSD usage - Essential corrections in content and coding of BC Repeat indicator - Add the Network measurement information for UTRAN in PROVIDE LOCAL INFORMATION functionality. - Description of the USSD flow

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.116	6.5.0	6.4.0	T3	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Alignment with TS 102 226 V6.8.0
ARIB STD-T63-33.102	6.2.0	6.1.0	S3	3G security; Security architecture	Correction to mis-implementation of CR175 (USIM support in GERAN only terminals): Rel4-definition
ARIB STD-T63-33.107	6.3.0	6.2.0	S3	3G security; Lawful interception architecture and functions	- Correction on the use of session initiator parameter - ICE (Intercepting Control Elements), INE (Intercepting Network Elements) definition - Clarification to SMS interception - Replace SIP URL with SIP URI
ARIB STD-T63-33.108	6.7.0	6.6.0	S3	3G security; Handover interface for Lawful interception	- Explanation concerning the Sequence Number - National ASN.1 parameter - Clarifying clause titles - Adding azimuth in location - Correction of the Subaddressing definitions - Correction to hi3DomainId definition - Correction of wrong use of abbreviations - Differences between subaddress sections in 33.108 and ETSI TS 101 671 - Replace SIP URL with SIP URI - Corrections to References
ARIB STD-T63-33.141	6.1.0	6.0.0	S3	Presence service; Security	- ISIM used in GBA - Further modifications to TLS profile related text in 33.141 - Editorial cleanup of TS 33.141

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
					- Clarification on Ut interface
ARIB STD-T63-33.203	6.4.0	6.3.0	S3	3G security; Access security for IP-based services	- Deletion of old authentication vectors in S-CSCF after re-synchronization - SIP Privacy mechanism when IMS interworking with non-IMS (foreign) network - IMS Service Profile is independent from Implicit Registration Set
ARIB STD-T63-33.220	6.2.0	6.1.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Detailing of key lifetime - Details of USIM/ISIM usage in GAA - Generic Ua interface requirements - B-TID generation - Securing Zn reference point - GBA User Security Settings - Creation of GBA_U AV in the BSF - Clarification of the definition of a default type of NAF-specific key
ARIB STD-T63-33.221	6.1.0	6.0.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	- User security settings - Editorial cleanup - Cleanup of procedure descriptions - Removal of unnecessary editor's notes
ARIB STD-T63-33.222	6.1.0	6.0.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	- GBA User Security Settings - GBA supported indication and NAF hostname transfer in HTTP and in PSK TLS - Editorial clean-up of TS 33.222 - Further modifications to TLS profile related text in 33.222

Revised Standard Number	Version at ARIB STD-T63 Ver.4.30	Version at ARIB STD-T63 Ver.4.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.234	6.2.1	6.1.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Update reference to RFC3748 "Extensible Authentication Protocol (EAP)" - References update - Sending of temporary identities from WLAN UE - Clarification on fast re-authentication procedure - Correction of authentication procedure for WLAN UE split - Wa interface security - Introduction of protected result indications - Tunnel authentication procedure in Wm interface - Modification of mechanism to restrict simultaneous WLAN sessions
ARIB STD-T63-33.310	6.2.0	6.1.0	S3	Network domain security; Authentication framework (NDS/AF)	Splitting the Roaming CA into a SEG CA and an Interconnection CA

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.14.0	3.13.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-31.120	3.1.0	3.0.0	T3	Terminal tests for the UICC Interface; Part1	Alignment to ETSI TS 102230
ARIB STD-T63-31.121	3.11.0	3.10.0	T3	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Correction of non specific references
ARIB STD-T63-31.122	3.8.0	3.7.0	T3	UICC Test Specification	Correction of non specific references
ARIB STD-T63-34.123-3	3.8.0	3.7.0	T1	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Many additions and corrections of test cases.

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.120	4.0.0		T3	UICC-terminal interface; Physical, electrical and logical test specification	The present document defines the interface tests for the Terminal / UICC interface.
ARIB STD-T63-31.122	4.0.0		T3	Universal Subscriber Identity Module (USIM) conformance test specification	The present document provides the Conformance Test Specification for a Universal IC Card (UICC) with Universal Subscriber Identity Module (USIM).

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.11.0	4.10.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-26.103	4.4.0	4.3.0	S4	Codec lists	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Clarifications for AMR, Alternative 1

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-27.005	4.2.1	4.2.0	T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Make figure 0.1(Block, Text and PDU modes) visible
ARIB STD-T63-28.062	4.6.0	4.2.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Operator Guidelines for UMTS_AMR
ARIB STD-T63-31.101	4.2.1	4.1.0	T3	UICC-Terminal Interface; Physical and Logical Characteristics	Correction of non specific references
ARIB STD-T63-31.102	4.14.0	4.13.0	T3	Characteristics of the USIM Application	Clarification of EXT8 coding (MMS notification extension)
ARIB STD-T63-31.111	4.13.0	4.12.0	T3	Universal Subscriber Identity Module Application Toolkit (USAT)	Correction for non 3GPP references
ARIB STD-T63-31.121	4.10.0	4.9.0	T3	UICC-terminal interface; Application Test specification	Correction of non specific references

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.048	5.0.4		T3	Security mechanisms for the (U)SIM application toolkit; Test specification	The present document covers the minimum characteristics considered as necessary in order to provide compliance to 23.048 " Security Mechanisms for the (U)SIM application toolkit; Stage 2"
ARIB STD-T63-31.120	5.0.0		T3	UICC-terminal interface; Physical, electrical and logical test specification	The present document specifies the interface test for the Terminal / UICC.
ARIB STD-T63-31.121	5.0.0		T3	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Insertion/enhancement of various tests and integration of GERAN MEs into the scope

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.8.0	5.7.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-23.107	5.13.0	5.12.0	S2	Quality of Service, Concept and Architecture	Adds text for the SGSN to verify the use of delivery order. Also for the UE to set to "no" where possible.
ARIB STD-T63-23.228	5.13.0	5.12.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Delete the option.
ARIB STD-T63-23.236	5.3.0	5.2.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	- It is clarified that the NRI shall be coded in bits 23 to 14. An NRI shorter than 10 bits is adjusted so that the most significant bit of the NRI field is bit 23. - Text in sub clauses 5.3.2 is clarified.
ARIB STD-T63-25.101	5.13.0	5.12.0	R4	UE Radio transmission and reception (FDD)	- Modification of HSDPA requirements and correction of minimum requirements for Blocking Characteristics were made. - Enhanced Performance requirement on FRC throughput for PA3 cases was introduced.
ARIB STD-T63-25.133	5.13.0	5.12.0	R4	Requirements for support of radio resource management (FDD)	Removal of BLER target on test purpose for UE transmitted power and Harmonisation of test parameters for Cell re-selection between TS25.133 and TS34.108 were made.
ARIB STD-T63-25.214	5.10.0	5.9.0	R1	Physical layer procedures (FDD)	Corrects downlink transmit power control in compressed mode.
ARIB STD-T63-25.303	5.2.0	5.1.0	R2	Inter-layer Procedures in Connected Mode	Clarification of inter-layer dependencies

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.304	5.7.0	5.6.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Cell selection and reselection parameters - Use of access class restrictions at Inter-RAT cell change
ARIB STD-T63-25.306	5.9.0	5.8.0	R2	UE Radio Access capabilities	Alignment of MaxHcContextSpace
ARIB STD-T63-25.308	5.7.0	5.6.0	R2	UTRA High Speed Downlink Packet Access(HSDPA); Overall description; Stage 2	Removal of sentences into brackets
ARIB STD-T63-25.321	5.10.0	5.9.0	R2	MAC protocol specification	- MAC-hs header extension - Clarification on the C/T field use in the HSDPA Mac-d header
ARIB STD-T63-25.423	5.12.0	5.11.0	R3	UTRAN Iur interface RNSAP signalling	- Correction of reference to "MAC-hs Guaranteed Bit Rate" - Correction of duplicated and misplaced procedure text for RL Addition - Correction to not mention Flexible Hard Split Support Indicator IE in procedure text
ARIB STD-T63-25.433	5.11.0	5.10.0	R3	UTRAN Iub interface NBAP signalling	- Alignment of TFCI2/Signaling Bearer Re-arrangement IEs criticality and procedure text - Adaptive encoding of IB_SG_DATA
ARIB STD-T63-26.103	5.6.0	5.5.0	S4	Speech codec list for GSM and UMTS	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Clarifications for AMR
ARIB STD-T63-26.173	5.9.0	5.8.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Incorrect definition of vector nb_of_bits
ARIB STD-T63-26.204	5.3.0	5.2.0	S4	ANSI-C code for the floating-point Adaptive	Incorrect definition of vector nb_of_bits

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
				Multi-Rate (AMR) wideband speech codec	
ARIB STD-T63-26.231	5.3.0	5.2.1	S4	Global text telephony; Cellular text telephone modern minimum performance requirements	TR changed to TS on cover page
ARIB STD-T63-27.005	5.0.1	5.0.0	T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Make figure 0.1(Block, Text and PDU modes) visible
ARIB STD-T63-27.007	5.5.0	5.4.0	T2	AT command set for 3G User Equipment (UE)	- Additional parameter for AT command +CRSM (Restricted SIM access). - Corrections to AcTs of PLMN Selection.
ARIB STD-T63-28.062	5.5.0	5.4.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Operator Guidelines for UMTS_AMR
ARIB STD-T63-31.101	5.2.1	5.1.0	T3	UICC-Terminal Interface; Physical and Logical Characteristics	Correction of non specific references
ARIB STD-T63-31.102	5.11.0	5.10.0	T3	Characteristics of the USIM Application	- Correction of non-specific references to ETSI-SCP documents - Clarification of EXT8 coding (MMS notification extension) - Correction of update access condition for EFs VGCSS and VBSS
ARIB STD-T63-31.103	5.8.0	5.7.0	T3	Characteristics of the ISIM Application	Correction of non specific references
ARIB STD-T63-31.111	5.8.0	5.7.0	T3	Universal Subscriber Identity Module Application Toolkit (USAT)	Correction for non 3GPP references
ARIB STD-T63-31.113	5.6.0	5.5.0	T3	USAT interpreter byte codes	Correction of reference to SCP specification

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	5.9.1	5.8.0	S3	3G security; Handover interface for Lawful interception	- Correction to ULIC header - Correction of syntax error in B.4 (VERSION2 -> version2 and deletion of comma in ASN.1 code)
ARIB STD-T63-34.108	5.3.0	5.2.0	T1	Common test environments for User Equipment (UE) conformance testing	Mainly corrections. Some HSDPA RABs are added.
ARIB STD-T63-34.121	5.6.0	5.5.0	T1	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Mainly corrections. UMTS-850 MHz band V are introduced.
ARIB STD-T63-34.123-1	5.10.0	5.9.0	T1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Many corrections. Some test cases, related to Shared Channels, A-GPS, HSDPA, Inter-RAT handover, ..etc., are added.
ARIB STD-T63-34.123-2	5.10.0	5.9.0	T1	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Corrections and additions mainly related to 34.123-1 and/or 34.123-3.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.101	6.0.0		SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	The present document identifies the 3 rd generation mobile system specifications for Release 6.
ARIB STD-T63-22.001	6.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	- This document covers the definition of the circuit telecommunication services supported by a PLMN. - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.002	6.0.0		S1	Circuit Bearer Services Supported by a PLMN	- This document defines a set of Circuit Bearer Services to be provided to PLMN subscribers by a PLMN itself and in connection with other networks. - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.003	6.0.0		S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	- This Technical Specification (TS) describes and defines a recommended set of Circuit Teleservices to be supported by a PLMN in connection with other networks as a basis for defining the network capabilities required. - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.016	6.0.0		S1	International Mobile Equipment Identities (IMEI)	- This document defines the principal purpose and use of International Mobile station Equipment Identities (IMEI). - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.022	6.0.0		S3	Personalization of GSM Mobile Equipment (ME) Mobile Functionality Specification	- This TS provides functional specifications of five features to personalise Mobile Equipment (ME) for GSM and 3G systems. These features are called: - Network personalisation;

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
					- Network subset personalisation; - Service Provider (SP) personalisation; - Corporate personalisation; - SIM/USIM personalisation (SIM for GSM systems or USIM for 3G systems). - This TS specifies requirements for MEs which provide these personalisation features.
ARIB STD-T63-22.031	6.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	- This TS specifies the stage 1 description of the Fraud Information Gathering System (FIGS) feature which provides the means for the HPLMN to monitor the activities of its subscribers in a VPLMN. - The purpose of this network feature is to enable the HPLMN to monitor the activities of its subscribers while they are roaming. The VPLMN collects information about a defined set of activities on monitored subscribers and sends this information back to the HPLMN. This enables the HPLMN to clear certain types of calls and so stop fraudulent use of the GSM system. - This TS enables service providers/ network operators to use FIGS, and service limitation controls such as Operator Determined Barring (ODB) and Immediate Service Termination (IST), to limit their financial exposure to subscribers producing large unpaid bills. - HPLMNs may also choose to monitor the activities of its subscribers within the HPLMN.
ARIB STD-T63-22.032	6.0.0		S1	Immediate Service Termination (IST); Service description; Stage1	- This Technical Specification specifies the stage 1 description of the Immediate Service Termination (IST) service which provides the means for the HPLMN to terminate all the activities of an HPLMN subscriber in a VPLMN.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
					- Upgrade to Rel-6
ARIB STD-T63-22.034	6.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	- The present document specifies the Stage 1 description of High Speed Circuit Switched Data (HSCSD). HSCSD is a feature that introduce General Bearer Services and a multislot mechanism is used for user rates that can be achieved with one or more TCH/F. - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.053	6.0.0		S4	Tandem Free Operation(TFO);Service description;Stage1	The present document specifies the stage 1 description for the Tandem Free Operation (TFO) feature which provides the capability to avoid tandeming speech codecs in mobile to mobile speech calls.
ARIB STD-T63-22.057	6.0.0		S1	Mobile Execution Environment (MExE); Service descrption; Stage 1	- This TS defines the stage one description of the Mobile Execution Environment (MExE). The scope of this TS encompasses the MExE functionality in the UE and interaction with the MExE service environment. - Updated from Rel-5 to Rel-6
ARIB STD-T63-22.076	6.0.0		S4	Noise Suppression for the AMR	The present document specifies the stage 1 description for the Noise Suppression feature for the AMR codec which enhances the input speech signal corrupted by acoustic noise.
ARIB STD-T63-23.035	6.0.0		S3	Immediate Service Termination (IST); Service description; Stage2	- This TS specifies the stage 2 description of the Immediate Service Termination (IST) service which provides the means for the HPLMN to terminate all the activities of an HPLMN subscriber in a VPLMN. - Two implementations of IST are described: an implementation based on CAMEL, and an implementation based on a new MAP message.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.042	6.0.0		T2	Compression algorithm for SMS	The present document introduces the concepts and mechanisms involved in the compression and decompression of a stream of data.
ARIB STD-T63-23.053	6.0.0		S4	Tandem Free Operation for the (U)SIM application toolkit ; Stage 2	The present document defines the stage 2 service description for Tandem Free Operation (TFO) in and between GSM and UMTS.
ARIB STD-T63-23.236	6.0.0		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	This document covers the details for the Intra Domain Connection of RAN Nodes to Multiple CN Nodes for GSM and UMTS systems.
ARIB STD-T63-26.071	6.0.0		S4	AMR speech Codec; General description	The present document is an introduction to the speech processing parts of the narrowband telephony speech service employing the Adaptive Multi-Rate (AMR) speech coder.
ARIB STD-T63-26.073	6.0.0		S4	AMR speech Codec; C-source code	The present document contains an electronic copy of the ANSI-C code for the Adaptive Multi-Rate codec.
ARIB STD-T63-26.074	6.0.0		S4	AMR speech Codec; Test sequences	The present document specifies the digital test sequences for the adaptive multi-rate (AMR) speech codec.
ARIB STD-T63-26.077	6.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	The present document specifies recommended minimum performance requirements for noise suppression algorithms intended for application in conjunction with the AMR speech encoder.
ARIB STD-T63-26.090	6.0.0		S4	AMR speech Codec; Transcoding Functions	The present document describes the detailed mapping from input blocks of 160 speech samples in 13-bit uniform PCM format to encoded blocks of 95, 103, 118, 134, 148, 159, 204, and 244 bits and from encoded blocks of 95, 103, 118, 134, 148, 159, 204, and 244 bits to output blocks of 160 reconstructed speech samples.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.091	6.0.0		S4	AMR speech Codec; Error concealment of lost frames	The present document defines an error concealment procedure, also termed frame substitution and muting procedure, which shall be used by the AMR speech codec receiving end when one or more lost speech or lost Silence Descriptor (SID) frames are received.
ARIB STD-T63-26.092	6.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	The present document gives the detailed requirements for the correct operation of the background acoustic noise evaluation, noise parameter encoding/decoding and comfort noise generation for the AMR speech codec during Source Controlled Rate (SCR) operation.
ARIB STD-T63-26.094	6.0.0		S4	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	The present document specifies two alternatives for the Voice Activity Detector (VAD) to be used in the Discontinuous Transmission (DTX) as described in 26.093.
ARIB STD-T63-26.110	6.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Description	This specification introduces the set of specifications which apply to 3G-324M multimedia terminals.
ARIB STD-T63-26.115	6.0.0		S4	Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	The present document specifies minimum performance requirements for the gateway echo control of 3G speech and multi-media services.
ARIB STD-T63-26.141	6.0.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	The present document specifies the basic media formats and codecs to be used in the IMS Messaging and Presence services.
ARIB STD-T63-26.171	6.0.0		S4	AMR speech Codec; wideband; General description	The present document is an introduction to the speech processing parts of the wideband telephony speech service employing the Adaptive Multi-Rate Wideband (AMR-WB) speech coder.
ARIB STD-T63-26.174	6.0.0		S4	AMR speech codec, wideband; Test sequences	The present document specifies the digital test sequences for the adaptive multi-rate wideband (AMR-WB) speech codec.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.177	6.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	The present document specifies the digital test sequences for the DSR Extended Advanced Front-end speech codec.
ARIB STD-T63-26.190	6.0.0		S4	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	This Telecommunication Standard (TS) describes the detailed mapping from input blocks of 320 speech samples in 16-bit uniform PCM format to encoded blocks of 132, 177, 253, 285, 317, 365, 397, 461 and 477 bits and from encoded blocks of 132, 177, 253, 285, 317, 365, 397, 461 and 477 bits to output blocks of 320 reconstructed speech samples.
ARIB STD-T63-26.191	6.0.0		S4	AMR speech codec ,wideband; Error concealment of lost frames	This specification defines an error concealment procedure, also termed frame substitution and muting procedure, which shall be used by the AMR-WB speech codec receiving end when one or more erroneous/lost speech or lost Silence Descriptor (SID) frames are received.
ARIB STD-T63-26.192	6.0.0		S4	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Comfort noise aspects	This document gives the detailed requirements for the correct operation of the background acoustic noise evaluation, noise parameter encoding/decoding and comfort noise generation for the AMR Wideband (AMR-WB) speech codec during Source Controlled Rate (SCR) operation.
ARIB STD-T63-26.193	6.0.0		S4	AMR speech codec , wideband; Source Controlled Rate operation	This document describes the Source Controlled Rate (SCR) operation of the Adaptive Multi-Rate Wideband speech Codec.
ARIB STD-T63-26.194	6.0.0		S4	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)	This document specifies the Voice Activity Detector (VAD) to be used in the Discontinuous Transmission (DTX) as described in 26.193.
ARIB STD-T63-26.201	6.0.0		S4	AMR speech codec , wideband; Frame	The present document describes a generic frame format for the Adaptive Multi-Rate Wideband (AMR-WB) speech

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
				structure	codec.
ARIB STD-T63-26.202	6.0.0		S4	AMR speech codec ,wideband; Interface to Iu and Uu	The present document specifies the mapping of the AMR wideband generic frame format (26.201) to the Iu Interface (25.415), the Uu Interface and the Nb Interface (29.415).
ARIB STD-T63-26.204	6.0.0		S4	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) wideband speech codec	The present document contains an electronic copy of the ANSI-C code for the Floating-point Adaptive Multi-Rate Wideband codec.
ARIB STD-T63-26.226	6.0.0		S4	Global text telephony; Transport of text in the voice channel	This Technical Specification (TS) concerns the Cellular Text Telephone Modem (CTM).
ARIB STD-T63-26.230	6.0.0		S4	Global text telephony; Cellular text telephone modem transmitter C-code description	This Technical Standard (TS) contains an electronic copy of the ANSI-C code for the Cellular Text Telephone Modem (CTM) for reliable transmission of text telephone text via the speech channel of cellular networks.
ARIB STD-T63-26.231	6.0.0		S4	Global text telephony; Cellular text telephone modem minimum performance requirements	This Technical Standard (TS) describes the minimum performance requirements for the Cellular Text Telephone Modem (CTM) for reliable transmission of text telephone text via the speech channel of cellular or PSTN networks. The transmitting parts of the Cellular Text Telephone Modem are specified in 26.226.
ARIB STD-T63-27.005	6.0.1		T2	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	The present document defines three interface protocols for control of SMS functions within a GSM/UMTS mobile telephone from a remote terminal via an asynchronous interface.
ARIB STD-T63-27.010	6.0.0		T2	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	The present document defines a multiplexing protocol between a UE and a TE. The multiplexing protocol can be used to send any data, for instance voice, SMS, USSD, fax etc. The present document describes the protocol, but not the commands or data transported with it.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-29.140	6.0.0		T2	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	The present document defines the procedures and the transport protocol for use in the Multimedia Messaging Service (MMS) based on Diameter. The present document is applicable to: [The MM10 interface between an MMS Relay/Server and the MSCF.]
ARIB STD-T63-31.112	6.0.0		T3	USAT Interpreter Architecture Description; Stage 2	The present document defines the stage 2 description for the USAT Interpreter system. As the second stage of a three-level structure, it is derived from the stage 1 service description.
ARIB STD-T63-31.114	6.0.0		T3	USAT interpreter protocol and administration	The present document specifies the transmission protocol to be used to communicate with the USAT Interpreter and the administrative structures and procedures to administer the USAT Interpreter.
ARIB STD-T63-31.120	6.0.0		T3	UICC-terminal interface; Physical, electrical and logical test specification	The present document specifies the interface test for the Terminal / UICC.
ARIB STD-T63-33.200	6.0.0		S3	Network Domain Security	- This TS covers the security mechanisms and procedures necessary to protect the MAP protocol. The complete set of enhancements and extensions to facilitate security protection for the MAP protocol is termed MAPsec and it covers transport security in the MAP protocol itself and the security management procedures. - The security mechanisms specified for MAP are on the application layer. This means that MAPsec is independent of the network and transport protocols to be used. - This TS contains the stage-2 specification for security protection of the MAP protocol. The actual implementation (stage-3) specification can be found in the MAP stage-3 specification, TS 29.002.

Added Standard Number	Version at ARIB STD-T63 Ver.4.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.109	6.0.0		T1	Terminal logical test interface; Special conformance testing functions	Upgrade to the Release 6 from 5.4.0. No technical change.
ARIB STD-T63-34.124	6.0.0		T1	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Rel-6 version created on freezing the Release, no CRs. (Old 5.4.0)
ARIB STD-T63-35.201	6.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	This TS gives a detailed specification of the 3GPP confidentiality algorithm f8, and the 3GPP integrity algorithm f9.
ARIB STD-T63-35.202	6.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	This TS gives a detailed specification of the 3GPP Algorithm KASUMI. KASUMI is a block cipher that forms the heart of the 3GPP confidentiality algorithm f8, and the 3GPP integrity algorithm f9.
ARIB STD-T63-35.203	6.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	This TS gives detailed test data for implementors of the algorithm set. It provides visibility of the internal state of the algorithm to aid in the realisation of the algorithms.
ARIB STD-T63-35.204	6.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	This TS gives black-box test data for the algorithm set. The test data has been selected to give a high degree of confidence that the implementation is correct.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-22.141	6.3.0	6.2.1	S1	Presence service; Stage 1	Removal of requirement for the support of an anonymous watcher subscription.
ARIB STD-T63-22.228	6.7.0	6.6.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Provision of a supporting use case for Incoming PSTN call, IMS redirection to PSTN.
ARIB STD-T63-22.242	6.3.0	6.2.0	S1	Digital Rights Management (DRM); Stage 1	Removal of whole 3GPP DRM stage 1 text and reference to OMA DRM RD.
ARIB STD-T63-23.107	6.2.0	6.1.0	S2	Quality of Service (QoS) concept and architecture	- Adds text for the SGSN to verify the use of delivery order. - Also for the UE to set to "no" where possible.
ARIB STD-T63-23.140	6.8.0	6.7.0	T2	Multimedia Messaging Service (MMS) Functional description Stage 2	Many corrections, additional features, functional modifications (21 items)
ARIB STD-T63-25.101	6.6.0	6.5.0	R4	User Equipment (UE) radio transmission and reception (FDD)	- Corresponding change as in release 5 (V.5.13.0), which is correction of minimum requirements for Blocking Characteristics, was made. - And also Corrections to Windup testcase, Maximum input level for HS-PDSCH reception, Reporting of CQI, Detection of HS-SCCH and H Set-4/5 pattern length were made.
ARIB STD-T63-25.104	6.8.0	6.7.0	R4	UTRA (BS) FDD; Radio transmission and reception	Power Control step requirements for 1.5dB and 2.0dB were introduced.
ARIB STD-T63-25.113	6.1.0	6.0.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	- Requirement for surge for outdoor telecommunication cable were introduced. - Adding Receiver exclusion bands for Band IV, V and VI were made.
ARIB STD-T63-25.133	6.8.0	6.7.0	R4	Requirements for support of radio resource management (FDD)	- Corresponding changes as in release 5 (V.5.13.0) were made. - Clarification of Inter-RAT hand over test parameters and Correction to UE transmitted power measurement were

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					also made.
ARIB STD-T63-25.141	6.8.0	6.7.0	R4	Base station conformance testing (FDD)	- Power Control step requirements for 1.5dB and 2.0dB were introduced. - And Correction to RACH message demodulation test was made.
ARIB STD-T63-25.171	6.1.0	6.0.0	R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Clarifications and editorial corrections were made.
ARIB STD-T63-25.201	6.1.0	6.0.0	R1	Physical layer -General Description	Introduces E-DCH.
ARIB STD-T63-25.211	6.3.0	6.2.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Adds E-DCH related physical channels. Introduces MBMS notification channel.
ARIB STD-T63-25.212	6.3.0	6.2.0	R1	Multiplexing and channel coding (FDD)	- Adds E-DCH Multiplexing and Channel Coding. - Describes TFC behavior for S-CCPCH soft combining. - Changes the maximum number of CCTrCH of common type for FACH to a UE capability in order to enable soft and selection combining. - Defines the channel coding for preamble and postamble on HS-DPCCH.
ARIB STD-T63-25.213	6.1.0	6.0.0	R1	Spreading and modulation (FDD)	Introduces E-DCH and MBMS notification channel.
ARIB STD-T63-25.214	6.4.0	6.3.0	R1	Physical layer procedures (FDD)	- Introduces E-DCH and MBMS notification channel. -Describes S-CCPCH soft combining timing and constraints. - Defines the procedure for transmitting HS-DPCCH preamble and postamble.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.215	6.1.0	6.0.0	R1	Physical layer; Measurements (FDD)	Introduces E-DCH.
ARIB STD-T63-25.301	6.1.0	6.0.0	R2	Radio Interface Protocol Architecture	Introduction of Enhanced Uplink
ARIB STD-T63-25.302	6.2.0	6.0.0	R2	Services provided by the physical layer	Introduction of Enhanced Uplink
ARIB STD-T63-25.303	6.2.0	6.1.0	R2	Interlayer procedures in Connected Mode	Clarification of inter-layer dependencies
ARIB STD-T63-25.304	6.4.0	6.3.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Cell selection and reselection parameters - Use of access class restrictions at Inter-RAT cell change - Network Sharing and multiple PLMN identities - TS 25.304 Introduction of MBMS - Addition of MBMS Frequency Layer Convergence to 25.304
ARIB STD-T63-25.306	6.3.0	6.2.0	R2	UE Radio Access capabilities	Alignment of MaxHcContextSpace
ARIB STD-T63-25.308	6.3.0	6.2.0	R2	UTRA High Speed Downlink Packet Access(HSDPA); Overall description; Stage 2	Removal of sentences into brackets
ARIB STD-T63-25.309	6.1.0	6.2.0	R2	FDD enhanced uplink; Overall description; Stage 2	- Inclusion of e.g. physical layer model, MAC architecture, detail Node B scheduler mechanism and QoS Control principles - Scheduling Grants as E-DPDCH/DPCCH power ratio - Proposed rewording on scheduler sections compared to CR 001r3
ARIB STD-T63-25.321	6.3.0	6.2.0	R2	MAC protocol specification	- Introduction of MBMS MAC heade - Introduction of MBMS

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					Introduction of EUL in MAC specification
ARIB STD-T63-25.401	6.5.0	6.4.0	R3	UTRAN Overall Description	- Introduction of E-DCH - CR for Introducing MBMS
ARIB STD-T63-25.402	6.1.0	6.0.0	R3	Synchronisation in UTRAN Stage 2	MBMS related changes
ARIB STD-T63-25.420	6.2.0	6.1.0	R3	UTRAN Iur Interface: General Aspects and Principles	- Introduction of E-DCH - CR for Introducing MBMS
ARIB STD-T63-25.423	6.4.1	6.3.0	R3	UTRAN Iur interface RNSAP signalling	- MBMS changes for RNSAP - Correction of reference to "MAC-hs Guaranteed Bit Rate" - Correction of duplicated and misplaced procedure text for RL Addition - Correction to not mention Flexible Hard Split Support Indicator IE in procedure text - Changes for Introducing EDCH - outdated ITU-T reference - HS-DPCCH ACK/NACK preamble and postamble
ARIB STD-T63-25.427	6.1.0	6.0.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Changes on 25.427 due to the introduction of Enhanced Uplink
ARIB STD-T63-25.430	6.3.0	6.2.0	R3	UTRAN Iub Interface: General Aspects and Principles	- Introduction of E-DCH - CR for Introducing MBMS
ARIB STD-T63-25.433	6.4.0	6.3.0	R3	UTRAN Iub interface NBAP signalling	- Alignment of TFCI2/Signaling Bearer Re-arrangement IEs criticality and procedure text - Introduction of MBMS

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					- outdated ITU-T reference - Adaptive encoding of IB_SG_DATA - CR for Introduction of E-DCH in NBAP - HS-DPCCH ACK/NACK preamble and postamble
ARIB STD-T63-25.453	6.7.0	6.6.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	outdated ITU-T reference
ARIB STD-T63-26.103	6.1.0	6.0.0	S4	Codec lists	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Clarifications for AMR
ARIB STD-T63-26.111	6.1.0	6.0.0	S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	- Addition of the missing signalling of H.264 decoder capabilities - Reference Corrections
ARIB STD-T63-26.140	6.1.0	6.0.0	S4	Multimedia Messaging Service (MMS);Media formats and codes	- Support for EXIF in MMS - Adoption of SVG Tiny 1.2 for MMS
ARIB STD-T63-26.234	6.2.0	6.1.0	S4	Transparent end-to-end streaming service; Protocols and codecs	- Correction of RDF schema for PSS capability vocabulary - Transport-independent SDP bandwidth modifiers for PSS - Correction of MIME type definition for DRM protected content - Adoption of SVG Tiny 1.2 for PSS
ARIB STD-T63-26.235	6.3.0	6.2.0	S4	Packet switched conversational multimedia application; Default codecs	- Inclusion of PoC support - Add reference to 26.943
ARIB STD-T63-26.236	6.1.0	6.0.0	S4	Packet switched conversational multimedia	Inclusion of PoC support

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
				applications; Transport protocols	
ARIB STD-T63-26.243	6.1.0	6.0.0	S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	- Software bug correction: Removal of Basicops simulation of "C" shift operator - Software bug correction: Initialization of the variables lwc and i2aScale - Software bug correction: Wrong assignment of the variables *piReliableFlag and *pcQPIndex - Software bug correction: Use of incorrect variable fRefPeriod instead of iRefPeriod - Add reference to test sequences document
ARIB STD-T63-26.244	6.2.0	6.1.0	S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	- Correction of syntax of encryption boxes and outdated references - Correction of sample structure for AMR-WB+ in 3GP files
ARIB STD-T63-26.245	6.1.0	6.0.0	S4	Transparent end-to-end Packet switched Streaming Service (PS); Timed text format	Removal of incorrect statement in Scope section of Rel-6 Timed Text
ARIB STD-T63-26.290	6.1.0	6.0.0	S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	- Correction of stereo bit allocation tables - Correction of storage format for AMR-WB+ - Editorial changes. Note that in Tdoc S4-040722, this CR was meant to be CR 004 and not CR 012; a remark was put in the CR database.
ARIB STD-T63-26.304	6.1.0	6.0.0	S4	Floating-point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec	- Incorrect definition of mode index for SID frames - Correction of TCX coding selection for MMS encoder - Misread of energy buffer in coding mode selection in MMS encoder. Correction of energy buffer initialisation. Etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.401	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	Alignment with C-code: Clarification on SBR mode to be used for mono only capable decoders
ARIB STD-T63-26.410	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	- Correction to C-code to increase error robustness - Correction to C-code: Missing memory re-initialization - Removal of Complexity counters. Etc
ARIB STD-T63-27.007	6.7.0	6.6.0	T2	AT command set for 3G User Equipment (UE)	Additional parameter for AT command +CRSM (Restricted SIM access), Corrections to AcTs of PLMN Selection, Improve security in UICC generic access command +CGLA, Support of EAP authentication command, Correction of file identification in +CRLA command, UICC Application Discovery Command +CUAD, Clarification on the use of PIN with (U)SIM, Editorial modifications to +CGLA and +CRLA commands, Add RETRIEVE DATA and SET DATA APDU commands in +CRSM and +CRLA commands, Extension of read, write and find phonebook entry commands for 3G phonebooks
ARIB STD-T63-28.062	6.1.0	6.0.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	- TFO/TrFO Compatibility of UMTS_AMR and UMTS_AMR2 - Operator Guidelines for UMTS_AMR and AMR Harmonization
ARIB STD-T63-31.101	6.4.1	6.3.0	T3	UICC-terminal interface; Physical and logical characteristics	Correction of non specific references
ARIB STD-T63-31.102	6.8.0	6.7.0	T3	Characteristics of the USIM Application	- Introduction of M-IMAP and SIP as MMS implementations in MMS provisioning - Correction of Capability/Configuration references - Clarification of EXT8 coding (MMS notification extension) - Clarification of Capability/Configuration identifier - Introduction of EHPLMN data field

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					- Enable multiple Terminal Profile downloads in UST - Clarification of hidden phonebook entry - Correction of non-specific references to ETSI-SCP documents - Correction to add missing description for "3G Session Reset" - Correction of update access condition for EFs VGCSS and VBSS - MMS storage: addition of a status indicating that an MM has been sent - Storage of the lifetime of the GBA_U bootstrapped keys - Interpretation of "data" in EF_CFIS
ARIB STD-T63-31.103	6.6.0	6.5.0	T3	Characteristics of the ISIM Application	- Storage of the lifetime of the GBA_U bootstrapped keys - Correction of non specific references
ARIB STD-T63-31.111	6.4.0	6.3.0	T3	USIM Application toolkit (USAT)	- Correction for non 3GPP references - Terminal Profile alignment with ETSI TS 102 223 - Correction for a missing letter class in Annex A - Clarification of Terminal Profile procedure - Correction to allow "3G Session Reset Refresh" to change the IMSI - UICC initiated GBAU Bootstrapp - Display Multimedia Messages from the USIM
ARIB STD-T63-31.113	6.3.0	6.2.0	T3	USAT interpreter byte codes	Correction of reference to SCP specification
ARIB STD-T63-31.115	6.4.0	6.3.0	T3	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction of non-specific references to SCP documents
ARIB STD-T63-31.116	6.6.0	6.5.0	T3	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction of non-specific references to SCP documents

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.130	6.1.0	6.0.1	T3	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	- Editorial cleaning - Alignment with 102 241 regarding EnvelopeHandler methods - Alignment with changes in 102 241 - Correction of non specific references - Alignment with 31.102 for FID - Alignment with 31.111 and 51.014 Terminal Profile constants
ARIB STD-T63-33.102	6.3.0	6.2.0	S3	3G security; Security architecture	- Correction of Abbreviation for USIM - Correction of TMUI to TMSI in a figure - Support of algorithms in UEs and RNCs
ARIB STD-T63-33.107	6.4.0	6.3.0	S3	3G security; Lawful interception architecture and functions	- Lawful Interception for WLAN Interworking - 33.107 Cleanup - Clarification on MMS interception
ARIB STD-T63-33.108	6.8.2	6.7.0	S3	3G security; Handover interface for Lawful interception	- Correction to ULIC header - Correction on parameter GprsOperationErrorCode - Correction to the IMPORTS statements - Syntax Error in Annex B.3 - Deleting CC from SIP message
ARIB STD-T63-33.203	6.5.0	6.4.0	S3	3G security; Access security for IP-based services	Editorial corrections
ARIB STD-T63-33.220	6.3.0	6.2.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- BSF discovery using default domain method - Local validity condition set by NAF - GBA User Security Settings (GUSS) usage in GAA and Introduction of NAF groups - Details of USIM/ISIM selection in GAA - TLS profile for securing Zn' reference point - Optimization of the GBA_U key derivation procedure - Requirement on ME capabilities for GBA_U - Adding a note about replay protection

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					- Complete the MAC modification for GBA_U - Removal of unnecessary editor's notes - Fetching of one AV only on each Zh run between BSF and HSS - Clean up of TS 33.220 - New key management for ME based GBA keys - Key derivation function - Re-negotiation of keys - No GUSS/USS update procedures in Release-6 - Clarify the number of NAF-specific keys stored in the UE per NAF-Id
ARIB STD-T63-33.221	6.2.0	6.1.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	- Visited network issuing subscriber certificates - Editorial correction
ARIB STD-T63-33.222	6.2.0	6.1.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	- GBA supported indication in PSK TLS - Adding Support for AES in the TLS Profile - Authorization flag transfer between AP and AS - Correction of inconsistencies within AP specification - TLS extensions support - Visited AS using subscriber certificates
ARIB STD-T63-33.234	6.3.0	6.2.1	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Profile for PDG certificates in Scenario 3 - Impact of Feasibility Study on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces - Sending of W-APN identification - Clean up of not completed chapters - Correction of WLAN UE function split - Passing keying material to the WLAN-AN during the Fast re-authentication procedure - Clarification on Deletion of Temporary Ids - Clarification on Protecting Re-authentication ID in FAST/FULL Re-Authentication procedure - Assigning Remote IP Address to WLAN UE using IKEv2 configuration Payload - Tunnel Establishment Procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.4.40	Version at ARIB STD-T63 Ver.4.30	3GPP WG	Title	Change Summary
					- Deletion of inconclusive text on A5/2 countermeasures - Alignment of IPsec profile with RFC2406 - Control of simultaneous sessions in WLAN 3GPP IP access - Completion of definition and abbreviations - Fallback from re-authentication to full authentication - Clarification on the use of IMSI in WLAN 3GPP IP access - Clarification on the use of MAC addresses - Clarifications and corrections on the use of pseudonyms - Wn Reference Point Description - Removal of word "scenario" - Correction of WRAP to CCMP - Removal of resolved editors' notes
ARIB STD-T63-33.246	6.1.0	6.0.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Deletion of MBMS keys stored in the ME - Clarification on key management - Clean up of MBMS TS - Traffic protection combinations - Clarifying ME and BM-SC capabilities - MBMS MTK Download transport - MBMS Transport of salt - SRTP index synchronisation within ME - Clarify the use of mandatory MIKEY features for MBMS - Protection of the Gmb reference point - Use of parallel MSKs and MTKs - Scope of MBMS security - Clarification of the format of MTK ID and MSK ID - MTK update procedure for streaming services - Clarification of MSK key management - Modification of delivery of MIKEY RAND field in MSK updates - OMA DRM DCF for protection of download services - Shorter MKI - Handling of MBMS identities and definition completion/modification

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.15.0	3.14.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-25.133	3.20.0	3.19.0	R4	Requirements for support of radio resource management (FDD)	Change of DPCH_Ec/Ior in table A.7.1, increased 0.5 dB above the demodulation requirement in AWGN. OCNS_Ec/Ior is also adjusted.
ARIB STD-T63-25.215	3.13.0	3.12.0	R1	Physical layer; Measurements (FDD)	Clarify the cell on SFN-SFN observed time difference measurement.
ARIB STD-T63-31.121	3.12.0	3.11.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Correction of Operator controlled PLMN selector handling tests - Correction to the 'Maximum frequency of ACM updating' test - Correction of verification of EF PSLOC1 in section 7 "PLMN related tests": - Correction of HPLMN Search Period tests

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-3	3.9.0	3.8.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	Replacement of 34.123-3 Release 99 by a pointer to the newly created Release 5 version.

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.50		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.123-3	4.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	Creation of 34.123-3 Release 4 with contents a pointer to the newly created Release 5 version.

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.12.0	4.11.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-25.133	4.14.0	4.13.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change as in Release 99 (V.3.20.0) was made.
ARIB STD-T63-25.215	4.8.0.	4.7.0	R1	Physical layer; Measurements (FDD)	Clarify the cell on SFN-SFN observed time difference measurement.
ARIB STD-T63-25.306	4.10.0	4.9.0	R2	UE Radio Access capabilities	Support of DSCH

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.111	4.14.0	4.13.0	C6	Universal Subscriber Identity Module Application Toolkit (USAT)	- Correction of OCI usage in conjunction with SETUP CALL - Correction of missing Terminal Response information
ARIB STD-T63-31.121	4.11.0	4.10.0	C6	UICC-terminal interface; Application Test specification	- Correction of Operator controlled PLMN selector handling tests - Correction to the 'Maximum frequency of ACM updating' test - Correction of verification of EF PSLOCI in section 7 "PLMN related tests": - Correction of HPLMN Search Period tests

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.50		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.123-3	5.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	This document is derived from 3.8.0 with additions and corrections of test cases.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.9.0	5.8.0	SP	3rd Generation mobile system Release 1999 Specifications	Corrections to list of specifications
ARIB STD-T63-25.101	5.14.0	5.13.	R4	UE Radio transmission and reception (FDD)	Removal of TGPL2 and Clarification of the power evaluation period for HS-DPCCH were made.
ARIB STD-T63-25.133	5.14.0	5.13.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change as in Release 4 (V.4.14.0) was made. Also Removal of TGPL2 was made.
ARIB STD-T63-25.215	5.6.0	5.5.0	R1	Physical layer; Measurements (FDD)	Clarify the cell on SFN-SFN observed time difference measurement. Remove TGPL2 from the compressed mode parameters.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.301	5.4.0	5.3.0	R2	Radio interface protocol architecture	Lossless DL RLC PDU size change
ARIB STD-T63-25.304	5.8.0	5.7.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Reselection procedure (1235) - RSCP Thresholds - Intra frequency measurement rules for HCS - Correction to cell selection and reselection parameters to enable enhanced cell reselection - HCS high-mobility measurement rules
ARIB STD-T63-25.306	5.10.0	5.9.0	R2	UE Radio Access capabilities	- Support of DSCH - Lossless DL RLC PDU size change
ARIB STD-T63-25.423	5.13.0	5.12.0	R3	UTRAN Iur interface RNSAP signalling	- Correction to the RL Reconf for serving HS-DSCH cell change - Feature Clean-up: CPCH, Support of dedicated pilot as sole phase reference, Compressed mode by puncturing, Tx diversity closed loop mode2, DSCH (FDD mode), 80 ms TTI for DCH for all other cases but when the UE supports SF512, SSDT
ARIB STD-T63-25.427	5.4.0	5.3.0	R3	UTRAN Iur and Iub interface user plane protocol for DCH data streams	Feature Clean-up. DSCH(FDD mode)
ARIB STD-T63-25.433	5.12.0	5.11.0	R3	UTRAN Iub interface NBAP signalling	Feature Clean-up: CPCH, Support of dedicated pilot as sole phase reference, Compressed mode by puncturing, Tx diversity closed loop mode2, DSCH (FDD mode), 80 ms TTI for DCH for all other cases but when the UE supports SF512, SSDT
ARIB STD-T63-25.453	5.10.0	5.9.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Correction of deletion of Information Exchange Context
ARIB STD-T63-26.234	5.7.0	5.6.0	S4	End-to-end transparent streaming service; Protocols and codecs	Correction of RDF schema for UAPProf is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-26.236	5.6.0	5.5.0	S4	Packet switched conversational multimedia applications; Transport protocols	AMR SDP parameters are introduced.
ARIB STD-T63-27.007	5.6.0	5.5.0	C1	AT command set for 3G User Equipment (UE)	Illogical response in +CGDSCONT test command.
ARIB STD-T63-31.048		5.0.1	C6	Security mechanisms for the (U)SIM application toolkit; Test specification	- Test spec for 23.048.CP-27: change of WG as a result of closure of CN and T. TP-26: No promotion to Rel-6 because 23.048 not promoted.
ARIB STD-T63-31.102	5.12.0	5.11.0	C6	Characteristics of the USIM Application	- Oddities Service Numbers in EF_UST - Correction of example MMS Issuer/User Connectivity Parameters
ARIB STD-T63-31.103	5.9.0	5.8.0	C6	Characteristics of the ISIM Application	- Reservation of file IDs under ADF ISIM
ARIB STD-T63-31.111	5.9.0	5.8.0	C6	Universal Subscriber Identity Module Application Toolkit (USAT)	- Correction of missing Terminal Response information
ARIB STD-T63-31.121	5.1.0	5.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Correction of Operator controlled PLMN selector handling tests - Correction to the 'Maximum frequency of ACM updating' test - Correction of verification of EF_PSLOC1 in section 7 "PLMN related tests": - Correction of HPLMN Search Period tests
ARIB STD-T63-34.108	5.4.0	5.3.0	R5	Common test environments for User Equipment (UE) conformance testing	- Updates from core specification changes. - Corrections and additions for HSDPA, TDD, UMTS800, A-GPS, ..etc.
ARIB STD-T63-34.121	5.7.0	5.6.0	R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Replacement of technical contents of version 5 by pointer to version 6.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-1	5.11.1	5.10.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Corrections, deletions and additions for HSDPA, A-GPS, interRAT, ..etc.
ARIB STD-T63-34.123-2	5.11.0	5.10.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Some changes related to 34.123-1.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.50		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.112	6.0.0		C6	USIM toolkit interpreter; Stage 1	CP-27: change of WG as a result of closure of CN and T. Rel-6 record created on freezing the Release, December 2004.
ARIB STD-T63-26.273	6.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	An electronic copy of the ANSI-C code for the Fixed-point Extended Adaptive Multi-Rate Wideband codec is contained.
ARIB STD-T63-26.346	6.0.0		S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	MBMS protocols and codecs are specified.
ARIB STD-T63-26.411	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	An electronic copy of the ANSI-C code for the Fixed-point Enhanced aacPlus codec is contained.
ARIB STD-T63-31.124	6.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	2004-10-12: Not clear which WI this pertains to (TP-030259, TP-000155, TP-010111, ... ?), or which Release, but logically should be R99. WI UID later confirmed as 43009.CP-27: change of WG as a result of closure of CN and T. To contain contents for all prior Releases.
ARIB STD-T63-34.121	6.0.0		R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	This document is derived from 5.6.0 with additions, deletions and corrections of test cases.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.1.0	6.0.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.030	6.0.1	6.0.0	S1	Man-Machine Interface (MMI) of the User Equipment (UE)	Correction of Release shown on cover page
ARIB STD-T63-22.038	6.4.0	6.3.0	S1	USIM Application Toolkit (USAT/SAT); Service description; Stage 1	Corrections of references. Replacement of description for SAT API with a description for (U)SAT in general in chapter 6.1.
ARIB STD-T63-22.101	6.9.0	6.8.0	S1	Service aspects; Service principles	Deletion of Note to Core Network Operator Name indication requirements. Removal of Reference to VHE specification and associated VHE clause.
ARIB STD-T63-22.105	6.3.0	6.2.0	S1	Services and service capabilities	References to TS 22.121 replaced with references to TS 22.127.
ARIB STD-T63-22.140	6.7.0	6.6.0	S1	Service aspects; Stage 1 Multimedia Messaging Service;	Reference to TS 22.121 removed and a definition reference changed to refer to 21.905.
ARIB STD-T63-22.141	6.4.0	6.3.0	S1	Presence service; Stage 1	Removal of reference to, association with VHE and requirements related usage of VHE User Profiles.
ARIB STD-T63-22.228	6.8.0	6.7.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Removal of the reference to VHE specification and statement regarding the service capabilities of VHE. Correction of reference to URI RFC and usage of URI terminology.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-23.140	6.9.0	6.8.0	CP	Multimedia Messaging Service (MMS) Functional description Stage 2	Definition of the notification procedure for MM addressed to the USIM. Correcting Extended Canceling and Replacing.
ARIB STD-T63-23.228	6.9.0	6.8.0	S2	IP Multimedia Subsystem (IMS); Stage 2	- Delete the redundant text in section 5.3.2.2.2 - Add an indication to the Cx-Put in step 6 to indicate whether the S-CSCF name shall be cleared in the HSS or not - The last BYE message in the figure 5.42 is issued by UE#2. - Add the missing service control box in the figure and add some clarifications in the section 5.11.4.2 - Some duplicate rows of table 5.2 are removed and a number of incorrectly formatted figure numbers are corrected. In addition a duplicate figure number is corrected. - The figure 5.32 is redrawn to remove overlapping flows and the text is clarified. - Change reference to the mentioned TEL URI draft and delete the editors note. Change TEL URL to TEL URI as it is the official name in RFC 3966. - The procedures are clarified by separating and detailing the functions for P-CSCF and PDF. For the authorization procedure the applicability in case of a SIP session modification is added.
ARIB STD-T63-25.101	6.7.0	6.6.0	R4	User Equipment (UE) radio transmission and reception (FDD)	Corresponding changes as in Release 5 (V.5.14.0) were made. Introducing the performance requirements for HS-SCCH with open loop diversity based on receiver diversity and new Receiver Blocking Specifications. Corrections to performance requirements for HSDPA, definition of the downlink power control test case and OCNS definition for

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
					transmit diversity were made.
ARIB STD-T63-25.133	6.9.0	6.8.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes as in Release 5 (V.5.14.0) were made. DL Transmission Branch Load measurement was introduced. Modification of GSM BSIC reconfirmation, Changing of Cell Search Requirement and Correction of error in the implementation of CR502 were made.
ARIB STD-T63-25.141	6.9.0	6.8.0	R4	Base station conformance testing (FDD)	Introduction of a definition on how to use Test Models for Tx diversity, and clarification on the CPICH usage for the tx diversity test were made.
ARIB STD-T63-25.211	6.4.0	6.3.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Replace the set of E-RGCH/E-HICH signature sequences by a new one. Introduce E-RGCH/E-HICH signature sequence hopping. Clarify E-HICH/E-RGCH/E-AGCH timing. Introduce F-DPCH.
ARIB STD-T63-25.212	6.4.0	6.3.0	R1	Multiplexing and channel coding (FDD)	Clarify how to set values for PLnon-max and PLmax parameters for E-DPDCH transmission. Introduce a simplification for HARQ bit collection for E-DCH. Introduce F-DPCH.
ARIB STD-T63-25.213	6.2.0	6.1.0	R1	Spreading and modulation (FDD)	Define E-DPDCH power offset. Correct E-DPCCH power offset. Introduce F-DPCH.
ARIB STD-T63-25.214	6.5.0	6.4.0	R1	Physical layer procedures (FDD)	Specify DL/UL timing association for E-DCH operation. Describe gain factor setting for E-DCH. Specify the L1 delivery of reliable ACK/NACK and Relative Grant information to the higher layers. Specify soft combining of ACK/NACK or Relative Grants from radio links of the same radio link set. Introduce F-DPCH.
ARIB STD-T63-25.215	6.2.0	6.1.0	R1	Physical layer; Measurements (FDD)	Clarify the cell on SFN-SFN observed time difference measurement. Remove TGPL2 from the compressed mode parameters. Introduce F-DPCH. Introduce a new UTRAN measurement, 'DL Transmission Branch Load'.
ARIB STD-T63-25.301	6.2.0	6.1.0	R2	Radio Interface Protocol Architecture	- Uncomplete logical channel identification for FACH

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
					- Lossless DL RLC PDU size change - Introduction of MBMS
ARIB STD-T63-25.302	6.3.0	6.2.0	R2	Services provided by the physical layer	- Release 6 HS-DSCH operation without a DL DPCH for 3.84 Mcps TDD - Introduction of F-DPCH - Introduction of MBMS - Introduction of 'DL Transmission Branch Load' measurement
ARIB STD-T63-25.304	6.5.0	6.4.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Correction to "selected PLMN" in access stratum - Reselection procedure (1235) - RSCP Thresholds - HCS High-mobility measurement rules - H criterion in HCS high-mobility - MBMS Scope - Correction to cell selection and reselection parameters to enable enhanced cell reselection - Intra frequency measurement rules for HCS
ARIB STD-T63-25.306	6.4.1	6.3.0	R2	UE Radio Access capabilities	- Support of DSCH - Lossless DL RLC PDU size change - Inclusion of UE capabilities for Enhanced Uplink - Support of ROHC mandatory - Inclusion of RP-27 change history in this table
ARIB STD-T63-25.309	6.2.0	6.1.0	R2	FDD enhanced uplink; Overall description; Stage 2	Introduction of details for the scheduling operation, non-scheduled transmission and E-TFC selection
ARIB STD-T63-25.321	6.4.0	6.3.0	R2	MAC protocol specification	Correction to MBMS header for MBMS
ARIB STD-T63-25.402	6.2.0	6.1.0	R3	Synchronisation in UTRAN Stage 2	- Synchronisation for MBMS p-t-m Transmissions from Multiple Cells (Simulcast) - Feature clean-up-DSCH(FDD mode)

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.420	6.3.0	6.2.0	R3	UTRAN Iur Interface: General Aspects and Principles	- Correction to the initiation of release of the SCCP connection - Feature clean-up: DSCH(FDD mode), CPCH
ARIB STD-T63-25.423	6.5.0	6.4.1	R3	UTRAN Iur interface RNSAP signalling	- Timing maintained hard HO - Correction to the RL Reconf for serving HS-DSCH cell change - Correction on E-RGCH Sequence Signature - Introduction of Bundling Feature - Alignment of RNSAP with latest status of EUDCH stage 2 (TS 25.309) and RRC (TS 25.331) - Congestion control for HSDPA - Direct Information Transfer for MBMS purposes - Feature Clean-up: CPCH, Support of dedicated pilot as sole phase reference, Compressed mode by puncturing, Tx diversity closed loop mode2, DSCH (FDD mode), 80 ms TTI for DCH for all other cases but when the UE supports SF512, SSDT
ARIB STD-T63-25.427	6.2.0	6.1.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- Support for HARQ Retransmission and Failure Indication - Clarification of the use of CFN for Enhanced Uplink - Removing the abbreviation SFN for Subframe Number - Transport Network Congestion Detection and Control - Feature clean-up: DSCH (FDD mode)
ARIB STD-T63-25.430	6.4.0	6.3.0	R3	UTRAN Iub Interface: General Aspects and Principles	Feature clean-up: DSCH (FDD mode), CPCH
ARIB STD-T63-25.433	6.5.0	6.4.0	R3	UTRAN Iub interface NBAP signalling	- Timing maintained hard HO - Addition of SIB5bis in IB Type

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
					- Revision to HARQ Preamble Mode support - Correction on E-RGCH Sequence Signature - Introduction of Bundling Feature - Synchronisation for MBMS p-t-m Transmissions from Multiple Cells (Simulcast) - Alignment of NBAP with latest status of EUDCH stage 2 (TS 25.309) and RRC (TS 25.331) - Feature Clean-up: CPCH, Support of dedicated pilot as sole phase reference, Compressed mode by puncturing, Tx diversity closed loop mode2, DSCH (FDD mode), 80 ms TTI for DCH for all other cases but when the UE supports SF512, SSDT
ARIB STD-T63-25.453	6.8.0	6.7.0	R3	UTRAN Iurc interface Positioning Calculation Application Part (PCAP) signalling	Correction of deletion of Information Exchange Context
ARIB STD-T63-26.140	6.2.0	6.1.0	S4	Multimedia Messaging Service (MMS);Media formats and codes	Introduction of PIM and DRM is carried out.
ARIB STD-T63-26.141	6.1.0	6.0.0	S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Editorial correction on missing IMS Presence UA is done.
ARIB STD-T63-26.234	6.3.0	6.2.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Syntax and references are corrected.
ARIB STD-T63-26.235	6.4.0	6.3.0	S4	Packet switched conversational multimedia application; Default codecs	Reference is corrected.
ARIB STD-T63-26.236	6.2.0	6.1.0	S4	Packet switched conversational multimedia applications; Transport protocols	AMR SDP parameters are introduced.
ARIB STD-T63-26.244	6.3.0	6.2.0	S4	Transparent end-to-end streaming service;	Extended presentations in 3GP files for MBMS is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
				3GPP file format (3GP)	
ARIB STD-T63-26.290	6.2.0	6.1.0	S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Update for TCX coding mode selection table is carried out.
ARIB STD-T63-26.304	6.2.0	6.1.0	S4	Floating--point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec	Correction of frame erasure concealment and correction of references and terminology are done.
ARIB STD-T63-26.401	6.2.0	6.1.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	Correction to written specification: add missing reference to MPEG corrigendum is done.
ARIB STD-T63-26.405	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Correction to written specification: wrong formula on ICC parameter extraction is done.
ARIB STD-T63-26.410	6.2.0	6.1.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-code: 3GPP file format wrong writing of brand, correction to C-code: remove copyright notice from 3GPP file format header files, correction to C-code: add capability for 10 kbit/s, mono encoding, correction to C-code: add capability for data stream element parsing, correction to C-code: PNS decoding algorithm not conform to MPEG, Correction to C-code: the decoder mono only compile target not working correctly, correction to C-code: PS-decoding with varying upper frequency border not working correctly, correction to C-code: PS-decoding with variable framing not working correctly, and correction to written specification: move WMOPS numbers to informative Annex are carried out.
ARIB STD-T63-27.007	6.8.0	6.7.0	C1	AT command set for User Equipment (UE)	Illogical response in +CGDSCONT test command.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.102	6.9.0	6.8.0	C6	Characteristics of the USIM Application	- Reservation of file IDs under ADF ISIM - Collection of essential corrections - MBMS security - alignment with TS 33.246 - VGCS/VBS security - alignment with 43.020 - Storage of NAF-keys identifiers in GBA_U - Completion of GBA_U-related procedures - Correction due to inclusion of EHPLMN in wrong release - Enable multiple Terminal Profile downloads in UST - Background colours not unique
ARIB STD-T63-31.103	6.7.0	6.6.0	C6	Characteristics of the ISIM Application	- Completion of GBA_U-related procedures - Storage of NAF-keys identifiers in GBA_U
ARIB STD-T63-31.111	6.5.0	6.4.0	C6	USIM Application toolkit (USAT)	- Correction of missing Terminal Response information - Clarification of a bit reserved for ETSI SCP in Terminal Profile - Inclusion of missing chapters - Notification Handling for MMS Management by USAT - Correction of Terminal Profile for MM commands - Mandatory Address in Envelope(SMS-PP DOWNLOAD) - Correction of structure of RETRIEVE MM command - Correction of incomplete references - Clarification of Terminal Profile procedure
ARIB STD-T63-31.116	6.7.0	6.6.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	- Correction of reference to TS 102226 - USIM specific behaviour for PUSH mechanism using SMS-PP
ARIB STD-T63-31.130	6.2.0	6.1.0	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	- Correct the event types in Toolkit Constant from byte to short - Handle of SMS PP answer
ARIB STD-T63-33.200	6.1.0	6.0.0	S3	Network Domain Security	- Correct specification of addresses used in TCAP-Handshake - Addition of TCAP-Handshake for MO-ForwardSM - Improving the robustness of the TCAP handshake mechanism

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	6.6.0	6.5.0	S3	3G security; Access security for IP-based services	Addition of reference to early IMS security TR
ARIB STD-T63-33.220	6.4.0	6.3.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Key derivation function: character encoding - Bootstrapping timestamp - Storage of B-TID in GBA_U NAF Derivation procedure
ARIB STD-T63-33.222	6.3.0	6.2.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	- Keeping PSK TLS in 3GPP Rel-6 - Clarification to TS 33.222 - Clarify the GBA requirements for https supporting applications at Ua reference point
ARIB STD-T63-33.234	6.4.0	6.3.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Clarification on EAP-AKA(SIM) description in 3GPP IP access authentication and authorization - Threat of users accessing each other in link layer and corresponding security requirements of user traffic segregation - Clarifying the status that can't be changed in the security requirement of WLAN-UE split - WLAN AN providing protection against IP address spoofing - Clarification on the handling of simultaneous sessions - Removal of editors' notes - Detecting the start of a WLAN Direct IP Access session based on Wa/Wd Accounting Messages - Adding verification method of PDG certification by OSCP protocol
ARIB STD-T63-33.246	6.2.0	6.1.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Handling of MBMS identities and definition completion/modification - ME based MBMS key derivation for ME based MBMS key

Revised Standard Number	Version at ARIB STD-T63 Ver.4.50	Version at ARIB STD-T63 Ver.4.40	3GPP WG	Title	Change Summary
					management - Correct the MSK verification message handling - Clarify MUK key synchronisation for MSK push procedure - Add missing parts of CR33 (SA3#36) - Annex D.1: correction of the description of the GBA run - Alignment according to MIKEY related IETF work - Clarification of HTTP procedures - Usage of security policy payload - Clarification of MSK and MTK procedures - MGV-F functionality related to MTK-ID upper limit - Using the term "MBMS User Service" instead of "multicast" - Introduction of BM-SC subfunctions - Removing IDi from MTK message - MBMS download protection details - Removal of Editors notes - Protection of MBMS Service Announcement sent over MBMS bearer - Introduction of missing abbreviations, symbols and definitions
ARIB STD-T63-34.131	6.0.1	6.0.0	C6	Test Specification for C-language binding to (U)SIM API	Base spec is 31.131.CP-27: change of WG as a result of closure of CN and T.

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-21.111	3.5.0	3.4.0	C6	USIM and IC card requirements	ISO/IEC 7816-Series Revision
ARIB STD-T63-25.133	3.21.0	3.20.0	R4	Requirements for support of radio resource management (FDD)	Removals of event triggered reporting testcase in fading A.8.1.4 and UTRA carrier RSSI relative accuracy testcase were made.
ARIB STD-T63-31.102	3.18.0	3.17.0	C6	Characteristics of the USIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.121	3.13.0	3.12.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Modifications due to revision of ISO/IEC 7816-series - Correction of the content for Class 1 short messages in TC 8.2.1 - Essential correction of TC 8.1.2 - Deletion of BDN tests
ARIB STD-T63-31.122	3.9.0	3.8.0	C6	UICC Test Specification	- Correction of ISO/IEC 7816 Series References

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					- ISO/IEC 7811-Series Revision

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-21.111	4.2.0	4.1.0	C6	USIM and IC card requirements	ISO/IEC 7816-Series Revision
ARIB STD-T63-23.048	4.5.0	4.4.0	C6	Security Mechanisms for SIM Toolkit Application; Stage 2	Modifications due to revision of ISO/IEC 7816-series
ARIB STD-T63-25.133	4.15.0	4.14.0	R4	Requirements for support of radio resource management (FDD)	Removal of UTRA carrier RSSI relative accuracy testcase, corresponds a change in V3.21.0, was made.
ARIB STD-T63-31.102	4.15.0	4.14.0	C6	Characteristics of the USIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.111	4.15.0	4.14.0	C6	USIM Application Toolkit (USAT)	Correction of OCI & OCT usage in conjunction with SETUP CALL
ARIB STD-T63-31.121	4.12.0	4.11.0	C6	UICC-terminal interface; Application Test specification	- Modifications due to revision of ISO/IEC 7816-series - Correction of the content for Class 1 short messages in TC 8.2.1 - Essential correction of TC 8.1.2 - Deletion of BDN tests

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-31.122	4.1.0	4.0.0	C6	Universal Subscriber Identity Module (USIM) conformance test specification	- Correction of ISO/IEC 7816 Series References - ISO/IEC 7811-Series Revision

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.10.0	5.9.0	SP	3rd Generation mobile system Release 5 specifications	Corrections to list of specifications.
ARIB STD-T63-21.111	5.2.0	5.1.0	C6	USIM and IC card requirements	ISO/IEC 7816-Series Revision
ARIB STD-T63-23.048	5.9.0	5.8.0	C6	Security Mechanisms for (U)SIM Toolkit Application; Stage 2	Modifications due to revision of ISO/IEC 7816-series
ARIB STD-T63-25.101	5.15.0	5.14.0	R4	UE Radio transmission and reception (FDD)	Removals of CPCH, SSdT, Compressed mode by puncturing, dedicated pilot as sole phase reference and Tx diversity closed loop mode 2 were made. And also HS-DPCCH time mask requirements were clarified.
ARIB STD-T63-25.104	5.10.0	5.9.0	R4	UTRA (BS) FDD; Radio transmission and reception	Removals of CPCH, SSdT and 80ms TTI were made.
ARIB STD-T63-25.133	5.15.0	5.14.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change as in Release 4 (V.4.15.0) was made. Removals of CPCH, Compressed mode by puncturing, dedicated pilot as sole phase reference and Observed time difference to GSM cell were made. And also UE transmitted power measurement requirement was

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					modified to remove the inconsistency.
ARIB STD-T63-25.141	5.10.0	5.9.0	R4	Base station conformance testing (FDD)	Removals of CPCH, SSST and 80ms TTI were made.
ARIB STD-T63-25.201	5.3.0	5.2.0	R1	Physical layer -General Description	Remove CPCH.
ARIB STD-T63-25.211	5.7.0	5.6.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Remove DSCH and CPCH. Remove SSST, TX diversity closed loop mode 2, the support for dedicated pilots as sole phase reference, and the method for generating the downlink compressed mode gap by puncturing.
ARIB STD-T63-25.212	5.10.0	5.9.0	R1	Multiplexing and channel coding (FDD)	Remove DSCH and CPCH. Remove 'compressed mode by puncturing', and 80 ms TTI for DCH when not using SF512. Correct HARQ bit separation for HSDPA.
ARIB STD-T63-25.213	5.6.0	5.5.0	R1	Spreading and modulation (FDD)	Remove DSCH and CPCH.
ARIB STD-T63-25.214	5.11.0	5.10.0	R1	Physical layer procedures (FDD)	Remove DSCH and CPCH. Remove SSST, TX diversity closed loop mode 2, 'compressed mode by puncturing', and the support for dedicated pilots as sole phase reference. Clarify HS-DPCCH transmissions on discarding HS-SCCH.
ARIB STD-T63-25.215	5.7.0	5.6.0	R1	Physical layer; Measurements (FDD)	Remove CPCH. Remove 'compressed mode by puncturing', and the observed time difference measurement to GSM cell.
ARIB STD-T63-25.301	5.5.0	5.4.0	R2	Radio interface protocol architecture	Feature Clean-up: Removal of DSCH (FDD) and CPCH
ARIB STD-T63-25.302	5.8.0	5.7.0	R2	Services provided by the physical layer	Feature Clean Up: Removal of observed time difference to GSM cell, DSCH (FDD), CPCH, DRAC
ARIB STD-T63-25.303	5.3.0	5.2.0	R2	Inter-layer Procedures in Connected Mode	Feature Clean-up: Removal of DSCH (FDD), CPCH
ARIB STD-T63-25.306	5.11.0	5.10.0	R2	UE Radio Access capabilities	Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, DSCH (FDD), CPCH, dedicated pilot as sole phase reference,

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					DRAC
ARIB STD-T63-25.321	5.11.0	5.10.0	R2	MAC protocol specification	- Correction of HSDPA state variable - Reconfiguration of MAC-hs parameters - Feature Clean-up: Removal of DSCH (FDD), CPCH
ARIB STD-T63-25.401	5.10.0	5.9.0	R3	UTRAN Overall Description	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.402	5.4.0	5.3.0	R3	Synchronisation in UTRAN Stage 2	Feature clean-up: Removal of DSCH (FDD mode)
ARIB STD-T63-25.420	5.3.0	5.2.0	R3	UTRAN Iur Interface: General Aspects and Principles	Feature clean-up: Removal of DSCH (FDD mode)
ARIB STD-T63-25.423	5.14.0	5.13.0	R3	UTRAN Iur interface RNSAP signalling	- Feature Cleanup: Removal of CPCH, Removal of Support of dedicated pilot as sole phase reference, Removal of Compressed mode by puncturing, Removal of Tx diversity closed loop mode2, Removal of DSCH (FDD mode), Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, Removal of SSDT - Correction to the RL Reconf for serving HS-DSCH cell change
ARIB STD-T63-25.424	5.5.0	5.4.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.425	5.8.0	5.7.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.427	5.5.0	5.4.0	R3	UTRAN Iur and Iub interface user plane protocol for DCH data streams	Feature clean-up: Removal of DSCH (FDD mode)
ARIB STD-T63-25.430	5.5.0	5.4.0	R3	UTRAN Iub Interface: General Aspects and Principles	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	5.13.0	5.12.0	R3	UTRAN Iub interface NBAP signalling	Feature Cleanup: Removal of CPCH, Removal of Support of dedicated pilot as sole phase reference, Removal of Compressed mode by puncturing, Removal of Tx diversity closed loop mode2, Removal of DSCH (FDD mode), Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, Removal of SSdT
ARIB STD-T63-25.434	5.5.0	5.4.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.435	5.8.0	5.7.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.450	5.2.0	5.1.0	R3	UTRAN Iupc interface general aspects and principles	Correction on use of SCCP connection for information exchange
ARIB STD-T63-25.453	5.11.0	5.10.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Correction of deletion of Information Exchange Context
ARIB STD-T63-26.236	5.7.0	5.6.0	S4	Packet switched conversational multimedia applications; Transport protocols	Clarification to the Introduction of AMR SDP parameters is given.
ARIB STD-T63-31.102	5.13.0	5.12.0	C6	Characteristics of the USIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.103	5.10.0	5.9.0	C6	Characteristics of the ISIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.121	5.2.0	5.1.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Modifications due to revision of ISO/IEC 7816-series - Correction of the content for Class 1 short messages in TC 8.2.1 - Essential correction of TC 8.1.2 - Deletion of BDN tests

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-34.108	5.5.0	5.4.0	R5	Common test environments for User Equipment (UE) conformance testing	Most of the changes are corrections. Some contents of message and data were also added
ARIB STD-T63-34.109	5.5.0	5.4.0	R2	Terminal logical test interface; Special conformance testing functions	Clarification of loopback behaviour for uni-directional radio bearers
ARIB STD-T63-34.123-1	5.12.0	5.11.1	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Most of the changes are corrections. Some test cases, ex. new Rel-5, TDD, are removed or added.
ARIB STD-T63-34.123-2	5.12.0	5.11.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Some changes related to 34.123-1.
ARIB STD-T63-34.123-3	5.1.0	5.0.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	Corrections include reflection of regression test. More than dozen test cases are added.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.60		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.274	6.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	This document was approved at TSG SA#28.
ARIB STD-T63-26.406	6.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	This document was approved at TSG SA#28.
ARIB STD-T63-26.412	6.0.0		S4	General audio codec audio processing functions; Source code for 3GP file format	This document was approved at TSG SA#28.
ARIB STD-T63-31.121	6.0.0		C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Introduction of BCD number/ SSC content extension tests - Introduction of ACL tests - Introduction of SDN tests - Introduction of phonebook selection/ local phonebook handling tests
ARIB STD-T63-34.171	6.0.0		R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	This document was introduced from 6.0.0

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.2.0	6.1.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications.
ARIB STD-T63-21.111	6.2.0	6.1.0	C6	USIM and IC card requirements	ISO/IEC 7816-Series Revision
ARIB STD-T63-22.101	6.10.0	6.9.0	S1	Service aspects; Service principles	- Removal of requirements for Emergency calls in Rel-6 and alignment of the text with that in 22.101 Rel-5. - Clarification of requirements on Service Provider Name indication.
ARIB STD-T63-22.141	6.4.1	6.4.0	S1	Presence service; Stage 1	Correction of corrupted file.
ARIB STD-T63-22.228	6.9.0	6.8.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Two requirements are added for handling of SIP-URI prefixes in IMS.
ARIB STD-T63-23.107	6.3.0	6.2.0	S2	Quality of Service (QoS) concept and architecture	- The value range of the RAB attribute ARP is extended to 15 possible values apart from GERAN when the Gb Bearer Service is used. The mapping from UMTS bearer service attributes to the RAB ARP bearer service attribute is described by specifying mandatory and optional rules for PS and CS domains. References for the mandatory attributes for CS services are also added. - The scope section is updated by clarifying that TS 23.107 provides the framework and the architecture for QoS in the 3GPP System.
ARIB STD-T63-23.140	6.10.0	6.9.0	CP	Multimedia Messaging Service (MMS) Functional description Stage 2	- Outdated reference to the XML schema. - Correcting Extended Canceling and Replacing.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-23.207	6.5.0	6.4.0	S2	End to end quality of service concept and architecture	- A sentence about the limitation is deleted. Instead, it is clarified in the relevant sections that one or more sets of the binding information may have to be handled for the same PDP context. - The reference to the stage 3 specification for the Gq interface is updated.
ARIB STD-T63-23.228	6.10.0	6.9.0	S2	IP Multimedia Subsystem (IMS); Stage 2	- A sentence about the limitation is deleted. Instead, it is clarified in the relevant sections that one or more sets of the binding information may have to be handled for the same PDP context. - The reference to the stage 3 specification for the Gq interface is updated. - The existing text in 4.2.7.2 is enhanced to clarify that an AS shall not use the UE's contact address(es) but the UE's public user ids to fork requests towards the S-CSCF. Forking of requests to the contact address(es) of an user should be done by the S-CSCF. -Remove overlap with 3GPP TS 23.003. Also, a few grammatical improvements to the text have been made, as well as implementation of correct 3GPP terminology. - Clarify how SIP signaling using TEL-URI is routed in the IMS network. - The use of inactive/active is added as a valid option when setting up an IMS session. - Enable the domain name "e164.arpa." to be replaced with an alternative, operator configurable domain name to enable operators to use private ENUM implementations that do not break IETF guidelines (such as the Infrastructure ENUM currently being worked on by GSMA IREG ENUM TF and ETSI TISPAN WG4). - Note that it is not for 3GPP to define the alternative top

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					level domain name for Infrastructure ENUM as this is currently under discussion in GSMA IREG and ETSI TISPAN. Once these groups have made their decision, operators can then set this domain name themselves. However, they need the functionality to do this.
ARIB STD-T63-25.101	6.8.0	6.7.0	R4	User Equipment (UE) radio transmission and reception (FDD)	Corresponding changes as in Release 5 (V.5.15.0) were made. UE maximum output power with HS-DPCCH/E-DCH was corrected. Specification of enhanced performance requirements type 2 was introduced. And error of the implementation of CR (CR368) was corrected.
ARIB STD-T63-25.104	6.9.0	6.8.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes as in Release 5 (V.5.10.0) were made.
ARIB STD-T63-25.133	6.10.0	6.9.0	R4	Requirements for support of radio resource management (FDD)	A corresponding change as in Release 5 (V.5.15.0) was made. Removals of CPCH, Compressed mode by puncturing, dedicated pilot as sole phase reference and Observed time difference to GSM cell were made. Fractional DPCH function was newly introduced. Corrections to introduce new requirements of Fast L1 sync, timing-maintained hard handover were made. Corrections on reference cell definition (for initial macro diversity allocation), requirements for inter frequency cell identification test case, CPICH RSCP absolute accuracy condition, test requirements of FDD/FDD soft handover test and CPICH_RSCP intra frequency absolute measurement accuracy side conditions for Band III were made.
ARIB STD-T63-25.141	6.10.0	6.9.0	R4	Base station conformance testing (FDD)	Corresponding changes as in Release 5 (V.5.10.0) were made. Test configuration for BS with integrated Luant BS modem was introduced. And also corrections of spectrum mask requirements and HS-DPCCH requirements were made.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.201	6.2.0	6.1.0	R1	Physical layer -General Description	Remove CPCH.
ARIB STD-T63-25.211	6.5.0	6.4.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Remove DSCH and CPCH. Remove SSST, TX diversity closed loop mode 2, the support for dedicated pilots as sole phase reference, and the method for generating the downlink compressed mode gap by puncturing. Clarify phase reference for downlink channels, E-DCH timing, and E-AGCH transmission interval. Correct E-RGCH duration and timing.
ARIB STD-T63-25.212	6.5.0	6.4.0	R1	Multiplexing and channel coding (FDD)	Remove DSCH and CPCH. Remove 'compressed mode by puncturing', and 80 ms TTI for DCH when not using SF512. Clarify E-HICH and E-RGCH serving/non-serving definition, E-AGCH bit mapping and coding, and E-DCH compressed mode. Clarify that soft combining of S-CCPCHs will be performed over number of TTIs. Correct the determination procedure of SF and number of PhCHs considering SF2, HARQ bit separation for HSDPA, and some E-DCH descriptions. E-DPCCH bit mapping was re-ordered.
ARIB STD-T63-25.213	6.3.0	6.2.0	R1	Spreading and modulation (FDD)	Remove DSCH and CPCH. Define the quantisation tables for E-DPDCH/E-DPCCH, and a set of additional power offset values to support different HARQ profiles. Correct one of the short scrambling code polynomials.
ARIB STD-T63-25.214	6.6.0	6.5.0	R1	Physical layer procedures (FDD)	Remove DSCH and CPCH. Remove SSST, TX diversity closed loop mode 2, 'compressed mode by puncturing', and the support for dedicated pilots as sole phase reference. Clarify HS-DPCCH transmissions on discarding HS-SCCH. Clarify E-DCH timing, and E-DCH compressed mode. Remove the non-serving E-DCH radio link set concept with respect to the E-RGCH. Clarify/correct some transmit power control, and synchronisation procedures for E-DCH. Remove MBMS rake combining option.
ARIB STD-T63-25.215	6.3.0	6.2.0	R1	Physical layer; Measurements (FDD)	Remove CPCH. Remove 'compressed mode by puncturing', and the observed time difference measurement to GSM

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					cell.
ARIB STD-T63-25.301	6.3.0	6.2.0	R2	Radio Interface Protocol Architecture	Feature Clean-up: Removal of DSCH (FDD) and CPCH
ARIB STD-T63-25.302	6.4.0	6.3.0	R2	Services provided by the physical layer	- Feature Clean Up: Removal of observet time difference to GSM cell, DSCH (FDD), CPCH, DRAC - Correction of E-DCH Relative Grants
ARIB STD-T63-25.303	6.3.0	6.2.0	R2	Inter-layer Procedures in Connected Mode	Feature Clean-up: Removal of DSCH (FDD), CPCH
ARIB STD-T63-25.304	6.6.0	6.5.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Addition of idle mode cell selection due to FLD - MBMS Frequency Layer Convergence - Removal of sentences in brackets in 25.304
ARIB STD-T63-25.306	6.5.0	6.4.1	R2	UE Radio Access capabilities	- Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, DSCH (FDD), CPCH, dedicated pilot as sole phase reference, DRAC - E-DCH L2 Buffer sizes - RLC LI Optimization for VoIP
ARIB STD-T63-25.309	6.3.0	6.2.0	R2	FDD enhanced uplink; Overall description; Stage 2	Introduction of resource management considerations and refinement of the scheduling mechanism
ARIB STD-T63-25.321	6.5.0	6.4.0	R2	MAC protocol specification	- Correction of HSDPA state variable - Reconfiguration of MAC-hs parameters - Feature Clean-up: Removal of DSCH (FDD), CPCH - Corrections to the description of TCTF field - HS-DSCH Provided Bit Rate measurement per Cell Portion - Additional text on EUL in MAC specification

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.401	6.6.0	6.5.0	R3	UTRAN Overall Description	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.402	6.3.0	6.2.0	R3	Synchronisation in UTRAN Stage 2	- Feature clean-up: Removal of DSCH (FDD mode) - Synchronisation for MBMS p-t-m Transmissions from Multiple Cells (Simulcast)
ARIB STD-T63-25.420	6.4.0	6.3.0	R3	UTRAN Iur Interface: General Aspects and Principles	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.422	6.1.0	6.0.0	R3	UTRAN Iur interface signalling transport	Correction of M3UA references
ARIB STD-T63-25.423	6.6.0	6.5.0	R3	UTRAN Iur interface RNSAP signalling	- Feature Cleanup: Removal of CPCH, Removal of Support of dedicated pilot as sole phase reference, Removal of Compressed mode by puncturing, Removal of Tx diversity closed loop mode2, Removal of DSCH (FDD mode), Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, Removal of SSDT - Correction on E-RGCH Sequence Signature - Introduction of Bundling Feature - Alignment of RNSAP with latest status of EUDCH stage 2 (TS 25.309) and RRC (TS 25.331) - Congestion control for HSDPA - Direct Information Transfer for MBMS purposes
ARIB STD-T63-25.424	6.2.0	6.1.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.425	6.2.0	6.1.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	- Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH - Iub/Iur Enhancement for HS-DSCH Related to RLC Reset - Transport Network Congestion Detection and Control

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.426	6.4.0	6.3.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	- Coding of IP address in RANAP, RNSAP and NBAP messages - Correction of M3UA references
ARIB STD-T63-25.427	6.3.0	6.2.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- Clarification of the use of CFN for Enhanced Uplink - Removing the abbreviation SFN for Subframe Number - Feature clean-up: Removal of DSCH (FDD mode) - Transport Network Congestion Detection and Control
ARIB STD-T63-25.430	6.5.0	6.4.0	R3	UTRAN Iub Interface: General Aspects and Principles	Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH
ARIB STD-T63-25.433	6.6.0	6.5.0	R3	UTRAN Iub interface NBAP signalling	- Feature Cleanup: Removal of CPCH, Removal of Support of dedicated pilot as sole phase reference, Removal of Compressed mode by puncturing, Removal of Tx diversity closed loop mode2, Removal of DSCH (FDD mode), Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512, Removal of SSdT - Timing maintained hard HO - Addition of SIB5bis in IB Type - E-DCH general corrections and improvements: E-DCH Capacity Consumption Law, E-DCH diversity control, E-DCH: Provided bit-rate per logical channel priority measurement, E-DCH Maximum Received Total Wide Band Power, Alignment of NBAP with latest status of EUDCH stage 2 (TS 25.309) and RRC (TS 25.331), Correction on E-RGCH Sequence Signature, Introduction of Bundling Feature. - Synchronisation for MBMS p-t-m Transmissions from Multiple Cells (Simulcast)
ARIB STD-T63-25.434	6.2.0	6.1.0	R3	UTRAN Iub interface data transport &	- Coding of IP address in RANAP, RNSAP and NBAP messages

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
				transport signalling for CCH data streams	- Feature clean-up: Removal of DSCH (FDD mode)
ARIB STD-T63-25.435	6.2.0	6.1.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	- Feature clean-up: Removal of DSCH (FDD mode), Removal of CPCH - Iub/Iur Enhancement for HS-DSCH Related to RLC Reset - Transport Network Congestion Detection and Control
ARIB STD-T63-25.450	6.1.0	6.0.0	R3	UTRAN Iupc interface general aspects and principles	Correction on use of SCCP connection for information exchange
ARIB STD-T63-25.453	6.9.0	6.8.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Correction of deletion of Information Exchange Context
ARIB STD-T63-26.190	6.1.1	6.0.0	S4	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	Correction to text and some equations was done.
ARIB STD-T63-26.234	6.4.0	6.3.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Correction to QoE metrics specification for PSS was done.
ARIB STD-T63-26.236	6.3.0	6.2.0	S4	Packet switched conversational multimedia applications; Transport protocols	Clarification to the Introduction of AMR SDP parameters was given.
ARIB STD-T63-26.273	6.1.0	6.0.0	S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Support for input files with sampling frequency other than 48 kHz was added.
ARIB STD-T63-26.290	6.3.0	6.2.0	S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Correction of a value in Table 21 was done.
ARIB STD-T63-26.304	6.3.0	6.2.0	S4	Floating-point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec	Correction of DTX handling in AMR-WB modes, Remove IF2 header in AMR-WB bitstream, Decoder synchronization after frame erasures, Correction for buffer reading in low complexity encoder, Correction to a wrong function call,

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					Correction of mode switching using configuration file, Correction of information printed by decoder in DTX frames, Correction of library function for 3GP file format, and Support for input files with sampling frequency other than 48 kHz were done.
ARIB STD-T63-26.346	6.1.0	6.0.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Corrections to QoE metrics specification for MBMS, Using two TMGIs, MBMS Service Descriptions over HTTP, Corrections to the specification of Associated Delivery Procedures for MBMS, Usage of MBMS Session Identity, MBMS user service announcement via point-to-point push bearers, Removal of obsolete note, Specification of Raptor Forward Error Correction and Streaming User Service bundling, Clarification of Associated Delivery Procedure, Corrections of FLUTE Support Requirements, Corrections of the reference list, Definition of RTP Session, Corrections and editorial modifications to chapter 4, MBMS Repair and MBMS Media Codec Support were done.
ARIB STD-T63-26.410	6.3.0	6.2.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-code: 10 kbit/s mono encoding with stereo input files failed was given.
ARIB STD-T63-26.411	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Correction to C-code: Corrections to ETSI operator usage, Correction to C-code: Avoid reading of non-initialized variable and Correction to C-code: fixes for error concealment were done.
ARIB STD-T63-29.140	6.1.0	6.0.0	C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	Allocation of Diameter Command Codes and AVP Codes.
ARIB STD-T63-31.101	6.5.0	6.4.1	C6	UICC-Terminal Interface; Physical and Logical Characteristics	ISO/IEC 7816-series revision
ARIB STD-T63-31.102	6.10.0	6.9.0	C6	Characteristics of the USIM Application	- Clarification on ADM access condition - Essential correction of the 'hidden key' coding - ISO/IEC 7816-series revision

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					- Modifications regarding WLAN - Alignment of MBMS procedures with TS 33.246 - Clarification of the use of SPN - Added EF_ARR under DF_TELECOM - Number of stored MSKs - Essential correction of phonebook support - Corrections to eMLPP and AAeM
ARIB STD-T63-31.103	6.8.0	6.7.0	C6	Characteristics of the ISIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.111	6.6.0	6.5.0	C6	USIM Application toolkit (USAT)	- Correction to incomplete references - Addition of missing values in Proactive commands versus possible Terminal response - Clarification for SMS PP Data Download - Correction of OCI & OCT usage in conjunction with SETUP CALL
ARIB STD-T63-31.115	6.5.0	6.4.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Modifications due to revision of ISO/IEC 7816-series
ARIB STD-T63-31.116	6.8.0	6.7.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	- Introduction of an explicit description of the ISIM RFM mechanism - Modifications due to revision of ISO/IEC 7816-series
ARIB STD-T63-31.124	6.1.0	6.0.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Correction of coding in MT Call Event - Correction of applicability table - Essential corrections - Too many digits in PCS 1900 for the Called Party BCD number - Removal of GET RESPONSE references.
ARIB STD-T63-31.130	6.3.0	6.2.0	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	- Align paragraph numbering between 31.130 and TS 102 241 - Delete version and author info from the Java source code
ARIB STD-T63-33.107	6.5.0	6.4.0	S3	3G security; Lawful interception architecture and functions	Correction on the use of identities for I-WLAN lawful interception

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	6.9.0	6.8.2	S3	3G security; Handover interface for Lawful Interception (LI)	- Correction on IMS correlation - Inconsistency in Annex B.5
ARIB STD-T63-33.203	6.7.0	6.6.0	S3	3G security; Access security for IP-based services	Description of 2xx Auth_Ok message
ARIB STD-T63-33.220	6.5.0	6.4.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Usage of USS for local policy enforcement in BSF - Correcting figure 4.4
ARIB STD-T63-33.222	6.4.0	6.3.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Removal of editor's note
ARIB STD-T63-33.234	6.5.1	6.4.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Specify the number of the IPsec SAs under the same IKE SA in WLAN 3GPP IP access - Terminate WLAN session by AAA server - Correction to the definition of the Wn Reference Point - Corrects version number on cover page
ARIB STD-T63-33.246	6.3.0	6.2.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- MKI and authentication tag length in User Service Description - Clarification of Key domain ID in service announcement - Key usage clarification - Omitted MTK Update Error Message - Editorial corrections to TS 33.246 - Clarifications on MBMS key management - Use of IMPI in MBMS - Clarification on CSB ID and SP payload use - MIME type adjustments according to LS S3-050192

Revised Standard Number	Version at ARIB STD-T63 Ver.4.60	Version at ARIB STD-T63 Ver.4.50	3GPP WG	Title	Change Summary
					- Results of mapping the MBMS security requirements into security functions and mechanisms
ARIB STD-T63-34.109	6.1.0	6.0.0	R2	Terminal logical test interface; Special conformance testing functions	Clarification of loopback behaviour for uni-directional radio bearers
ARIB STD-T63-34.121	6.1.0	6.0.0	R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Corrections, additions related to test tolerances, new test case, ..etc.
ARIB STD-T63-34.124	6.1.0	6.0.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	A correction of receiver exclusion bands was made.

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	3.18.0	3.17.0	R4	UE Radio transmission and reception (FDD)	Spurious emission requirement for the PHS band was changed from 1893.5 – 1919.6 MHz to 1884.5 – 1919.6 MHz to capture the expansion of the PHS band.
ARIB STD-T63-25.104	3.13.0	3.12.0	R4	UTRA (BS) FDD; Radio transmission and reception	Spurious emission requirement for the PHS band was changed from 1893.5 – 1919.6 MHz to 1884.5 – 1919.6 MHz to capture the expansion of the PHS band. Placement of a statement was corrected which statement specified exceptional non-applicable band of the spurious emissions. (so called “12.5MHz rule”).
ARIB STD-T63-25.133	3.22.0	3.21.0	R4	Requirements for Support of Radio Resource Management (FDD)	Contents of the Annex A were removed as all the test cases for R99 had been completed in TS34.121.
ARIB STD-T63-25.141	3.14.0	3.13.0	R4	Base station conformance testing (FDD)	Spurious emission requirement for the PHS band and exception band statement on the spurious emission were corrected. They are consistent with the changes in the corresponding core specification (TS25.104, V3.13.0).

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	3.5.0	3.4.0	R2	Requirement on UE supporting a release-independent frequency band	Introduction of UMTS2600 internal band, Band VII
ARIB STD-T63-31.121	3.14.0	3.13.0	C6	Terminal tests for the UICC Interface; Part2	- ncorrect MCC value used in TC 7.4.1 - Incorrect PUK2 value used in TC 6.1.6 - Incorrect value used for EF SMS in TC 8.2.2

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	4.12.0	4.11.0	R4	UE Radio transmission and reception (FDD)	Only the corresponding changes in R99 (V3.18.0) were made.
ARIB STD-T63-25.104	4.8.0	4.7.0	R4	UTRA (BS) FDD; Radio transmission and reception	Only the corresponding changes in R99 (V3.13.0) were made.
ARIB STD-T63-25.133	4.16.0	4.15.0	R4	Requirements for support of radio resource management (FDD)	The lo range for the UTRA Carrier RSSI Inter frequency absolute accuracy was defined up to -50dBm in order to keep consistency with R99 specification.
ARIB STD-T63-25.141	4.9.0	4.8.0	R4	Base station conformance testing (FDD)	Only the corresponding changes in R99 (V3.14.0) were made.
ARIB STD-T63-25.307	4.5.0	4.4.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS2600 internal band, Band VII
ARIB STD-T63-31.121	4.13.0	4.12.0	C6	UICC-terminal interface; Application Test specification	- Rel-4: Incorrect PUK2 value used in TC 6.1.6 - Incorrect value used for EF SMS in TC 8.2.2

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-23.207	5.10.0	5.9.0	S2	End to end quality of service concept and architecture	Replace erroneous reference with correct one.
ARIB STD-T63-23.228	5.14.0	5.13.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- In Section 4.4 the sentence describing the information hidden is modified to state that all the operator network entities addresses are hidden. - In section 4.4 and 4.6.2.1, the parts related to the S-CSCF and network capabilities is removed.
ARIB STD-T63-23.236	5.4.0	5.3.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Clarification that Iu/A/Gb flexibility and VGCS/VBS do not interoperate and should not be operated together in the same service area of a network.
ARIB STD-T63-25.101	5.16.0	5.15.0	R4	UE Radio transmission and reception (FDD)	Only the corresponding changes in R4 (V4.12.0) were made.
ARIB STD-T63-25.104	5.11.0	5.10.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in R4 (V4.8.0) were made. Also spurious emission mask requirement for Band II (US) was corrected.
ARIB STD-T63-25.133	5.16.0	5.15.0	R4	Requirements for support of radio resource	Corresponding changes in R4 (V4.16.0) were made. Correction of Compressed Mode Patterns for BSIC

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
				management (FDD)	identification was made as well.
ARIB STD-T63-25.141	5.11.0	5.10.0	R4	Base station conformance testing (FDD)	Corresponding changes in R4 (V4.9.0) were made. Also spurious emission mask requirement for Band II (US) was corrected.
ARIB STD-T63-25.301	5.6.0	5.5.0	R2	Radio interface protocol architecture	Correction to the arrow direction on logical channel mapping
ARIB STD-T63-25.302	5.9.0	5.8.0	R2	Services provided by the physical layer	Feature Clean Up: Removal of CPCH
ARIB STD-T63-25.304	5.9.0	5.8.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	- Indentation fix in HCS measurement conditions - Correction to condition for starting penalty timer in HCS reselection
ARIB STD-T63-25.306	5.12.0	5.11.0	R2	UE Radio Access capabilities	Correction of HS-DSCH TB size and soft channel bits number for 1.28 Mcps TDD
ARIB STD-T63-25.307	5.4.0	5.3.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS2600 internal band, Band VII
ARIB STD-T63-25.321	5.12.0	5.11.0	R2	MAC protocol specification	- Correction of HS-DSCH TB size for 1.28 Mcps TDD - Feature Clean Up: Removal of CPCH
ARIB STD-T63-25.423	5.15.0	5.14.0	R3	UTRAN Iur interface RNSAP signalling	- Correction of ambiguity introduced by "feature cleanup" - Feature Cleanup: Removal of DRAC
ARIB STD-T63-25.424	5.6.0	5.5.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	IP Transport Option for Common TrCH Data Streams
ARIB STD-T63-31.048	5.1.0	5.0.0	C6	Security mechanisms for the (U)SIM application toolkit; Test specification	- Modification of TCs 23 and 27 in test area ANA_INS_INMS - Correction to test script - Correction of tests of Security Mechanism for the Response Packet

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-31.102	5.14.0	5.13.0	C6	Characteristics of the USIM Application	ISO/IEC 7816-series revision
ARIB STD-T63-31.103	5.11.0	5.10.0	C6	Characteristics of the ISIM Application	Default Record for EFIMPU
ARIB STD-T63-31.121	5.3.0	5.2.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Incorrect MCC value used in TC 7.4.1 - Incorrect PUK2 value used in TC 6.1.6 - Introduction of BCD number/ SSC content extension tests - Introduction of ACL tests - Incorrect value used for EF SMS in TC 8.2.2 Introduction of phonebook selection/ local phonebook handling tests
ARIB STD-T63-33.102	5.6.0	5.5.0	S3	3G Security Architecture	Keystatus sent by CN node in Security Mode Command
ARIB STD-T63-33.203	5.10.0	5.9.0	S3	3G security; Access security for IP-based services	- Corrections on Network hiding - Clarification of the authentication failure procedures - Correction of handling of IMPUs by the P-CSCF
ARIB STD-T63-34.108	5.6.0	5.5.0	R5	Common test environments for User Equipment (UE) conformance testing	Replacement of the technical content of 34.108 Rel-5 by a pointer to Rel-6 document
ARIB STD-T63-34.123-1	5.13.1	5.12.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- 5.12.0 -> 5.13.0: Replacement of the technical content of 34.123-1 Rel-5 by a pointer to Rel-6 document - 5.13.0 -> 5.13.1: 2005-10: Editorial correction to previous entry in change history
ARIB STD-T63-34.123-2	5.13.0	5.12.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Replacement of the technical content of 34.123-2 Rel-5 by a pointer to Rel-6 document

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-3	5.2.0	5.1.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	Most of changes are both addition and correction of WI10/12/14 test cases.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.70		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.122	6.0.0		C6	USIM conformance test specification	Creation of a Release 6 Version of TS 31.122
ARIB STD-T63-34.108	6.0.0		R5	Common test environments for User Equipment (UE) conformance testing	Created from 5.5.0. Most of changes are future clean updates and corrections.
ARIB STD-T63-34.123-1	6.0.0		R5	UE conformance specification;Part 1: Protocol conformance specification	Created from 5.12.0. Most of changes are future clean updates and corrections.
ARIB STD-T63-34.123-2	6.0.0		R5	UE conformance specification;Part 2: ICS proforma specification	Created from 5.12.0. Most of changes are Future clean updates and applicability table.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.3.0	6.2.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	- Change instances of Release 5 to Release 6 - Corrections to list of specifications
ARIB STD-T63-22.038	6.5.0	6.4.0	S1	USIM/SIM Application Toolkit (USAT/SAT);Service description Stage 1	Packet services bearer extends the GPRS bearer in the list of data bearers for the USAT.
ARIB STD-T63-22.105	6.4.0	6.3.0	S1	Services & Service capabilities	Addition of requirements for the association between services and QoS profiles, and the behaviour of UE when the association is stored in the USIM.
ARIB STD-T63-22.228	6.10.0	6.9.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Removal of IMS Local Services.
ARIB STD-T63-23.207	6.6.0	6.5.0	S2	End to end quality of service concept and architecture	Replace erroneous reference with correct one.
ARIB STD-T63-23.228	6.11.0	6.10.0	S2	IP Multimedia Subsystem (IMS); Stage 2	- In Section 4.4 the sentence describing the information hidden is modified to state that all the operator network entities addresses are hidden. - In section 4.4 and 4.6.2.1, the parts related to the S-CSCF and network capabilities is removed. - The private URI procedures in clauses 5.11.5.6 and 5.11.6.1 are changed to optional procedures to reflect their status as examples of possible service logic. Procedures associated with service logic are clarified. - Describe the behavior of MGCF in S-S procedures. - Call flows SS#2, 3, and 4 are not applicable for PSTN originating calls. SS#4 is not applicable for Non-IMS originated calls. - The remarks PSTN-O in call flow SS#1 has been corrected to reflect that the MGCF interworks ISUP/BICC messages to SIP messages and sends SIP messages to the S-CSCF in the terminating home network via the I-

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
					SCCF in the terminating home network and does not perform service logic, thus aligning with flow PSTN-O and stage 3 description. - The remarks AS-O in callflows SS#2 to SS#4 have been corrected to refer to the correct call flow. - Introduce Mx as reference point between IMS ALG and BGCF. - Remove the requirement that an AS can create a PSI in the HSS, rather the requirement is to activate already created PSI in the HSS via Sh reference point. - Also remove an open issue study item regarding PSI provisioning in the S-CSCF - Reference "RFC 3261 on Caller Preferences for SIP" is changed to "RFC 3841 on Caller Preferences for SIP".
ARIB STD-T63-23.236	6.1.0	6.0.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	- Clarification that Iu/A/Gb flexibility and VGCS/VBS do not interoperate and should not be operated together in the same service area of a network. - New subclauses has been introduced to specify a load re-distribution function. The changes are based on working assumptions agreed in SA#47 and earlier meetings.
ARIB STD-T63-25.101	6.9.0	6.8.0	R4	User Equipment (UE) radio transmission and reception (FDD)	Revision of additional receiver spurious emissions requirements on 800MHz band in Japan, introduction of UE performance requirements for E-DCH DL signalling channels, addition of enhanced performance requirements type 2 for HSDPA with CL transmit diversity based on chip level equaliser, corrections of BLER requirements for CQI under fading, and adding note on UARFCN for Band V and Band VI were made. Corresponding change in R5 (V5.16.0) on the protection band of PHS was also made.
ARIB STD-T63-25.104	6.10.0	6.9.0	R4	UTRA (BS) FDD; Radio transmission and	Revision of additional spurious emissions and additional receiver spurious emissions requirements on 800MHz

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
				reception	band in Japan, and introduction of BS performance requirements for EDCH Uplink channels were made. Corresponding changes in R5 (V5.11.0) were also made.
ARIB STD-T63-25.113	6.2.0	6.1.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Terminology on “Radiated Emission Test method” was corrected. Radiated emissions are measured as Mean power (RMS).
ARIB STD-T63-25.133	6.11.0	6.10.0	R4	Requirements for support of radio resource management (FDD)	Corrections on “Timing-maintained hard handover” requirements, UTRA Carrier RSSI relative accuracy, E-TFC selection in the UE, and Maximum size of active set for HSUPA were made. Requirements for non-HSDPA and non-EDCH transmitter carrier power were introduced. Corresponding changes in R5 (V5.16.0) were also made.
ARIB STD-T63-25.141	6.11.0	6.10.0	R4	Base station conformance testing (FDD)	Revision of additional spurious emissions and additional receiver spurious emissions requirements on 800MHz band in Japan, correction on multi-path propagation condition for Band VI (for Japan), corrections of test with extreme power conditions, and introduction of BS performance requirements for EDCH Uplink channels were made. Editorial changes were made on each “minimum requirements” clauses. Corresponding changes in R5 (V5.11.0) were also made.
ARIB STD-T63-25.171	6.2.0	6.1.0	R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Test conditions (test scenarios) for A-GPS were corrected as RAN-WG5 identified technical issues which should be fixed.
ARIB STD-T63-25.211	6.6.0	6.5.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Change the maximum SF for E-DPDCH to 256. Clarify that DPCCH is always transmitted with E-DPCCH/E-DPDCH. Correct the Tx diversity applicability table.
ARIB STD-T63-25.212	6.6.0	6.5.0	R1	Multiplexing and channel coding (FDD)	Change the maximum SF for E-DPDCH to 256. Correct the transmission gap specification of E-DPDCH. Specify E-AGCH information field mapping, definition, and multiplexing. Remove the description on RSN setting.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.213	6.4.0	6.3.0	R1	Spreading and modulation (FDD)	Clarify the derivation of beta_c and beta_d. Define that F-DPCH, E-RGCH, E-HICH and E-AGCH shall use the same scrambling code, and that the phase reference of the channel shall use the same scrambling code. Clarify the power offset quantization for HS-DPCCH, E-DPCCH and E-DPDCH.
ARIB STD-T63-25.214	6.7.0	6.6.0	R1	Physical layer procedures (FDD)	Enable the UE to increase the preamble power, when the value of Preamble_initial_power is below the minimum required UE transmit power. Define DPDCH transmission start time and E-DPCCH/E-DPDCH transmission start time. Define a 'partial DTX' operation on DL E-HICH/E-AGCH/E-RGCH. Clarify the power offset quantization for HS-DPCCH, E-DPCCH and E-DPDCH. Clarify the computation of gain factors of E-TFC. Define beta_coffee as 8/15. Add a note that E-DPCCH is transmitted even when E-DPDCH is DTX. Clarify E-RGCH detection. Clarify E-AGCH, E-HICH, E-RGCH power control. Clarify the quality criterion for DL synchronisation with F-DPCH. Insert power control operation with F-DPCH.
ARIB STD-T63-25.215	6.4.0	6.3.0	R1	Physical layer; Measurements (FDD)	Introduce the definition of UE power headroom measurement. Correct the downlink HS total power limitation.
ARIB STD-T63-25.301	6.4.0	6.3.0	R2	Radio Interface Protocol Architecture	Correction the mapping of PCCH to FACH
ARIB STD-T63-25.302	6.5.0	6.4.0	R2	Services provided by the physical layer	Feature Clean Up: Removal of CPCH
ARIB STD-T63-25.304	6.7.0	6.6.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Correction to condition for starting penalty timer in HCS reselection - Selecting the correct priority layer in HCS high mobility - Correction to inter-frequency cell reselection when HCS is not used

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
					- Correction to cell reselection when HCS is not used and MBMS PL is indicated
ARIB STD-T63-25.306	6.6.0	6.5.0	R2	UE Radio Access capabilities	- Removal RLC-SDU alignment capability - Feature Clean Up: Removal of DRAC - Adding the UE capability for FDD Radio frequency bands - F-DPCH support for HS-DSCH supporting Ues - Introduction of MBMS capability for TDD - Correction of UE capability for MBMS - Correction on table 5.1g (FDD E-DCH physical layer categories) - E-DCH L2 Buffer sizes - Removal of fixed position for S-CCPCHs carrying MBMS channels - Correction of TB size and soft channel bits number for 1.28 Mcps TDD - Introduction of battery-limited device indication in UE capability - Introduction of REL-6 Access Stratum release indicator
ARIB STD-T63-25.307	6.2.0	6.1.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS2600 internal band, Band VII
ARIB STD-T63-25.309	6.4.0	6.3.0	R2	FDD enhanced uplink; Overall description; Stage 2	- Minor corrections to E-DCH Stage 2 following offline review - Clarification of the term “pre-emption” for E-DCH - UE behavior to RGs when holding SG - Correction to E-TFC selection in compressed mode for 10 ms TTI - Correction to MAC-e/es Entity - Introduction of Reference Received Total Wideband Power - Maximum number of reference E-TFCs - Definition of UE power Headroom

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	6.6.0	6.5.0	R2	MAC protocol specification	- Correction of TB size for 1.28 Mcps TDD - Additional text on EUL in MAC specification - Definition of UE power Headroom - Feature Clean Up: Removal of CPCH
ARIB STD-T63-25.401	6.7.0	6.6.0	R3	UTRAN Overall Description	Adding of E-DCH Protocol Model for Separate Controlling and Serving RNC
ARIB STD-T63-25.423	6.7.0	6.6.0	R3	UTRAN Iur interface RNSAP signalling	- RNSAP stage 3 alignment of E-DCH with current status - Adding of EDCH capability in neighboring cells - Adding of frequency band indicator supported by Neighbouring - Feature Cleanup: Removal of DRAC Correction of ambiguity introduced by "feature cleanup" E-DCH correction
ARIB STD-T63-25.424	6.3.0	6.2.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	IP Transport Option for Common TrCH Data Streams
ARIB STD-T63-25.425	6.3.0	6.2.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Optional presence of new IE Flags IE and new IEs in spare extension
ARIB STD-T63-25.427	6.4.0	6.3.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- CRC-11 Polynomial for E-DCH - Value range missing for Number of Subframes and Number of Mac-es PDUs fields - Maximum UE Tx Power for EDCH
ARIB STD-T63-25.433	6.7.0	6.6.0	R3	UTRAN Iub interface NBAP signalling	- NBAP stage 3 alignment of E-DCH with current status - Improvement of the Abnormal Conditions description of the COMMON MEASUREMENT INITIATION procedure - Signalling of Reference Received Total Wideband Power

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
					IE - Transport Bearer Rearrangement for HSUPA - Addition of MBMS Notification function description - E-DCH Correction - Serving to Non-serving power ratio
ARIB STD-T63-25.435	6.3.0	6.2.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	- Congestion Indication for HSDPA - Optional presence of new IE Flags IE and new IEs in spare extension
ARIB STD-T63-25.450	6.2.0	6.1.0	R3	UTRAN Iupc interface general aspects and principles	Addition of Positioning Methods
ARIB STD-T63-26.234	6.5.0	6.4.0	S4	Transparent end-to-end streaming service; Protocols and codecs	SDP bandwidth modifiers are corrected.
ARIB STD-T63-26.236	6.4.0	6.3.0	S4	Packet switched conversational multimedia applications; Transport protocols	Clarifications on RTP Session Description Parameters for PoC is done.
ARIB STD-T63-26.244	6.4.0	6.3.0	S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	Correction regarding sample groups in 3GP file format is done.
ARIB STD-T63-26.273	6.2.0	6.1.0	S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Copyright statements and unused files are removed.
ARIB STD-T63-26.274	6.1.0	6.0.0	S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Correction of procedure is done.
ARIB STD-T63-26.304	6.4.0	6.3.0	S4	Floating-point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+)	Correction to frame erasure concealment is carried out

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
				codec	
ARIB STD-T63-26.346	6.2.0	6.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Interpretation of TOI sequencing is done
ARIB STD-T63-26.402	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Correction of written specification: AAC concealment fade out factor is done
ARIB STD-T63-26.410	6.4.0	6.3.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-Code: Enable 44.1 kHz input material encoding (floating-point code) and correction of C-Code: removal of obsolete table (floating-point code) are done.
ARIB STD-T63-26.411	6.2.0	6.1.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Correction to C-code: enable 44.1 kHz input material encoding (fixed-point code), correction to C-Code: Bitrate dependancy of AAC block switching threshold, correction to C-Code: prevent overflow in parameter estimation of Parametric Stereo IID value, correction to C-Code: smoothing of SBR noise values, correction to C-Code: removal of obsolete table (fixed-point code) and correction to C-Code: rounding in TNS parcor coefficient calculation are carried out.
ARIB STD-T63-29.140	6.2.0	6.1.0	C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	Stage 2 Alignments
ARIB STD-T63-31.102	6.11.0	6.10.0	C6	Characteristics of the USIM Application	- Clarification on ADM access condition
ARIB STD-T63-31.103	6.9.0	6.8.0	C6	Characteristics of the ISIM Application	- Default Record for EFIMPU - Corrections of EFIST Service No. referencing - Changes in Application Protocol due to the use of ISIM Service Table
ARIB STD-T63-31.121	6.1.0	6.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Incorrect MCC value used in TC 7.4.1 - Incorrect PUK2 value used in TC 6.1.6 - Numbering and minor corrections - Clarification of BCD number/ SSC content extension tests

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
					Incorrect value used for EF SMS in TC 8.2.2
ARIB STD-T63-31.124	6.2.1	6.1.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Correction of release dependent EF values - Correction of applicability and terminal profile support tables - Correction of EF_BDN coding - Incorrect Dialling Number string in clause 27.22.4.13.1 SEQ 1.9 for PCS 1900 - Incorrect Ti Flag value for SET UP 1.4.1 in clause 27.22.4.16.1 - Correction of TP-MR (TP Message Reference) of the SMS SUBMIT TPDU submitted to the USS (Network) - Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11 - Corrections in the Logical description and BER encoding in clause 27.22.6.2 and 27.22.4.11 - Incorrect DCS in SMS-CB data download tests - Essential Corrections in clause 27.22.8 MO SHORT MESSAGE CONTROL BY USIM - CR 31.124: Introduction of BDN tests for terminals not supporting BDN - Essential Corrections - Incorrect SMS-PP 1.4.1 TPDU in clause 27.22.4.22.1 - Missing interactions in Bearer Independent Protocol test cases - Correction of Refresh tests - Applicability of TC 27.22.4.7.1 and TCs related to FDN and BDN - Correction of CB message identifier - Essential correction to Terminal Profile table E.1 - Addition of new UCS2 Tests - Essential corrections in display icons Setup Menu and Select Item - Incorrect Coding of SMS-PP (Data download) Message in clause 27.22.4.7.1 and 27.22.5.1

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-31.130	6.4.1	6.3.0	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	Adding missing constant values
ARIB STD-T63-33.102	6.4.0	6.3.0	S3	3G security; Security architecture	- Keystatus sent by CN node in Security Mode Command - Incorrect usage of COUNT-I in security mode set-up procedure
ARIB STD-T63-33.141	6.2.0	6.1.0	S3	Presence service; Security	Addition of reference to early IMS security TR
ARIB STD-T63-33.203	6.8.0	6.7.0	S3	3G security; Access security for IP-based services	- Corrections on Network hiding - Clarification of the authentication failure procedures - Correction of handling of IMPUs by the P-CSCF - Correction of an Inconsistency Between Annex H and RFC3329
ARIB STD-T63-33.220	6.6.0	6.5.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Clarification of anonymous access to NAF in GBA - Removing IMPI from USS - Removing duplication of text relating to BSF addressing - Clarification of lifetime of derived keys - Addition of the Dz interface for multiple HSS deployments - Removing requirement to send authentication vectors in batches - Clarification concerning input parameter encoding for GBA_U NAF derivation procedure - Providing Ua-security protocol based key separation
ARIB STD-T63-33.222	6.5.0	6.4.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	- Adding additional mandatory CipherSuites for PSK TLS - Removing an inconsistency within TS 33.222 (Section 6.2) - Adding a clarification to TS 33.222 (Section 6.1)

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
ARIB STD-T63-33.234	6.6.0	6.5.1	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Correction of reference - Clarification on obtaining Remote IP address during Tunnel Establishment Procedure - Profiling of IKEv2 to support Re-keying of IPsec SAs and IKE SAs - Separation of authentication and authorization in WLAN 3GPP IP access - Support for simultaneous WLAN direct IP access sessions
ARIB STD-T63-33.246	6.4.0	6.3.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Clarify FEC handling - Clarification to UE handling at reception of service announcement description - Back-off parameter binding scope - IDs and encoding of MIKEY messages - Moving the EXT payload - Handling of re-sent MSK messages - Clarification of MSK ID in service announcement - More than one FQDN for key management - NAF Id alignment with TS 33.220 - Key Domain ID in MSK request - Identifying correct MIME types, correcting various editorials and wrong references
ARIB STD-T63-34.121	6.2.0	6.1.0	R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Most of changes are future clean updates and corrections.
ARIB STD-T63-34.171	6.1.0	6.0.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency	Addition of test tolerances, Addition of maximum permitted test time, Statistical testing in A-GPS, Change to method of

Revised Standard Number	Version at ARIB STD-T63 Ver.4.70	Version at ARIB STD-T63 Ver.4.60	3GPP WG	Title	Change Summary
				Division Duplex (FDD)	selecting satellites
ARIB STD-T63-35.201	6.1.0	6.0.0	S3	Specifiction of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Correction of sample code
ARIB STD-T63-35.202	6.1.0	6.0.0	S3	Specifiction of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	Kasumi roundfunction, correction of formula

1. Release 99**1.1. Added Standards**

Added Standard Number	Version at ARIB STD-T63 Ver.4.80		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.124	3.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Creation of a void R99 specification pointing to Rel-4

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	3.6.0	3.5.0	R2	Requirement on UE supporting a release-independent frequency band	- Introduction of UMTS 900 (Band VIII) - Introduction of UMTS1700
ARIB STD-T63-31.121	3.15.0	3.14.0	C6	Terminal tests for the UICC Interface; Part2	CR to reference to next release of TS 31.121

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.80		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.124	4.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Creation of a void Rel-4 specification pointing to Rel-5

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	4.6.0	4.5.0	R2	Requirements on UE supporting a release-independent frequency band	- Introduction of UMTS 900 (Band VIII) - Introduction of UMTS1700
ARIB STD-T63-25.423	4.13.0	4.12.1	R3	UTRAN Iur Interface RNSAP Signalling	ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD
ARIB STD-T63-31.121	4.14.1	4.13.0	C6	UICC-terminal interface; Application Test specification	CR to reference to next release of TS 31.121

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.4.80		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.124	5.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Creation of a void Rel-5 specification pointing to Rel-6

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	5.17.0	5.16.0	R4	UE Radio transmission and reception (FDD)	Requirements for UE outer loop power control behaviour with different transport formats, which reflecting RAN2 clarification, is introduced. New UARFCN scheme is introduced and re-numbering are made on Band III (1.7GHz band in Eu), resulting also in unique numbers for Band IX (1.7GHz band in Japan).
ARIB STD-T63-25.104	5.12.0	5.11.0	R4	UTRA (BS) FDD; Radio transmission and reception	New UARFCN scheme is introduced and re-numbering are made on Band III (1.7GHz band in Eu), resulting also in unique numbers for Band IX (1.7GHz band in Japan).

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.133	5.17.0	5.16.0	R4	Requirements for support of radio resource management (FDD)	Text related to PCPCH access is removed as a feature clean up agreed for this release.
ARIB STD-T63-25.141	5.12.0	5.11.0	R4	Base station conformance testing (FDD)	New UARFCN scheme is introduced and re-numbering are made on Band III (1.7GHz band in EU), resulting also in unique numbers for Band IX (1.7GHz band in Japan).
ARIB STD-T63-25.211	5.8.0	5.7.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Remove CSICH from clause 5.3.3.7.
ARIB STD-T63-25.306	5.13.0	5.12.0	R2	UE Radio Access capabilities	Feature cleanup and other leftovers
ARIB STD-T63-25.307	5.5.0	5.4.0	R2	Requirements on UE supporting a release-independent frequency band	- Introduction of UMTS 900 (Band VIII) - Introduction of UMTS1700
ARIB STD-T63-25.423	5.16.0	5.15.0	R3	UTRAN Iur interface RNSAP signalling	ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD
ARIB STD-T63-31.103	5.12.0	5.11.0	C6	Characteristics of the ISIM Application	- Encoding of IMPI, IMPU and Domain; Rel-5 - Removal of "Subscription related procedures"
ARIB STD-T63-31.121	5.4.0	5.3.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	CR to reference to next release of TS 31.121
ARIB STD-T63-33.102	5.7.0	5.6.0	S3	3G Security Architecture	Correction on Keystatus sent by CN node in Security Mode Command
ARIB STD-T63-34.123-3	5.3.0	5.2.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	Addition of AGPS, HSDPA, BMC, test cases ..etc.. Many corrections of existence test case were made.

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.4.0	6.3.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.101	6.11.0	6.10.0	S1	Service aspects; Service principles	New requirement added to A.9: Additionally the network should be capable of providing, and the UE may display, an indication of the serving cells' capabilities e.g. GPRS, HSDPA, HSUPA.
ARIB STD-T63-22.141	6.5.0	6.4.1	S1	Presence service; Stage 1	Replacement of incorrect reference
ARIB STD-T63-23.040	6.6.0	6.5.0	C1	Technical realisation of Short Message Service(SMS)	Reference corrections
ARIB STD-T63-23.140	6.11.1	6.10.0	CP	Multimedia Messaging Service (MMS); Functional description; Stage 2	- Correction of Section 3.1 - Correction regarding the deletion of multimedia messages on a MMS Relay/Server - Addition of Routeing Address Resolution indicator
ARIB STD-T63-23.228	6.12.0	6.11.0	S2	IP Multimedia Subsystem (IMS); Stage 2	The references are updated to the correct document numbers.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-23.236	6.2.0	6.1.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Support for NOM1 was added to TS 23.236. The chosen approach does not require any changes in the Gs interface and the O&M operations only affect SGSN.
ARIB STD-T63-25.101	6.10.0	6.9.0	R4	User Equipment (UE) radio transmission and reception (FDD)	Corresponding changes in release 5 (V.5.17.0) are made. Fractional DPCH DL power control test is introduced. Compressed mode requirements in Layer 1 and combined compressed mode patterns for RRM test are corrected. Correction on the UE additional spurious emissions for transmitters required in the 800MHz band in Japan is made. Introduction of MBMS requirements, corrections to UE E-DCH performance requirements and introduction of the ACLR and Spectrum mask for E-DCH are made.
ARIB STD-T63-25.104	6.11.0	6.10.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in release 5 (V.5.12.0) are made. Corrections to spurious emission for UMTS850 (US) and BS performance requirements for EDCH uplink channels are made. The test definition is corrected so as to aligned with the corresponding text in 25.141.
ARIB STD-T63-25.113	6.3.0	6.2.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	As a reflection of a new requirement in the referenced international standard CISPR 22, requirements of radiated emissions from ancillary equipment above 1 GHz is newly introduced.
ARIB STD-T63-25.133	6.12.0	6.11.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in release 5 (V.5.17.0) are made. Introduction of RRM combined compressed mode test case, MBMS requirements, TFC and E-TFC selection requirements and PRACH timing test are made.
ARIB STD-T63-25.141	6.12.0	6.11.0	R4	Base station conformance testing (FDD)	Corresponding changes in release 5 (V.5.12.0) are made. Corrections to spurious emission for UMTS850 (US) and BS performance requirements for EDCH uplink channels are made. "Minimum requirements" clauses are redrafted. Correction for clarification on the Total Power dynamic range test procedure is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.211	6.7.0	6.6.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Modify the text in clause 5.2.1.3 not to mean that DPCH is always transmitted. Remove the field for $N_{TPC} = 1$ in table 5. Remove CSICH from clause 5.3.3.7.
ARIB STD-T63-25.212	6.7.0	6.6.0	R1	Multiplexing and channel coding (FDD)	Limit the usage of $PL_{max} = 0.33$ to CAT6 UEs only when using SF2+SF4. Modify the text in clause 4.2.14 to allow different spreading factors in case when one CCTrCH is mapped onto four E-DPDCHs. Modify the rule that when multicode is used the UE selects a lower SF if a higher SF would require puncturing.
ARIB STD-T63-25.214	6.7.1	6.7.0	R1	Physical layer procedures (FDD)	Correct the editorial error in the chapter 6B.3 heading.
ARIB STD-T63-25.304	6.8.0	6.7.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	Structure and use of TMGI for MBMS notification
ARIB STD-T63-25.306	6.7.0	6.6.0	R2	UE Radio Access capabilities	- Tx/Rx frequency separation capability (FDD) - Feature cleanup and other leftovers - E-DCH L2 Buffer sizes - Introduction of Support of Handover to GAN
ARIB STD-T63-25.307	6.3.0	6.2.0	R2	Requirements on UE supporting a release-independent frequency band	- Introduction of UMTS 900 (Band VIII) - Introduction of UMTS1700
ARIB STD-T63-25.309	6.5.0	6.4.0	R2	FDD enhanced uplink; Overall description; Stage 2	- Criteria for the Happy Bit - HARQ process restriction/reservation for non-scheduled/scheduled transmissions - Simultaneous E-DCH and DCH (DCH UL capability) - E-DCH RRM measurements in case of multi-cell RLS - Secondary Absolute Grant Scope - Alignment to stage 3 and removal of details

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	6.7.0	6.6.0	R2	MAC protocol specification	- Multi-step handling for E-RGCH - Clarifications and Corrections of E-TFC Selection - Criteria for the Happy Bit - Correction to definition of reference_ETPR - TEBS and HLBS Coding - Correction on MAC-e PDU format - SI Triggering Timer - Maximum number of transmissions for control-only information - Additional error case on the Absolute Grant channel - HARQ process restriction/reservation - Behavior at E-DCH TTI change - Buffer status for Scheduling Information - Buffer definition for Happy Bit setting - Specification of rate control combining rules in baseline procedure for Serving Grant update - Definition of sample for E-DCH bit rate measurement - Size of Absolute Grant field - Transmission of Scheduling Information without higher layer data - Size of UPH field and assembly of Scheduling Information message - E-DCH SI MAC-e PDU and SI timers - MAC es/e reset indicator - E-DCH handling at serving cell change - RSN sequence in the presence of compressed mode transmission gaps
ARIB STD-T63-25.422	6.2.0	6.1.0	R3	UTRAN Iur interface signalling transport	- Clarification of M3UA Client in IP Transport Option - Addition of ANSI protocol options
ARIB STD-T63-25.423	6.8.0	6.7.0	R3	UTRAN Iur interface RNSAP signalling	- Indexed Inter-frequency RACH measurement reporting - Correction of FDD Downlink Unidirectional DCH Indicator

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
					- Correction of FDD Unidirectional DCH Indicator reconfiguration - Corrections to the synchronised radio link reconfiguration procedure for 1.28Mcps TDD - HARQ Process Management for E-DCH - E-DCH processing issue and rate limitation - Cleanup of editorials found during the Rel6 review before specification freezing - Alignment of RNSAP with latest HSUPA agreements - Correction on E-DCH MAC-Flow to Add IE - Correction for HARQ Preamble and Postamble - HSPA Serving Cell Change by RL Addition Procedure - EDCH setup by unsynchronised reconfiguration - ASN.1 error corrections to RADIO LINK RECONFIGURATION READY TDD - FDPCH and HS-SCCH power offset - EDCH Cell Capability Enhancement - E-DCH HARQ RV Configuration
ARIB STD-T63-25.427	6.5.0	6.4.0	R3	UTRAN lur and lub interface user plane protocols for DCH data streams	- Adding of conditions for sending HARQ Failure - Correction of that HARQ failure shall be sent on highest bearer
ARIB STD-T63-25.433	6.8.0	6.7.0	R3	UTRAN lub interface NBAP signalling	- Compressed Mode Reconfiguration - NBAP clean-up - EDCH Cell Capability Enhancement - FDD Downlink Unidirectional DCH Indicator

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
					- FDD Unidirectional DCH Indicator reconfiguration - HARQ Process Management for E-DCH - E-DCH processing issue and rate limitation - HSPA Serving Cell Change by RL Addition Procedure - Alignment of NBAP with latest HSUPA agreements - Abnormal Condition for Maximum Target Received Total Wideband Power - HSUPA DL Channel Code Allocation per Cell Portion - Correction for HARQ Preamble and Postamble - Alignment of Tables in the Common Measurement Description - Update of EDCH Capacity consumption law - EDCH setup by unsynchronised reconfiguration - FDPCH and HS-SCCH power offset - E-DCH HARQ RV Configuration
ARIB STD-T63-25.453	6.10.0	6.9.0	R3	UTRAN Iurc interface Positioning Calculation Application Part (PCAP) signalling	Correction after PCAP general review.
ARIB STD-T63-26.141	6.2.0	6.1.0	S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Missing reference numbers are added.
ARIB STD-T63-26.234	6.6.0	6.5.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Correction of the SVGT1.2 content creation guideline is done.
ARIB STD-T63-26.273	6.3.0	6.2.0	S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Correction to scaling of decimation filter memory is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-26.274	6.2.0	6.1.0	S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Reference to relevant test vectors is corrected and Bit streams for DTX operation are replaced.
ARIB STD-T63-26.346	6.3.0	6.2.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	MBMS User Service Announcement Application ID, Time Synchronization between BM-SCs and MBMS Ues, Reference and definition correction for MBMS user service, PtP file repair URI correction and Allocation of FEC Encoding IDs are clarified.
ARIB STD-T63-26.406	6.1.0	6.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Correction to Enhanced aacPlus Encoder conformance is done.
ARIB STD-T63-26.410	6.5.0	6.4.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-code: encoder bitrate switching simulation toolset, Correction to C-code: encoder tuning table entry for 44.1 kHz was wrong, Correction to C-code: fix to make decoder more robust against corrupt input data and Correction to C-code: removal of unused coefficients in resampler are carried out.
ARIB STD-T63-26.411	6.3.0	6.2.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Correction to C-code: encoder tuning table entry for 44.1 kHz was wrong and Correction to C-code: encoder bitrate switching simulation toolset are done.
ARIB STD-T63-28.062	6.2.0	6.1.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	PCM-Idle Pattern Problem, TFO Decision on Preferred Configurations, TFO Decision Algorithm in C-Code, Codec Type in TFO Frames, Rate Control on Call Setup and Determination of the TFO Frame Format are clarified.
ARIB STD-T63-29.140	6.3.0	6.2.0	C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	Addition of Routeing Address Resolution indicator
ARIB STD-T63-31.102	6.12.0	6.11.0	C6	Characteristics of the USIM Application	NAF Id alignment with TS 33.246; Rel-6

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-31.103	6.10.0	6.9.0	C6	Characteristics of the ISIM Application	- Encoding of IMPI, IMPU and Domain; Rel-6 - Removal of "Subscription related procedures"
ARIB STD-T63-31.111	6.7.0	6.6.0	C6	USIM Application Toolkit (USAT)	- Correction of the length of Bearer parameters for UTRAN Packet Service; Rel-6 - missing data objects concerning Frames; Rel-6
ARIB STD-T63-31.121	6.2.0	6.1.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	CR to create combined R99 – Rel-6 version
ARIB STD-T63-31.124	6.3.0	6.2.1	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Correction of Send SS (UCS2) tests - Essential Corrections in clause 27.22.4.11 - Corrections to Select Item (icons support) - 27.22.7.4.1 Location Status Event (normal) - Essential Corrections of Set Up Menu test - Correction of applicability table and related addition of missing test sequences - Correction in SMS-PP 1.4.1 TPDU of clause 27.22.4.22.1 - Essential Corrections of SMS-PP download message in Refresh test case - Essential Correction in MO SHORT MESSAGE CONTROL BY USIM Deletion of sequence 1.9 Deletion of SEQ 1.3 in clause 27.22.4.13.1
ARIB STD-T63-33.102	6.5.0	6.4.0	S3	3G security; Security architecture	- Clarify key set handling for PS handover - Correction on Keystatus sent by CN node in Security Mode Command
ARIB STD-T63-33.107	6.6.0	6.5.0	S3	3G security; Lawful interception architecture and functions	Availability of IMSI at PDG
ARIB STD-T63-33.108	6.10.0	6.9.0	S3	3G security; Handover interface for Lawful Interception (LI)	Wrong references to tables for subaddress
ARIB STD-T63-33.203	6.9.0	6.8.0	S3	3G security; Access security for IP-based services	Correction of text on negotiation of confidentiality algorithms

Revised Standard Number	Version at ARIB STD-T63 Ver.4.80	Version at ARIB STD-T63 Ver.4.70	3GPP WG	Title	Change Summary
ARIB STD-T63-33.220	6.7.0	6.6.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	NAF_Id encoding
ARIB STD-T63-33.234	6.7.0	6.6.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	IMSI availability at PDG
ARIB STD-T63-33.246	6.5.0	6.4.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- ROC synchronization - Correction on MSK processing in case of solicited pull procedure - Handling several status codes in one response message - Definition of newer MSK
ARIB STD-T63-34.108	6.1.1	6.0.0	R5	Common test environments for User Equipment (UE) conformance testing	Many corrections were made. UMTS1700 and additional HSDPA bearer were introduced.
ARIB STD-T63-34.121	6.3.0	6.2.0	R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	Corrections/Additions/Clarifications were made. UMTS1700 was introduced.
ARIB STD-T63-34.123-1	6.1.0	6.0.0	R5	UE conformance specification;Part 1: Protocol conformance specification	Many corrections were made. New test cases for DSAC and additional HSDPA bearer were added.
ARIB STD-T63-34.123-2	6.1.0	6.0.0	R5	UE conformance specification;Part 2: ICS proforma specification	Most of changes were based on the changes for 123-1
ARIB STD-T63-34.171	6.2.0	6.1.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Changes to test procedure in Test Case 5.6

(Annex 25)

3GPP ARIB Change history List of Standards Ver. 5.00

28 September 2006

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.16.0	3.15.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.13.0	4.12.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specs
ARIB STD-T63-25.133	4.17.0	4.16.0	R4	Requirements for support of radio resource management (FDD)	Annex A was deleted.

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.229-1	5.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	Created from v2.1.1. (Approved at RAN#32)
ARIB STD-T63-34.229-2	5.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	Created from v2.0.1. (Approved at RAN#32)

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.11.0	5.10.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	- Corrections to list of specifications - Correction to title of reference to 21.900

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-22.228	5.7.0	5.6.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Removal of the requirement to redirect an IMS communication based on individual media.
ARIB STD-T63-23.228	5.15.0	5.14.0	S2	IP Multimedia Subsystem(IMS); Stage 2	TS 23.228 is aligned with 24.229, i.e. allowing the UE to use the temporary public user identity in all of SIP REGISTER messages.
ARIB STD-T63-25.101	5.19.0	5.17.0	R4	UE Radio transmission and reception (FDD)	Clarification of modulation accuracy requirements for signal containing HS-DPCCH(V5.18.0), and Removal of CPCH from transmit modulation requirements were made(V5.19.0).
ARIB STD-T63-25.423	5.17.0	5.16.0	R3	UTRAN Iur interface RNSAP signalling	Correction of the presence of the cell capacity class value IE
ARIB STD-T63-25.433	5.15.0	5.13.0	R3	UTRAN Iub interface NBAP signalling	- Addition of the SIR Target for HS-SICH in 1.28Mcps TDD - Removal of the Aspect of CPCH power offset
ARIB STD-T63-34.123-3	5.5.0	5.3.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	- Addition of many test cases for AGPS, HS, ..etc.. - Many corrections have also been made.

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.4.2	6.4.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	- Correction to title of reference to 21.900. Correction to spec list table entries for 23.125 and 32.251 to show that the are intended for SDO publication. - Corrects cover date.
ARIB STD-T63-21.111	6.3.0	6.2.0	C6	USIM and IC card requirements	Review of TS 21.111, USIM and IC Card Requirements; Rel-6
ARIB STD-T63-22.146	6.7.0	6.6.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	- Chapter 6 is updated to cover both the MBMS Multicast and the MBMS Broadcast mode. Security considerations are not restricted to "Privacy". - In chapters 4 and 7, subscriber charging is added to broadcast mode charging chapter but only for the parts where charging is security related.
ARIB STD-T63-22.228	6.11.0	6.10.0	S1	Service requirements for the IP multimedia core network subsystem; Stage1	Removal of the requirement to redirect an IMS communication based on individual media.
ARIB STD-T63-22.246	6.3.0	6.2.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Deletion of the clause on service classes in section 5 and 5.1

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	6.7.0	6.6.0	C1	Technical realisation of Short Message Service(SMS)	Correction of reference
ARIB STD-T63-23.107	6.4.0	6.3.0	S2	Quality of Service (QoS) concept and architecture	A reference to the description of the R97/R98 QoS attributes is introduced in the present specification.
ARIB STD-T63-23.140	6.13.0	6.11.1	C	Multimedia Messaging Service (MMS); Functional description; Stage 2	Correction on HTTP response for MM7 schema
ARIB STD-T63-23.228	6.14.0	6.12.0	S2	IP Multimedia Subsystem (IMS); Stage 2	- Update the references to the correct subclause. - TS 23.228 is aligned with 24.229, i.e. allowing the UE to use the temporary public user identity in all of SIP REGISTER messages.
ARIB STD-T63-23.236	6.3.0	6.2.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Different Null-NRI's are used for each CN operator in the MOCN. The RAN node uses the null-NRI to select a CN node within the same CN operator. In that case RNC based CN selection is configured in RNC and CN nodes.
ARIB STD-T63-25.101	6.12.0	6.10.0	R4	User Equipment (UE) radio transmission and reception (FDD)	- Corresponding changes as in Release 5 (V.5.18.0 and V.5.19.0) were made. - Introduction of requirements for MBMS testing of 80ms TTI was made(V6.11.0). And the code power stability requirements for multi-code transmission and phase discontinuity for HS-DPCCH were added(V.6.12.0). - Modification of UE maximum output power with HS-DPCCH and E-DCH was made. And Clarifications of diversity receiver test and HS-SCCH performance were made(V6.11.0).
ARIB STD-T63-25.104	6.13.0	6.11.0	R4	UTRA (BS) FDD; Radio transmission and reception	- Modification of out of band emission was made(V6.13.0). - Clarification on birth/death propagation channel was made. And correction of the regional requirement on BS classification, tables and references were made(V6.12.0).

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-25.113	6.4.0	6.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	The upper limit of the frequency range for RF immunity was changed.
ARIB STD-T63-25.133	6.14.0	6.12.0	R4	Requirements for support of radio resource management (FDD)	Introduction of UPH measurement requirements(V6.13.0), E-TFC restriction requirements and E-TFC restriction testcase were made(V6.14.0). And Addition of testcase for MTCH reception and mobility requirements was made(V6.13.0). New test scenario for UTRAN to GSM reselection was introduced. Requirement and testcase for HS-DSCH cell change were added. And corrections of test requirements in the combined inter-frequency and GSM measurements testcase, and the reference were made(V6.13.0).
ARIB STD-T63-25.141	6.14.0	6.12.0	R4	Base station conformance testing (FDD)	- Modification of out of band emission was made(V6.14.0). - Clarifications on moving and birth/death propagation channels were made(V6.13.0). And correction of the regional requirement on BS classification, DCH demodulation test in multi-path fading case 4 conditions(V6.14.0), tables and references(V6.13.0) were made.
ARIB STD-T63-25.171	6.3.0	6.2.0	R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	UE simulated altitude and Horizontal Accuracy IE were changed. The altitude of simulated UE position was changed.
ARIB STD-T63-25.212	6.8.0	6.7.0	R1	Multiplexing and channel coding (FDD)	“ETFCI Information” reworded to “E-TFCI”.
ARIB STD-T63-25.213	6.5.0	6.4.0	R1	Spreading and modulation (FDD)	Correct number of configured DPDCHs when E-DPDCH is configured.
ARIB STD-T63-25.214	6.9.0	6.7.1	R1	Physical layer procedures (FDD)	Correct number of configured DPDCHs in relation to E-DPDCH power scaling. Clarify power control preamble length in the synchronisation procedure A. “E-TFC Index” reworded to “E-TFCI”.

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-25.302	6.7.0	6.5.0	R2	Services provided by the physical layer	- Editorial correction (Model of the UE's PHY layer - DL TDD mode) - Definition of Non-serving E-DCH RLS or Non-serving RLS - Removal of FFS regarding E-DCH
ARIB STD-T63-25.304	6.9.0	6.8.0	R2	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	- Effect of partial roaming restrictions on cell reselection and proposed performance enhancement - Corrected UE behaviour at LR reject - Clarification regarding Access Class and Initial Direct Transfer
ARIB STD-T63-25.306	6.8.0	6.7.0	R2	UE Radio Access capabilities	- Tx/Rx frequency separation capability (FDD) - Feature cleanup and other leftovers - E-DCH L2 Buffer sizes - Introduction of Support of Handover to GAN - Correction to number of RLC AM instances for HS - Inter-RAT PS Handover capability
ARIB STD-T63-25.309	6.6.0	6.5.0	R2	FDD enhanced uplink; Overall description; Stage 2	- Correction to signalling of reference power offset - Correction to signalling of load excess indicator - Support for different E-DCH and HS-DSCH serving cells - Non-serving to total E-DCH power ratio clarification
ARIB STD-T63-25.321	6.9.0	6.7.0	R2	MAC protocol specification	- Definition of reference_ETPR - AG_Timer for IE "Serving Grant" - TEBS and HLBS Coding - Correction related to automatic triggering of SI retransmissions

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
					- Clarifications at TTI Change - MAC-es/e and MAC-hs reset procedure - Enhanced Uplink Corrections - E-TFC Selection Pseudo Code Correction - Correction of MBMS-Id field (MAC header of MTCH) - E-DCH Serving Grant Update - One PDU size per logical channel per TTI - Buffer Status for the Happy Bit and Scheduling Information Reporting - Serving RG and Scheduling Information - Definition of RG_step_size - Correction to AG_Timer Start - Miscellaneous corrections for E-DCH - Correction to Notification of SI transmission failure and variable resets - Correction to Handling at Start of E-DCH Transmission - Additional inconsistent information on E-AGCH - Clarifications on E-TFCI - Transmission of SI if TEBS is zero - SG and Unquantized E-DPDCH to DPCCH power ratios
ARIB STD-T63-25.423	6.10.0	6.8.0	R3	UTRAN Iur interface RNSAP signalling	- Correction for DL DPCH Power Information - E-DCH Reference Power Offset by RL ADDITION - Corrections to E-DCH Uplink Combination in RL SETUP and RL ADDITION - Correction of the common related information for E-HICH

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
					and E-RGCH - E-RGCH/E-HICH Power Offset value range - Corrections to Combined RL Addition with HS-DSCH /E-DCH Serving change - E-DCH and HS-DSCH same serving cell - HS-DSCH Configured Indicator for Radio Link Addition - E-RNTI allocation on serving change - RNL cause "E-DCH not supported" missing in the ASN. 1 - Abnormal condition for HS-DSCH Configured Indicator IE
ARIB STD-T63-25.426	6.5.0	6.4.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Adding of E-DCH in 25.426
ARIB STD-T63-25.427	6.7.0	6.5.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- HARQ Failure Indication due to MAC-e Reset in UE - Clarification for HARQ Failure Indication - Missing new frame protocol services in list of services in clause 4.1
ARIB STD-T63-25.433	6.10.0	6.8.0	R3	UTRAN Iub interface NBAP signalling	- Correction to the Time Slot Format Configuration of PUSCH/PDSCH for LCR TDD - Correction for DL DPCH Power Information - E-DCH Reference Power Offset by RL ADDITION - Corrections to E-DCH Uplink Combination in RL SETUP and RL ADDITION - Correction of the common related information for E-HICH and E-RGCH - E-RGCH/E-HICH Power Offset value range - Corrections to Combined RL Addition with HS-DSCH /E-DCH Serving change

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
					- E-DCH and HS-DSCH same serving cell - HS-DSCH Configured Indicator for Radio Link Addition - E-RNTI allocation on serving change - Removal the aspect of CPCH power offset - Abnormal condition for HS-DSCH Configured Indicator IE
ARIB STD-T63-26.093	6.1.0	6.0.0	S4	AMR speech Codec; Source Controlled Rate operation	References are corrected.
ARIB STD-T63-26.094	6.1.0	6.0.0	S4	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	The description error and syntax error are corrected.
ARIB STD-T63-26.103	6.2.0	6.1.0	S4	Speech codec list for GSM and UMTS	3G-324.M2 Codec for Indication of Network-Initiated Service Change is done.
ARIB STD-T63-26.140	6.3.0	6.2.0	S4	Multimedia Messaging Service (MMS);Media formats and codes	Addition of a reference to TR 26.936 is done.
ARIB STD-T63-26.141	6.3.0	6.2.0	S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Addition of a reference to TR 26.936 is done.
ARIB STD-T63-26.193	6.1.0	6.0.0	S4	AMR speech codec , wideband; Source Controlled Rate operation	References are corrected.
ARIB STD-T63-26.234	6.8.0	6.6.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Correction of references and signalling of UAProf profiles in PSS and correction of reference to UAProf are carried out.
ARIB STD-T63-26.244	6.5.0	6.4.0	S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	Correction of references in the 3GP file format is done.
ARIB STD-T63-26.273	6.5.0	6.3.0	S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Correction to switching between AMR-WB and AMR-WB+ modes and correction to default stereo codec configurations are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-26.274	6.3.0	6.2.0	S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Correction is carried out.
ARIB STD-T63-26.304	6.6.0	6.4.0	S4	Floating-point ANSI-C code for the Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec	Correction to switching between AMR-WB and AMR-WB+ modes and Correction to default stereo codec configurations are done.
ARIB STD-T63-26.346	6.5.0	6.3.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Clarification on FDT Instance data elements, correction for the FEC block construction and example, MBMS Security function alignment and FEC correction are done.
ARIB STD-T63-26.406	6.3.0	6.1.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Correction to Enhanced aacPlus Decoder conformance: clarification of conformance criteria is done.
ARIB STD-T63-26.410	6.6.0	6.5.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-code: encoder switch is wrong is done.
ARIB STD-T63-31.102	6.14.0	6.12.0	C6	Characteristics of the USIM Application	- Service n°71 missed in EF_UST - USAT related procedures - Additional Terminal Profile - VService_Id coding examples
ARIB STD-T63-31.111	6.8.0	6.7.0	C6	USIM Application Toolkit (USAT)	Correction on "USIM Service table" in data SMS-PP download
ARIB STD-T63-31.121	6.4.0	6.2.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction of acceptance criteria in 6.1.3.5 and 6.1.4.5 - Essential corrections on ACL TC 9.1.1
ARIB STD-T63-31.122	6.1.0	6.0.0	C6	USIM conformance test specification	Essential Corrections to many test cases, which, if not implemented, would otherwise cause the USIM to fail essential tests

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-31.124	6.5.0	6.3.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- add SMS PP Data Download RP-ERROR Test Case and Correction on "USIM Service table" in data SMS-PP download - Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 38 - Essential corrections on test cases 27.22.6.3 and 27.22.6.4 using record 2 in EF FDN - Essential corrections on TC 27.22.6.4 sequence 4.1 - Essential corrections on SEND SHORT MESSAGE test cases - Essential correction of text attributes tests - Definition of appropriate QoS in BIP test cases related to GPRS for 3G - Essential correction of tables B.1 and E.1 - Essential Correction in REGISTER 1.2B message coding of clause 27.22.4.11.1 SEND SS (normal) - Essential correction of 27.22.4.13.1 SET UP CALL, seq 1.4 - Essential correction of second card reader test applicability - Essential correction of Refresh test in 27.22.7.4.2, seq. 2.4 - Correction of TON/NPI coding for Call Control test cases - Essential corrections on 27.22.4.11.1 sequence. 1.2 - Essential corrections of RUN AT Command tests - Essential correction of BIP tests

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-33.220	6.9.0	6.7.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- D-proxy renaming to Zn-proxy - Restricting the TLS CipherSuites in Annex E and cleanup of references - GBA keys handling and UICC presence detection - Clarify the confusion of the use of NAF-ID and FQDN - Minimum lifetime of Keys
ARIB STD-T63-33.221	6.3.0	6.2.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Update PSK TLS Reference
ARIB STD-T63-33.222	6.6.0	6.5.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Update PSK TLS Reference
ARIB STD-T63-33.234	6.8.0	6.7.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Correction of the incorrect statement in Tunnel fast re-authentication and authorization - Updating the reference - Correction to authentication information retrieval between 3GPP AAA Server and HSS
ARIB STD-T63-33.246	6.7.0	6.5.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Clarification of MTK ID reset in MSK update - Clarification of MTK ID reset
ARIB STD-T63-34.108	6.3.0	6.1.1	R5	Common test environments for User Equipment (UE) conformance testing	- Corrections to GPS data, message contents, ..etc. - Band VII and VIII are introduced.
ARIB STD-T63-34.121	6.4.0	6.3.0	R5	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	- Many corrections. - Band VII and VIII are introduced.
ARIB STD-T63-34.123-1	6.3.0	6.1.0	R5	UE conformance specification; Part 1: Protocol conformance specification	- Corrections. - New test cases are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.5.00	Version at ARIB STD-T63 Ver.4.80	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-2	6.3.0	6.1.0	R5	UE conformance specification;Part 2: ICS proforma specification	Modifications for newly introduced test cases and corrections.
ARIB STD-T63-34.124	6.2.0	6.1.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	The upper limit of the frequency range for RF immunity was changed. And Clarification of measuring radiated emissions as Mean power (RMS) was made.
ARIB STD-T63-34.171	6.4.0	6.2.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	- Corrections of SIBs to be broadcast. - Correction of “5.6 Moving scenario and periodic updating” concerning statistics. - Correction to allowable GPS Simulator Positioning Uncertainty. - Horizontal accuracy IE change for nominal accuracy test.

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.030	7.0.1		S1	Man-Machine Interface (MMI) of the User Equipment (UE)	The present document defines the requirements for and gives guidelines on the MMI on the User Equipment (UE). This includes the requirements of the user procedures for call control and supplementary service control, the requirements on the physical input media and the output, such as indications and displayed information.
ARIB STD-T63-22.038	7.5.0		S1	USIM/SIM Application Toolkit (USAT/SAT);Service description Stage 1	This 3GPP Technical Specification defines the stage one description of the USIM application Toolkit (USAT). Stage one is an overall service description, primarily from the subscriber's and serving environment's points of view, and does not deal with the details of the human interface itself.
ARIB STD-T63-22.067	7.0.0		S1	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	The present document specifies the stage 1 description of the enhanced Multi Level Precedence and Pre emptio Service (eMLPP). This service has two parts: precedence and pre emptio. Precedence involves assigning a priority level to a call in combination with fast call set up. Pre emptio involves the seizing of resources, which are in use by a call of a lower precedence, by a higher level precedence call in the absence of idle resources. Pre emptio can also involve the disconnection of an on going call of lower precedence to accept an incoming call of higher precedence.
ARIB STD-T63-22.071	7.4.0		S1	Location Services (LCS); Stage 1	This document provides the Stage One description of Location Services (LCS). A Stage One description provides an overall service description, primarily from the service subscriber's and user's points of view, but not dealing with the details of the Man Machine Interface (MMI). This TS includes information applicable to network operators, service providers and terminal, base station system,

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					switch, and data base manufacturers.
ARIB STD-T63-22.101	7.6.0		S1	Service aspects; Service principles	This Technical Specification (TS) describes the Service Principles for PLMNs specified by 3GPP. Principles and requirements for interworking with WLAN are covered in TS22.234 [35].
ARIB STD-T63-22.105	7.0.0		S1	Services & Service capabilities	Existing systems have largely standardised the complete sets of bearer services, teleservices and supplementary services which they provide. 3GPP specifications specify service capabilities rather than services, allowing service differentiation and system continuity. This Technical Specification (TS) describes how and what kind of services the user has access to.
ARIB STD-T63-22.141	7.0.0		S1	Presence service; Stage 1	This specification defines the requirements for the support of the presence service. The presence service results in presence information of a user and information on a user's devices, services and services components being managed by the network. Together, user, these devices, services and services components are termed presentity (presence entity). This TS makes extensive use of internet terminology to ensure alignment with the presence service description and behaviour in internet recommendations.
ARIB STD-T63-22.146	7.1.0		S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	This Technical specification defines the stage one description of the Broadcast and Multicast Services for the 3GPP System (UTRAN and GERAN). Stage one is the set of requirements which shall be supported for the provision of Broadcast and Multicast services, seen primarily from the subscriber's and service providers' points of view.
ARIB STD-T63-22.228	7.4.0		S1	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	This TS defines the service requirements from users' and operators' perspective for the support of IP multimedia applications.
ARIB STD-T63-22.233	7.0.0		S1	Transparent end-to-end packet-switched	3G mobile systems, through the increase in available bandwidth, offer new possibilities and services. One of

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
				streaming service; Stage1	these new services will be the ability to stream sound and movies to mobile devices.
ARIB STD-T63-22.246	7.1.0		S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	The present document describes MBMS User Services that use the capabilities of MBMS. Application scenarios including charging, QoS aspects and related service requirements derived from them are described. These scenarios and service requirements can be used as guidance for the design of codecs and bearers for both UTRAN and GERAN.
ARIB STD-T63-22.259	7.1.0		S1	Service requirements for Personal Network Management (PNM); Stage 1	The present document describes the service requirements for the Personal Network Management (PNM). Aspects of data synchronisation and management of user data are out of scope.
ARIB STD-T63-23.038	7.0.0		C1	Alphabets & Language-specific information	- Generation of Version 7.0.0 based on version 6.1.0 - CBS – Reference removal
ARIB STD-T63-23.041	7.0.0		C1	Technical Realization of Cell Broadcast Service	- Generation of Version 7.0.0 based on version 6.2.0 - CBS – Reference correction
ARIB STD-T63-23.228	7.4.0		S2	IP Multimedia Subsystem(IMS); Stage 2	This document defines the stage-2 service description for the IP Multimedia Core Network Subsystem (IMS), which includes the elements necessary to support IP Multimedia (IM) services. This document does not cover the Access Network functionality except as they relate to provision of IM services, these aspects are covered in the normative Annex E.
ARIB STD-T63-25.101	7.4.0		R4	UE Radio transmission and reception (FDD)	V7.0.0 of the document was derived from TS25.101(V6.7.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements (V7.1.0), enhanced performance requirements type 3 for HSDPA based on receiver diversity and chip level equaliser(V.7.3.0) and enhanced performance

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					requirements type 1 for DCH based on receiver diversity(V7.4.0) etc. were made.
ARIB STD-T63-25.104	7.4.0		R4	UTRA (BS) FDD; Radio transmission and reception	V7.0.0 of the document was derived from TS25.104(V6.8.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements (V7.2.0), correction of spurious emissions for coexistence with GSM900 in same geographic area (V7.3.0) etc. were made.
ARIB STD-T63-25.113	7.3.0		R4	Base station and Repeater electromagnetic compatibility (EMC)	V7.0.0 of the document was derived from TS25.113(V6.1.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements and radiated emissions from ancillary equipment above 1 GHz (V7.2.0) etc. were made.
ARIB STD-T63-25.133	7.4.0		R4	Requirements for support of radio resource management (FDD)	V7.0.0 of the document was derived from TS25.133(V6.9.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements(V7.2.0) and measurement performance requirements for Band III/IX UE(V7.3.0), correction of requirements for cross-band measurements, changes to E-TFC restriction requirements and correction of RTWP relative accuracy requirement etc. were made.
ARIB STD-T63-25.141	7.4.0		R4	Base station conformance testing (FDD)	V7.0.0 of the document was derived from TS25.141(V6.9.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements(V7.2.0) and additional UARFCN correction(V7.3.0) etc. were made.
ARIB STD-T63-25.171	7.1.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	V7.0.0 of the document was derived from TS25.171(V6.1.0) following decision at RAN#31. This time, all the corresponding changes made in V6.3.0 were incorporated.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.201	7.0.0		R1	Physical layer -General Description	Created from Version 6.2.0 with introduction of 7.68Mcps TDD option.
ARIB STD-T63-25.211	7.0.0		R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Created from Version 6.7.0 with no changes.
ARIB STD-T63-25.212	7.1.0		R1	Multiplexing and channel coding (FDD)	Created from Version 6.7.0. Since then, the corresponding changes in Version 6.8.0 have been made.
ARIB STD-T63-25.213	7.0.0		R1	Spreading and modulation (FDD)	Created from Version 6.5.0 with no changes.
ARIB STD-T63-25.214	7.1.0		R1	Physical layer procedures (FDD)	Created from Version 6.8.0. Since then, the corresponding changes in Version 6.9.0 have been made.
ARIB STD-T63-25.215	7.0.0		R1	Physical layer; Measurements (FDD)	Created from Version 6.4.0 with no changes.
ARIB STD-T63-25.301	7.0.0		R2	Radio Interface Protocol Architecture	- TS25.301 V6.4.0 + 7.68 Mpcs TDD Option
ARIB STD-T63-25.302	7.1.0		R2	Services provided by the physical layer	- 25.302 V6.7.0 + 7.68 Mpcs TDD Option
ARIB STD-T63-25.303	7.0.0		R2	Inter-layer Procedures in Connected Mode	- Same document with TS25.303. V6.3.0
ARIB STD-T63-25.304	7.0.0		R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	- TS25.304 V6.9.0 + 7.68 Mpcs TDD Option-
ARIB STD-T63-25.305	7.3.0		R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	- TS25.305 V6.1.0 + followings; - Addition of the U-TDOA location method to the UTRAN - Enabling the Providing of Velocity - Harmonization with the Stage 3 specification (TS 25.453) and addition of TDD functionality for the U-TDOA positioning method

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					- 7.68 Mcps TDD Option - Introducing A-GNSS in UTRAN - Addition of Periodic Location Procedures
ARIB STD-T63-25.307	7.0.0		R2	Requirements on UE supporting a release-independent frequency band	Same document with TS25.307. V6.3.0
ARIB STD-T63-25.308	7.0.0		R2	UTRA High Speed Downlink Packet Access(HSDPA); Overall description; Stage 2	Same document with TS25.308. V6.3.0
ARIB STD-T63-25.319	7.0.0		R2	Enhanced uplink; Overall description; Stage 2	TS 25.309 V6.6.0 + 3.84 Mcps TDD Enhanced Uplink in UTRA.
ARIB STD-T63-25.321	7.1.0		R2	MAC protocol specification	TS25.321 V6.9.0 + 7.68 Mcps TDD Option
ARIB STD-T63-25.401	7.0.0		R3	UTRAN Overall Description	This document describes the overall architecture of the UTRAN, including internal interfaces and assumptions on the radio and lu interfaces.
ARIB STD-T63-25.402	7.0.0		R3	Synchronisation in UTRAN Stage 2	This document constitutes the stage 2 specification of different synchronisation mechanisms in UTRAN and on Uu.
ARIB STD-T63-25.420	7.0.0		R3	UTRAN Iur Interface: General Aspects and Principles	This document is an introduction to the TSG RAN TS 25.42x series of UMTS Technical Specifications that define the Iur Interface. It is a logical interface for the interconnection of two Radio Network Controller (RNC) components of the UMTS Terrestrial Radio Access Network (UTRAN) for the UMTS system.
ARIB STD-T63-25.421	7.0.0		R3	UTRAN Iur interface Layer 1	This document specifies the standards allowed to implement Layer 1 on the I _{ur} interface.
ARIB STD-T63-25.422	7.0.0		R3	UTRAN Iur interface signalling transport	This document specifies the standards for Signalling Transport to be used across Iur Interface.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.423	7.1.0		R3	UTRAN Iur interface RNSAP signalling	This document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode.
ARIB STD-T63-25.424	7.0.0		R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	This document shall provide a specification of the UTRAN RNC-RNC (Iur) interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.425	7.1.0		R3	UTRAN Iur interface user plane protocols for CCH data streams	This document shall provide a description of the UTRAN RNS-RNS (Iur) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.426	7.1.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	This document specifies the transport bearers for the DCH data streams on UTRAN Iur and Iub interfaces.
ARIB STD-T63-25.427	7.1.0		R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	This document shall provide a description of the UTRAN Iur and Iub interfaces user plane protocols for Dedicated Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.430	7.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	This document is an introduction to the TSG RAN TS 25.43x series of UMTS Technical Specifications that define the Iub Interface.
ARIB STD-T63-25.431	7.0.0		R3	UTRAN Iub interface Layer 1	This document specifies the standards allowed to implement Layer 1 on the I _{ub} interface.
ARIB STD-T63-25.432	7.0.0		R3	UTRAN Iub interface signalling transport	This document specifies the signalling transport related to NBAP signalling to be used across the Iub Interface.
ARIB STD-T63-25.433	7.1.0		R3	UTRAN Iub interface NBAP signalling	This document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.434	7.0.0		R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	This document provides a specification of the UTRAN RNC-Node B (Iub) interface Data Transport and Transport Signalling for Common Transport Channel data streams.
ARIB STD-T63-25.435	7.1.0		R3	UTRAN Iub interface user plane protocols for CCH data streams	This document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.442	7.0.0		R3	UTRAN Implementation Specific O&M Transport	This document specifies the transport of implementation specific O&M signalling between Node B and the Management Platform in case that the transport is routed via the RNC.
ARIB STD-T63-25.450	7.0.0		R3	UTRAN Iupc interface general aspects and principles	This document is an introduction to the TSG RAN TS 25.45z series of UMTS Technical Specifications that define the Iupc Interface.
ARIB STD-T63-25.451	7.0.0		R3	UTRAN Iupc interface layer1	This document specifies the standards allowed to implement Layer 1 on the Iupc interface.
ARIB STD-T63-25.452	7.0.0		R3	UTRAN Iupc interface signalling transport	This document specifies the signalling transport related to PCAP signalling to be used across the Iupc interface.
ARIB STD-T63-25.453	7.3.0		R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	This document specifies the <i>Positioning Calculation Application Part (PCAP)</i> between the Radio Network Controller (RNC) and the Stand-Alone SMLC (SAS).
ARIB STD-T63-26.102	7.1.0		S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Supplement of 20 ms packetisation time for PCM coded speech over IP Nb is done.
ARIB STD-T63-26.141	7.1.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Addition of a reference to TR 26.936 is done.
ARIB STD-T63-26.235	7.1.0		S4	Packet switched conversational multimedia application; Default codecs	Update of a RFC on real time text is done.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.236	7.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	Update of a RFC on real time text and DSR codec is done.
ARIB STD-T63-26.244	7.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Support for ID3v2 in 3GP files is done.
ARIB STD-T63-26.346	7.0.0		S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Scalable MBMS multicast session joining and leaving, modification of MBMS User Service procedures to enable unicast bearer usage and modification of MBMS User Service architecture to enable unicast bearer usage are done.
ARIB STD-T63-26.401	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	Modification of written specification: Change of encoder bitrate border for Parametric Stereo usage is done.
ARIB STD-T63-26.403	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	Modification of written specification: Change of encoder bitrate border for Parametric Stereo usage is done.
ARIB STD-T63-27.005	7.0.0		C1	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	- Generation of Version 7.0.0 based on version 6.0.1 - Correction to <vp> and <fo> in examples
ARIB STD-T63-27.007	7.1.0		C1	AT command set for 3G User Equipment (UE)	- Generation of Version 7.0.0 based on version 6.8.0 - QoS additions for the AT commands +CGEQREQ and +CGEQMIN - Access technology added to AT commands +CREG and +CGREG - Enhancement of parameter CI in AT commands +CREG and +CGREG

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.102	7.5.0		C6	Characteristics of the USIM Application	- Creation of Rel-7 version based on v6.9.0 - Correction to overcome IMSI number space limitation – inclusion of EHPLMN - ISO/IEC 7816-series revision - Essential correction of the phonebook (access to mapped filed & "hidden key" coding) - Added EF_ARR under DF_TELECOM - Modifications regarding WLAN - Alignment of MBMS procedures with TS 33.246 - Number of stored MSKs - Essential correction of phonebook support - Corrections to eMLPP and AAeM - Correction to EF-HPLMN - Clarification on ADM access condition - Editorial corrections - Clarifications in DF_PHONEBOOK level - NAF Id alignment with TS 33.246 - Addition of mandatory UST services id references for VGCS/VBS security context definition - Change to allow PNN segmentation of the HPLMN and EHPLMN support - Indication of services in the USIM - Correction of service numbers associated to the UST - Padding of VSTK_RANDOM - Completion of implementation of C6-060184

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					- USAT related procedures - Additional Terminal Profile - VService_Id coding examples
ARIB STD-T63-31.103	7.0.0		C6	Characteristics of the ISIM Application	- Creation of Rel-7 version based on v6.10.0 - Update of the table summarizing the tags defined in 31.103
ARIB STD-T63-31.111	7.4.0		C6	USIM Application Toolkit (USAT)	- Creation of Rel-7 version based on v6.5.0 - Clarification on the coding of the DCS field for USSD data download - Transfer MMS commands to SCP - Missing data objects concerning Frames - Correction of the length of Bearer parameters for UTRAN Packet Service - Extension of BIP bearers with I-WLAN - Corrections to align TS 31.111 with ETSI TS 102 223 and ETSI TS 101 220 - Introduction of HSDPA in BIP - Editorial corrections - Alignment with SCP specifications - Correction on "USIM Service table" in data SMS-PP download - Incorrect Service Table referenced
ARIB STD-T63-31.115	7.0.0		C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	- Creation of Rel-7 version based on v6.4.0 - Introduction of secured data download for USSD - additional rapporteur: Florence Martin.CP-27: change of WG as a result of closure of CN and T. .

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.130	7.2.1		C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card	- Generation of Version 7.0.0 based on version 6.2.0 - Allow passing of specified status words through the (U)SAT Framework - Align paragraph numbering between 31.130 and TS 102 241 - Delete version and author info from the Java source code - Addition of new events EVENT_FORMATTED_USSD and EVENT_UNFORMATTED_USSD - Adding missing constant values - Adds missing attachment files and adds line to table in annex C - CP-27: change of WG as a result of closure of CN and T.
ARIB STD-T63-33.102	7.0.0		S3	3G security; Security architecture	- This specification defines the security architecture, i.e., the security features and the security mechanisms, for the third generation mobile telecommunication system. - A security feature is a service capability that meets one or several security requirements. The complete set of security features address the security requirements as they are defined in "3G Security: Threats and Requirements" (TS 21.133 [1]) and implement the security objectives and principles described in TS 33.120 [2]. A security mechanism is an element that is used to realise a security feature. All security features and security mechanisms taken together form the security architecture. - An example of a security feature is user data confidentiality. A security mechanism that may be used to implement that feature is a stream cipher using a derived cipher key. - This specification defines 3G security procedures performed within 3G capable networks (R99+), i.e. intra-

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					UMTS and UMTS-GSM. As an example, UMTS authentication is applicable to UMTS radio access as well as GSM radio access provided that the serving network node and the MS are UMTS capable. Interoperability with non-UMTS capable networks (R98-) is also covered.
ARIB STD-T63-33.106	7.0.1		S3	Lawful interception requirements	- This document describes in general the requirements for lawful interception. - Laws of individual nations and regional institutions (e.g. European Union), and sometimes licensing and operating conditions define a need to intercept telecommunications traffic and related information in modern telecommunications systems. It has to be noted that lawful interception shall always be done in accordance with the applicable national or regional laws and technical regulations.
ARIB STD-T63-33.107	7.3.0		S3	3G security; Lawful interception architecture and functions	This document describes in general the architecture and functions for lawful interception. Laws of individual nations and regional institutions (e.g. European Union), and sometimes licensing and operating conditions define a need to intercept telecommunications traffic and related information in modern telecommunications systems. It has to be noted that lawful interception shall always be done in accordance with the applicable national or regional laws and technical regulations.
ARIB STD-T63-33.108	7.5.0		S3	3G security; Handover interface for Lawful Interception (LI)	- This document addresses the handover interfaces for lawful interception of Packet-Data Services, Circuit Switched Services, and Multimedia Services within the Universal Mobile Telecommunication System (UMTS). The specification defines the handover interfaces for delivery of lawful interception Intercept Related Information (IRI) and Content of Communication (CC) to the Law Enforcement Monitoring Facility. - Laws of individual nations and regional institutions (e.g.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					European Union), and sometimes licensing and operating conditions define a need to intercept telecommunications traffic and related information in modern telecommunications systems. It has to be noted that lawful interception shall always be done in accordance with the applicable national or regional laws and technical regulations. Nothing in this specification, including the definitions, is intended to supplant national law. - This specification should be used in conjunction with 3GPP TS 33.106 [18] and TS 33.107 [19] in the same release. This specification may also be used with earlier releases of 33.106 and 33.107, as well as for earlier releases of UMTS and GPRS.
ARIB STD-T63-33.141	7.1.0		S3	Presence service; Security	- This technical specification gives an overview of the security architecture and defines the security features and security mechanisms for the presence services. - Presence services enable the dissemination of presence information of a user to other users or services. A presence entity or presentity comprises the user, user's devices, services and service components. It is the intention that this platform will enable new services like e.g. enhancement to chat, multimedia messaging, cinema ticket information, the score of a football game and so on. - A user has the possibility to control if her or his information is made available to other users or services. This control is possible to achieve with high granularity e.g. explicitly define which user or users and services have access to presence information. - A presentity is a uniquely identifiable entity with the capability to provide the presence information and it has only one principal associated with it. Hence a principal is distinct from all other principals and can be e.g. a human, organisation, program or even a collection thereof. One

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					example of such a relation is when the presentity is a terminal and the principal of the terminal is the subscriber. However, the presence service is based on Public Identities, and consequently it is possible to have several terminals related to the same presentity. A watcher is also a uniquely identifiable entity but with the aim to fetch or request information about a presentity. There are access rules that set the rules for how presence information gets available to watchers. - Presence information consists of a number of elements or presence tuples as defined in TS 23.141 [3]
ARIB STD-T63-33.203	7.2.0		S3	3G security; Access security for IP-based services	- The scope for this technical specification is to specify the security features and mechanisms for secure access to the IM subsystem (IMS) for the 3G mobile telecommunication system. - Since the scope also encompasses the use of these security features and mechanisms for secure access to IMS in the context of fixed broadband networks, Annex L specifies how the material in the main body and other normative Annexes of this document apply to the fixed broadband networks. - The IMS in UMTS will support IP Multimedia applications such as video, audio and multimedia conferences. 3GPP has chosen SIP, Session Initiation Protocol, as the signalling protocol for creating and terminating Multimedia sessions, cf. RFC 3261 [6]. This specification only deals with how the SIP signalling is protected between the subscriber and the IMS, how the subscriber is authenticated and how the subscriber authenticates the IMS.
ARIB STD-T63-33.210	7.0.0		S3	3G security; Network Domain Security (NDS); IP network layer security	The present document defines the security architecture for network domain IP based control planes, which shall be applied to NDS/IP-networks (i.e. 3GPP and fixed

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
					broadband networks). The scope of network domain control plane security is to cover the control signalling on selected interfaces between network elements of NDS/IP networks.
ARIB STD-T63-33.220	7.4.0		S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- The present document describes the security features and a mechanism to bootstrap authentication and key agreement for application security from the 3GPP AKA mechanism. Candidate applications to use this bootstrapping mechanism include but are not restricted to subscriber certificate distribution TS 33.221 [5]. Subscriber certificates support services whose provision mobile operator assists, as well as services that mobile operator provides. - The scope of this specification includes a generic AKA bootstrapping function, an architecture overview and the detailed procedure how to bootstrap the credential.
ARIB STD-T63-33.222	7.1.0		S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	The present document specifies secure access methods to Network Application Functions (NAF) using HTTP over TLS in the Generic Authentication Architecture (GAA), and provides Stage 2 security requirements, principles and procedures for the access. The present document describes both direct access to an Application Server (AS) and access to an Application Server through an Authentication Proxy (AP).
ARIB STD-T63-33.234	7.1.0		S3	3G security; Wireless Local Area Network (WLAN) interworking security	- The present document specifies the security architecture; trust model and security requirements for the interworking of the 3GPP System and WLAN Access Networks. - Specifications of the appropriate mechanisms for user and network authentication, key management, service authorization, confidentiality and integrity protection of user and signalling data are also provided.
ARIB STD-T63-33.246	7.0.0		S3	3G Security; Security of Multimedia	The Technical Specification covers the security procedures of the Multimedia Broadcast/Multicast Service (MBMS) for

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
				Broadcast/Multicast Service (MBMS)	3GPP systems (UTRAN and GERAN). MBMS is a 3GPP system network bearer service over which many different applications could be carried. The actual method of protection may vary depending on the type of MBMS application.
ARIB STD-T63-33.310	7.0.0		S3	Network domain security; Authentication framework (NDS/AF)	The scope of this Technical Specification is limited to authentication of network elements, which are using NDS/IP, and located in the inter-operator domain. This means that this Specification concentrates on authentication of Security Gateways (SEG), and the corresponding Za-interfaces. Authentication of elements in the intra-operator domain is considered as an internal issue for operators. This is quite much in line with [1] which states that only Za is mandatory, and that the security domain operator can decide if the Zb-interface is deployed or not, as the Zb-interface is optional for implementation. However, NDS/AF can easily be adapted to the intra-operator use since it is just a simplification of the inter-operator case when all NDS/IP NEs and the PKI infrastructure belong to the same operator. Validity of certificates may be restricted to the operator's domain.
ARIB STD-T63-34.121-1	7.1.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	Newly introduced as version 7.
ARIB STD-T63-34.121-2	7.1.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Newly introduced as version 7.
ARIB STD-T63-34.124	7.4.0		R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	V7.0.0 of the document was derived from TS34.124(V6.0.0). Since then, all the corresponding changes in the previous releases have been incorporated. Further, introduction of UMTS1700 requirements(V7.2.0) etc. were made.

Added Standard Number	Version at ARIB STD-T63 Ver.5.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-35.215	7.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	The present document specifies the 3GPP confidentiality and integrity algorithms known as UEA2 and UIA2.
ARIB STD-T63-35.216	7.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	The present document specifies the core algorithm SNOW 3G used in the 3GPP confidentiality and integrity algorithms known as UEA2 and UIA2.
ARIB STD-T63-35.217	7.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	The present document provides the test data of the 3GPP confidentiality and integrity algorithms known as UEA2 and UIA2 for implementations.
ARIB STD-T63-35.218	7.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	The present document provides the design conformance test data of the 3GPP confidentiality and integrity algorithms known as UEA2 and UIA2.

1. Release 99

1.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.102	3.13.0		R4	UE Radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of the TDD mode of UTRA for the User Equipment (UE). In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band was additionally established. - Out of band blocking for 3.84 Mcps TDD UE operating in 2010-2025 MHz of band (a) in Japan was also established.
ARIB STD-T63-25.105	3.14.0		R4	Base Station (BS) radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of the TDD mode of UTRA for the Base Station (BS). In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band on the deployment of UTRA TDD in Japan was also specified.
ARIB STD-T63-25.123	3.14.0		R4	Requirements for support of radio resource management (TDD)	This document specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamic behaviour and interaction, in terms of delay and response characteristics.
ARIB STD-T63-25.142	3.14.0		R4	Base station conformance testing (TDD)	This document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
					Stations (BS) operating in the TDD mode. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally specified. - Frequency band on the deployment of UTRA TDD in Japan was also specified.
ARIB STD-T63-25.221	3.11.0		R1	Physical channels and mapping of transport channels onto physical channels (TDD)	This document describes the characteristics of the physicals channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.
ARIB STD-T63-25.222	3.10.0		R1	Multiplexing and channel coding (TDD)	This document describes multiplexing, channel coding and interleaving for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.223	3.8.0		R1	Spreading and modulation (TDD)	This document describes spreading and modulation for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.224	3.13.0		R1	Physical layer procedures (TDD)	This document describes the Physical Layer Procedures in the TDD mode of UTRA.
ARIB STD-T63-25.225	3.12.0		R1	Physical layer; Measurements (TDD)	This document contains the description and definition of the measurements done at the UE and network in TDD mode in order to support operation in idle mode and connected mode.
ARIB STD-T63-34.122	3.12.0		R5	Terminal conformance specification, Radio transmission and reception (TDD)	This document specifies the measurement procedure for the conformance test of the UE that contain transmitting characteristics, receiving characteristics and performance requirements and requirements for support of RRM in TDD mode. ARIB STD-T63-34.122 Release 5 covers all Release 99 aspects

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	3.7.0	3.6.0	R2	Requirements on UE supporting a release-independent frequency band	Power class for UMTS2600 (VII) internal / 900 (VIII)

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.102	4.8.0		R4	UE Radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the User Equipment (UE). The two options are the 3.84 Mcps and 1.28 Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band was additionally established. - Out of band blocking for 3.84 Mcps TDD UE operating in 2010-2025 MHz of band (a) in Japan was also established.
ARIB STD-T63-25.105	4.9.0		R4	Base Station (BS) radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the Base Station (BS). The two options are the 3.84Mcps and 1.28Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band and applicable option on the deployment of UTRA TDD in Japan were also specified.
ARIB STD-T63-25.123	4.14.0		R4	Requirements for support of radio resource management (TDD)	This document specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamic behaviour and interaction, in terms of delay and response characteristics.
ARIB STD-T63-25.142	4.11.0		R4	Base station conformance testing (TDD)	This document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
					Stations (BS) operating in the TDD mode. The document covers both options of the TDD mode, which are the 3,84 Mcps and the 1,28 Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band and applicable option on the deployment of UTRA TDD in Japan were also specified.
ARIB STD-T63-25.221	4.8.0		R1	Physical channels and mapping of transport channels onto physical channels (TDD)	This document describes the characteristics of the physical channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.
ARIB STD-T63-25.222	4.8.0		R1	Multiplexing and channel coding (TDD)	This document describes multiplexing, channel coding and interleaving for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.223	4.5.0		R1	Spreading and modulation (TDD)	This document describes spreading and modulation for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.224	4.11.0		R1	Physical layer procedures (TDD)	This document describes the Physical Layer Procedures in the TDD mode of UTRA.
ARIB STD-T63-25.225	4.8.0		R1	Physical layer; Measurements (TDD)	This document contains the description and definition of the measurements done at the UE and network in TDD mode in order to support operation in idle mode and connected mode.
ARIB STD-T63-34.122	4.10.0		R5	Terminal conformance specification, Radio transmission and reception (TDD)	This document specifies the measurement procedure for the conformance test of the UE that contain transmitting characteristics, receiving characteristics and performance requirements and requirements for support of RRM in both UTRA TDD modes. The two options are the 3,84 Mcps TDD Option and 1,28 Mcps TDD Option, respectively. ARIB STD-T63-34.122 Release 5 covers all Release 4 aspects

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	4.7.0	4.6.0	R2	Requirements on UE supporting a release-independent frequency band	Power class for UMTS2600 (VII) internal / 900 (VIII)

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.102	5.9.0		R4	UE Radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the User Equipment (UE). The two options are the 3.84 Mcps and 1.28 Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band was additionally established. - Out of band blocking for 3.84 Mcps TDD UE operating in 2010-2025 MHz of band (a) in Japan was also established.
ARIB STD-T63-25.105	5.7.0		R4	Base Station (BS) radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the Base Station (BS). The two options are the 3.84Mcps and 1.28Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were also specified.
ARIB STD-T63-25.123	5.11.0		R4	Requirements for support of radio resource management (TDD)	This document specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamic behaviour and interaction, in terms of delay and response characteristics.
ARIB STD-T63-25.142	5.9.0		R4	Base station conformance testing (TDD)	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
					Base Stations (BS) operating in the TDD mode. The document covers both options of the TDD mode, which are the 3,84 Mcps and the 1,28 Mcps options respectively. In order to align with Japanese radio law - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were also specified.
ARIB STD-T63-25.221	5.6.0		R1	Physical channels and mapping of transport channels onto physical channels (TDD)	This document describes the characteristics of the physicals channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.
ARIB STD-T63-25.222	5.7.0		R1	Multiplexing and channel coding (TDD)	This document describes multiplexing, channel coding and interleaving for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.223	5.3.0		R1	Spreading and modulation (TDD)	This document describes spreading and modulation for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.224	5.9.0		R1	Physical layer procedures (TDD)	This document describes the Physical Layer Procedures in the TDD mode of UTRA.
ARIB STD-T63-25.225	5.7.0		R1	Physical layer; Measurements (TDD)	This document contains the description and definition of the measurements done at the UE and network in TDD mode in order to support operation in idle mode and connected mode.
ARIB STD-T63-34.122	5.5.0		R5	Terminal conformance specification, Radio transmission and reception (TDD)	This present document specifies the measurement procedure for the conformance test of the UE that contain transmitting characteristics, receiving characteristics and performance requirements and requirements for support of RRM in both UTRA TDD modes. The two options are the 3,84 Mcps TDD Option and 1,28 Mcps TDD Option, respectively. Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band was additionally specified in order

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
					to align with Japanese radio law.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	5.6.0	5.5.0	R2	Requirements on UE supporting a release-independent frequency band	Power class for UMTS2600 (VII) internal / 900 (VIII)
ARIB STD-T63-25.433	5.16.0	5.15.0	R3	UTRAN Iub interface NBAP signalling	TFCI2 bearer Cleanup for Radio link Deletion
ARIB STD-T63-25.435	5.9.0	5.8.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Leftover from FDD DSCH
ARIB STD-T63-33.203	5.11.0	5.10.0	S3	3G security; Access security for IP-based services	Check for duplicate (IP address, port) pairs also in re-registrations
ARIB STD-T63-34.123-3	5.6.0	5.5.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites	Many corrections and additions. Moving baseline to the June 06, Rel-6.(Move to 6.0.0)
ARIB STD-T63-34.229-1	5.1.0	5.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	Some corrections. New TCs are also introduced
ARIB STD-T63-34.229-2	5.1.0	5.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);	2 CRs are applied: - Applicability for new P-CSCF Discovery List test cases

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
				Part 2: Implementation Conformance Statement (ICS) specification	- Update applicability table for IMSCC test

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.102	6.5.0		R4	UE Radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the User Equipment (UE). The two options are the 3.84 Mcps and 1.28 Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps TDD UE into PHS band was additionally established. - Out of band blocking for 3.84 Mcps TDD UE operating in 2010-2025 MHz of band (a) in Japan was also established.
ARIB STD-T63-25.105	6.3.0		R4	Base Station (BS) radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of both options of the TDD mode of UTRA for the Base Station (BS). The two options are the 3.84Mcps and 1.28Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were specified. Tx and Rx Spurious Emission from 3.84 Mcps TDD BS into FDD bands in Japan was also established.
ARIB STD-T63-25.123	6.8.0		R4	Requirements for support of radio resource management (TDD)	This document specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamic behaviour and interaction, in terms of delay and response characteristics.

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.142	6.5.0		R4	Base station conformance testing (TDD)	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the TDD mode. The document covers both options of the TDD mode, which are the 3.84 Mcps and the 1.28 Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were specified. Tx and Rx Spurious Emission from 3.84 Mcps TDD BS into FDD bands in Japan was also established.
ARIB STD-T63-25.221	6.5.0		R1	Physical channels and mapping of transport channels onto physical channels (TDD)	This document describes the characteristics of the physicals channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.
ARIB STD-T63-25.222	6.2.0		R1	Multiplexing and channel coding (TDD)	This document describes multiplexing, channel coding and interleaving for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.223	6.1.0		R1	Spreading and modulation (TDD)	This document describes spreading and modulation for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.224	6.6.1		R1	Physical layer procedures (TDD)	This document describes the Physical Layer Procedures in the TDD mode of UTRA.
ARIB STD-T63-25.225	6.2.0		R1	Physical layer; Measurements (TDD)	This document contains the description and definition of the measurements done at the UE and network in TDD mode in order to support operation in idle mode and connected mode.
ARIB STD-T63-34.123-3	6.0.0		R5	UE conformance specification; Part 3: Abstract test suites (ATSS)	Many corrections and additions. Moving from 5.6.0

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	6.8.1	6.7.0	C1	Technical realisation of Short Message Service(SMS)	- Max user data length in GSM 7bit concatenated uncompressed message with 16 bit reference number. - Adds compression test vectors file (identical to those of v6.6.0).
ARIB STD-T63-23.228	6.15.0	6.14.0	S2	IP Multimedia Subsystem (IMS); Stage 2	SP-060569 CR607 Correct Figure 5.50 steps 3 and 4 to indicates that the S-CSCF merely forwards the request onto the IMS-ALG and the IMS-ALG talks to the TrGW to get the IPv4 addr/port information. Correct the text following the Figure pertaining to steps 3 and 4 in the diagram.
ARIB STD-T63-25.101	6.13.0	6.12.0	R4	User Equipment (UE) radio transmission and reception (FDD)	Peak code domain error requirement for E-DCH is corrected.
ARIB STD-T63-25.133	6.15.0	6.14.0	R4	Requirements for support of radio resource management (FDD)	Test cases for E-TFC restriction, test cases for UE power headroom, definition of PMaxj in E-TFC selection and definition of the first path are corrected. MBMS RRM test cases are modified to use SDU error rate.
ARIB STD-T63-25.141	6.15.0	6.14.0	R4	Base station conformance testing (FDD)	EUL test setup is corrected.
ARIB STD-T63-25.212	6.9.0	6.8.0	R1	Multiplexing and channel coding (FDD)	Correct E-DCH HARQ rate matching for compressed mode.
ARIB STD-T63-25.214	6.10.0	6.9.0	R1	Physical layer procedures (FDD)	Clarify E-DPDCH gain factor.
ARIB STD-T63-25.302	6.8.0	6.7.0	R2	Services provided by the physical layer	RGCH requirement in physical channel combinations
ARIB STD-T63-25.306	6.9.0	6.8.0	R2	UE Radio Access capabilities	Introduction of SIB 11bis

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	6.4.0	6.3.0	R2	Requirements on UE supporting a release-independent frequency band	Power class for UMTS2600 (VII) internal / 900 (VIII)
ARIB STD-T63-25.321	6.10.0	6.9.0	R2	MAC protocol specification	- Maximum number of transmissions - HLBS values in Scheduling Information message - MAC-hs reset
ARIB STD-T63-25.401	6.8.0	6.7.0	R3	UTRAN Overall Description	MBMS Transport Identifiers: Description for Transport Network Identifiers for MBMS and Binding Identifiers is added
ARIB STD-T63-25.402	6.4.0	6.3.0	R3	Synchronisation in UTRAN Stage 2	Correction of CFN for MBMS: Correction to the Figure where the CFN value was not correct
ARIB STD-T63-25.423	6.11.0	6.10.0	R3	UTRAN Iur interface RNSAP signalling	- Correction on the value range of E-DCH IEs - Presence of "E-DCH FDD Information Response" IE - E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages - DCH combined when EDCH operation - Correction of maxNrOfMACdFlows for EDCH in ASN.1 - Use of the RL Specific E-DCH Information IE for E-DCH modification - Optional usage of the E-DCH Reference Power Offset IE - MAC-HS reset Indicator alignment for the Radio Link Addition Response - E-DCH not optional in RNSAP message RL SETUP RESPONSE - Further Abnormal Conditions for E-DCH - Correction for RL Reconfiguration - Correction on the value range of E-DCH IEs

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- Introduction of new indicator for non DCH operation
ARIB STD-T63-25.433	6.11.0	6.10.0	R3	UTRAN Iub interface NBAP signalling	- Modifying HS-DSCH Physical Layer Category Info in Radio Link Reconfiguration procedure - Addition of the TPC step size for HS-SICH in 1.28Mcps TDD - Correction on the value range of E-DCH IEs - Corrections on physical shared channel reconfiguration - E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages - DCH combined when EDCH operation - Alignment of the RL Specific E-DCH Information IE tabular format to ASN.1 - Optional usage of the E-DCH Reference Power Offset IE - Clarification on Communication Context ID usage for the Reset Request - TFCI2 bearer Cleanup for Radio link Deletion - Per time slot configuration of TFCI for TDD FACH type CCTrCHs - Further Abnormal Conditions for E-DCH - General Description for E-DCH in RL Setup procedure - Introduction of new indicator for non DCH operation - Introduction of SIB11bis
ARIB STD-T63-25.435	6.4.0	6.3.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Removal of leftover from FDD DSCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-26.234	6.9.0	6.8.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Correction to unit discrepancy in GBW and MBW parameters of 3GPP-Link-Char header and other essential clarifications is done. Further, correction of references in PSS is done.
ARIB STD-T63-26.246	6.1.0	6.0.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	SMIL timing modules and to the references are fixed.
ARIB STD-T63-26.346	6.6.0	6.5.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Editorial Improvements and a correction of the MBMS FEC are carried out.
ARIB STD-T63-26.410	6.7.0	6.6.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction of written specification: correct memory tables (floating-point code) is done.
ARIB STD-T63-26.411	6.4.0	6.3.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Correction of written specification: correct memory tables (fixed-point code) is done.
ARIB STD-T63-28.062	6.3.0	6.2.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	AMR attributes in TFO_REQ_L is corrected and AMR-WB related erroneous text is removed.
ARIB STD-T63-31.102	6.15.0	6.14.0	C6	Characteristics of the USIM Application	- Essential correction of the authenticate command in order to process message longer than 255 bytes.
ARIB STD-T63-31.103	6.11.0	6.10.0	C6	Characteristics of the ISIM Application	- Correction of ISIM Service Table - Coding of P2
ARIB STD-T63-31.111	6.9.0	6.8.0	C6	USIM Application Toolkit (USAT)	- UTRAN NMR encoding and Local Information clarifications
ARIB STD-T63-31.121	6.5.0	6.4.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	CR against 31.121

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-31.122	6.2.0	6.1.0	C6	USIM conformance test specification	- Updates based on changes to 31.102 - Updates to Protocol Tests - Updates to Physical characteristics tests - Addition of tests for current file after application session termination - Addition of tests for TS 31.101 - Removal of Test Groups - Refinement of tests for shareable files
ARIB STD-T63-31.124	6.6.0	6.5.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential corrections to SEND SS display tests concerning longForwardedToNumber - Proposal to the TS 31.124 Split by referencing the relevant USAT Test procedures to TS 102 384 - Correction of RECEIVE DATA tests - Correction of various typographical errors - Correction of 2nd alpha identifier usages in SET UP CALL tests - Essential correction of IMEISV coding for Provide Local Information - Essential corrections to REFRESH(normal) test sequences - Essential corrections on PROVIDE LOCAL INFORMATION test sequences - Essential corrections of text attribute tests for Send USSD and Close channel - Essential corrections of applicability table - Essential correction of BIP test cases

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- Essential corrections on test sequences using the TLV data object Location Information - Wrong reference inside test requirement of TC 27.22.7.2.2 - Correction of terminology for USIM Service Table - Essential correction of RUN AT Command for text attribute tests - Essential corrections Set Up Call, seq. 1.9
ARIB STD-T63-33.203	6.10.0	6.9.0	S3	3G security; Access security for IP-based services	- Correction of SIP Privacy reference errors - Check for duplicate (IP address, port) pairs also in re-registrations
ARIB STD-T63-33.210	6.6.0	6.5.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Clarifying the use of RFC3554
ARIB STD-T63-33.220	6.10.0	6.9.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Sending FQDN over Zn - Correction to the UICC selection procedure in GBA
ARIB STD-T63-33.246	6.8.0	6.7.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Correcting http syntax of key management procedures - Removing TAG and MKI length from Service Announcement
ARIB STD-T63-34.108	6.4.0	6.3.0	R5	Common test environments for User Equipment (UE) conformance testing	Corrections. New test RABs are introduced for HSDPA
ARIB STD-T63-34.109	6.2.0	6.1.0	R2	Terminal logical test interface; Special conformance testing functions	Introduction of UE test loop mode 3 (SDU counters) to support MTCH performance testing
ARIB STD-T63-34.123-1	6.4.0	6.3.0	R5	UE conformance specification;Part 1: Protocol conformance specification	Many corrections. New testcases for HSPA are introduced

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-2	6.4.0	6.3.0	R5	UE conformance specification;Part 2: ICS proforma specification	Modifications related to TS34.123-3 changes
ARIB STD-T63-34.171	6.5.0	6.4.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	3 CRs are applied: - Implementation change for Moving Scenario and Periodic Update Performance Test - Test procedure change to A-GPS Minimum Performance TTFF test cases - Change to UE Simulated Altitude

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.111	7.0.0		C6	USIM and IC card requirements	Review of TS 21.111, USIM and IC Card Requirements; Rel-6
ARIB STD-T63-23.203	7.0.0		S2	Policy and charging control architecture	The document specifies the overall stage 2 level functionality for Policy and Charging Control that encompasses the following high level functions for IP-CANs (e.g. GPRS, I-WLAN, Fixed Broadband, etc.): - Flow Based Charging, including charging control and online credit control; - Policy control (e.g. gating control, QoS control, etc.).
ARIB STD-T63-23.204	7.0.0		S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	It shall be possible to support the delivery of SMS over WLAN and other IP Connectivity Access Networks (IP-CANs). When a user accesses SMS services over a generic IP-CAN: - appropriate security mechanisms shall be supported; - a registration and de-registration mechanism shall be supported; - existing services that use SMS service functionality shall not be degraded.
ARIB STD-T63-23.206	7.0.0		S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	The document specifies the functional architecture and information flows of the Voice Call Continuity feature which provides the capability to transfer the path of a voice call between a 3GPP CS system (GSM/UMTS) and IMS, and vice versa.

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.102	7.4.0		R4	UE Radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of three options of the TDD mode of UTRA for the User Equipment (UE). The three options are the 3.84 Mcps, the 1.28 Mcps and the 7.68Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps and 7.68 MCps TDD UE into PHS band was additionally established. - Out of band blocking for 3.84 Mcps and 7.68 MCps TDD UE operating in 2010-2025 MHz of band (a) in Japan was also established.
ARIB STD-T63-25.105	7.3.0		R4	Base Station (BS) radio transmission and reception (TDD)	This document establishes the minimum RF characteristics of three options of the TDD mode of UTRA for the Base Station (BS). The three options are the 3.84 Mcps, the 1.28 Mcps and the 7.68Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps and 7.68Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were specified. - Tx and Rx Spurious Emission from 3.84 Mcps and 7.68Mcps TDD BS into FDD bands in Japan was also established.
ARIB STD-T63-25.123	7.2.0		R4	Requirements for support of radio resource management (TDD)	This document specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamic behaviour

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
					and interaction, in terms of delay and response characteristics.
ARIB STD-T63-25.142	7.3.0		R4	Base station conformance testing (TDD)	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the TDD mode. The document covers three options of the TDD mode, which are the 3.84 Mcps, the 1.28Mcps and the 7.68 Mcps options respectively. In order to align with Japanese radio law, - Clarification of Tx spurious emission level from 3.84 Mcps and 7.68Mcps TDD BS into PHS band was additionally established. - Frequency band, applicable option and BS class on the deployment of UTRA TDD in Japan were specified. - Tx and Rx Spurious Emission from 3.84 Mcps and 7.68Mcps TDD BS into FDD bands in Japan was also established
ARIB STD-T63-25.221	7.1.0		R1	Physical channels and mapping of transport channels onto physical channels (TDD)	This document describes the characteristics of the physicals channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.
ARIB STD-T63-25.222	7.1.0		R1	Multiplexing and channel coding (TDD)	This document describes multiplexing, channel coding and interleaving for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.223	7.2.0		R1	Spreading and modulation (TDD)	This document describes spreading and modulation for UTRA Physical Layer TDD mode.
ARIB STD-T63-25.224	7.1.0		R1	Physical layer procedures (TDD)	This document describes the Physical Layer Procedures in the TDD mode of UTRA.

Added Standard Number	Version at ARIB STD-T63 Ver.6.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.225	7.2.0		R1	Physical layer; Measurements (TDD)	This document contains the description and definition of the measurements done at the UE and network in TDD mode in order to support operation in idle mode and connected mode.
ARIB STD-T63-25.306	7.1.0		R2	UE Radio Access capabilities	- Introduction of SIB 11bis - Introduction of 3.84 Mcps and 7.68 McpsTDD E-DCH
ARIB STD-T63-26.140	7.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	Editorial correction of references is done.
ARIB STD-T63-26.171	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	Editorial correction of references is done.
ARIB STD-T63-26.234	7.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Size of audioMuxElements is restricted.
ARIB STD-T63-26.410	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Modification of C-code: Change of encoder bitrate border for Parametric Stereo usage (floating-point code) is done.
ARIB STD-T63-26.411	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Modification of C-code: Change of encoder bitrate border for Parametric Stereo usage (fixed-point code) is done.
ARIB STD-T63-34.109	7.0.0		R2	Terminal logical test interface; Special conformance testing functions	NEW

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	7.7.0	7.6.0	S1	Service aspects; Service principles	The support of emergency calls is clarified considering if the ISIM is present or not. A link to the IETF group working on the global IMS emergency call identifier is added for information. It is clarified that the Home operator policy should be used for domain selection
ARIB STD-T63-22.146	7.2.0	7.1.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Availability requirements on MBMS have been clarified, adding a phrase "If provided by the network ..." and similar.
ARIB STD-T63-22.228	7.5.0	7.4.0	S1	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	Editorial corrections as shown in accordance with A32-12.
ARIB STD-T63-22.259	7.2.0	7.1.0	S1	Service requirements for Personal Network Management (PNM); Stage 1	The following has been added: - Requirements for provisioning of PNM via admin procedures. - Registration of UEs to a PN via admin procedures. - Registration of a UE only to one PN at a time. - Interrogation of PN settings is clarified.
ARIB STD-T63-23.228	7.5.0	7.4.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Corrects Figure 5.50 steps 3 and 4 to indicates that the S-CSCF merely forwards the request onto the IMS-ALG and the IMS-ALG talks to the TrGW to get the IPv4 addr/port information. Correct the text following the Figure pertaining to steps 3 and 4 in the diagram. Adds the necessary stage 2 specification for definition of GRUU. Summary of changes are: - Section 2 – GRUU reference has been added. - Section 3.1 – Definition for Instance ID has been added - Section 3.3 – Abbreviations added

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- Section 4.3.3.2.a – New Section for GRUU - Section 4.3.3.5 – New section for relationships between Public User ID's, GRUUs and UE's - Section 4.6.3 – Addition of GRUU functionality to Serving CSCF - Section 5.2.1 – Addition of Requirements considered for registration Adds the necessary stage 2 specification for the assignment of a GRUUs. These changes are summarized below: - Section 5.2.2.3 – Addition of GRUU into registration request and response - Section 5.2.2.4 - of GRUU into re-registration request and response - Section 5.2.2.5 – Addition of GRUU to stored information. Adds the necessary stage 2 specification for use, and processing of GRUUs.. These changes are summarized below: - Section 5.11.6.1 – Addition of GRUU to transfer operation. Adds the necessary stage 2 specification for the assignment, use, and processing of GRUUs. These changes are summarized below: - Addition of a brand new section on Procedures for assigning, using and processing GRUUs. Includes the functionality for UE, S-CSCF and I-CSCF. Covers topics for obtaining and using. - Adding text into Annex F for GRUU - Adds the necessary stage 2 specification for the

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					assignment, use, and processing of GRUUs by UAs and B2BUAs other than UEs. - Addition of new clause 5.20 Adds the necessary stage 2 specification for the assignment of a GRUUs. These changes are summarized below: - Section 4.6.3 – Checking GRUU against received Public User Identity. - Section 5.6.1 – If a GRUU is received, ensures that the received IMPU is in the same service profile as the GRUU. - Section 5.6.2 - If a GRUU is received, ensures that the received IMPU is in the same service profile as the GRUU. ICE and Outbound procedures are added to NAT traversal techniques to support a wide variety of customer premise NATs that are not under the control of the network operator. The change is structured to co-exist with the existing NAT solution in 23.228. The change is flexible such that mobile equipment battery life can be taken into account, although MEs are not required to support these techniques. Adds the necessary stage 2 specification for the optional support of network asserted Display Name in session setup signaling E.164 number processing and BGCF procedures are modified to allow it to perform more general routing of E.164 numbers. In case of AS originating requests, the AS directly contact the

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					S-CSCF only in the case that it has the prior knowledge of the S-CSCF based on Sh-query or 3rd party registration. Otherwise the AS shall send the request to an I-CSCF that performs the S-CSCF selection. The following changes are proposed: - A defintion of local numbers is added. - A clarification is added about the term visited access network and the related editor's not is removed. - It is proposed not to allow the S-CSCF to perform the translation, since it is not a call control task. Therefor the related editor's not is removed. Clarification of the type of NATs for which NAT traversal shall be supported. Adds the necessary stage 2 specification for the optional support of Display Name in session setup signaling
ARIB STD-T63-25.101	7.5.0	7.3.0	R4	UE Radio transmission and reception (FDD)	The overlapped equal signs within subranges in Band VII and VIII in spurious emission requiremnts are corrected. Also corresponding change in the release 6 version (V6.13.0) is made.
ARIB STD-T63-25.113	7.4.0	7.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Transmitter exclusion band for 7.68 Mcps TDD option is added [TDD].
ARIB STD-T63-25.133	7.5.0	7.4.0	R4	Requirements for support of radio resource management (FDD)	Correction of RTWP relative accuracy requirement is made with corresponding changes in the release 6 version (V6.15.0).
ARIB STD-T63-25.141	7.5.0	7.4.0	R4	Base station conformance testing (FDD)	Only corresponding change in the release 6 version (V6.15.0) is made.
ARIB STD-T63-25.201	7.1.0	7.0.0	R1	Physical layer -General Description	Introduce E-DCH for 3.84 Mcps and 7.68 Mcps TDD.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.212	7.2.0	7.1.0	R1	Multiplexing and channel coding (FDD)	Correct E-DCH HARQ rate matching for compressed mode.
ARIB STD-T63-25.214	7.2.0	7.1.0	R1	Physical layer procedures (FDD)	Clarify E-DPDCH gain factor.
ARIB STD-T63-25.215	7.1.0	7.0.0	R1	Physical layer; Measurements (FDD)	Introduce a Node B measurement 'Received scheduled E-DCH power share (RSEPS)'.
ARIB STD-T63-25.302	7.2.0	7.1.0	R2	Services provided by the physical layer	- Introduction of a Node B measurement for E-DCH RRM - RGCH requirement in physical channel combinations - Introduction of 3.84 and 7.68 Mcps TDD E-DCH
ARIB STD-T63-25.319	7.1.0	7.0.0	R2	Enhanced uplink; Overall description; Stage 2	- Introduction of a Node B measurement for E-DCH RRM - Inconsistent terminology in Enhanced Uplink stage 2 - Introduction of 3.84 Mcps and 7.68 Mcps TDD E-DCH
ARIB STD-T63-25.321	7.2.0	7.1.0	R2	MAC protocol specification	-Maximum number of transmissions - HLBS values in Scheduling Information message - Note on Serving Grant Update with Zero Grant - Introduction of 3.84 Mcps and 7.68 Mcps TDD E-DCH - MAC-hs reset
ARIB STD-T63-25.401	7.1.0	7.0.0	R3	UTRAN Overall Description	- Introduction of for 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink - MBMS Transport Identifiers: Description for Transport Network Identifiers for MBMS and Binding Identifiers is added
ARIB STD-T63-25.402	7.1.0	7.0.0	R3	Synchronisation in UTRAN Stage 2	Correction of CFN for MBMS: Correction to the Figure where the CFN value was not correct
ARIB STD-T63-25.420	7.1.0	7.0.0	R3	UTRAN Iur Interface: General Aspects and Principles	Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink
ARIB STD-T63-25.423	7.2.0	7.1.0	R3	UTRAN Iur interface RNSAP signalling	- Correction on the value range of E-DCH IEs - Presence of "E-DCH FDD Information Response" IE

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages - DCH combined when EDCH operation - Correction of maxNrOfMACdFlows for EDCH in ASN.1 - Use of the RL Specific E-DCH Information IE for E-DCH modification - Optional usage of the E-DCH Reference Power Offset IE - MAC-HS reset Indicator alignment for the Radio Link Addition Response - Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink - E-DCH not optional in RNSAP message RL SETUP RESPONSE - Extended WCDMA Cell Range - Ignore Traffic Class if HS-DSCH or E-DCH MAC-d flow user is SRB (RRC) - Further Abnormal Conditions for E-DCH - Correction for RL Reconfiguration - Correction on the value range of E-DCH les - Introduction of new indicator for non DCH operation - Correction to coding of PLCCH for 1.28Mcps TDD
ARIB STD-T63-25.425	7.2.0	7.1.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Extended WCDMA Cell Range
ARIB STD-T63-25.427	7.2.0	7.1.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.430	7.1.0	7.0.0	R3	UTRAN Iub Interface: General Aspects and Principles	Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink
ARIB STD-T63-25.433	7.2.0	7.1.0	R3	UTRAN Iub interface NBAP signalling	- Introduction of a Node B measurement for E-DCH RRM - Modifying HS-DSCH Physical Layer Category Info in Radio Link Reconfiguration procedure - Addition of the TPC step size for HS-SICH in 1.28Mcps TDD - Correction on the value range of E-DCH IEs - Corrections on physical shared channel reconfiguration - E-AGCH and E-RGCH/E-HICH FDD scrambling code in response messages - DCH combined when EDCH operation - Alignment of the RL Specific E-DCH Information IE tabular format to ASN.1 - Optional usage of the E-DCH Reference Power Offset IE - Clarification on Communication Context ID usage for the Reset Request - TFCI2 bearer Cleanup for Radio link Deletion - Introduction of 3.84 Mcps and 7.68Mcps TDD Enhanced Uplink - Per time slot configuration of TFCI for TDD FACH type CCTrCHs - Extended WCDMA Cell Range - Addition of missing ASN.1 from CR1252 - Further Abnormal Conditions for E-DCH - General Description for E-DCH in RL Setup procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- Introduction of a noise floor indication from Node B for E-DCH RRM - Introduction of new indicator for non DCH operation - Correction to coding of PLCCH for 1.28Mcps TDD - Introduction of SIB11bis
ARIB STD-T63-25.435	7.2.0	7.1.0	R3	UTRAN lub interface user plane protocols for CCH data streams	- Removal of leftover from FDD DSCH - Extended WCDMA Cell Range
ARIB STD-T63-25.453	7.4.0	7.3.0	R3	UTRAN lupc interface Positioning Calculation Application Part (PCAP) signalling	- Addition of Periodic Location Procedures - Extended WCDMA Cell Range
ARIB STD-T63-26.236	7.1.0	7.0.0	S4	Packet switched conversational multimedia applications; Transport protocols	Symmetric RTP and RTCP Port Usage is done.
ARIB STD-T63-26.346	7.1.0	7.0.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Editorial Improvements and a correction of the MBMS FEC is done.
ARIB STD-T63-27.007	7.2.0	7.1.0	C1	AT command set for 3G User Equipment (UE)	Support for UTF-8 in AT-command +CSCS
ARIB STD-T63-31.102	7.6.0	7.5.0	C6	Characteristics of the USIM Application	- Essential correction of the authenticate command in order to process message longer than 255 bytes.
ARIB STD-T63-31.103	7.1.0	7.0.0	C6	Characteristics of the ISIM Application	- Correction of ISIM Service Table - Coding of P2
ARIB STD-T63-31.111	7.5.0	7.4.0	C6	USIM Application Toolkit (USAT)	- CR 31.111: UTRAN NMR encoding and Local Information clarifications
ARIB STD-T63-31.130	7.3.0	7.2.1	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card	- Addition of missing event download I-WLAN access status - Correction of misnamed constant

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.107	7.4.0	7.3.0	S3	3G security; Lawful interception architecture and functions	Editorial Update by rapporteur
ARIB STD-T63-33.108	7.6.0	7.5.0	S3	3G security; Handover interface for Lawful Interception (LI)	TS 33.108 - WLAN Interworking Interception Details (v7.0)
ARIB STD-T63-33.203	7.3.0	7.2.0	S3	3G security; Access security for IP-based services	- Correction of SIP Privacy reference errors - Removal of editor's note - Check for duplicate (IP address, port) pairs also in re-registrations - Removing Confidentiality indication from SM8
ARIB STD-T63-33.210	7.1.0	7.0.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Clarifying the use of RFC3554
ARIB STD-T63-33.220	7.5.0	7.4.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Clarification of notes - Corrections of some incorrect reference - Sending FQDN over Zn - Correction to the UICC selection procedure in GBA
ARIB STD-T63-33.222	7.2.0	7.1.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Clarification of using HTTP digest with HTTPS
ARIB STD-T63-33.234	7.2.0	7.1.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Correction to protocol used in Wx reference point - Corrections and updates of references
ARIB STD-T63-33.246	7.1.0	7.0.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- BM-SC chooses MUK lifetime less than corresponding GBA Key lifetime - Correcting http syntax of key management procedures - Correction of incorrect description of BM-SC

Revised Standard Number	Version at ARIB STD-T63 Ver.6.00	Version at ARIB STD-T63 Ver.5.00	3GPP WG	Title	Change Summary
					- Correction of possible key ID values - Removal of MIKEY internal keys - Removing TAG and MKI length from Service Announcement - Addition of a "2G GBA allowed" flag in MBMS user service announcement
ARIB STD-T63-33.310	7.1.0	7.0.0	S3	Network domain security; Authentication framework (NDS/AF)	- Extending NDS/AF to support TLS - Clarifications and corrections
ARIB STD-T63-34.121-1	7.2.0	7.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	Corrections. New HSUPA testcases are introduced
ARIB STD-T63-34.121-2	7.2.0	7.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	4 CRs are applied: - Correction of applicability for RF test case 6.5 (narrow band blocking requirement) - Addition of applicability for new test cases - New Rel-6 RRM test case: 8.3.8 Serving HS-DSCH cell change - Correction of applicability for RF test case 6.7

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	3.19.0	3.18.0	R4	UE Radio transmission and reception (FDD)	A clarifying text concerning later releases and a note referencing possible regional regulation mandating requirements in later releases is added.
ARIB STD-T63-25.307	3.8.0	3.7.0	R2	Requirement on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz)

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	4.13.0	4.12.0	R4	UE Radio transmission and reception (FDD)	Corresponding change as in Release 99 (V.3.19.0) was made.
ARIB STD-T63-25.123	4.15.0	4.14.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 1.28Mcps TDD option. - Change T1 in table A.8.4.4 to 5s. - Change T2 in table A.8.4.4 to 7s. - Change RXLEV of GSM cell in T1 to –infinity. - Change measurement reporting delay to 5.96s.
ARIB STD-T63-25.307	4.8.0	4.7.0	R2	Requirements on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz)

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	5.20.0	5.19.0	R4	UE Radio transmission and reception (FDD)	- Corresponding change as in Release 99 (V.4.13.0) was made. - The rounding of power to closest integer dB value in HS-DPCCH power setting was clarified as optional.
ARIB STD-T63-25.123	5.12.0	5.11.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 3.84Mcps TDD option. - Add functionality to 8.2.1.30 test, 8.2.4.36 test, 8.2.6.39a test, 8.2.6.39b test, 8.3.1.33 test, 8.3.1.32 test and 8.3.1.33 test. - Add 3.84Mcps TDD HSDPA tests to pro-forma document Following are changed for 1.28Mcps TDD option. - Change T1 in table A.8.4.4 to 5s. - Change T2 in table A.8.4.4 to 7s. - Change RXLEV of GSM cell in T1 to –infinity. - Change measurement reporting delay to 5.96s.
ARIB STD-T63-25.307	5.7.0	5.6.0	R2	Requirements on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz)
ARIB STD-T63-26.173	5.10.0	5.9.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction to bug in ITU-T bitstream format in the presence of frame erasures is carried out.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-34.122	5.6.0	5.5.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	GSM measurement for 1.28Mcps TDD option were modified as followings. - Adding the initial condition, the test procedure and test requirement. - Correction to the timers of test parameter table - Correction to the test requirement
ARIB STD-T63-34.229-1	5.2.0	5.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- New test cases are introduced. - Some corrections and clarifications are applied.
ARIB STD-T63-34.229-2	5.2.0	5.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	These 4 CRs were applied: - Updating of test cases to cover both IMS support and early IMS security scenarios, ICS part(R5-063528) - ICS part for new registration test cases 8.5, 8.6 and 8.7 for early IMS security(R5-063527) - Removal of MO Call - 488 not accepted here for rel 5, ICS part(R5-063331) - Production of pointer version 5.2.0 of TS 34.229-2 with no technical contents(R5-063292)

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.229-1	6.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	These CRs were applied in addition to 5.2.0: - Updates to TC 11.1 Network-initiated deregistration for IMS Rel-6(R5-063574) - Updates to TC 11.2 Network initiated re-authentication for IMS Rel-6(R5-063573) - Updates to TC 12.1 MO Call Successful for IMS Rel-6(R5-063570) - Updates to TC 8.1 Initial registration for IMS Rel-6(R5-063569) (Refer to 5.2.0 Summary)
ARIB STD-T63-34.229-2	6.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	This one CR was applied in addition to 5.2.0: - Update to 34.229-2 : Major capabilities(R5-063571) (Refer to 5.2.0 Summary)

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.5.0	6.4.2	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of Specs and minor editorials

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.140	6.14.0	6.13.0	CP	Multimedia Messaging Service (MMS); Functional description; Stage 2	MM4 Route visibility when MMSIP is used
ARIB STD-T63-25.101	6.14.0	6.13.0	R4	UE Radio transmission and reception (FDD)	- Corresponding change as in Rel-5 (V.5.20.0) was made. - Correction of typo in “Demodulation of MTCH and cell identification” test was made. - The new E-DCH code domain error requirement definition was updated and clarified.
ARIB STD-T63-25.102	6.6.0	6.5.0	R4	UE Radio transmission and reception (TDD)	The sub-section for the MBMS reception and Cell identification combining requirement is added for 128Mcps TDD option.
ARIB STD-T63-25.104	6.14.0	6.13.0	R4	UTRA (BS) FDD; Radio transmission and reception	Duplicate information for BS with dual receiver antenna diversity was removed.
ARIB STD-T63-25.123	6.9.0	6.8.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 1.28Mcps TDD option. - Change T2 for Test 1 from 6s to 7s - Change T2 for Test 2 from 5s to 7s
ARIB STD-T63-25.133	6.16.0	6.15.0	R4	Requirements for support of radio resource management (FDD)	SIB18 reselection test case was removed.
ARIB STD-T63-25.212	6.10.0	6.9.0	R1	Multiplexing and channel coding (FDD)	Clarify the number of physical channels, transmission gap positioning and physical channel mapping for E-DCH in relation to compressed mode.
ARIB STD-T63-25.214	6.11.0	6.10.0	R1	Physical layer procedures (FDD)	Correct E-DCH gain factor calculation in relation to compressed mode.
ARIB STD-T63-25.307	6.5.0	6.4.0	R2	Requirements on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz)
ARIB STD-T63-25.321	6.11.0	6.10.0	R2	MAC protocol specification	- Grant and MAC-e/es headers for E-DCH - Clarification to Maximum channelisation codes and E-

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					TFC selection - Correction for E-DCH SG and compressed mode - SG update procedure correction
ARIB STD-T63-25.401	6.9.0	6.8.0	R3	UTRAN Overall Description	Delete reference to "MBMS UTRAN Cell Group Identifier"
ARIB STD-T63-25.402	6.5.0	6.4.0	R3	Synchronisation in UTRAN Stage 2	Adding a new formula for Frame Offset and Chip Offset calculation
ARIB STD-T63-25.423	6.12.0	6.11.0	R3	UTRAN Iur interface RNSAP signalling	- Enhancing RNSAP specification to support Mobile TV - Correction for Misalignment between Tabular and ASN.1 for "E-RGCH and E-HICH Channelisation Code" IE - Correction for Misalignment between Tabular and ASN.1 for "E-DCH Minimum Set E-TFCI " IE - Correction for the max repetition of RL Information Response IE in tabular - Correction to an abnormal case in E-DCH RL ADDITION
ARIB STD-T63-25.425	6.4.0	6.3.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	Congestion reporting correction
ARIB STD-T63-25.427	6.8.0	6.7.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- No Payload CRC if no Payload - TNL congestion indication signal not applicable for DCH
ARIB STD-T63-25.433	6.12.0	6.11.0	R3	UTRAN Iub interface NBAP signalling	- Correction for the max repetition of RL Information Response IE in tabular - Correction to an abnormal case in E-DCH RL ADDITION - ASN.1 correction from rapporteur
ARIB STD-T63-26.173	6.1.0	6.0.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction to bug in ITU-T bitstream format in the presence of frame erasures is carried out.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-26.234	6.10.0	6.9.0	S4	Transparent end-to-end streaming service; Protocols and codecs	Correction of Media Type to enable IANA registration and correction of references are carried out.
ARIB STD-T63-26.346	6.7.0	6.6.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction to the file repair request, essential correction of FLUTE FDT content encoding support, essential correction of SDP for streaming session, correction of required number of FEC repair symbols, correction of declaration for 'xs:anyAttribute' and of missing opening tag '<keyDomainID>' and Inclusion of the MBMS Counting Indication to the MBMS bearer mode description are carried out.
ARIB STD-T63-31.102	6.16.0	6.15.0	C6	Characteristics of the USIM Application	- Correction of the MSK Update procedures - Correction of the references to a non-existing table in Authenticate command description - Clarification of the USIM behavior when MSK key is not updated - Correction of MBMS Security Context description - Correction of the MUK Update procedures - Correction of the Tables in section 7.1.2.5
ARIB STD-T63-31.121	6.6.0	6.5.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential corrections to 8.1.2 - Essential correction of EF PLMNwACT coding
ARIB STD-T63-31.122	6.3.0	6.2.0	C6	USIM conformance test specification	- Addition of tests for (F, D) = (512, 64) and introduction of Test Cases related to Low Impedance Drivers - Addition of tests for BER-TLV structure files and Data Oriented commands
ARIB STD-T63-31.124	6.7.0	6.6.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface	- Essential corrections on REFRESH TC 27.22.4.7.1 - Addition of REFRESH USIM Application Reset

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
				Module Application Toolkit (USAT) conformance test specification	- Corrections in the interpretation of Katakana Character - Correction to SET UP CALL - Essential corrections on SEND SS (UCS2 display) test cases - Correction to SEND SS - Some of the Applicability table content is missing when printed or in Print Layout mode.
ARIB STD-T63-33.220	6.11.0	6.10.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Correction of Requirements on GBA keys
ARIB STD-T63-33.246	6.9.0	6.8.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Clarify the use of MBMS User Service Registration/ Deregistration for protected MBMS User Services. - Correction on the use of key derivation functions - Correction of the MIKEY Extension payload coding - Correction to the Processing of received messages in the ME - Specify the authentication key length of MIKEY - MTK storage rules on UEs
ARIB STD-T63-34.108	6.5.0	6.4.0	R5	Common test environments for User Equipment (UE) conformance testing	- Mainly, corrections to existence test cases. - MTCH bearers and FDD interband testing are introduced.
ARIB STD-T63-34.109	6.3.0	6.2.0	R2	Terminal logical test interface; Special conformance testing functions	Enhancements of UE test loop mode 1 for E-DCH RF performance testing
ARIB STD-T63-34.123-1	6.5.0	6.4.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Many corrections to HCR HDD, WI-25 test cases, MBMS, ..etc.. - Interband test cases are also introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-2	6.5.0	6.4.0	R5	UE conformance specification;Part 2: ICS proforma specification	Changes related to 34.123-1
ARIB STD-T63-34.123-3	6.1.0	6.0.0	R5	UE conformance specification; Part 3: Abstract test suites (ATSS)	- Many corrections. - Test cases for E-DCH, WI-25, DSAC, ..etc. are added.

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.003	7.0.0		S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Change permits the addition of emergency related data, as determined by the relevant national authorities, to a TS12 call.
ARIB STD-T63-22.016	7.0.0		S1	International Mobile Equipment Identities (IMEI)	Statement that the procedure also applies to UEs that are IMS registered.
ARIB STD-T63-23.236	7.0.0		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	- This document covers the details for the Intra Domain Connection of RAN Nodes to Multiple CN Nodes for GSM and UMTS systems. In particular, it details the impacts to GSM and UMTS systems and the stage 2 procedures for the support of connecting a RNC or BSC to multiple MSC servers or SGSNs. The overall solution is described, and the detailed impacts on the existing specifications are identified. - The reference model to which these procedures apply can be found within TS 23.002 [1]. Detailed architectural requirements within the subsystems are contained within the remainder of the 23 series of specifications e.g. the requirements for the Packet Switched (PS) domain are contained within TS 23.060 [2] and the requirements for the Bearer Independent CS Core Network are contained in TS 23.205 [14].
ARIB STD-T63-31.133	7.0.0		C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	ISIM API for Java Card v 2.1.1
ARIB STD-T63-33.110	7.0.0		S3	Key establishment between a UICC and a terminal	This TS describes the security features and mechanisms to provision a shared key between a UICC and a terminal that may host the UICC or be connected to the device hosting

Added Standard Number	Version at ARIB STD-T63 Ver.6.10		3GPP WG	Title	New Document Summary
					the UICC via a local interface. Candidate applications to use this key establishment mechanism include but are not restricted to secure channel between a UICC and a terminal. The scope of this TS includes an architecture overview and the detailed procedure how to establish the shared key between the UICC and the terminal.

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	7.8.0	7.7.0	S1	Service aspects; Service principles	- The IMS emergency call identifier is removed. - Removed the support to re-establish a call which has been put on hold before undergoing VCC. - Introduces requirements for the hosting PLMN operator to be able to differentiate service offerings to MVNO subscribers. It should also be possible to more easily identify subscribers belong to a particular service provider MVNO.
ARIB STD-T63-22.105	7.1.0	7.0.0	S1	Services & Service capabilities	- Requirements for the delivery of SMS over WLAN and other IP Connectivity Access Networks (IP-CANs) added to TS22.105 Rel-7. - Requirements for registration of the ability to support SMS-IP
ARIB STD-T63-22.259	7.3.0	7.2.0	S1	Service requirements for Personal Network Management (PNM); Stage 1	- Clarify text: Chapter 5.2.1 states "It shall be possible to simultaneously access multiple PLMNs...". - The text is corrected to "It shall be possible to simultaneously access a PLMN via multiple access

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					systems."
ARIB STD-T63-23.203	7.1.0	7.0.0	S2	Policy and charging control architecture	- Specification of what GPRS parameters are included in the QCI is included in addition to an example of how the QCI mapping table can look like. - Requirement for support of specific charging models introduced. - The flavours of special rates clarified. - Details on the management of credit at credit re-authorization removed. - The frequent use of "also" is replaced by splitting the paragraphs. - Offline charging data shall be produced for all usage, including usage known to be free of charge. - Editorial touch-up to structure the charging examples clause. - This document clarifies the restrictions for the usage of predefined PCC rules: For predefined PCC rules that are known to the PCRF, the PCRF can activate such a PCC rule only once per IP-CAN session. However, if a predefined PCC rule is only containing filter information for the uplink direction it can be activated for multiple IP-CAN bearers of the same IP-CAN session. - For predefined PCC rules that are not known to the PCRF, the PCEF may only activate such a PCC rule if there are no UE provided traffic mapping information related to the IP-CAN bearer. - Informative section added to show the interaction between the WiMAX network and the PCC architecture. - The annexes for DOCSIS and WiMAX are placed into an

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					Informative annex D. Global change of references to Annex A to add both Annex A and Annex D.
ARIB STD-T63-23.204	7.1.0	7.0.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	- Reference to TS23.040 is corrected and other references are removed. A reference to TS 23.228 is added. - Reference architecture diagram has been updated to include S-CSCF and P-CSCF. In addition SMSC has been changed to SC and GMSC to SMS-GMSC. - SMS-GMSC changes - Sections 5.2.4, 5.3.1, 6.4, 6.5 - SC changes – Section 5.3.1, 6.3 (Diagram updated), 6.4 (Diagram updated), 6.5 (Diagram updated), 6.6 (Diagram updated) - Removal of text that refers to MMS and insertion of some generic text that says SMS over generic IP access can be used; to support applications and services that use SMS when a generic IP access is used. - Section 4 has been deleted and replaced by section 4A. The section contains one of the existing requirements from section 4 as well as the following additional requirements: - provide for the transparent transport of Short Message Service TP layer PDUs [2] and associated RP layer information. - Notify the HSS when a UE that was not reachable is reachable again. - Section 6.3 - Title is wrong and misleading, the procedures about are SMS Submit procedure as defined in TS 23.040. - RP (SC Address) and TP (SM-TL PDU) layer information has been added to the information flows. - Editors note is confusing, it seems to imply that the TS 23.040 RP, TP layer information may need

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					additional information elements added. These layers should not be changed and thus the note has been deleted. - Section 6.4 RP (SC Address) and TP (SM-TL PDU) layer information has been added to the information flows. - Section 6.5 Clarification has been added as to indicate these are TP layer PDUs. - Replace "may not" with "need not" - The name of the Sh interface is changed to XX and an editor's note is added that it is open if this interface will be based on Diameter, i.e. it will be an extension of the current Sh, or MAP, i.e., it will be an extension of the current J interface. - Instead of the IP address of the terminal, the address of the S-CSCF is maintained by the IM-SM-GW.
ARIB STD-T63-23.206	7.1.0	7.0.0	S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	- Details of the support of the allocation of VDN and VDI is added to the procedure clause 5.3.2, 6.4.1.1 - The VCC Application may also be invoked by the PSI directly. The paper proposes to modify the corresponding text in clause 6.4.1.2. - Text is added to indicate that if call barring is implemented in IMS only then barring cannot be applied to outgoing calls if those calls are not anchored in IMS. In addition a NOTE is added indicating that there are implementation options for avoiding the barring of Domain Transfers for subscribers with outgoing call barring. - 3GPP TS 23.226: "Global Text Telephony" is added to reference section

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					- New text in section 4.3 to describe “For service compatibility reason (e.g., Text telephony [xx]), the UE may reject the IMS terminating voice attempt with a cause code to indicate reestablishment via the CS domain. The domain selection function shall re-attempt the call setup using the CS domain” - Clause 6.2.2.2 updated to make it clear that the CSAF uses the IMRN to determine the necessary call information but if the ISUP information is available then it may be used instead. - A new references to OMA has been introduced: “OMA-ERELD-DM” - New text describing DSF and VCC UE functionalities related to Domain Selection operator policy and user preferences has been inserted. - A note dealing with the storage of Domain Selection operator policy and user's preferences has been added. - The reference point V3 description has been modified. - A mechanism to upload user preferences from VCC UE to VCC Application has been indicated: Ut interface - A mechanism to download operator policy to VCC UE has been indicated: OMA Device Management. - Addition of a new Annex to document implementation options for the prevention of Circular Looping. Modification to “Section 6.3.3 Terminated Call Directed to CS” to insert a note indicating that methods to prevent circular looping for CS terminations are documented in the new Annex. Modification of NOTE 4 in Annex A to refer to the new Annex. - Removal of the Editor's Note in section 5.3.1.2.1:

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					- The VCC application may use the IMRN to query the gsmSCF to retrieve the users public identity, but is not mandated to do this. - The reference point between the gsmSCF and the HSS is described in TS 23.078. It is clarified that there is no VCC specific usage of this reference point. - The term VCC application's gsmSCF is replaced by gsmSCF. - Modification of "Section 6.6 CAMEL services" to insert a note highlighting the considerations that must be accounted for when configuring CAMEL services for VCC users in the CS domain. - In section 6.1. the two editor's are removed - Correct grammar, spelling, and tense issues. Change wording in some areas to make it easier to read without changing the technical meaning. - Other CR's approved at SA2 #55 were modified as necessary for readability. These are the remaining changes which did not have other technical modifications.
ARIB STD-T63-23.228	7.6.0	7.5.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- Clarified that an alias IMPUs are to be a be a member the same implicit registration set. - Upon being informed that signalling transport to the UE is no longer possible, the P-CSCF shall clear ongoing calls to that UE and immediately reject subsequent calls to the UE indicating that the user is not reachable. - This CR is the first attempt to incorporate the support of Rel-7 PCC architecture, functionality and related specifications into TS 23.228. - This CR considers the following aspects of the support of PCC within IMS ...

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					- SBLP functionality is replaced with PCC architecture, functionality and terminology. - The use of Authorization Token has been removed since that is not used in PCC. - Flow grouping functionality is also removed. - References to FBC terminology aligned with PCC terminology - The new scenario is added in the section describing the origination procedure from an Application Server. To solve the scenario, it is proposed that the AS selects an entity for routing the request: - either a S-CSCF from a pre-configured list - or use the transit function if available in the network - The AS then ends the session initiation request to that entity with the indication that it is an origination request and that no service logic should be invoked. A new indication is created called "routing only mode" for this purpose. - Clarifying that GGSN is responsible for re-establish an IP-CAN bearer in case a bearer is lost e.g. due to overload situations. - Clarifying that the functionality to send SDP information about which media that require separate PDP contexts is not relevant when Bearer Control Mode is "Network Only". - Clarifying that UL TFT may be used to inform the UE which traffic that is allowed on the PDP context dedicated for IM CN Subsystem signalling. - A requirement to make it possible to change contact address when communicating with a remote endpoint is added. A requirement to allow multiple simultaneous registrations from the same UE is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	7.6.0	7.5.0	R4	UE Radio transmission and reception (FDD)	- Corresponding change as in Rel-6 (V.6.14.0) was made. - Extended 1.7/2.1 GHz requirements and Enhanced type 1 requirements for E-HICH, E-RGCH, E-AGCH and MBMS were introduced. And introduction of receiver requirements for power class 3bis was made.
ARIB STD-T63-25.102	7.5.0	7.4.0	R4	UE Radio transmission and reception (TDD)	Followings are changes. - A new section 9.2.5 is added to specify the performance of PLCCH. The PLCCH is defined in a new section A.3.2.2. - Performances for E-HICH and E-AGCH are into Section 11.1.1 and 11.2.1. - The sub-section for the MBMS reception and Cell identification combining requirement is added.
ARIB STD-T63-25.104	7.5.0	7.4.0	R4	Base Station (BS) radio transmission and reception (FDD)	- Corresponding change as in Rel-6 (V.6.14.0) was made. - Extended 1.7/2.1 GHz requirements were introduced.
ARIB STD-T63-25.105	7.4.0	7.3.0	R4	Base Station (BS) radio transmission and reception (TDD)	Performance for E-DCH for 7.68 Mcps is added into Section 8.4. Corresponding FRCs for E-DCH are defined in A.3.
ARIB STD-T63-25.113	7.5.0	7.4.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Extended 1.7/2.1 GHz requirements were introduced.
ARIB STD-T63-25.123	7.3.0	7.2.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 1.28Mcps TDD option. - Change T2 for Test 1 from 6s to 7s - Change T2 for Test 2 from 5s to 7s
ARIB STD-T63-25.133	7.6.0	7.5.0	R4	Requirements for support of radio resource management (FDD)	- Corresponding change as in Rel-6 (V.6.16.0) was made. - Extended 1.7/2.1 GHz requirements were introduced and reporting range of RTT/propagation delay was extended.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	7.6.0	7.5.0	R4	Base Station (BS) conformance testing (FDD)	- Introduction of Extended 1.7/2.1 GHz requirements was made. - The figures in Appendix B were corrected.
ARIB STD-T63-25.142	7.4.0	7.3.0	R4	Base station conformance testing (TDD)	Performance for E-DCH for 7.68 Mcps is added into Section 8.4. Corresponding FRCs for E-DCH are defined in A.3.
ARIB STD-T63-25.212	7.3.0	7.2.0	R1	Multiplexing and channel coding (FDD)	Clarify the number of physical channels, transmission gap positioning and physical channel mapping for E-DCH in relation to compressed mode.
ARIB STD-T63-25.214	7.3.0	7.2.0	R1	Physical layer procedures (FDD)	Correct E-DCH gain factor calculation in relation to compressed mode.
ARIB STD-T63-25.304	7.1.0	7.0.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Introduction high mobility detection on RRC state change
ARIB STD-T63-25.306	7.2.0	7.1.0	R2	UE Radio Access capabilities	Introduction of the new security algorithms UEA2 and UIA2
ARIB STD-T63-25.307	7.1.0	7.0.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band X (Extended UMTS 1.7/2.1 GHz)
ARIB STD-T63-25.308	7.1.0	7.0.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Introduction of CPC
ARIB STD-T63-25.321	7.3.0	7.2.0	R2	MAC protocol specification	- Grant and MAC-e/es headers for E-DCH - Clarification to Maximum channelisation codes and E-TFC selection - Correction for E-DCH SG and compressed mode - SG update procedure correction
ARIB STD-T63-25.401	7.2.0	7.1.0	R3	UTRAN Overall Description	- Delete reference to "MBMS UTRAN Cell Group Identifier" - Consistency of Specification Notations

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.402	7.2.0	7.1.0	R3	Synchronisation in UTRAN Stage 2	- Adding a new formula for Frame Offset and Chip Offset calculation - Consistency of Specification Notations
ARIB STD-T63-25.420	7.2.0	7.1.0	R3	UTRAN Iur Interface: General Aspects and Principles	Consistency of Specification Notations
ARIB STD-T63-25.423	7.3.0	7.2.0	R3	UTRAN Iur interface RNSAP signalling	- Enhancing RNSAP specification to support Mobile TV - Correction for Misalignment between Tabular and ASN.1 for "E-RGCH and E-HICH Channelisation Code" IE - Correction for Misalignment between Tabular and ASN.1 for "E-DCH Minimum Set E-TFCI " IE - Correction for the max repetition of RL Information Response IE in tabular - Correction to an abnormal case in E-DCH RL ADDITION Fast Reconfiguration - Correction of Round Trip Time for Extended Cell Range - RL Setup Procedure Combined with HSPA Serving Cell Change
ARIB STD-T63-25.424	7.1.0	7.0.0	R3	UTRAN Iur interface data transport & transport signalling for CCH data streams	Consistency of Specification Notations
ARIB STD-T63-25.425	7.3.0	7.2.0	R3	UTRAN Iur interface user plane protocols for CCH data streams	- Congestion reporting correction - Capacity request correction - Consistency of Specification Notations
ARIB STD-T63-25.427	7.3.0	7.2.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	- Fast Reconfiguration - No Payload CRC if no Payload - TNL congestion indication signal not applicable for DCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					- Consistency of Specification Notations
ARIB STD-T63-25.430	7.2.0	7.1.0	R3	UTRAN Iub Interface: General Aspects and Principles	Consistency of Specification Notations
ARIB STD-T63-25.433	7.3.0	7.2.0	R3	UTRAN Iub interface NBAP signalling	- Correction for the max repetition of RL Information Response IE in tabular - Correction to an abnormal case in E-DCH RL ADDITION - MAC-hs Reset Indicator - Fast Reconfiguration - Correction of Round Trip Time for Extended Cell Range - RL Setup Procedure Combined with HSPA Serving Cell Change
ARIB STD-T63-25.434	7.1.0	7.0.0	R3	UTRAN Iub interface data transport & transport signalling for CCH data streams	Consistency of Specification Notations
ARIB STD-T63-25.435	7.3.0	7.2.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	- Capacity request correction - Consistency of Specification Notations
ARIB STD-T63-25.450	7.1.0	7.0.0	R3	UTRAN Iupc interface general aspects and principles	Consistency of Specification Notations
ARIB STD-T63-25.453	7.5.0	7.4.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	- Correction of Round Trip Time for Extended Cell Range - Consistency of Specification Notations
ARIB STD-T63-26.234	7.1.0	7.0.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Correction of Media Type to enable IANA registration and correction of references are carried out.
ARIB STD-T63-26.346	7.2.0	7.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction to the file repair request, Essential correction of FLUTE FDT content encoding support, Essential correction of SDP for streaming session, correction of

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
					required number of FEC repair symbols, correction of declaration for 'xs:anyAttribute' and of missing opening tag '<keyDomainID>' and inclusion of the MBMS counting indication to the MBMS bearer mode description.
ARIB STD-T63-26.410	7.1.0	7.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Correction to C-code: Correct the maximum possible SBR payload size (floating point code) is carried out.
ARIB STD-T63-26.411	7.1.0	7.0.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Correction to C-code: Correct the maximum possible SBR payload size (fixed point code) is carried out.
ARIB STD-T63-31.102	7.7.0	7.6.0	C6	Characteristics of the USIM Application	-Correction of the references to a non-existing table in Authenticate command description - Correction of MBMS Security Context description - Clarification of the USIM behavior when MSK key is not updated - Correction of the references to a non-existing table in Authenticate command description - Correction of the MSK Update procedures - Correction of the MUK Update procedures - Correction of the Tables in section 7.1.2.5
ARIB STD-T63-33.102	7.1.0	7.0.0	S3	3G security; Security architecture	- Support of algorithm change features - Support of UIA2, UEA2 algorithms
ARIB STD-T63-33.203	7.4.0	7.3.0	S3	3G security; Access security for IP-based services	- Clarification to pseudo randomisation of port numbers - Clarification on the usage of NDS/AF
ARIB STD-T63-33.210	7.2.0	7.1.0	S3	3G security; Network Domain Security (NDS); IP network layer security	- Clarifying the use of transit security domains - Addition of reference to NDS/AF specification

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.220	7.6.0	7.5.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Addition of note on out-of-order case for BSF - Using pseudonyms over Zn to ensure service continuity - UICC application selection for service continuity - Two NAF applications having the same NAF keys - Correction of Requirements on GBA keys - Suppression of NAF Group attribute within USS on Zn and Zn' interfaces - Addition of text regarding the use of the NDS authentication framework
ARIB STD-T63-33.234	7.3.0	7.2.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	Correction of the Note re. fast re-authentication
ARIB STD-T63-33.246	7.2.0	7.1.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Keys derived from MTK - SRTP key derivation rate shall be zero - Clarify the use of MBMS User Service Registration/Deregistration for protected MBMS User Services - Correction on the use of key derivation functions - Correction of the MIKEY Extension payload coding - AES Key Wrap not required for MBMS - Correction to the Processing of received messages in the ME - Specify the authentication key length of MIKEY - Typical MSK and MTK key size - MTK storage rules on UEs
ARIB STD-T63-34.109	7.1.0	7.0.0	R2	Terminal logical test interface; Special	Enhancements of UE test loop mode 1 for E-DCH RF performance testing

Revised Standard Number	Version at ARIB STD-T63 Ver.6.10	Version at ARIB STD-T63 Ver.6.00	3GPP WG	Title	Change Summary
				conformance testing functions	
ARIB STD-T63-34.121-1	7.3.0	7.2.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Corrections. - New HSUPA test cases are added.
ARIB STD-T63-34.121-2	7.3.0	7.2.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	These 3 CRs were applied: - Addition of new condition for TC 6.3A in section 4(R5-063459) - Addition of PICS parameter 'speech' and new condition for TC 8.3.4 in section 4 and Annex A.4.2(R5-063460) - Addition of new test case 5.13.1AA(R5-063424) - Applicability of new UE Transmission Power Headroom test case(R5-063442)
ARIB STD-T63-34.124	7.5.0	7.4.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Introduction of Extended 1.7/2.1 GHz requirements was made.

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	3.14.0	3.13.0	R4	UTRA (BS) FDD; Radio transmission and reception	The BS spurious emission limits (Category B) are modified as defined in ITU-R Recommendation SM.329 (R4-061117). Category B spurious emission limits are adopted for IMT-2000 in Europe and some other countries in other UTRA bands (Not in Japan).
ARIB STD-T63-25.141	3.15.0	3.14.0	R4	Base station conformance testing (FDD)	Corresponding changes on the BS spurious emission limits (Category B) in the core specification (TS25.104, V3.14.0) is made.
ARIB STD-T63-25.307	3.9.0	3.8.0	R2	Requirement on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz) in 25.307 - Signalling requirements for Band VI
ARIB STD-T63-31.122	3.10.0	3.9.0	C6	UICC Test Specification	CR to reference to next release of TS 31.122

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	4.9.0	4.8.0	R4	UE Radio transmission and reception (TDD)	Modification to Spectrum Emission Mask for 1.28Mcps TDD
ARIB STD-T63-25.104	4.9.0	4.8.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in the release 99 (TS25.104, V3.14.0) is made.
ARIB STD-T63-25.141	4.10.0	4.9.0	R4	Base station conformance testing (FDD)	Corresponding changes in the release 99 (TS25.141, V3.15.0) is made.
ARIB STD-T63-25.307	4.9.0	4.8.0	R2	Requirements on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz) in 25.307 - Signalling requirements for Band VI
ARIB STD-T63-31.122	4.2.0	4.1.0	C6	Universal Subscriber Identity Module (USIM) conformance test specification	CR to reference to next release of TS 31.122

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.122	5.0.0		C6	Universal Subscriber Identity Module (USIM) conformance test specification	Creation of a void Rel-5 specification pointing to Rel-6
ARIB STD-T63-34.229-3	5.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	This document specifies the protocol conformance testing in TTCN at the Gm interface and includes TTCN test specification and design considerations.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.12.0	5.11.0	SP	3rd Generation mobile system Release 5 specifications	Corrections to list of specifications
ARIB STD-T63-25.102	5.10.0	5.9.0	R4	UE Radio transmission and reception (TDD)	Modification to Spectrum Emission Mask for 1.28Mcps TDD
ARIB STD-T63-25.104	5.13.0	5.12.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in the release 4 (TS25.104, V4.9.0) is made.
ARIB STD-T63-25.141	5.13.0	5.12.0	R4	Base station conformance testing (FDD)	Corresponding changes in the release 4 (TS25.141, V4.10.0) is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.306	5.14.0	5.13.0	R2	UE Radio Access capabilities	- Feature cleanup and other leftovers - Correction of the HS-DSCH physical layer categories of 1.28Mcps TDD
ARIB STD-T63-25.307	5.8.0	5.7.0	R2	Requirements on UE supporting a release-independent frequency band	- Signalling requirements for Band VI and Band IX - Introduction of Band X (Extended UMTS 1.7/2.1 GHz) in 25.307 - Signalling requirements for Band VI
ARIB STD-T63-25.321	5.13.0	5.12.0	R2	MAC protocol specification	Modification of HS-DSCH TB size for LCR TDD
ARIB STD-T63-25.453	5.12.0	5.11.0	R3	UTRAN Iu-CS interface Positioning Calculation Application Part (PCAP) signalling	Presence inconsistency Correction
ARIB STD-T63-26.173	5.11.0	5.10.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction of text specification to be aligned with the C-code is done.
ARIB STD-T63-31.111	5.10.0	5.9.0	C6	USIM Application Toolkit (USAT)	Removal of re-introduced text for Call Control User indication
ARIB STD-T63-34.122	5.7.0	5.6.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	Following are changed for 1.28Mcps TDD option. - Correct inter frequency measurement - Correct the intra frequency measurement test case - Correct the test case of open loop power control - Add the test criteria in RRM test cases - Add test case of Timing Advance - 34.122 v5.7.0 pointer to Release 6 version

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.213	6.0.0		C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	TS 31.213v 2.0.0 "Test Specification for USIM API" Approved
ARIB STD-T63-34.122	6.0.0		R5	Terminal conformance specification, Radio transmission and reception (TDD)	This document is terminal conformance specification for 3.84Mcps and 1.28Mcps TDD options.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.6.0	6.5.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-23.228	6.16.0	6.15.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- Corrections to Border Control Functions for Terminating Session Flows: - Change text in box 2 of Figure 5.51 to correct that its User A that the I-CSCF sees as IPv6 and not User B. Correct minor typo in first sentence of section 5.18.2.
ARIB STD-T63-25.102	6.7.0	6.6.0	R4	UE Radio transmission and reception (TDD)	Modification to Spectrum Emission Mask for 1.28Mcps TDD
ARIB STD-T63-25.104	6.15.0	6.14.0	R4	UTRA (BS) FDD; Radio transmission and reception	Corresponding changes in the release 5 (TS25.104, V5.13.0) is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	6.4.0	6.3.0	R4	UTRA (BS) TDD: Radio transmission and reception	Introduction of HS-SICH detection performance for 1.28Mcps TDD
ARIB STD-T63-25.123	6.10.0	6.9.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 1.28Mcps TDD option. - Correction to UE measurement reporting requirements in Annex 8
ARIB STD-T63-25.133	6.17.0	6.16.0	R4	Requirements for support of radio resource management (FDD)	Cell re-selection test during an MBMS session is modified. The number of candidate cells is reduced from 4 to 2 to make the test case less complex.
ARIB STD-T63-25.141	6.16.0	6.15.0	R4	Base station conformance testing (FDD)	Corresponding changes in the release 5 (TS25.141, V5.13.0) is made.
ARIB STD-T63-25.142	6.6.0	6.5.0	R4	Base station conformance testing (TDD)	Addition of HS-SICH detection performance test specification for 1.28Mcps TDD
ARIB STD-T63-25.224	6.7.0	6.6.1	R1	Physical layer procedures (TDD)	Following are changed for 1.28Mcps TDD option. - Modification on the power control function of HS-SICH - Clarification of closed Loop Uplink HS-SICH Power Control
ARIB STD-T63-25.225	6.3.0	6.2.0	R1	Physical layer; Measurements (TDD)	Modification on the HS-SICH reception quality of HS-SICH for 1.28Mcps TDD option
ARIB STD-T63-25.306	6.10.0	6.9.0	R2	UE Radio Access capabilities	- TTI values for MCCH RB configuration - Correction of the HS-DSCH physical layer categories of 1.28Mcps TDD
ARIB STD-T63-25.308	6.4.0	6.3.0	R2	UTRA High Speed Downlink Packet Access(HSDPA); Overall description; Stage 2	- Alignment of 25.308 with 25.302 and 25.331 to enable HS-DSCH operation without an associated DL DPCH for all 3.84 McpsTDD
ARIB STD-T63-25.321	6.12.0	6.11.0	R2	MAC protocol specification	- Grant and MAC-e/es headers for E-DCH - Clarification to Maximum channelisation codes and E-TFC selection

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- Correction for E-DCH SG and compressed mode - SG update procedure correction - Modification of HS-DSCH TB size for LCR TDD
ARIB STD-T63-25.423	6.13.0	6.12.0	R3	UTRAN Iur interface RNSAP signalling	- Abnormal conditions for IP Transport Option and Diversity Control field were added - Correction of the procedure code ID
ARIB STD-T63-25.433	6.13.0	6.12.0	R3	UTRAN Iub interface NBAP signalling	Abnormal conditions for IP Transport Option and Diversity Control field were added
ARIB STD-T63-25.453	6.11.0	6.10.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Presence inconsistency correction
ARIB STD-T63-26.131	6.1.0	6.0.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	Correcting wrong reference to ITU-T G.223, update of reference [11] to P.79-2001 Annex G and Sending distortion requirements for WB-AMR are carried out.
ARIB STD-T63-26.132	6.1.0	6.0.0	S4	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification	Update of Reference for ITU-T Recommendation P.57 "Artificial Ears", update of reference [16] to P.79-2001 Annex G and distinction between narrow-band and wideband telephony in the frequency ranges and loudness rating and STMR weights, and in ANR calculation are carried out.
ARIB STD-T63-26.173	6.2.0	6.1.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Correction of text specification to be aligned with the C-code is done.
ARIB STD-T63-26.244	6.6.0	6.5.0	S4	Transparent end-to-end streaming service; 3GPP file format (3GP)	Correction of MIME Type Registrations for 3GP files and correction of sampling rate information are carried out.
ARIB STD-T63-26.346	6.8.0	6.7.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Essential correction for the support of multiple versions in file repair, essential correction of a wrong Reference and essential Corrections of the Reception Reporting Procedure are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-26.410	6.8.0	6.7.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Bugfix for Enhanced aacPlus encoder when operated at 44.1 kHz is done.
ARIB STD-T63-26.411	6.5.0	6.4.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Bugfix for Enhanced aacPlus encoder when operated at 44.1 kHz is done.
ARIB STD-T63-31.102	6.17.0	6.16.0	C6	Characteristics of the USIM Application	- MSK management procedures - Correction of the MSK Update procedures - Clarification of the USIM behavior when MSK key is not updated - Correction of MBMS Security Context description - Correction of the Tables in section 7.1.2.5 - Correction of the references to a non-existing table in Authenticate command description - Correction of the MUK Update procedures
ARIB STD-T63-31.111	6.10.0	6.9.0	C6	USIM Application Toolkit (USAT)	- Removal of re-introduced text for Call Control User indication - Definition of the MMS notification download tag value
ARIB STD-T63-31.121	6.7.0	6.6.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction of UICC presence detection test - Essential corrections to 8.1.2 - Essential correction of EF PLMNwACT coding
ARIB STD-T63-31.122	6.4.0	6.3.0	C6	USIM conformance test specification	- Creation of combined R99 - Rel-6 version, by addition of applicability tables - Addition of tests for BER-TLV structure files and Data Oriented commands - Addition of tests for (F, D) = (512, 64) and introduction of

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					Test Cases related to Low Impedance Drivers
ARIB STD-T63-31.124	6.8.0	6.7.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of Terminal Profile Support table - Essential correction of 27.22.4.13.1 Expected Sequence 1.7 - Essential correction of 27.22.5.2 - Enhancement to an SMS-PP Data Download test case - Essential correction of 27.22.4.7, seq. 1.7 - CR implementation error correction for 27.22.6.2 SEQ 2.2 - Essential correction of TC 27.22.7.4.1 - Enhancement to an SMS-CB Data Download test case - Essential correction of 27.22.4.7.2 SEQ 2.2 - CR implementation error correction for 27.22.4.11.1 SEQ 1.4A - Essential clarification of Network Simulator selection - Addition of REFRESH USIM Application Reset - Essential corrections of BIP entries in table E.1 - Essential correction of coding in OPEN CHANNEL test cases - Corrections in the interpretation of Katakana Character - Some of the Applicability table content is missing when printed or in Print Layout mode. - Correction to SET UP CALL - Correction to SEND SS - Essential corrections on SEND SS (UCS2 display) test cases - Essential corrections on REFRESH TC 27.22.4.7.1

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- Essential correction of Result TLV handling - Essential correction of expected sequence in OPEN CHANNEL test case
ARIB STD-T63-31.130	6.5.0	6.4.1	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	Clarification on getShortMessageLength() method when applied on a SMS Cell Broadcast
ARIB STD-T63-33.220	6.12.0	6.11.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Clarification of mapping of GUSS to IMPIs and IMSIs - Clarification on NAF_Id coding
ARIB STD-T63-33.234	6.9.0	6.8.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Mandate the format of PDG ID - Correction and clarification of 3GPP AAA Server behavior - Extension of scope of TS 33.234 - Clarification on certificate chain handling
ARIB STD-T63-33.246	6.10.0	6.9.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Modification to rules for MSK and MTK management on the UE - FDT protection
ARIB STD-T63-34.108	6.6.0	6.5.0	R5	Common test environments for User Equipment (UE) conformance testing	The requirements of this document are provided in 3GPP TS 34.108 Release 7.
ARIB STD-T63-34.109	6.4.0	6.3.0	R2	Terminal logical test interface; Special conformance testing functions	- Enhancements of UE test loop mode 1 for E-DCH RF performance testing - Correction of max RLC SDU size
ARIB STD-T63-34.123-1	6.6.0	6.5.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Many corrections to WI-25 test cases, MBMS, ..etc.. - New test case for MBMS and RoHC are introduced.
ARIB STD-T63-34.123-2	6.6.0	6.5.0	R5	UE conformance specification;Part 2: ICS proforma specification	Changes related to 34.123-1
ARIB STD-T63-34.123-3	6.2.0	6.1.0	R5	UE conformance specification; Part 3:	- Many corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
				Abstract test suites (ATSS)	- Test cases for WI-25, WI-10, WB-AMR and E-DCH are added.
ARIB STD-T63-34.229-1	6.1.0	6.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Many corrections. - New TC 12.5, 12.6, 12.7 and 12.8 are introduced. - TC 7.7 and 7.8 are removed.
ARIB STD-T63-34.229-2	6.1.0	6.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- IMS security and early IMS security capability update - Removal of applicability statements for IMS test cases 7.7 and 7.8

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.040	7.0.1		C1	Technical realization of Short Message Service (SMS)	- This document is derived from 6.8.1. - MNRR correction - Version 7.0.1 created by MCC (Figure 3 was the area of overlapping CRs- "MNRR" box split according to CR#0089r1)
ARIB STD-T63-26.114	7.0.0		S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Newly approved TS at TSG SA #35.
ARIB STD-T63-26.173	7.0.0		S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Correction in AMR decoder to avoid division by zero in RX-DTX Handling is carried out.
ARIB STD-T63-26.204	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Maintaining bit-exactness with TS 26.173 after Correction in AMR decoder to avoid division by zero in RX-DTX Handling and bug fix to SID frame signaling in decoder are carried out.
ARIB STD-T63-26.273	7.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Reference to users guide is added.
ARIB STD-T63-26.290	7.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Reference to users guide is added.
ARIB STD-T63-26.304	7.0.0		S4	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	Reference to users guide is added.
ARIB STD-T63-26.406	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio	Reference to users guide is added.

Added Standard Number	Version at ARIB STD-T63 Ver.6.20		3GPP WG	Title	New Document Summary
				codec; Conformance testing	
ARIB STD-T63-34.108	7.0.0		R5	Common test environments for User Equipment (UE); Conformance testing	- This document is derived from 6.5.0. - Corrections and new message contents are applied.
ARIB STD-T63-34.122	7.0.0		R5	Terminal conformance specification, Radio transmission and reception (TDD)	This document is terminal conformance specification for 3.84Mcps, 1.28Mcps and 7.68Mcps TDD options. - This document is derived from 5.6.0. Mainly, 7.68Mcps addition to Frequency bands and related changes.

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.246	7.2.0	7.1.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	The requirement to not send several sessions in parallel is restricted to the regional MBMS service area for that service.
ARIB STD-T63-23.203	7.2.0	7.1.0	S2	Policy and charging control architecture	- Emergency Indication is added to Rx information - Add the description that 1. AF identify the emergency service data flow and inform the PCRF 2. PCRF judge whether the emergency bearer is really be used for emergency service. - It is changed optional whether quota is requested

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					immediately when charging key without quota is discovered. - IPCAN bearer modifications not upgrading the QoS and not providing traffic mapping information shall always be accepted. - Several aspects of PCC procedures for the UE and NW mode are added. Furthermore, the details of the mixed mode (UE/NW) are added. - It is clarified that in this Release, the PCRF supports only a single Rx reference point, i.e. for each AF session the PCRF shall only use the service information of a single AF - Corrects repeated text in 4.2.2a, correction in 6.1.1, reference correction in A.1.3.2.2.1 and editorial corrections in Annex D. - The QoS class identifier is clarified to (a) designate a set of QoS parameters in an IP-CAN, (b) apply for both service data flow and bearer handling and (c) that the PCEF maintains the mapping to/from the QoS concept applicable for the specific IP-CAN type. -Editor's notes eliminated from clause A.1.3.2.2.1. - Introduction of two IP-CAN bearer types GBR and non-GBR. Further, clarifications on GGSN handling of PDP context bitrates for these two types of PDP contexts. - Editor's note relating to charging and measurement are removed - Add statement making IP-CAN session level measurement operator configurable. - Add statement making no specific linkage between PCC service identifier and any AF level service identifier. - Introduce QoS upgrade concept into normative text.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					Add description to state that the credit authorisation should reflect the result of policy enforcement, e.g. downgraded QoS or upgraded QoS even though the IP-CAN has not acknowledged yet. - In clause 4.1 and 6.2.1.1, a clarification that the type of IP-CAN also includes non 3GPP accesses such as I-WLAN, CableLabs - In clause A.1.3.2.1.1, it is clarified that the information already listed in clause 6.2.1.1 are also valid. - Default charging method for IP-CAN session is added. It is used if no PCC rule specific charging method exist. - Addition of GBR to the PCC rule table 6.3 and associated text. Consequential editorials in clauses 6.2.1, A.1.3.1.1, A.1.3.2.1.1 and A.1.3.4 - Clarification has been added that further details associated with the SPR and the Sp reference point are not specified in Release 7.
ARIB STD-T63-23.204	7.2.0	7.1.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	- A new section is added on unsuccessful delivery procedure - A new section for Short Message Alert procedure for the UE available is added. - Some editor's notes are removed to make the specification clearer. - More details about the creation and usage on the correlation identifier are added. - The editor's note in the chapter 5.3.1 is changed into a note and moved to the MT procedure as a more proper reference. - The Xx interface is renamed to Sh.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- The Sh interface is used for IP-SM-GW to retrieve repository service related data from the HSS, as well as to retrieve the user's registration status in the CS and/or PS domain from the HSS, as input information for the domain selection. - editor's note for xx interface is to be removed. - The MAP interface shall be implemented with the SMS alerting functionality. - Add an optional Network initiated de-registration procedure. - Enables HSS sending a alerting to the CS after a successful registration of a terminal when message waiting data are stored. - Enables HSS to send alerting to the SCs when short message delivery via the IP-SM-GW fails. - HSS is provisioned with the subscriber data needed for providing SMS service. Subscribers who are not authorized for SMS service will not be provided with the relevant iFCs. - Configuration of the IP-SM-GW in the HSS, Clarification for subscriber data in TS 23.204, Correction on SMS MT delivery procedure, Successful MT Delivery Procedure in SMS-IP Architecture - Clarifies that the address of the IP-SM-GW is pre-configured in the HSS, and the registration procedure is used to indicate availability of IMS to the HSS. - In the de-registration procedure, the FFS in the step 6 is removed and a clarification NOTE on the preconfigured address and dynamic registration address is added - Using a pre-configuration in HSS to resolve the IP-SM-GW address discovery, then the related note 1 is deleted.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- An option is introduced that allows the IP-SM-GW to select a non-IMS domain for SMS termination before the actual SMS is forwarded to it. - The subscriber data for the SMSIP is split into two parts, one is for the original CS/PS short message service data and another is for encapsulated short message delivery. Accordingly, the service authorization is split into two parts. - Text was added for MT SMS delivery, when the terminating domain for the incoming SMS is IMS or CS.
ARIB STD-T63-23.206	7.2.0	7.1.0	S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	- Modified section 5.3.1.2.3 to state the allocation of IMRN is an implementation decision between CSAF or CAMEL Services - Modified section 5.3.1.2.4 to state the allocation of IMRN is an implementation decision between CSAF or CAMEL Services - Modified section 6.2.2.2 step 3 to state the allocation of IMRN is an implementation decision between CSAF or CAMEL Services. - Reference to TS 22.101 is added to the scope section. A reference to TS 22.101 is added. - Text was added to state that a VCC UE engaged in an active call/session and a held/waiting call/session on the transferring-out domain may request domain transfer according to operator policies (see clause 6.8.1). In the case that domain transfer is allowed to be performed, the VCC UE shall attempt to release the held/waiting call/session before initiating a domain transfer request for the active call/session; the VCC UE may request domain transfer for the active call/session even if the VCC UE fails in releasing the held/waiting call/ session (e.g. in case of

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					loss of coverage in the transferring-out domain). When the DTF receives a request for domain transfer from the transferring-in domain, if it finds multiple calls/sessions in the transferring-out domain and if it is able to identify the active call/session, it shall transfer, if permitted by the operator policy, the active call/session to the transferring-in domain and it shall release the held/waiting call/session in the transferring-out domain. Otherwise the DTF shall reject the request for domain transfer. The corresponding Editor's Note is removed. - To add text describing the negative influence on the voice call quality that may be introduced by performing call forwarding supplementary services in the IMS, and the way for avoiding the mentioned influence. - In Annex A, the term "CCCF" is changed to "DTF". - VDN is replaced by DTF PSI in section 6.5.2.6 and figure 6.4.2.1-1 is corrected. - Modification of "Section 6.6 CAMEL services" to make it not mandate that CAMEL Redirection services always take precedence over VCC CS Anchoring. - Remove invalid bullet point in section 5.3.1.2.1. - Add DTF – I-CSCF to title in 5.4.2. - Fix figure references to Figure 6.4.1.2-1. - Fix figure 6.4.1.3-2 to rename right-hand occurrence of MGW1/MGCF1 to MGW2/MGCF2. - Clause 6.4.3 is voided. - The editor's note in clause 4.1 was removed.
ARIB STD-T63-23.228	7.7.0	7.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Change text in box 2 of Figure I.3 to correct that its User A that the I-CSCF sees as IPv6 and not User B. Correct minor typo in first sentence of section I.3.1.2.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	7.7.0	7.6.0	R4	UE Radio transmission and reception (FDD)	Requirements of out of synchronization handling with regard to F-DPCH are modified so as to keep consistency with what is specified in TS25.214.
ARIB STD-T63-25.102	7.6.0	7.5.0	R4	UE Radio transmission and reception (TDD)	Modification to Spectrum Emission Mask for 1.28Mcps TDD Following are changed for 7.68Mcps TDD option. - Performance requirements for E-DCH associated downlink signalling channels: E-AGCH and E-HICH - Corrections & clarifications on MTCH demodulation test case. Following are changed for 3.84Mcps and 7.68Mcps TDD option. - Performance requirements for MTCH using 16QAM in an extended delay spread environment - Performance requirement for MCCH in an extended delay spread environment
ARIB STD-T63-25.104	7.6.0	7.5.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding changes in the release 6 (TS25.104, V6.15.0) is made.
ARIB STD-T63-25.105	7.5.0	7.4.0	R4	Base Station (BS) radio transmission and reception (TDD)	Introduction of HS-SICH detection performance for 1.28Mcps TDD In order to align with Japanese radio law - Addition of Tx and Rx Spurious Emission from 7.68 Mcps TDD BS into FDD band in Japan - Clarification on the deployment of UTRA TDD in Japan
ARIB STD-T63-25.113	7.6.0	7.5.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	References to the IEC standards are updated. The new standards are referenced for Harmonic Current emissions and Voltage Fluctuations and flicker.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.123	7.4.0	7.3.0	R4	Requirements for support of radio resource management (TDD)	Following are changed for 1.28Mcps TDD option. - Correction to UE measurement reporting requirements in Annex 8
ARIB STD-T63-25.133	7.7.1	7.6.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in the release 6 (TS25.133, V6.17.0) is made.
ARIB STD-T63-25.141	7.7.0	7.6.0	R4	Base Station (BS) conformance testing (FDD)	Addition to the corresponding changes in the release 6 (TS25.141, V6.16.0), correction to spectrum emission requirements for band X, which was a CR implementation error in the former version, is made.
ARIB STD-T63-25.142	7.5.0	7.4.0	R4	Base station conformance testing (TDD)	Addition of HS-SICH detection performance test specification for 1.28Mcps TDD In order to align with Japanese radio law - Addition of Tx and Rx Spurious Emission from 7.68 Mcps TDD BS into FDD band in Japan - Clarification on the deployment of UTRA TDD in Japan
ARIB STD-T63-25.201	7.2.0	7.1.0	R1	Physical layer -General Description	Introduce MIMO functionality for HS-DSCH. Introduce discontinuous transmission and reception and HS-SCCH less functionality. Introduce 64QAM for FDD HSDPA. Introduce E-DCH for 1.28Mcps TDD.
ARIB STD-T63-25.211	7.1.0	7.0.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Add definition of transmit diversity operation and phase references when operating in MIMO mode. Add a UL DPCCH slot format to support CPC feature. Add subframe numbering of DPCCH, E-DPCCH, and E-DPDCH. Add a new HS-DSCH slot format for 64QAM. Add an STTD encoder block diagram for 64QAM.
ARIB STD-T63-25.212	7.4.0	7.3.0	R1	Multiplexing and channel coding (FDD)	Add definition of HS-SCCH coding for MIMO. Add definition of coding for uplink L1 control information on preferred precoding, channel quality and HARQ acknowledgements in support of MIMO, and add mapping

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					of this information on HS-DPCCH. Add HS-SCCH less operation and DTX/DRX at the UE. To support 64QAM for HSDPA, the following functionalities are modified: HARQ second rate matching stage, HARQ bit collection, interleaving for HS-DSCH, constellation rearrangement, and coding for HS-SCCH.
ARIB STD-T63-25.213	7.1.0	7.0.0	R1	Spreading and modulation (FDD)	Add a modulation mapper for 64QAM for HSDPA.
ARIB STD-T63-25.214	7.4.0	7.3.0	R1	Physical layer procedures (FDD)	Add definition of MIMO operation on HS-PDSCH, preferred precoding and CQI reporting procedures. Modify CQI tables to support MIMO. Add synchronisation and power control aspects of discontinuous uplink DPCCH transmission. Add operation of DTX/DRX procedures for CELL_DCH. Add details of HS-SCCH less operation and Node B procedure for transmitting HS-DSCH. It is specified that a 64QAM configured UE shall monitor all (up to four) HS-SCCHs also in the subframe following an HS-PDSCH transmission to that UE. Add CQI mapping tables for 64QAM capable UE categories.
ARIB STD-T63-25.221	7.2.0	7.1.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	Introduction of E-DCH for 1.28Mcps TDD
ARIB STD-T63-25.222	7.2.0	7.1.0	R1	Multiplexing and channel coding (TDD)	Introduction of E-DCH for 1.28Mcps TDD
ARIB STD-T63-25.223	7.3.0	7.2.0	R1	Spreading and modulation (TDD)	Introduction of E-DCH for 1.28Mcps TDD
ARIB STD-T63-25.224	7.2.0	7.1.0	R1	Physical layer procedures (TDD)	Following are changed for 1.28Mcps TDD option. - Introduction of E-DCH - Modification on the power control function of HS-SICH - Clarification of closed Loop Uplink HS-SICH Power Control

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.225	7.3.0	7.2.0	R1	Physical layer; Measurements (TDD)	Following are changed for 3.84Mcps and 7.68Mcps TDD option. - Physical layer specification of UE Power Headroom measurement Following are changed for 1.28Mcps TDD option. - Introduction of E-DCH - Modification on the HS-SICH reception quality of HS-SICH
ARIB STD-T63-25.301	7.1.0	7.0.0	R2	Radio Interface Protocol Architecture	L2 enhancements: Stage 2
ARIB STD-T63-25.302	7.3.0	7.2.0	R2	Services provided by the physical layer	- Introduction of 1.28 Mcps TDD E-DCH - Alignment of 25.302 with 25.321 and 25.331 to enable HS-DSCH operation without an associated DL DPCH for all TDD modes
ARIB STD-T63-25.306	7.3.0	7.2.0	R2	UE Radio Access capabilities	- Introduction of the new security algorithms UEA2 and UIA2 - TTI values for MCCH RB configuration - Correction of the HS-DSCH physical layer categories of 1.28Mcps TDD - Introduction of 1.28 Mcps TDD E-DCH - Introducing MIMO in UE Capability specification - Introduction of 64QAM downlink in 25.306
ARIB STD-T63-25.308	7.2.0	7.1.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	- Alignment of 25.308 with 25.302, 25.321 and 25.331 to enable HS-DSCH operation without an associated DL DPCH for all TDD modes - DL HOF CR - Introduction of MIMO

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- L2 enhancements: Stage 2 - Stage 2 updates for Enhanced CELL_FACH state in FDD
ARIB STD-T63-25.319	7.2.0	7.1.0	R2	Enhanced uplink; Overall description; Stage 2	- Introduction of 1.28Mcps TDD E-DCH - 25.319 UL HOM CR - Editorial Corrections Related to 3.84/7.68 Mcps TDD E-DCH
ARIB STD-T63-25.321	7.4.0	7.3.0	R2	MAC protocol specification	- Grant and MAC-e/es headers for E-DCH - Clarification to Maximum channelisation codes and E-TFC selection - Correction for E-DCH SG and compressed mode - SG update procedure correction - Modification of HS-DSCH TB size for LCR TDD - Introduction of 64QAM in MAC specification - Introduction of 1.28 Mcps TDD E-DCH - Editorial Corrections for 3.84/7.68 Mcps TDD E-DCH - Introduction of DTX-DRX and HS-SCCH less in MAC - Introducing MIMO in MAC specification
ARIB STD-T63-25.401	7.3.0	7.2.0	R3	UTRAN Overall Description	- Introduction of TMA - Introduction of 1.28 Mcps TDD Enhanced Uplink
ARIB STD-T63-25.420	7.3.0	7.2.0	R3	UTRAN Iur Interface: General Aspects and Principles	- Introduction of 1.28 Mcps TDD Enhanced Uplink
ARIB STD-T63-25.423	7.4.0	7.3.0	R3	UTRAN Iur interface RNSAP signalling	- Introduction of Continuous Packet Connectivity in RNSAP - HS-PDSCH code change for CPC mode - Abnormal conditions for IP Transport Option and Diversity Control field

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- Correction of the Maximum number of logical channel ID - Introduction of MIMO in RNSAP - Presence of Guaranteed Bit Rate - Introduction of 1.28 Mcps TDD Enhanced Uplink - Introduction of Downlink Higher Order Modulation in RNSAP - Correction of the procedure code ID
ARIB STD-T63-25.427	7.4.0	7.3.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Introduction of 1.28 Mcps TDD Enhanced Uplink
ARIB STD-T63-25.430	7.3.0	7.2.0	R3	UTRAN Iub Interface: General Aspects and Principles	Introduction of 1.28 Mcps TDD Enhanced Uplink
ARIB STD-T63-25.432	7.1.0	7.0.0	R3	UTRAN Iub interface signalling transport	Clarification for Client/Server functionality for SCTP in IP based Transport option
ARIB STD-T63-25.433	7.4.0	7.3.0	R3	UTRAN Iub interface NBAP signalling	- Iub transport efficiency improvement for MBMS - Introduction of Continuous Packet Connectivity in NBAP - HS-PDSCH code change for CPC mode - Abnormal conditions for IP Transport Option and Diversity Control field were added - Correction of the Maximum number of logical channel ID - Introduction of MIMO in NBAP - Introduction of 1.28 Mcps TDD Enhanced Uplink - Introduction of Downlink Higher Order Modulation in NBAP - Presence of Guaranteed Bit Rate

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.435	7.4.0	7.3.0	R3	UTRAN Iub interface user plane protocols for CCH data streams	Iub transport efficiency improvement for MBMS
ARIB STD-T63-25.453	7.6.0	7.5.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	- Presence inconsistency - UE Rx-Tx Time Difference Type 1
ARIB STD-T63-26.234	7.2.0	7.1.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Clarification of SDP rtpmap rate and audio sampling frequency signalling and upgrade of video codec requirements for PSS are carried out.
ARIB STD-T63-26.244	7.1.0	7.0.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	MIME Type Registrations for 3GP files and correction of sampling rate information are carried out.
ARIB STD-T63-26.346	7.3.0	7.2.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Essential Corrections of the Reception Reporting Procedure, hybrid PSS / MBMS Streaming services and corrections to the MBMS User Service Description Schema and FLUTE session set-up with RTSP are carried out.
ARIB STD-T63-26.411	7.2.0	7.1.0	S4	General audio codec audio processing functions; Enhanced AACPlus general audio codec; Fixed-point ANSI-C code	Bugfix for the Enhanced AACPlus fixed point arithmetic library is carried out.
ARIB STD-T63-27.007	7.3.0	7.2.0	C1	AT command set for User Equipment (UE)	Addition of preferred network in AT command
ARIB STD-T63-31.102	7.8.0	7.7.0	C6	Characteristics of the USIM Application	- Presentation of EHPLMN - Last RPLMN Selection Indication - MSK management procedures - Correction of the EHPLMN SFI - Correction of the MSK Update procedures - Clarification of the USIM behavior when MSK key is not updated

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
					- Correction of MBMS Security Context description - Correction of the references to a non-existing table in Authenticate command description - Correction of the Tables in section 7.1.2.5 - Correction of the MUK Update procedures
ARIB STD-T63-31.111	7.6.0	7.5.0	C6	USIM Application Toolkit (USAT)	Removal of re-introduced text for Call Control User indication
ARIB STD-T63-31.130	7.5.0	7.3.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card	- Correction of Annex A JAVA.zip, package uicc.usim.toolkit; - Update the reference to Java Card 2.2.2 - Clarification on getShortMessageLength() method when applied on a SMS Cell Broadcast - Correction of the USATEnvelopeHandlerSystem method prototype
ARIB STD-T63-33.107	7.5.0	7.4.0	S3	3G security; Lawful interception architecture and functions	- Stage 2 MBMS Interception - SMS IRI Reporting for WLAN Interworking
ARIB STD-T63-33.108	7.7.0	7.6.0	S3	3G security; Handover interface for Lawful Interception (LI)	SMS IRI Reporting for WLAN Interworking (33.108)
ARIB STD-T63-33.110	7.1.0	7.0.0	S3	Key establishment between a UICC and a terminal	- NAF Key Center shall authorize/administrate Terminal_appl_ID and UICC_appl_ID - Figure 4-3 misleadingly lists Ks_NAF in message 9 - Keep annex alignment with the specification text
ARIB STD-T63-33.203	7.5.0	7.4.0	S3	3G security; Access security for IP-based services	Handling of unprotected messages in IMS emergency case
ARIB STD-T63-33.220	7.7.0	7.6.0	S3	Generic Authentication Architecture (GAA);	- Key deletion method for applications

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
				Generic bootstrapping architecture	- Encode problems in HTTP digest AKA authentication between UE and BSF - GBA key names clarification - Correction of Note in Annex H - Clarification on NAF_Id coding - Clarification of mapping of GUSS to IMPIs and IMSIs
ARIB STD-T63-33.234	7.4.0	7.3.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- CR 33.234-0087 - Update Reference - Mandate the format of PDG ID - Correction and clarification of 3GPP AAA Server behavior - Correction of reference - Extension of scope of TS 33.234 - Clarification on certificate chain handling
ARIB STD-T63-33.246	7.3.0	7.2.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Allow the BM-SC to resent MTK messages without TS incrementation - Clarification on the use of the constant R - Clarification of MSK message structure - Clarification of MTK message structure - Modification to rules for MSK and MTK management on the UE - FDT protection
ARIB STD-T63-34.109	7.2.0	7.1.0	R2	Terminal logical test interface; Special conformance testing functions	Correction of max RLC SDU size
ARIB STD-T63-34.121-1	7.4.0	7.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Corrections. - New test cases related MBMS are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.20	Version at ARIB STD-T63 Ver.6.10	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121-2	7.4.0	7.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Correction to 34.121-2: Introduction of applicability for 2ms TTI E-DCH E-TFC restriction test case - Applicability of new MBMS RF and RRM test cases - Correction to 34.121-2: Introduction of FDD Band X (Extended UMTS 1.7/2.1 GHz) for transmitter and receiver characteristics test cases

1. Release 99**1.1. Added Standards**

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	3.15.0	3.14.0	R4	Base Station (BS) Radio transmission and reception (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-25.142	3.15.0	3.14.0	R4	Base station (BS) conformance testing (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-31.111	3.14.0	3.13.0	C6	USIM Application Toolkit (USAT)	Correction of reference to ISO/IEC 7816-3

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	4.10.0	4.9.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-25.142	4.12.0	4.11.0	R4	Base station (BS) conformance testing (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-31.111	4.16.0	4.15.0	C6	USIM Application Toolkit (USAT)	Correction of reference to ISO/IEC 7816-3

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	5.14.0	5.13.0	S1	Service aspects; Service principles	Change the “MCC+MNC combination and optionally the LAI” text to “MCC+MNC combination” in Annex A.4
ARIB STD-T63-25.102	5.11.0	5.10.0	R4	UE Radio transmission and reception (TDD)	Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-FRC - Performance requirements for fixed reference channel is updated according to the simulation results in R4-070654. - Fixed reference channels are defined in Annex A.3.2. Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-VRC - Performance requirements for variable reference channel is defined for different UE categories. Updated of HSDPA CQI reporting requirements for 1.28Mcps TDD - UE CQI reporting is defined for different UE categories.
ARIB STD-T63-25.105	5.8.0	5.7.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	5.14.0	5.13.0	R4	Base station (BS) conformance testing (FDD)	References in Table 6.25 and 6.36, that are for Cat B spurious emissions reference, and references table 6.6.A, that are for Test model 5, are corrected.
ARIB STD-T63-25.142	5.10.0	5.9.0	R4	Base station (BS) conformance testing (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-31.103	5.13.1	5.12.0	C6	Characteristics of the ISIM Application	Correction of coding of home network domain name in EF-DOMAIN
ARIB STD-T63-31.111	5.11.0	5.10.0	C6	USIM Application Toolkit (USAT)	Correction of reference to ISO/IEC 7816-3
ARIB STD-T63-34.229-3	5.1.0	5.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	One CR was applied: CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.7.0	6.6.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.101	6.12.0	6.11.0	S1	Service aspects; Service principles	Change the “MCC+MNC combination and optionally the LAI” text to “MCC+MNC combination” in Annex A.4
ARIB STD-T63-25.102	6.8.0	6.7.0	R4	UE Radio transmission and reception (TDD)	Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-FRC - Performance requirements for fixed reference channel is defined according to the simulation results in R4-070654. - Fixed reference channels are defined in Annex A.3.2. Updated of HSDPA CQI reporting requirements for 1.28Mcps TDD - UE CQI reporting is defined for different UE categories. Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-VRC - Performance requirements for variable reference channel is defined for different UE categories.
ARIB STD-T63-25.105	6.5.0	6.4.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-25.133	6.18.0	6.17.0	R4	Requirements for support of radio resource management (FDD)	Correction of test case for inter system handover for UTRAN FDD to GSM is made.
ARIB STD-T63-25.141	6.17.0	6.16.0	R4	Base station (BS) conformance testing (FDD)	Corresponding changes in release 5 (V5.14.0) are made.
ARIB STD-T63-25.142	6.7.0	6.6.0	R4	Base station (BS) conformance testing (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted.
ARIB STD-T63-25.306	6.11.0	6.10.0	R2	UE Radio Access capabilities	Support of RFC 3095 (ROHC) Compression
ARIB STD-T63-25.321	6.13.0	6.12.0	R2	MAC protocol specification	- Recommendation on RLC PDU size selection on E-DCH - Clarification on calculation of "Scheduled Grant Payload" - Clarifications on priority of requirements in E-TFC selection
ARIB STD-T63-25.423	6.14.0	6.13.0	R3	UTRAN Iur interface RNSAP signalling	Correction of wrong description for E-DCH HARQ process allocation for 2ms TTI
ARIB STD-T63-25.433	6.14.0	6.13.0	R3	UTRAN Iub interface NBAP signalling	- Correction of wrong description for E-DCH HARQ process allocation for 2ms TTI - Modification on the range of Measurement Value for HS-SICH reception quality in LCR TDD - Further clarification on application of the HS-SICH SIR Target IE - Further correction of HS-DSCH information for LCR TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.234	6.11.0	6.10.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Correction of references in PSS is carried out.
ARIB STD-T63-26.244	6.7.0	6.6.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Correction of references in the 3GP file format is carried out.
ARIB STD-T63-26.346	6.9.0	6.8.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction of references in MBMS and correction of HTTP Response Error Codes are carried out.
ARIB STD-T63-27.007	6.9.0	6.8.0	C1	AT command set for User Equipment (UE)	- Correction for AT-commands +CEAP, +CERP and +CUAD - Extension of AT-command +CEAP
ARIB STD-T63-28.062	6.4.0	6.3.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Correction of generic configuration frames definition
ARIB STD-T63-31.102	6.18.1	6.17.0	C6	Characteristics of the USIM Application	GBA NAF Keys and MUKs storage policy
ARIB STD-T63-31.103	6.12.1	6.11.0	C6	Characteristics of the ISIM Application	- Correction of coding of home network domain name in EF-DOMAIN - HTTP-Digest security request - GBA NAF Keys storage policy
ARIB STD-T63-31.124	6.9.0	6.8.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of test case applicability for 27.22.6.1 - Essential correction on 27.22.8 - Correction of reference to ISO/IEC 7816-3 - Essential correction of test case applicability - Essential correction on 27.22.5.1 - Essential correction on 27.22.4.11.1 sequence. 1.4 B

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					- Correction of 27.22.4.2 applicability
ARIB STD-T63-31.130	6.6.0	6.5.0	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card™	Correction of references to ETSI TS 102 223 and ETSI TS 102 221
ARIB STD-T63-33.220	6.13.0	6.12.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	GBA NAF Keys storage policy in the UICC
ARIB STD-T63-33.221	6.4.0	6.3.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Removal of editors note
ARIB STD-T63-33.246	6.11.0	6.10.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Mandating the support of MIKEY-RAND length of 128 bit - Adding missing requirements about PDP context and IP address handling for ptp key management - Adding a missing interworking scenario - Fixed cs_id for MIKEY PRF in case of download key derivation - MUKs storage policy in the USIM and GBA NAF Key availability
ARIB STD-T63-34.123-1	6.7.0	6.6.0	R5	UE conformance specification; Part 1: Protocol conformance specification	Many corrections to MBMS, WI-25 test cases, ..etc..
ARIB STD-T63-34.123-2	6.7.0	6.6.0	R5	UE conformance specification; Part 2: ICS proforma specification	Changes related to 34.123-1
ARIB STD-T63-34.123-3	6.3.0	6.2.0	R5	UE conformance specification; Part 3: Abstract test suites (ATSSs)	- Many corrections. - Test cases for WI-25, WI-47, WB-AMR, ..etc. are added.
ARIB STD-T63-34.171	6.6.0	6.5.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Change to Pass/Fail criteria for Moving Scenario test case 5.6

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-34.229-1	6.2.0	6.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Mainly corrections. - New TC MO/MT Call (no resource reservation, preconditions used) were introduced.
ARIB STD-T63-34.229-2	6.2.0	6.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Applicability of IMS TC 13.4 - Coding options for the IPv4 address in PCO IE - Applicability of Call Control TCs

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.001	7.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Updated from Rel-6 to Rel-7 The present document covers the definition of the circuit telecommunication services supported by a PLMN. The purpose of the present document is to provide a method for the characterization and the description of these telecommunication services.
ARIB STD-T63-22.002	7.0.0		S1	Circuit Bearer Services Supported by a PLMN	Updated from Rel-6 to Rel-7 The present document defines a set of Circuit Bearer Services to be provided to PLMN subscribers by a PLMN itself and in connection with other networks. This TS should also be used as a reference for defining the corresponding required mobile network capabilities.
ARIB STD-T63-22.022	7.0.0		S3	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	This TS provides functional specifications of five features to personalise Mobile Equipment (ME) for GSM and 3G systems. These features are called: - Network personalisation; - Network subset personalisation; - Service Provider (SP) personalisation; - Corporate personalisation; - SIM/USIM personalisation (SIM for GSM systems or USIM for 3G systems). This TS also specifies requirements for MEs which provide

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
					these personalisation features.
ARIB STD-T63-22.031	7.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	- This TS specifies the stage 1 description of the Fraud Information Gathering System (FIGS) feature which provides the means for the HPLMN to monitor the activities of its subscribers in a VPLMN. - The purpose of this network feature is to enable the HPLMN to monitor the activities of its subscribers while they are roaming. The VPLMN collects information about a defined set of activities on monitored subscribers and sends this information back to the HPLMN. This enables the HPLMN to clear certain types of calls and so stop fraudulent use of the GSM system. - This TS enables service providers/ network operators to use FIGS, and service limitation controls such as Operator Determined Barring (ODB) and Immediate Service Termination (IST), to limit their financial exposure to subscribers producing large unpaid bills. - HPLMNs may also choose to monitor the activities of its subscribers within the HPLMN.
ARIB STD-T63-22.032	7.0.0		S1	Immediate Service Termination (IST); Service description; Stage1	Upgrade to Rel-7 This Technical Specification specifies the stage 1 description of the Immediate Service Termination (IST) service which provides the means for the HPLMN to terminate all the activities of an HPLMN subscriber in a VPLMN.
ARIB STD-T63-22.034	7.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Upgraded unchanged from Rel-6 The present document specifies the Stage 1 description of

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
					High Speed Circuit Switched Data (HSCSD).
ARIB STD-T63-22.053	7.0.0		S4	Tandem Free Operation(TFO);Service description;Stage1	Upgraded unchanged from Rel-6
ARIB STD-T63-22.057	7.0.0		S1	Mobile Execution Environment (MExE); Service description; Stage 1	Updated from Rel-6 to Rel-7 This TS defines the stage one description of the Mobile Execution Environment (MExE).
ARIB STD-T63-22.076	7.0.0		S4	Noise Suppression for the AMR Codec; Service description; Stage 1	Upgraded unchanged from Rel-6
ARIB STD-T63-22.112	7.0.0		C6	USIM toolkit interpreter; Stage 1	Upgraded unchanged from Rel-6
ARIB STD-T63-22.140	7.0.0		S1	Multimedia Messaging Service (MMS); Stage 1	Updated from Rel-6 to Rel-7 This Technical Specification defines the stage one description of the non real-time Multimedia Messaging Service, MMS.
ARIB STD-T63-22.174	7.0.0		S1	Push service; Stage 1	Updated from Rel-6 to Rel-7 This Technical Specification defines the Stage 1 description of the Push Service and is the set of requirements that shall be supported for the provision of push, seen primarily from the subscriber's, service providers' and delivery network points of view.
ARIB STD-T63-22.242	7.0.0		S1	Digital Rights Management (DRM); Stage 1	Upgraded unchanged from Rel-6
ARIB STD-T63-23.035	7.0.0		S3	Immediate Service Termination (IST); Stage2	- This TS specifies the stage 2 description of the Immediate Service Termination (IST) service which provides the means for the HPLMN to terminate all the activities of an HPLMN subscriber in a VPLMN. - Two implementations of IST are described: an

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
					implementation based on CAMEL, and an implementation based on a new MAP message.
ARIB STD-T63-23.042	7.0.0		C1	Compression algorithm for SMS	Upgraded unchanged from Rel-6
ARIB STD-T63-23.053	7.0.0		S4	Tandem Free Operation (TFO); Service description; Stage 2	Upgraded unchanged from Rel-6
ARIB STD-T63-23.057	7.0.0		S2	Mobile Execution Environment (MexE) Functional description Stage 2	- The present document defines the stage 2 and stage 3 description of the Mobile Execution Environment (MExE). Stage 2 identifies the functional capabilities and information flows needed to support the service described in stage 1. - The present document includes information applicable to network operators, service providers and terminal, switch and database manufacturers. - The present document contains the core functions for a Mobile Execution Environment (MExE) which are sufficient to provide a complete service.
ARIB STD-T63-23.107	7.0.0		S2	Quality of Service (QoS) concept and architecture	The present document provides the framework for Quality of Service within the 3GPP system. The main purpose is to specify the list of attributes applicable to the UMTS Bearer Service and the Radio Access Bearer Service, as well as describe the Quality of Service architecture to be used in the 3GPP system.
ARIB STD-T63-23.207	7.0.0		S2	End to end quality of service (Qos) concept and architecture	- The present document provides the framework for end-to-end Quality of Service involving GPRS and complements TS23.107 which describes the framework for Quality of Service within UMTS. The end-to-end QoS architecture is provided in Figure 1. The document describes the interaction between the TE/MT Local Bearer Service, the GPRS Bearer Service, and the External Bearer Service, and how these together provide Quality of Service for the End-to-End Service. The document also describes IP level

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
					mechanisms necessary in providing end-to-end Quality of Service involving GPRS networks, including possible interaction between the IP level and the GPRS level, as well as the application level and the IP level. - In contrast to the TS23.107, the present document is only applicable to GPRS packet switched access services, and includes aspects of interworking to the IM subsystem as well as PSTN and other networks. The document does not cover the circuit switched access services.
ARIB STD-T63-25.144	7.0.0		R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	The document is newly established which specifies Over the Air antenna minimum requirements for User Equipment (UE) and Mobile Station (MS). The requirements are defined for a speech position (beside the head).
ARIB STD-T63-25.202	7.1.0		R1	7.68Mcps Time Division Duplex (TDD) option ; Overall description: Stage 2	Modified Introduction of E-DCH for 7.68Mcps TDD - The features of E-DCH operation at 7.68Mcps are introduced to the specification
ARIB STD-T63-26.071	7.0.0		S4	AMR speech Codec; General description	Upgraded unchanged from Rel-6
ARIB STD-T63-26.073	7.0.0		S4	AMR speech Codec; C-source code	- Rel-7 version is created from Rel-6 - Bit order of Mode Indication in AMR comfort noise frames
ARIB STD-T63-26.074	7.0.0		S4	AMR speech Codec; Test sequences	Upgraded unchanged from Rel-6
ARIB STD-T63-26.077	7.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encode	Upgraded unchanged from Rel-6
ARIB STD-T63-26.090	7.0.0		S4	AMR speech Codec; Transcoding Functions	Upgraded unchanged from Rel-6
ARIB STD-T63-26.091	7.0.0		S4	AMR speech Codec; Error concealment of lost frames	Upgraded unchanged from Rel-6

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.092	7.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Upgraded unchanged from Rel-6
ARIB STD-T63-26.093	7.0.0		S4	Mandatory speech codec speech processing functions; AMR speech Codec; Source Controlled Rate operation	Upgraded unchanged from Rel-6
ARIB STD-T63-26.094	7.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-6
ARIB STD-T63-26.101	7.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	Upgraded unchanged from Rel-6
ARIB STD-T63-26.103	7.0.0		S4	Speech codec list for GSM and UMTS	Upgraded unchanged from Rel-6
ARIB STD-T63-26.104	7.0.0		S4	ANSI-C code for the floating-point AMR speech codec	- Upgraded from Rel-6 - Bit order of Mode Indication in AMR comfort noise frames
ARIB STD-T63-26.110	7.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Descriptio	Upgraded unchanged from Rel-6
ARIB STD-T63-26.111	7.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Upgraded unchanged from Rel-6
ARIB STD-T63-26.115	7.0.0		S4	Echo Control for Speech and Multi-media Services	Upgraded unchanged from Rel-6
ARIB STD-T63-26.131	7.0.0		S4	Terminal acoustic characteristics for telephony; Requirements	Upgraded unchanged from Rel-6
ARIB STD-T63-26.132	7.0.0		S4	Speech and video telephony terminal acoustic test specification	Upgraded unchanged from Rel-6

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.142	7.0.0		S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Rel-7 version is created.
ARIB STD-T63-26.174	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	Upgraded unchanged from Rel-6
ARIB STD-T63-26.177	7.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	Upgraded unchanged from Rel-6
ARIB STD-T63-26.190	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	Upgraded unchanged from Rel-6
ARIB STD-T63-26.191	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	Upgraded unchanged from Rel-6
ARIB STD-T63-26.192	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	Upgraded unchanged from Rel-6
ARIB STD-T63-26.193	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	Upgraded unchanged from Rel-6
ARIB STD-T63-26.194	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-6
ARIB STD-T63-26.201	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB)	Upgraded unchanged from Rel-6

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
				speech codec; Frame structure	
ARIB STD-T63-26.202	7.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to lu, Uu and Nb	Upgraded unchanged from Rel-6
ARIB STD-T63-26.226	7.0.0		S4	Cellular Text telephone Modem General Description	Upgraded unchanged from Rel-6
ARIB STD-T63-26.230	7.0.0		S4	Cellular Text Telephone Modem transmitter Bit Exact C-code	Upgraded unchanged from Rel-6
ARIB STD-T63-26.231	7.0.0		S4	Cellular Text telephone Modem; Minimum performance requirements	Upgraded unchanged from Rel-6
ARIB STD-T63-26.233	7.0.0		S4	End-to-end transparent streaming service; General description	Upgraded unchanged from Rel-6
ARIB STD-T63-26.243	7.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front- end	Upgraded unchanged from Rel-6
ARIB STD-T63-26.245	7.0.0		S4	Transparent end-to-end Packet witched Streaming Service (PSS); Timed text format	Upgraded unchanged from Rel-6
ARIB STD-T63-26.246	7.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Upgraded unchanged from Rel-6
ARIB STD-T63-26.274	7.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Upgraded unchanged from Rel-6

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.402	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Upgraded unchanged from Rel-6
ARIB STD-T63-26.404	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	Upgraded unchanged from Rel-6
ARIB STD-T63-26.405	7.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Upgraded unchanged from Rel-6
ARIB STD-T63-26.412	7.0.0		S4	General audio codec audio processing functions; Source code for 3GP file format	Upgraded unchanged from Rel-6
ARIB STD-T63-27.010	7.0.0		C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Upgraded unchanged from Rel-6
ARIB STD-T63-28.062	7.0.0		S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Upgraded unchanged from Rel-6
ARIB STD-T63-29.140	7.0.0		C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	Upgraded unchanged from Rel-6
ARIB STD-T63-31.101	7.0.1		C6	UICC-Terminal Interface; Physical and Logical Characteristics	Introduction of the new High Speed ME-UICC Interface
ARIB STD-T63-31.112	7.0.0		C6	USAT Interpreter Architecture Description; Stage 2	Upgraded unchanged from Rel-6
ARIB STD-T63-31.113	7.0.0		C6	USAT interpreter byte codes	Upgraded unchanged from Rel-6

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.114	7.0.0		C6	USAT interpreter protocol and administration	Upgraded unchanged from Rel-6
ARIB STD-T63-31.116	7.0.0		C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction of the reference to ETSI TS 102 226
ARIB STD-T63-31.120	7.0.0		C6	UICC-terminal interface; Physical, electrical and logical test specification	Upgraded unchanged from Rel-6
ARIB STD-T63-31.121	7.0.0		C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Upgraded unchanged from Rel-6
ARIB STD-T63-31.122	7.0.0		C6	USIM conformance test specification	Upgraded unchanged from Rel-6
ARIB STD-T63-31.124	7.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Upgraded unchanged from Rel-6
ARIB STD-T63-31.131	7.0.0		C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	Upgraded unchanged from Rel-6
ARIB STD-T63-31.213	7.0.0		C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	Upgraded unchanged from Rel-6
ARIB STD-T63-33.105	7.0.0		S3	Cryptographic algorithm requirements	- This TS constitutes a requirements specification for the security functions which may be used to provide the network access security features defined in TS33.102. - The specification covers the intended use of the functions, the technical requirements on the functions and the requirements as regards standardization. - For those functions that require standardization, it also

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
					covers the intended use of the algorithm specification, the requirements on test data, and quality assurance requirements on both the algorithm and its documentation.
ARIB STD-T63-33.221	7.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	- This TS describes subscriber certificate distribution by means of generic bootstrapping architecture (GBA) TS 33.220. Subscriber certificates support services whose provision the mobile operator assists, as well as services that are offered by the mobile operator. - The scope of this specification presents signalling procedures for support of issuing certificates to subscribers and the standard format of certificates and digital signatures. It is not intended to duplicate existing standards being developed by other groups on these topics, and will reference these where appropriate.
ARIB STD-T63-33.259	7.0.0		S3	Key establishment between a UICC hosting device and a remote device	- The need to establish a secure channel between a UICC Hosting Device and a Remote Device connected via a local interface has been identified by the Personal Network Management work (see TS 22.259), in order to protect the communication between the UICC Hosting Device and the Remote Device. - This TS describes key establishment between a UICC Hosting Device and a Remote Device.
ARIB STD-T63-34.123-1	7.0.0		R5	UE conformance specification;Part 1: Protocol conformance specification	Derived from v6.7.0
ARIB STD-T63-34.123-2	7.0.0		R5	UE conformance specification;Part 2: ICS proforma specification	Derived from v6.7.0
ARIB STD-T63-34.131	7.0.0		C6	Test specification for C-language binding for (U)SIM API	Upgraded unchanged from Rel-6
ARIB STD-T63-34.171	7.0.1		R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS);	Derived from v6.6.0 and

Added Standard Number	Version at ARIB STD-T63 Ver.6.30		3GPP WG	Title	New Document Summary
				Frequency Division Duplex (FDD)	Completion of previous entry in history table (7.0.0 -> 7.0.1)
ARIB STD-T63-35.201	7.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	This specification has been prepared by the 3GPP Task Force, and gives a detailed specification of the 3GPP confidentiality algorithm f8 , and the 3GPP integrity algorithm f9 .
ARIB STD-T63-35.202	7.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	This specification has been prepared by the 3GPP Task Force, and gives a detailed specification of the 3GPP Algorithm KASUMI. KASUMI is a block cipher that forms the heart of the 3GPP confidentiality algorithm f8 , and the 3GPP integrity algorithm f9 .
ARIB STD-T63-35.203	7.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	This specification has been prepared by the 3GPP Task Force, and gives detailed test data for implementors of the algorithm set (3GPP Algorithm KASUMI, 3GPP confidentiality algorithm f8 , and 3GPP integrity algorithm f9). It provides visibility of the internal state of the algorithm to aid in the realisation of the algorithms.
ARIB STD-T63-35.204	7.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	This specification has been prepared by the 3GPP Task Force, and gives black-box test data for the algorithm set (3GPP Algorithm KASUMI, 3GPP confidentiality algorithm f8 , and 3GPP integrity algorithm f9). The test data has been selected to give a high degree of confidence that the implementation is correct. However, no claim is made that conformance with this test data guarantees a correct implementation.

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-22.016	7.0.1	7.0.0	S1	International Mobile Equipment Identities (IMEI)	Corrects typo on cover
ARIB STD-T63-22.101	7.9.0	7.8.0	S1	Service aspects; Service principles	- Change the “MCC+MNC combination and optionally the LAI” text to “MCC+MNC combination” in Annex A.4 - Section 13.2.2 from TS 22.101 rel-8 on "Fast Access and Retrieval of Data from UICC" is included in release 7 as a new section.
ARIB STD-T63-22.246	7.3.0	7.2.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	- Hanging paragraph is removed by adding a “5.0 General” - The words “service classes” are replaced with “service class values”.
ARIB STD-T63-23.203	7.3.0	7.2.0	S2	Policy and charging control architecture	The following items are added. - Alignment of Rx interaction for GW and PCRF initiated IP-CAN modifications - 23.203 CR0035: Corrections to definitions - Information on co-existence between rel-6 and rel-7 policy control - Support for Authorization Token within Release 7 PCC - Loss and recovery of bearer - Precedence of PCC rules - Removal of editor’s notes
ARIB STD-T63-23.204	7.3.0	7.2.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	The following items are added. - Rearrangement for the SMS MT delivery procedure - Removal of the editor’s note on IP-SM-GW timer - Corrections on interfaces between the IP-SM-GW and the

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					HSS
ARIB STD-T63-23.206	7.3.0	7.2.0	S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	The following items are added. - Clarification on operator policy regarding domain transfer in presence of a held/waiting call/session - Clarifications to text on Call Forwarding/CAMEL for Supp Servs behaviour - Correction to Informative Annex C to remove an invalid implementation option - Removal of Editor's note in section 5.3.1.2.1 - Removal of Editor's note in section 6.5.3
ARIB STD-T63-23.228	7.8.0	7.7.0	S2	IP Multimedia Subsystem(IMS); Stage 2	The following items are added. - Clarification of ICSI usage for multimedia telephony - Support for IP-CANs working on NW-only Bearer Establishment Mode - Establishment of dedicated PDP Context for IMS related signalling - Clarification on Identifying Alias Identities
ARIB STD-T63-25.101	7.8.0	7.7.0	R4	UE Radio transmission and reception (FDD)	Correction of Transmitter Spurious emission requirement for Band VIII is made. DL demodulation requirements for 64-QAM is introduced. HS-SCCH-less demodulation requirements for CPC(Continuous packet connectivity) is introduced. Transmit off power and transmit on/off time mask requirements for CPC is also introduced.
ARIB STD-T63-25.102	7.7.0	7.6.0	R4	UE Radio transmission and reception (TDD)	Updated of HSDPA CQI reporting requirements for 1.28Mcps TDD - UE CQI reporting is defined for different UE categories. Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-FRC

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					- Performance requirements for fixed reference channel is defined according to the simulation results in R4-070654. - Fixed reference channels are defined in Annex A.3.2. Updated of HSDPA demodulation performance requirements for 1.28Mcps TDD-VRC - Performance requirements for variable reference channel is defined for different UE categories.
ARIB STD-T63-25.104	7.7.0	7.6.0	R4	Base Station (BS) radio transmission and reception (FDD)	Category B spurious emissions requirements are corrected BS performance requirements for high speed train scenario is introduced. Relative Code Domain Error requirements for 64QAM modulated codes are newly introduced.
ARIB STD-T63-25.105	7.6.0	7.5.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted. Added the E-DCH performance requirement for 1.28Mcps TDD option - Adding the test parameters, minimum requirements and reference measurement channels of E-DCH for 1.28Mcps TDD option.
ARIB STD-T63-25.123	7.5.0	7.4.0	R4	Requirements for support of radio resource management (TDD)	MBSFN Cluster Selection/Reselection - New sections 4.3 and 4.4 are added for MBSFN Cluster Selection/Reselection. - MBSFN abbreviation is added and the term “MBSFN Cluster” is defined in line with 25.304. Requirements for non-HSDPA and non-EDCH transmitter

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					carrier power(1.28Mcps Option) - Title is changed to align it with RAN1 definition in TS 25.225 - Reported vale and measured quality values are changed to align with RAN1 and RAN3 specifications
ARIB STD-T63-25.133	7.8.0	7.7.1	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in release 6 (V6.18.0) are made. Intra frequency MTCH interruption time requirements are corrected.
ARIB STD-T63-25.141	7.8.0	7.7.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in release 6 (V6.17.0) are made. Relative Code Domain Error requirements for 64QAM modulated codes are newly introduced. The time constraint of the F-DPCH time alignment in soft hand over case is removed. New sections for MBSFN Cluster Selection/Reselection are introduced.
ARIB STD-T63-25.142	7.6.0	7.5.0	R4	Base station (BS) conformance testing (TDD)	Modified category B spurious emission limits for UTRA TDD BS - The -15 dBm limit is applied in the spurious domain over the whole operating band, plus in 10 MHz on each side. - The spurious emission limit inside the operating band is independent of both the carrier bandwidth(s) and the number of carriers transmitted. Added the E-DCH performance requirement for 1.28Mcps TDD option - Adding the test parameters,minimum requirements and reference measurement channels of E-DCH for 1.28Mcps TDD option.
ARIB STD-T63-25.201	7.3.0	7.2.0	R1	Physical layer -General Description	16QAM is applicable to MBSFN FACH transmission and FDD HSUPA
ARIB STD-T63-25.211	7.2.0	7.1.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Add new slot formats for Secondary CCPCH exploiting 16QAM. Add two new E-DPDCH slot formats for 4PAM.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					Introduced PICH to HS-SCCH timing relation and Tx diversity definition for HS-DSCH without associated DL dedicated channel.
ARIB STD-T63-25.212	7.5.0	7.4.0	R1	Multiplexing and channel coding (FDD)	Add 2 nd interleaving for S-CCPCH with 16QAM modulated data bits. Add TFCI mapping on S-CCPCH with 16QAM slot formats. Also modify several functions to introduce 16QAM for HSUPA. Specify HS-SCCH puncturing patterns and coding of HS-SCCH orders in MIMO mode. Correct HS-SCCH coding for MIMO.
ARIB STD-T63-25.213	7.2.0	7.1.0	R1	Spreading and modulation (FDD)	Add text that if cells are part of SFN operations. Add a modulation mapper for 4PAM for HSUPA. Add a new quantized amplitude value of HS-DPCCH for MIMO operation.
ARIB STD-T63-25.214	7.5.0	7.4.0	R1	Physical layer procedures (FDD)	Add a new subclause that outline radio frame timing on MBSFN. Clarify the power offset between CPICH and S-CCPCH with 16QAM. Setting of the uplink E-DPCCH and E-DPDCH beta gain factors were updated for 16QAM. Clarify some issues for discontinuous uplink transmission and discontinuous downlink reception operations. Remove the constraint of the F-DPCH time alignment. Change in power control timing for F-DPCH. Modify HS-DSCH-related procedures to support enhanced CELL_FACH procedures. Define HS-DPCCH amplitude ratio for CQI for MIMO.
ARIB STD-T63-25.215	7.2.0	7.1.0	R1	Physical layer; Measurements (FDD)	Clarify UE measurement definitions for RX diversity.
ARIB STD-T63-25.221	7.3.0	7.2.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	Support for MBSFN operation - Introduction of new burst type (burst type 4). - Midamble lengths of 320 chips (3.84Mcps) and 640 chips (7.68Mcps) are introduced. - SF1 spreading for MBSFN S-CCPCH is introduced. - Transmit diversity modes applicable to MBSFN operation

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					are defined. Support for LCR TDD MBSFN operation - Addition of time slot format using 16QAM modulation scheme for MBSFN time slot; - Introduction of common midamble allocation for MBSFN operation; - Introduction of spreading factor 1 for MBSFN time slot; - Introduction of frame structure example for DL dedicated MBSFN carrier Addition of spreading factor 2 for MBSFN time slot for 1.28Mcps TDD - Spreading factor 2 is added in addition to SF1 and SF16 for dedicated MBSFN frequency
ARIB STD-T63-25.222	7.3.0	7.2.0	R1	Multiplexing and channel coding (TDD)	Support for MBSFN operation - BCH supports rate 1/3 Turbo coding for an MBSFN downlink only cell. MBSFN FACH supports rate 1/3 Turbo coding only. Modification on HARQ process ID signalling for 1.28Mcps TDD - The number of bits of HARQ process ID is reduced from 3 bits to 2 bits. And the number of bits of E-TFCI is changed from 5 bits to 6 bits. Addition of spreading factor 2 for MBSFN time slot for 1.28Mcps TDD.
ARIB STD-T63-25.223	7.4.0	7.3.0	R1	Spreading and modulation (TDD)	Support for MBSFN operation - 16QAM modulation is applicable to MBSFN FACH. Support for 1.28Mcps TDD MBSFN operation - 16QAM modulation is applicable to MBSFN FACH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.224	7.3.0	7.2.0	R1	Physical layer procedures (TDD)	Support for MBSFN operation - SCTD is not applicable to beacon channels when those beacon channels are operating in an MBSFN mode. Support for 1.28Mcps TDD MBSFN operation - Introduction of common scrambling code and basic midamble not on cell-specific level for MBSFN operation as a separation from conventional cell search.
ARIB STD-T63-25.301	7.2.0	7.1.0	R2	Radio Interface Protocol Architecture	- Introduction of Enhanced CELL_FACH state in FDD - Correction to the Introduction of Improved L2 support for high data rates
ARIB STD-T63-25.302	7.4.0	7.3.0	R2	Services provided by the physical layer	Introduction of Enhanced CELL_FACH state in FDD
ARIB STD-T63-25.304	7.2.0	7.1.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	- Introduction of HS-DSCH operation in CELL_FACH state - S-CCPCH and PCH channel selection for Band IV or Band IX or Band X - PLMN selection ping-pong control - MBMS FDD and TDD Physical Layer Improvements
ARIB STD-T63-25.306	7.4.0	7.3.0	R2	UE Radio Access capabilities	- Introducing 16QAM uplink support - Introduction of GAN PS handover - Support of RFC 3095 (ROHC) Compression - MBMS FDD and TDD Physical Layer Improvements - GANSS support to UE capabilities - UE capabilities for HS-DSCH reception in CELL_PCH, URA_PCH and CELL_FACH states
ARIB STD-T63-25.308	7.3.0	7.2.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	- Measurement reporting, state transitions, and DRX in enhanced CELL_FACH state

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					- Removing an incomplete optimization for RLC operations during HSDPA cell change
ARIB STD-T63-25.321	7.5.0	7.4.0	R2	MAC protocol specification	- Introducing 16QAM uplink support - “Maximum_Serving_Grant” setting at TTI change - Introduction of Improved L2 support for high data rates and Enhanced CELL_FACH state - Removing an incomplete optimization for RLC operations during HSDPA cell change - Clarification for control of E-RUCCH transmission in LCR TDD - Some Small Editorial Corrections to TS 25.321 - Introduction of E-TFC Selection for 1.28Mcps TDD - Some clarifications related to E-DCH Scheduling Information in TDD mode - Clarification on calculation of “Scheduled Grant Payload” - Recommendation on RLC PDU size selection on E-DCH - Clarifications on priority of requirements in E-TFC selection
ARIB STD-T63-25.401	7.4.0	7.3.0	R3	UTRAN Overall Description	Introduction of Enhanced Cell_FACH state feature
ARIB STD-T63-25.402	7.3.0	7.2.0	R3	Synchronisation in UTRAN Stage 2	- Introduction of MBMS SFN (TDD) - Introduction of MBMS SFN (FDD) - Introduction of MBMS LCR TDD physical layer enhancements
ARIB STD-T63-25.423	7.5.0	7.4.0	R3	UTRAN Iur interface RNSAP signalling	- Support of higher bitrates and Flexible RLC PDU size on HS-DSCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					- Introduction of Uplink Higher Order Modulation in RNSAP - Introduction of Extended RNC-ID - Introduction of Enhanced Cell_FACH state feature - Support of F-DPCH Enhancement - Introducing a new value E-DCH TTI 2ms not supported in the Cause IE - Added a missing value MIMO not supported in the Cause IE - Correction of wrong description for E-DCH HARQ process allocation for 2ms TTI - Abnormal condition for Uni-direction DCH Indicator - Alignment of UE DTX long preamble IE in RNSAP/NBAP with RRC - Introduction of missing cause values for MIMO - Introduction of missing cause values for CPC - Correction to definition of Power Resource Related Information (TDD only) - Inconsistencies between tabular description and ASN.1 definition with regard to the use of the TNL QoS, Traffic Class and BLER IEs - Introduction of GANSS (Galileo and Additional Navigation Systems) in RNSAP - Max UE DTX Cycle Signalling Support for CPC operation - Some minor corrections for 1.28 Mcps TDD E-DCH - Modification on the non-scheduled transmission for 1.28 Mcps TDD E-DCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.425	7.4.0	7.3.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Support of higher bitrates and Flexible RLC PDU size on HS-DSCH and introduction of FSN/DRT Res
ARIB STD-T63-25.430	7.4.0	7.3.0	R3	UTRAN Iub Interface: General Aspects and Principles	Transport bearer sharing for FACHs
ARIB STD-T63-25.433	7.5.0	7.4.0	R3	UTRAN Iub interface NBAP signalling	- Support of higher bitrates and Flexible RLC PDU size on HS-DSCH - Introduction of Uplink Higher Order Modulation in NBAP - Introduction of Enhanced Cell_FACH state feature - Support of F-DPCH Enhancement - Introduction of MBMS SFN (TDD) - Introduction of MBMS SFN (FDD) - The introduction of MBMS capability indicator - Correction of wrong description for E-DCH HARQ process allocation for 2ms TT - Abnormal condition for Unidirection DCH Indicator - Modification on the range of Measurement Value for HS-SICH reception quality in LCR TDD - Further clarification on application of the HS-SICH SIR Target IE - Further correction of HS-DSCH information for LCR TDD - Introduction of MBMS LCR TDD physical layer enhancements - Alignment of UE DTX long preamble IE in RNSAP/NBAP with RRC - Introduction of missing cause values for MIMO

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					- Introduction of missing cause values for CPC - Correction to definition of Power Resource Related Information (TDD only) - Alignment of LCR TDD IEs tabular description with ASN.1 definition - Introduction of GANSS (Galileo and Additional Navigation Systems) in NBAP - Max UE DTX Cycle Signaling Support for CPC operation - Some minor corrections for 1.28 Mcps TDD E-DCH - Modification on the non-scheduled transmission and the UL interference control for 1.28 Mcps TDD E-DCH - Introduction of Extended RNC-ID
ARIB STD-T63-25.435	7.5.0	7.4.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Support of higher bitrates and Flexible RLC PDU size on HS-DSCH and introduction of FSN/DRT Reset
ARIB STD-T63-25.453	7.7.0	7.6.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	- Support for additional measurements in Cell-ID positioning method and Information Exchange - Introduction of GANSS (Galileo and Additional Navigation Systems) in PCAP - Introduction of Extended RNC-ID
ARIB STD-T63-26.114	7.1.0	7.0.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Improved Video support for MTSI is added.
ARIB STD-T63-26.140	7.1.0	7.0.0	S4	Multimedia Messaging Service (MMS); Media formats and codes	Inclusion of DIMS in MMS
ARIB STD-T63-26.234	7.3.0	7.2.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	PSSE QoE negotiation modifications are added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.244	7.2.0	7.1.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Correction of references in the 3GP file format and inclusion of DIMS in the 3GP file format are carried out.
ARIB STD-T63-26.346	7.4.0	7.3.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction of termination of unicast bearer service based services, Correction of references in MBMS, Inclusion of DIMS in MBMS, Signalling of Initial Buffering Period, MBMS download service delivery to UEs in roaming condition, Scalability extensions for unicast delivery of MBMS services, Optimization to allow a smooth transition between MBMS and PSS, Correction of HTTP Response Error Codes, Addition of HTTP Response Error Codes and Improved video support for MBMS are carried out.
ARIB STD-T63-27.007	7.4.0	7.3.0	C1	AT command set for 3G User Equipment (UE)	- Correction for AT-commands +CEAP, +CERP and +CUAD - Extension of AT-command +CEAP
ARIB STD-T63-31.102	7.9.1	7.8.0	C6	Characteristics of the USIM Application	- GBA NAF Keys and MUKs storage policy - Presentation of additional information in manual selection mode - Correction of EF-IMG and EF-IIDF
ARIB STD-T63-31.103	7.2.1	7.1.0	C6	Characteristics of the ISIM Application	- Correction of coding of home network domain name in EF-DOMAIN - HTTP-Digest security request - GBA NAF Keys storage policy
ARIB STD-T63-31.111	7.7.0	7.6.0	C6	USIM Application Toolkit (USAT)	- Correction of possible Terminal Responses to the Send SMS command - Correction for the general results "SS Return Error" and "USSD Return Error" - Correct SEND SHORT MESSAGE missing Frame Identifier

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.115	7.1.0	7.0.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction of reference to ETSI TS 102 241
ARIB STD-T63-31.130	7.6.0	7.5.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Correction of references to ETSI TS 102 223 and ETSI TS 102 221 - Correction of reference to ETSI TS 102 241
ARIB STD-T63-31.133	7.1.0	7.0.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	Correction of reference to ETSI TS 102 241
ARIB STD-T63-33.107	7.6.0	7.5.0	S3	3G security; Lawful interception architecture and functions	Direct Tunnel LI
ARIB STD-T63-33.108	7.8.0	7.7.0	S3	3G security; Handover interface for Lawful Interception (LI)	Direct Tunnel LI
ARIB STD-T63-33.110	7.2.0	7.1.0	S3	Key establishment between a UICC and a terminal	- Addition of reference to GAA Service Type Code - Addition of annex on key establishment UICC-Terminal interface - Addition of key confirmation and various other changes
ARIB STD-T63-33.203	7.6.0	7.5.0	S3	3G security; Access security for IP-based services	Correction of several description mistakes
ARIB STD-T63-33.220	7.8.0	7.7.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- Details of HLR - BSF reference point - Clarifying the terms 2G and 3G for GBA - GBA NAF Keys storage policy in the UICC
ARIB STD-T63-33.234	7.5.0	7.5.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	- Support of IMS emergency call over I-WLAN - Support of IMS emergency call over I-WLAN for UICC-less case

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.246	7.4.0	7.3.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Mandating the support of MIKEY-RAND length of 128 bit - Adding missing requirements about PDP context and IP address handling for ptp key management - Adding a missing interworking scenario - Fixed cs_id for MIKEY PRF in case of download key derivation - Correct the SALT key generation during MSK processing - GBA NAF Key availability in the UICC
ARIB STD-T63-34.108	7.1.0	7.0.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Some additions related to 7.68Mbps TDD. - Corrections and new message contents are applied.
ARIB STD-T63-34.121-1	7.5.0	7.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1	- Many corrections. - New MBMS test case is introduced.
ARIB STD-T63-34.121-2	7.5.0	7.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Corrections related to 34.121-1
ARIB STD-T63-34.122	7.1.0	7.0.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	Addition of E-AGCH demodulation performance tests for 3.84 and 7.68Mcps TDD - A new section is added (11) in 34.122 which contains the performance requirements for E-DCH. A placeholder is added for E-HICH testing and a test is defined for E_AGCH demodulation performance for 3.84Mcps and 7.68 Mcps TDD. Addition of Scenario 2C: 3,84 Mcps TDD cell re-selection for 7,68 Mcps TDD UE (section 8 of 34.122) - A new section is added to 34.122 (8.2.2.2C) to include this test which is based on the requirements in 25.123

Revised Standard Number	Version at ARIB STD-T63 Ver.6.30	Version at ARIB STD-T63 Ver.6.20	3GPP WG	Title	Change Summary
					clauses 4.2.2 and A.4.2.2 MTCH demodulation tests for 3.84 and 7.68Mcps TDD - A new section is added (10) in 34.122 which contains the performance requirements for MBMS. A placeholder is added for MCCH testing and a test is defined for MTCH performance for 3.84Mcps and 7.68 Mcps TDD. Addition of Scenario 2D: 3,84 Mcps TDD cell re-selection for 7,68 Mcps TDD UE (section 8 of 34.122) - A new section is added to 34.122 (8.2.2.2D) to include this test which is based on the requirements in 25.123 clauses 4.2.2 and A.4.2.2 Correcting the test requirement for 1.28Mcps TDD option - Deleting the square brackets in test requirement. Correcting the message content for 1.28Mcps TDD option - Correcting the measurement control message - Correcting the physical channel reconfiguration message - Deleting TBD Correcting the Spectrum emission mask for 1.28Mcps TDD option - Modify the SEM requirement at alternative channel for 1.28Mcps TDD option.

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	3.10.0	3.9.0	R2	Requirement on UE supporting a release-independent frequency band	Introduction of Band XI

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	4.10.0	4.9.0	R4	UE Radio transmission and reception (TDD)	Correction of UE maximum output power classes for 1.28 Mcps LCR TDD option
ARIB STD-T63-25.307	4.10.0	4.9.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band XI

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	5.12.0	5.11.0	R4	UE Radio transmission and reception (TDD)	- Change to HSDPA for 1.28 Mcps TDD(The values for puncturing level is corrected.) - Correction of UE maximum output power classes for 1.28 Mcps TDD option - Requirements for maximum Input level for HS-PDSCH reception
ARIB STD-T63-25.133	5.18.0	5.17.0	R4	Requirements for support of radio resource management (FDD)	Deletion of Annex A for Rel-5 are made.
ARIB STD-T63-25.141	5.15.0	5.14.0	R4	Base station (BS) conformance testing (FDD)	The seed of the PN generator for high-order modulation are corrected.
ARIB STD-T63-25.307	5.9.0	5.8.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band XI
ARIB STD-T63-26.173	5.12.0	5.11.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Robust operation of AMRWB-decoder is added.
ARIB STD-T63-26.204	5.4.0	5.3.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Robust operation of AMRWB-decoder is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	5.12.0	5.11.0	S3	3G security; Access security for IP-based services	Authentication failure handling in IMS.
ARIB STD-T63-34.229-3	5.2.0	5.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	2 CRs: - RP-070594: Extension to TTCN ASP DeactivatePDPContextReq - RP-070594: IMS CC / PIXIT parameter px_CellId

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	6.15.0	6.14.0	R4	UE Radio transmission and reception (FDD)	Out-of-band emission limits for Band V (UMTS850) are corrected.
ARIB STD-T63-25.102	6.9.0	6.8.0	R4	UE Radio transmission and reception (TDD)	- Correction of UE maximum output power classes for 1.28 Mcps LCR TDD option - Change to HSDPA for 1.28 Mcps LCR TDD(Errors caused in CR implementation are corrected. The values for puncturing level is corrected.) - Clarification of MBMS test for LCR TDD - Requirements for maximum Input level for HS-PDSCH reception
ARIB STD-T63-25.104	6.16.0	6.15.0	R4	Base Station (BS) radio transmission and reception (FDD)	Out-of-band emission limits for Band V (UMTS850) are corrected.
ARIB STD-T63-25.123	6.11.0	6.10.0	R4	Requirements for support of radio resource management (TDD)	Correction to HS-SICH reception quality for 1.28Mcps LCR TDD
ARIB STD-T63-25.133	6.19.0	6.18.0	R4	Requirements for support of radio resource management (FDD)	Annex A for testing a UE which has multiple antenna connectors is clarified. E-DCH E-TFC restriction Test Cases are corrected. And changes to UE Transmission Power Headroom test are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	6.18.0	6.17.0	R4	Base station (BS) conformance testing (FDD)	Corresponding change in release 5 (V5.15.0) is made. Out-of-band emission limits for Band V (UMTS850) are corrected.
ARIB STD-T63-25.211	6.8.0	6.7.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify Notification Indicator transmitted on MICH.
ARIB STD-T63-25.301	6.5.0	6.4.0	R2	Radio Interface Protocol Architecture	Clarification on E-DCH Logical Channel Identities
ARIB STD-T63-25.306	6.12.0	6.11.0	R2	UE Radio Access capabilities	MBMS UE Capability for mapping MTCH/MSCH to legacy S-CCPCH
ARIB STD-T63-25.307	6.6.0	6.5.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band XI
ARIB STD-T63-25.321	6.14.0	6.13.0	R2	MAC protocol specification	- Correction on E-DCH compress mode - Serving grant 'HOLD' - Correction to quantisation requirements in E-TFC selection - Reference_ETPR definition alignment
ARIB STD-T63-25.423	6.15.0	6.14.0	R3	UTRAN Iur interface RNSAP signalling	Correction of PO2 for F-DPCH
ARIB STD-T63-25.433	6.15.0	6.14.0	R3	UTRAN Iub interface NBAP signalling	- Clarification of the MBMS Notification update procedure - Correction of PO2 for F-DPCH
ARIB STD-T63-26.173	6.3.0	6.2.0	S4	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	Robust operation of AMRWB-decoder is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.204	6.1.0	6.0.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Robust operation of AMRWB-decoder is added.
ARIB STD-T63-26.234	6.12.0	6.11.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Rewrite of language relating to Enhanced aacPlus signalling and RFC 3016, and correction to ABNF syntax of QoE metrics in PSS are carried out.
ARIB STD-T63-26.235	6.5.0	6.4.0	S4	Packet switched conversational multimedia application; Default codecs	References are corrected.
ARIB STD-T63-26.236	6.5.0	6.4.0	S4	Packet switched conversational multimedia applications; Transport protocols	References are corrected.
ARIB STD-T63-26.346	6.10.0	6.9.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correcting TMGI signalling and interpretation in SDP, correction of several ABNF definitions, Correction to Required Service Capability for Service Access, correction to ABNF syntax of QoE metrics in MBMS, and clarification of HTTP Response Error Codes for File Repair are carried out.
ARIB STD-T63-26.410	6.9.0	6.8.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Safety code to avoid encoder runtime-assertion is added.
ARIB STD-T63-26.411	6.6.0	6.5.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Safety code to avoid encoder runtime-assertion is added. Arithmetic overflow during estimation of perceptual entropy in AAC encoder is prevented. Out-of-bounds memory access of encoder in parametric stereo mode is prevented.
ARIB STD-T63-31.102	6.19.0	6.18.1	C6	Characteristics of the USIM Application	Inconsistency in the MSK update procedures
ARIB STD-T63-31.111	6.11.0	6.10.0	C6	USIM Application Toolkit (USAT)	- Addition of missing Frame Identifiers to proactive commands

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- Essential Correction to UTRAN Network Measurement Results
ARIB STD-T63-31.121	6.8.0	6.7.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Rel-6 content replacement by reference to TS 31.121, Rel-7
ARIB STD-T63-31.122	6.5.0	6.4.0	C6	USIM conformance test specification	CR to reference to next release of TS 31.122
ARIB STD-T63-31.124	6.10.0	6.9.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	TS 31.124, Rel-6 content replacement by reference to TS 31.124, Rel-7
ARIB STD-T63-33.203	6.11.0	6.10.0	S3	3G security; Access security for IP-based services	Authentication failure handling in IMS.
ARIB STD-T63-33.246	6.12.0	6.11.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Correction of DRM format usage. - Correct the encoding of MBMS key management procedures.
ARIB STD-T63-34.123-3	6.4.0	6.3.0	R5	UE conformance specification; Part 3: Abstract test suites (ATSS)	- Many corrections. - WB-AMR, WI-25 and WI-47 test cases are added.
ARIB STD-T63-34.229-1	6.3.0	6.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Mainly corrections. - New test cases for re/de-registration are added.
ARIB STD-T63-34.229-2	6.3.0	6.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP);	1 CR: RP-070607: Applicability of re- and de-registration TCs for

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
				Part 2: Implementation Conformance Statement (ICS) specification	early IMS

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.101	7.0.0		SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Upgrade to Rel-7

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-22.228	7.6.0	7.5.0	S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	Identification of a specific UE when multiple UEs share a single Public User Identity
ARIB STD-T63-23.107	7.1.0	7.0.0	S2	Quality of Service (QoS) concept and architecture	The value ranges for the maximum bitrate and guaranteed bitrate are increased to 256 Mbps. Some related notes are updated.
ARIB STD-T63-23.203	7.4.0	7.3.0	S2	Policy and charging control architecture	- It is proposed to add a new section 6.2.2.x describing how the PCEF enforces the authorized QoS according to the information received via the Gx interface. Two different types of authorized QoS should be used: an authorized QoS per bearer comprising QCI, GBR, MBR and an authorized QoS per QCI comprising MBR. - It is proposed to clarify the details of the PCEF rejection of a PCC decision by clarifying that the PCEF shall reject the activation of a PCC rule if the PCC rule cannot be activated on an IP-CAN bearer with the QCI of the PCC

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					rule. This happens typically only if network initiated procedures for IP-CAN bearer establishment apply and an IP-CAN bearer cannot be established or modified successfully. The PCEF shall accept the activation or modification of a PCC rule if the bitrate of the corresponding IP-CAN bearer is lower than the authorized bitrate for this IP-CAN bearer. - Broadcast and multicast bearers are explicitly declared to be out of scope for the specification. Editor's note on MBMS contexts for GPRS removed. - A number of abbreviations and Editor's notes removed. Correction of editing mistake at implementation of CR#009 rev 3 - It has been clarified in clause 6.2.1 that besides indicating to the AF that the service is not supported, the PCRF may additionally include the service information that can be accepted by PCRF. The error cause can be due to subscription or operator policy reasons. Supported bandwidth has been set as an example of the service information that can be provided back to AF. - It's proposed to clarified this case in the relevant section that the enforcement of a PCC rule with MBR>GBR in the PCEF may lead to an independant bearer kept for it based on the operator policy. - It is proposed to clarify that only a 1:1 mapping between the Rx session and the IP-CAN session is supported in the release 7 PCC. - The references to the emergency APN are removed from

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					the specification. - The CR corrects the list of input parameters for PCC decisions by aligning the GPRS specific annex A.1.3.2.1.1 with the general description in section 6.2.1.1. The information provided by the PCEF is re-ordered into parameters that just have a GPRS specific value and parameters that are so far only available for GPRS. The description of the SPR parameters is removed as they are not GPRS specific but already described in the general section 6.2.1.1. Furthermore, the PLMN identifier is added to section 6.2.1.1 to be able to fulfill the requirement of applying different PCC rules depending on different PLMN. - Several editor's notes are removed because the current specification contains a number of editor's notes that are outdated due to recently agreed additions and clarifications.
ARIB STD-T63-23.204	7.4.0	7.3.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	SM Delivery Report Status needs to be relayed by HLR to IP-SM-GW which then sends new SM Delivery Report Status to HLR as per TS 29.002 Figure 23.3/2b.
ARIB STD-T63-23.206	7.4.0	7.3.0	S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	Clarifying that before a VCC UE initiates a CS-to-IMS domain transfer it must register to IMS over the transferring-in access network, irrespectively of whether it is already registered to IMS over another access network.
ARIB STD-T63-23.228	7.9.0	7.8.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- Remove requirements for multiple simultaneous registrations of a public user identity from the same UE. - Add TS 23.167 IMS emergency sessions as reference in TS 23.228 and correct section 5.13 to indicate the support of IMS emergency session. - Enable the S-CSCF to determine the correct served user

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					in order to to trigger o-iFC for the forwarding leg. - Requirement for P-CSCF to reject session initiation attempt based on QoS Authorization reject from PCRF has been clarified, as well as it's optional. - Removal of deployment options of P-CSCF and PCRF. - The terms “IP Flow”, “IP Packet Flow” and “Service Data Flow” are replaced by the more widely use term within the TS of “Media Flow”. A definition for the term “Media Flow” as used within the IMS specification is provided. - It is clarified that the UE shall register the IMS application reference it supports. - It is clarified that the S-CSCF can indicate that an IMS communication service identifier has been validated and enforced by the S-CSCF. - Remove the requirement, that alias information needs to be available to UE. - The S-CSCF checks subscription to IMS services and ensures that the SIP request matches the IMS service definition. The home IBCF determines whether a request contains unauthorized media and treats those requests based on local policy.
ARIB STD-T63-25.101	7.9.0	7.8.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in Release 6 (V6.15.0) is made. Maximum Input Level requirement for 64-QAM, UL 16QAM Relative Code Domain Error, MIMO HS-SCCH/HS-DSCH performance, CQI reporting performance for MIMO, and requirements for UL power control with discontinuous UL DPCCH transmission operation are introduced. 64QAM and HS-SCCH less requirements are corrected. And also

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					64QAM and MBMS requirements corrected.
ARIB STD-T63-25.102	7.8.0	7.7.0	R4	UE Radio transmission and reception (TDD)	- Change to HSDPA for 1.28 Mcps TDD(LCR)(The values for puncturing level is corrected.) - Correction of UE maximum output power classes for 1.28 Mcps TDD option and 7.68Mcps TDD option - 7.68 Mcps TDD option is included in Section 1 (Scope) - Clarification of MBMS test for LCR TDD - Requirements for maximum Input level for HS-PDSCH reception - Performance Requirements for TDD MBSFN Channels
ARIB STD-T63-25.104	7.8.0	7.7.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding change in Release 6 (V6.16.0) is made. Base Station MIMO requirements and 16QAM Node B demodulation requirements are introduced.
ARIB STD-T63-25.105	7.7.0	7.6.0	R4	Base Station (BS) radio transmission and reception (TDD)	Inclusion of 7.68 Mcps in the scope of document
ARIB STD-T63-25.123	7.6.0	7.5.0	R4	Requirements for support of radio resource management (TDD)	- Introduction of multi-frequency operation for LCR TDD - Correction to HS-SICH reception quality for 1.28Mcps LCR TDD - Inter-frequency measurement in MBMS for 7.68 Mcps TDD Option.
ARIB STD-T63-25.133	7.9.0	7.8.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in Release 6 (V6.19.0) are made Continuous packet connectivity (CPC) is introduced to intra-frequency CPICH measurement requirements

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	7.9.0	7.8.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in Release 6 (V6.18.0) are made. Base Station MIMO requirements and 16QAM Node B demodulation requirements are introduced. And test requirements for high speed train are added.
ARIB STD-T63-25.142	7.7.0	7.6.0	R4	Base station (BS) conformance testing (TDD)	- 7.68 Mcps TDD Option test tolerances and transmit ON/OFF time mask level. - Inclusion of 7.68 Mcps in the scope of document
ARIB STD-T63-25.201	7.4.0	7.3.0	R1	Physical layer -General Description	Clarify E-HICH definition in 1.25 Mcps TDD.
ARIB STD-T63-25.211	7.3.0	7.2.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify Notification Indicator transmitted on MICH. Clarify PICH associated HS-SCCH for Enhanced CELL_FACH. Correct F-DPCH slot format to support Enhanced F-DPCH. Align terminology with TS 25.214 for discontinuous uplink transmission. Clarify the use of S-CCPCH pilot bits for MBSFN FDD feature.
ARIB STD-T63-25.212	7.6.0	7.5.0	R1	Multiplexing and channel coding (FDD)	Modify the 16QAM selection algorithm for uplink transmission. Rename HS-SCCH type M to HS-SCCH type 3. Clarify that HS-SCCH type 2 is not allowed in MIMO mode.
ARIB STD-T63-25.213	7.3.0	7.2.0	R1	Spreading and modulation (FDD)	Align notation $E-TFCI_{ec,boost}$ with TS 25.214.
ARIB STD-T63-25.214	7.6.0	7.5.0	R1	Physical layer procedures (FDD)	Clarify HS-DPCCH power settings in MIMO mode. Replace the CQI tables for categories 15 and 16. Correct UE category numbering to agree with RAN2 definitions. Clarify applicability of MIMO CQI tables for categories 17 and 18. Clarify CPC preamble and postamble for CQI transmission. Add a note for UL DPCCH preamble in 6C.2.2. The initial value for CQI_DTX_Priority is changed from 0 to 1. Correct E-DPDCH gain factor calculation. Add the reference to E-

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					DPDCH beta factor quantization when E-DPCCH boosting. Clarify the presence of HS-SCCH with retransmissions in PCH states. Define the Node B procedure for transmitting HS-DSCH in MIMO mode. Update CQI tables for 64QAM with octet aligned transport block sizes. Remove Inactivity_Threshold_for_UE_Grant_Monitoring definition.
ARIB STD-T63-25.215	7.3.0	7.2.0	R1	Physical layer; Measurements (FDD)	Add GANSS related measurements.
ARIB STD-T63-25.221	7.4.0	7.3.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	- Introduction of multi-frequency operation for 1.28Mcps TDD - TFCI mapping for S-CCPCH and 16QAM for 1.28Mcps TDD MBSFN
ARIB STD-T63-25.222	7.4.0	7.3.0	R1	Multiplexing and channel coding (TDD)	- Introduction of multi-frequency operation for 1.28Mcps LCR TDD - TFCI mapping for S-CCPCH and 16QAM for 1.28Mcps LCR TDD MBSFN - Improved E-HICH signature sequence allocation for LCR TDD
ARIB STD-T63-25.223	7.5.0	7.4.0	R1	Spreading and modulation (TDD)	Introduction of multi-frequency operation for 1.28Mcps TDD
ARIB STD-T63-25.224	7.4.0	7.3.0	R1	Physical layer procedures (TDD)	- Improvement on the power control of E-PUCH in 1.28Mcps TDD - Introduction of multi-frequency operation for 1.28Mcps TDD - Correction to the calculating formula of SIR (The formula used to calculate the virtual SIR is corrected in the Example Implementation of Downlink Power Control in the

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					UE)
ARIB STD-T63-25.225	7.4.0	7.3.0	R1	Physical layer; Measurements (TDD)	Introduction of multi-frequency operation for 1.28Mcps TDD
ARIB STD-T63-25.301	7.3.0	7.2.0	R2	Radio Interface Protocol Architecture	- Clarification on E-DCH and HS-DSCH Logical Channel Identities - Correction to the introduction of Improved L2 support for high data rates
ARIB STD-T63-25.302	7.5.0	7.4.0	R2	Services provided by the physical layer	Adding GANSS related services within the list of services provided by the physical layer
ARIB STD-T63-25.304	7.3.0	7.2.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	H-RNTI selection
ARIB STD-T63-25.305	7.4.0	7.3.0	R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	SAS-Centric A-GPS - UE requesting additional Assistance Data
ARIB STD-T63-25.306	7.5.0	7.4.0	R2	UE Radio Access capabilities	- HSPA+ L2 Buffering - UE capabilities for Rel-7, with 'improved L2' optional - Specification of HS-SCCH less memory requirement - Introduction of the Multi-Carrier HS-DSCH physical layer categories for 1.28Mcps TDD
ARIB STD-T63-25.307	7.2.0	7.1.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band XI
ARIB STD-T63-25.308	7.4.0	7.3.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	- L1 parameter name changes - General update of the 25.308

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- Introduction of multi-frequency operation for LCR TDD
ARIB STD-T63-25.319	7.3.0	7.2.0	R2	Enhanced uplink; Overall description; Stage 2	Timing Advance Corrections for 3.84/7.68 Mcps TDD E-DCH
ARIB STD-T63-25.321	7.6.0	7.5.0	R2	MAC protocol specification	- Correction on E-DCH compress mode - Correction to HS-DSCH transport block size table - Correction to operation of SI field in reassembly entity - MAC DTX timing start restrictions & compressed mode - Handling of long preambles in CPC - L1 parameter name changes - Removing MIMO requirements from MAC-hs - Serving grant 'HOLD' - Correction to quantisation requirements in E-TFC selection - Periodic MAC-ehs reset and setting of the expected TSN - Enhanced L2 processing - Correction to MAC-ehs PDU definition - Defining of reordering SDU and correction to the definition of the SI field - Clarification on the HARQ procedure for HS-SCCH less operation

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- Clarifications of CPC Grant Channel Monitoring - Avoid unnecessarily decreasing UE DRX possibility - Timing Advance Corrections for 3.84/7.68 Mcps TDD EDCH - 84/7.68 Mcps TDD EDCH: Sending Scheduling Information Periodically - Correction to HARQ operation in MIMO - Calculation of 'Scheduled Grant Payload' in Rel-7 - Introduction of multi-frequency operation for 1.28Mcps TDD - Addition of an SI trigger when UE grant <> 0 and at least one process is activated - Reference_ETPR definition alignment
ARIB STD-T63-25.401	7.5.0	7.4.0	R3	UTRAN Overall Description	- Introduction of GANSS (Galileo and Additional Navigation Satellite Systems) - Introduction of multi-frequency for 1.28Mcps TDD in 25.401
ARIB STD-T63-25.402	7.4.0	7.3.0	R3	Synchronisation in UTRAN Stage 2	Timing Advance Corrections for 3.84/7.68 Mcps TDD EDCH
ARIB STD-T63-25.422	7.1.0	7.0.0	R3	UTRAN Iur interface signalling transport	Multi-homing in IP Transport Option
ARIB STD-T63-25.423	7.6.0	7.5.0	R3	UTRAN Iur interface RNSAP signalling	- Correction of Power offset for E-HICH, E-AGCH, E-RGCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					and HS-SCCH when F-DPCH is configured - Correction of PO2 for F-DPCH - Extension of the ranges of the MAC-hs / MAC-es Guaranteed Bit Rate IEs - Extension of the range of the "Reference E-TFCI Power Offset" for UL 16QAM - Extension of the ranges of the "Maximum Number of Bits per MAC-e PDU for Non-scheduled transmission" and "E-DCH Maximum Bitrate" for UL 16QAM - HARQ Memory Partitioning for MIMO - Cause value "F-DPCH Slot Format operation not supported" - 64QAM DL support Indicator - Max UE DTX Cycle Signaling Support for CPC operation - Introduction of multi-frequency for 1.28Mcps TDD in 25.423 - N/M ratio for MIMO decided by the Node B - Corrections related to changes for Improved L2 and Enhanced FACH - Clean up of RNSAP Rel 7 - Broadcasted Multiple PLMN list in RNSAP

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- Corrections for F-DPCH Slot Format Operation - Corrections/Small Improvements for CPC - Enhancements to Macro Diversity & Cell Interference Control
ARIB STD-T63-25.425	7.5.0	7.4.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Corrections related to changes for Improved L2 and enhanced FACH
ARIB STD-T63-25.427	7.5.0	7.4.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Timing Advance Corrections for 3.84/7.68 Mcps TDD EDCH
ARIB STD-T63-25.430	7.5.0	7.4.0	R3	UTRAN Iub Interface: General Aspects and Principles	Introduction of multi-frequency for 1.28Mcps TDD in 25.430
ARIB STD-T63-25.433	7.6.0	7.5.0	R3	UTRAN Iub interface NBAP signalling	- Clarification of the MBMS Notification update procedure - Correction of Power offset for E-HICH, E-AGCH, E-RGCH and HS-SCCH when F-DPCH is configured - Correction of PO2 for F-DPCH - TDD E-DCH Non-scheduled resource deletion - Extension of the ranges of the MAC-hs / MAC-es Guaranteed Bit Rate IEs - Extension of the range of the "Reference E-TFCI Power Offset" for UL 16QAM - Extension of the ranges of the "Maximum Number of Bits per MAC-e PDU for Non-scheduled transmission" and "E-DCH Maximum Bitrate" for UL 16QAM

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- HARQ Memory Partitioning for MIMO - Transport bearer sharing for FACHs - Binding ID and Transport Layer Address IEs in CTRCH SETUP RESPONSE - ToA window reconfiguration in case of transport bearer shared by several FACHs - Use of RSI (service impacting) for change of capabilities reported in conditional IEs - MBSFN Only Mode Capability IE in AUDIT RESPONSE message - TUTRAN-GPS Accuracy Class IE not applicable to GANSS - A small change on the configuration of MBSFN Cell Parameter ID for 1.28 Mcps TDD - Introduction of multi-frequency for 1.28Mcps TDD in 25.433 - N/M ratio for MIMO decided by the Node B - Corrections related to changes for Improved L2 and Enhanced FACH - Removal of reference to SIB 8,9,10 - NBAP clean up - Adding unit to modulation power offset for MBSFN

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					- Corrections/Small Improvements for Enhanced Cell_FACH - Corrections/Small Improvements for CPC - Enhancements to Macro Diversity & Cell Interference Control
ARIB STD-T63-25.435	7.6.0	7.5.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	- Introduction of multi-frequency for 1.28Mcps TDD in 25.435 - Corrections related to changes for Improved L2 and enhanced FACH - Corrections/Small Improvements for Enhanced Cell_FACH
ARIB STD-T63-25.450	7.2.0	7.1.0	R3	UTRAN Iupc interface general aspects and principles	Introduction of GANSS (Galileo and Additional Navigation Satellite Systems)
ARIB STD-T63-25.452	7.1.0	7.0.0	R3	UTRAN Iupc interface signalling transport	Introduction of GANSS (Galileo and Additional Navigation Satellite Systems)
ARIB STD-T63-25.453	7.8.0	7.7.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	- SAS-Centric A-GPS UE requesting additional Assistance Data - Corrections for ASN.1
ARIB STD-T63-26.114	7.2.0	7.1.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of List of Abbreviations, Section 13, and Annex F and clarification text for Media Synchronization Info are carried out.
ARIB STD-T63-26.142	7.1.0	7.0.0	S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Technical corrections in the DIMS specification are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.173	7.1.0	7.0.0	S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Robust operation of AMRWB-decoder is added.
ARIB STD-T63-26.204	7.1.0	7.0.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Robust operation of AMRWB-decoder is added.
ARIB STD-T63-26.234	7.4.0	7.3.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Rewrite of language relating to Enhanced aacPlus signalling and RFC 3016 and correction to ABNF syntax of QoE metrics in PSS are carried out.
ARIB STD-T63-26.235	7.2.0	7.1.0	S4	Packet switched conversational multimedia application; Default codecs	References are corrected.
ARIB STD-T63-26.236	7.2.0	7.1.0	S4	Packet switched conversational multimedia applications; Transport protocols	References are corrected.
ARIB STD-T63-26.346	7.5.0	7.4.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Service Class Handling, clarification of APN association and addition of APN elements, correcting TMGI signalling and interpretation in SDP, correction of several ABNF definitions, correction of the OMA Push application id, correction of QoE handling for MBMS Streaming on unicast, clarification to the MBMS to PSS handover, reception reporting by roaming MBMS users, further correction to Required Service Capability for Service Access, correction to ABNF syntax of QoE metrics in MBMS, clarification of HTTP Response Error Codes for File Repair and clarification of Release 7 specific HTTP Response Error Codes for File Repair are carried out.
ARIB STD-T63-26.410	7.2.0	7.1.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Safety code to avoid encoder runtime-assertion is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.411	7.3.0	7.2.0	S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Safety code to avoid encoder runtime-assertion is added. Arithmetic overflow during estimation of perceptual entropy in AAC encoder is prevented. Out-of-bounds memory access of encoder in parametric stereo mode is prevented.
ARIB STD-T63-31.102	7.10.0	7.9.0	C6	Characteristics of the USIM Application	Inconsistency in the MSK update procedures
ARIB STD-T63-31.103	7.3.0	7.2.0	C6	Characteristics of the ISIM Application	- Key Establishment mechanism: alignment with TS 33.110 - Inconsistency in the MSK update procedures
ARIB STD-T63-31.111	7.8.0	7.7.0	C6	USIM Application Toolkit (USAT)	- Incomplete Launch Application command definition - Essential Correction to UTRAN Network Measurement Results
ARIB STD-T63-31.121	7.1.0	7.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction of Location Area Information parameter in test 7.3 - Essential correction of the applicability of tests 6.4.2, 6.4.3, 6.4.4
ARIB STD-T63-31.122	7.1.0	7.0.0	C6	USIM conformance test specification	- Addition of applicability column for Rel-7 - Essential corrections to various tests - Corrections and clarifications to test for Reservation of file IDs - Replacement of EFSMS with EFECC for SEARCH RECORD (SFI) test - Essential correction of FCP content in test 6.8.1.2

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.124	7.1.0	7.0.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential Correction to 27.22.6.2 - Essential correction of variable timeout test case applicability - Essential correction to 27.22.4.13.1, seq. 1.9 - Essential Correction to 27.22.6.1, Seq. 1.1 - Essential correction of references - Essential correction of 27.22.4.13.1, sequence 1.7 - Test Cases dependant on Radio Access Clarification - Essential correction of 27.22.4.7.1, sequence 1.6
ARIB STD-T63-33.107	7.7.0	7.6.0	S3	3G security; Lawful interception architecture and functions	Stage 2 MBMS Interception.
ARIB STD-T63-33.110	7.3.0	7.2.0	S3	Key establishment between a UICC and a terminal	- Ks_local keys storage policy in the UICC - Complete NAF Key Center procedure to check Terminal_ID. - Stage 3 details : Ua interface and adding TLS Profiling. - Addition of PSK-TLS to secure communication between the Terminal and the NAF Key Center.
ARIB STD-T63-33.203	7.7.0	7.6.0	S3	3G security; Access security for IP-based services	Authentication failure handling in IMS.
ARIB STD-T63-33.210	7.3.0	7.2.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Clarification on the use of the IPSec mode for the Zb-reference point.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.220	7.9.0	7.8.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Correction of HLR-BSF Reference Point.
ARIB STD-T63-33.246	7.5.0	7.4.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	- Correct the encoding of MBMS key management procedures. - Correction of DRM Content Format usage.
ARIB STD-T63-33.259	7.1.0	7.0.0	S3	Key establishment between a UICC hosting device and a remote device	- Stage 3 details - Ua interface and adding TLS Profiling. - Introduction of key confirmation and some various other changes. - Clarifications regarding the use of Ks_local_device key.
ARIB STD-T63-34.108	7.2.0	7.1.0	R5	Common test environments for User Equipment (UE); Conformance testing	Corrections and additions for MBMS, RoHC, ..etc.
ARIB STD-T63-34.121-1	7.6.0	7.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1	Corrections. Some new test cases are introduced.
ARIB STD-T63-34.121-2	7.6.0	7.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Corrections. Some new test cases are introduced.
ARIB STD-T63-34.122	7.2.0	7.1.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	- Addition of MCCH demodulation tests for 3.84Mcps and 7.68Mcps - Addition of Detection of E-DCH HARQ ACK Indicator Channel (E-HICH) for 3.84Mcps and 7.68Mcps TDD - Adding the test case of MTCH demodulation performance

Revised Standard Number	Version at ARIB STD-T63 Ver.6.40	Version at ARIB STD-T63 Ver.6.30	3GPP WG	Title	Change Summary
					for 1.28Mcps LCR TDD option - Adding the test case of MTCH demodulation and cell identification for 1.28Mcps LCR TDD option
ARIB STD-T63-34.123-1	7.1.0	7.0.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Many corrections to WI-25 test cases, MBMS, ..etc.. - New test case for MBMS are introduced.
ARIB STD-T63-34.123-2	7.1.0	7.0.0	R5	UE conformance specification;Part 2: ICS proforma specification	Changes related to 34.123-1

(Annex 31)

3GPP ARIB Change history List of Standards Ver. 6.50

19 March 2008

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.17.0	3.16.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications Update of informative text

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.14.0	4.13.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specs Update of informative text

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.13.0	5.12.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications Update of informative text
ARIB STD-T63-34.229-3	5.3.1	5.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- Test case 8.5, 8.7 and 9.1 were added. - Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3(prose), Annex A. - Production of 34.229-3 pointer version in Rel-5 pointing to Rel-6 version. - Editorial correction to history table.

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.50		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.229-3	6.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	1 CR was reflected against v5.2.0 - Addition of an MMI command

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.8.0	6.7.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications Update of informative text
ARIB STD-T63-25.133	6.20.0	6.19.0	R4	Requirements for support of radio resource management (FDD)	Incorrect title for test case in Annex A.5.4.4 is corrected. Unnecessary square brackets in Table A.5.8D for cell identification test case were removed.
ARIB STD-T63-25.211	6.9.0	6.8.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Correct the list of occasions when E-DPCCH is transmitted without E-DPDCH.
ARIB STD-T63-34.123-3	6.5.0	6.4.0	R5	UE conformance specification; Part 3: Abstract test suites (ATSS)	Most of the changes are: - Many new LCR TDD test cases were added.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					- Corrections for existence test cases. - New test cases are added to WI-024/WI-025
ARIB STD-T63-34.229-1	6.4.1	6.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- IMS – Change of SUBSCRIBE Via header default value (R5-073468) - Production of 34.229-1 pointer version in Rel-6 pointing to Rel-7 version. (R5-073278) - Correction to RP-38 entries in history table.
ARIB STD-T63-34.229-2	6.4.0	6.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Production of 34.229-2 pointer version in Rel-6 pointing to Rel-7 version.

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.50		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.111	7.0.0		R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	The document establishes the Location Measurement Unit (LMU) minimum RF characteristics of the FDD mode of UTRA.
ARIB STD-T63-34.229-1	7.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	4 CRs were reflected against v6.3.0: - Updating references of 34.229-1 for MTSI and GRUU (R5-073036) - Updating case 8.1 Initial Registration for 24.229 Rel-7 (R5-073440) - New IMS Rel-7 test case for MO MTSI voice call (R5-073298) - New IMS Rel-7 test case for MO MTSI call hold (R5-073444)
ARIB STD-T63-34.229-2	7.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	2 CRs were reflected against v6.3.0: - Applicability of new MTSI MO Call and Call Hold test cases. (R5-073445) - Add MTSI media capabilities. (R5-073096)

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.1.0	7.0.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Upgrade to Rel-7 (from 6.7.0) Corrections to list of specifications Update of informative text
ARIB STD-T63-22.101	7.10.0	7.9.0	S1	Service aspects; Service principles	AI 35-02, Alignment CR, IMS Emergency Call
ARIB STD-T63-23.203	7.5.0	7.4.0	S2	Policy and charging control architecture	Section 4.2.1 is updated to add requirements that the PCC architecture pass IP-CAN charging identifiers and IP-CAN type to the AF.
ARIB STD-T63-23.206	7.5.0	7.4.0	S2	Voice Call Continuity (VCC) between Circuit Switched (CS) and IP Multimedia Subsystem (IMS); Stage 2	Add clarification text to indicate that the UE should also be registered in the target domain before releasing of held / waiting calls.
ARIB STD-T63-23.228	7.10.0	7.9.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Updates to Outbound, STUN, TURN, and ICE are made as well as to NAT Behavioural Requirements for Unicast UDP (now an RFC) Non-applicable FSS statements are removed from the annex. Informative text is included for clarification on the use of STUN Relay (TURN) Servers. There are no normative requirement changes proposed with this CR. Removal of reference to 24.228. Clarifies when the served user is used. Section 5.7a.3 is set to void. Section 5.7a.1 is updated accordingly. Sections 5.6.4 and 5.7a.2 are updated to show right execution QoS Authorization procedures at terminating side. Correct the Mp protocol description.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					In Fig.4.0 adding the Mg interface between MGCF and I-CSCF. Adding Dh between AS and SLF. Minor editorial cleanups in the figure. Removal of Editor's notes for issues not resolved within Rel-7. Change of Editor's notes to note where applicable. Clarification that Outbound is used in respect to NAT traversal and not multiple registration support.
ARIB STD-T63-25.101	7.10.0	7.9.0	R4	UE Radio transmission and reception (FDD)	Requirements for UE capable of receiving HS-DSCH and HS-SCCH in CELL_FACH state are introduced. UE relative code domain power accuracy for 64QAM uplink, the RV sequence of the MIMO FRC and the extreme condition voltages for Lithium batteries in table D.2.2 are corrected.
ARIB STD-T63-25.102	7.9.0	7.8.0	R4 (TDD)	UE Radio transmission and reception (TDD)	LCR TDD MBSFN UE demodulation performance requirements Relative delay corrections in Extended Delay Spread propagation condition
ARIB STD-T63-25.104	7.9.0	7.8.0	R4	Base Station (BS) radio transmission and reception (FDD)	The statements in Sections 6.4 and 6.8 about the applicability of the requirements for transmit diversity or MIMO BS are deleted to remove ambiguity in the specification. Spurious emission limits for coexistence with GSM850 are corrected so as to the same requirements are applied also for coexistence with CDMA850.
ARIB STD-T63-25.123	7.7.0	7.6.0	R4 (TDD)	Requirements for support of radio resource management (TDD)	Requirements for the UE transmission power headroom (UPH) MBSFN Cluster Selection/Reselection
ARIB STD-T63-25.133	7.10.0	7.9.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in the release 6 specification (T63-25.133, V6.20.0) are made. E-DPCCH boosting to ETFC restriction requirements are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	7.10.0	7.9.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in the core specification (T63-25.104, V 7.9.0) are made.
ARIB STD-T63-25.201	7.5.0	7.4.0	R1	Physical layer -General Description	Correct the time slot description for 1.28Mcps TDD MBMS.
ARIB STD-T63-25.211	7.4.0	7.3.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Correct the list of occasions when E-DPCCH is transmitted without E-DPDCH. Mention PCI as part of HS-DPCCH structure.
ARIB STD-T63-25.212	7.7.0	7.6.0	R1	Multiplexing and channel coding (FDD)	Correct decimal to binary mapping in case of type B CQI. Clarify that there can be two TBs per TTI in MIMO mode.
ARIB STD-T63-25.213	7.4.0	7.3.0	R1	Spreading and modulation (FDD)	Clarify where the modulation mapping for 16QAM takes place.
ARIB STD-T63-25.214	7.7.0	7.6.0	R1	Physical layer procedures (FDD)	Remove $E-TFCI_{ed,switch}$ from E-DPDCH power extrapolation / interpolation formula. Correct E-DPDCH gain factor formula. Clarify when CQI_DTX_Priority shall be set to 1. Correct when UE shall monitor the full E-RGCH(s). Clarify applicability of CQI tables. Clarify CQI definition. Clarify UE category determination.
ARIB STD-T63-25.215	7.4.0	7.3.0	R1	Physical layer; Measurements (FDD)	Clarify UE measurement definitions for RX diversity.
ARIB STD-T63-25.221	7.5.0	7.4.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	More improvement on dedicated carrier for 1.28Mcps TDD MBMS
ARIB STD-T63-25.222	7.5.0	7.4.0	R1 (TDD)	Multiplexing and channel coding (TDD)	More improvement on dedicated carrier for 1.28Mcps TDD MBMS
ARIB STD-T63-25.223	7.6.0	7.5.0	R1 (TDD)	Spreading and modulation (TDD)	More improvement on dedicated carrier for 1.28Mcps TDD MBMS

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.224	7.5.0	7.4.0	R1 (TDD)	Physical layer procedures (TDD)	Clarification of gain factor β_e and P_{e-base} in LCR TDD EUL More improvement on dedicated carrier for 1.28Mcps TDD MBMS
ARIB STD-T63-25.302	7.6.0	7.5.0	R2	Services provided by the physical layer	More improvement on Dedicated Carrier for 1.28Mcps TDD MBMS
ARIB STD-T63-25.304	7.4.0	7.3.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	More improvement on Dedicated Carrier for 1.28Mcps TDD MBMS
ARIB STD-T63-25.306	7.6.0	7.5.0	R2	UE Radio Access capabilities	- Correction to memory requirement for HS-SCCH less operation - Introduction of an additional UE category for 1.28Mcps TDD E-DCH - Clarification on MIMO and 64QAM UE categories - More improvement on dedicated carrier for 1.28 Mcps TDD MBMS - UE capability for E-DCH transmission time restriction and UE DRX in CPC - Correction to Control Information transmission with two logical channels
ARIB STD-T63-25.308	7.5.0	7.4.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	- Definitions on Common Paging MAC Flow and Paging MAC Flow - URA_PCH UE receive system information change indication from PCCH
ARIB STD-T63-25.319	7.4.0	7.3.0	R2	Enhanced uplink; Overall description; Stage 2	Correction to description of the TB size table for 1.28Mcps TDD
ARIB STD-T63-25.321	7.7.0	7.6.0	R2	MAC protocol specification	- Introduction of an additional UE category for 1.28Mcps TDD E-DCH - Clarification on E-TFC selection for 1.28Mcps TDD - Clarification of TEBS and HLBS in Scheduling Information for TDD mode

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					- Scheduled Grant setting in DTX Cycle 2 during CPC operation - Clarification on SG table for 16QAM - Correction to the UE behaviour when receiving RV=0 - Reassembly Unit - Clarification on E-DPDCH power extrapolation/interpolation
ARIB STD-T63-25.402	7.5.0	7.4.0	R3	Synchronisation in UTRAN Stage 2	The Improvement of Iub Efficiency for MBMS in IP RAN Further corrections on Enhanced Cell_FACH
ARIB STD-T63-25.423	7.7.0	7.6.0	R3	UTRAN Iur interface RNSAP signalling	ASN1-Tabular alignment for GANSS feature in TS25.423 Support modification of UE Capabilities Information for a HS-DSCHRL Correction of CPC parameters E-TFCI BetaEC Boost and E-TFCI BetaED Switch IEs updates HARQ Memory Partitioning Information Extension For MIMO IE criticality Scheduled Grant setting in DTX Cycle 2 during CPC operation Further Introduction of Enhanced Cell FACH related IEs Further corrections on Enhanced Cell_FACH UE Involved Relocation with Timing Maintaining HHO 64 QAM Activation Correction for PRXdes_base in LCR TDD EUL Correction for E-DCH Combining in RL Reconfiguration Abnormal condition for UL DPCH slot format 4

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					Correction of the location of Delta T2TP parameter
ARIB STD-T63-25.425	7.6.0	7.5.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Corrections related to changes for Improved L2 and enhanced FACH Further corrections on Enhanced Cell_FACH
ARIB STD-T63-25.433	7.7.0	7.6.0	R3	UTRAN Iub interface NBAP signalling	The Improvement of Iub Efficiency for MBMS in IP RAN ASN1-Tabular alignment for GANSS feature in TS25.433 Correction of CPC parameters E-TFCI BetaEC Boost and E-TFCI BetaED Switch IEs updates HARQ Memory Partitioning Information Extension For MIMO IE criticality Scheduled Grant setting in DTX Cycle 2 during CPC operation ASN.1 cleanup Update of the tabular description ASN.1 Modification for 1.28Mcps TDD Further corrections on Enhanced Cell_FACH More improvement on dedicated frequency for 1.28 Mcps TDD MBMS Corrections and clarifications of RoT threshold for LCR TDD E-DCH HS-SCCH Channelisation Code for Cell_PCH UE 64 QAM Activation Correction for PRXdes_base in LCR TDD EUL Correction for E-DCH Combining in RL Reconfiguration

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					Abnormal condition for UL DPCCH slot format 4 Correction of the location of Delta T2TP parameter
ARIB STD-T63-25.434	7.2.0	7.1.0	R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Consistency of Specification Notations The Improvement of Iub Efficiency for MBMS in IP RAN
ARIB STD-T63-25.435	7.7.0	7.6.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	The Improvement of Iub Efficiency for MBMS in IP RAN Corrections related to changes for Improved L2 and Enhanced FACH Further corrections on Enhanced Cell_FACH
ARIB STD-T63-26.114	7.3.1	7.2.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of minor errors Correction of references in MTSI Synchronization information Encapsulation parameters Video codec in MTSI Inclusion of attachments
ARIB STD-T63-26.131	7.1.0	7.0.0	S4	Terminal acoustic characteristics for telephony; Requirements	Creating a sidetone requirement for the case where HATS method is used
ARIB STD-T63-26.132	7.1.0	7.0.0	S4	Speech and video telephony terminal acoustic test specification	Changing the sidetone test to allow type 3.3 or 3.4 artificial ears
ARIB STD-T63-26.142	7.2.0	7.1.0	S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Reference correction in the DIMS specification
ARIB STD-T63-26.235	7.3.0	7.2.0	S4	Packet switched conversational multimedia application; Default codecs	Correction of video codecs for PS conversational multimedia applications

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-26.244	7.3.0	7.2.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Correction of reference in the 3GP file format
ARIB STD-T63-26.346	7.6.0	7.5.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	MBSFN bearer mode signalling Clarification of re-synchronization after switch to unicast delivery
ARIB STD-T63-31.102	7.11.0	7.10.0	C6	Characteristics of the USIM Application	Characteristics of the Universal Subscriber Identity Module (USIM) application (change of WG as a result of closure of CN and T).
ARIB STD-T63-31.121	7.2.0	7.1.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification (change of WG as a result of closure of CN and T).
ARIB STD-T63-31.124	7.2.0	7.1.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification (change of WG as a result of closure of CN and T).
ARIB STD-T63-31.130	7.7.0	7.6.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card(change of WG as a result of closure of CN and T).
ARIB STD-T63-31.133	7.2.0	7.1.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™ (change of WG as a result of closure of CN and T).
ARIB STD-T63-33.108	7.9.0	7.8.0	S3	3G security; Handover interface for Lawful Interception (LI)	- Direct Tunnel LI - Wrong reference
ARIB STD-T63-33.110	7.4.0	7.3.0	S3	Key establishment between a UICC and a terminal	- Clarification of payload in “service request” message - Correction of XML schema

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	7.8.0	7.7.0	S3	3G security; Access security for IP-based services	Correction of Handling unprotected error messages
ARIB STD-T63-33.220	7.10.0	7.9.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	- 2G GBA Certificate Management - Usage of OMA References – Update of References
ARIB STD-T63-33.221	7.1.0	7.0.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Usage of OMA References – Update of References
ARIB STD-T63-33.222	7.3.0	7.2.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	- Usage of OMA References – Update of References - Certificate based mutual authentication: TLS profile
ARIB STD-T63-33.246	7.6.0	7.5.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Usage of TEK and TGK in MBMS
ARIB STD-T63-33.259	7.2.0	7.1.0	S3	Key establishment between a UICC hosting device and a remote device	Correction of XML schema
ARIB STD-T63-34.122	7.3.0	7.2.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	- Introduction of multi-frequency operation for LCR TDD and corrections. (R5-073331) - Correcting the test case of maximum output power for 1.28Mcps TDD option. (R5-073293) - Updating of HSDPA demodulation performance requirements for 1.28Mcps TDD option. (R5-073294) - Deleting test case of MCCH demodulation requirement for 1.28Mcps TDD option. (R5-073295) - Correcting test case of MTCH demodulation requirement for 1.28Mcps TDD option. (R5-073296)

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	3.16.0	3.15.0	R4	Base Station (BS) Radio transmission and reception (TDD)	Update NOTE in Category B BS spurious emissions
ARIB STD-T63-25.307	3.11.0	3.10.0	R2	Requirement on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	4.110	4.10.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modifying category B spurious emission limits for UTRA TDD BS
ARIB STD-T63-25.307	4.11.0	4.10.0	R2	Requirement on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	5.90	5.8.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modifying category B spurious emission limits for UTRA TDD BS
ARIB STD-T63-25.307	5.10.0	5.9.0	R2	Requirement on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPPW G	Title	Change Summary
ARIB STD-T63-23.140	6.15.0	6.14.0	CP	Multimedia Messaging Service (MMS); Functional description; Stage 2	- OTA provisioning
ARIB STD-T63-25.101	6.16.0	6.15.0	R4	UE Radio transmission and reception (FDD)	Corrections of out-of-band emission limits to remove the ambiguity are made.
ARIB STD-T63-25.102	6.10.0	6.9.0	R4	UE Radio transmission and reception (TDD)	Omissions of minimum requirements for blocking characteristics Deleting redundant notes for receiver spurious emission
ARIB STD-T63-25.104	6.17.0	6.16.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corrections of out-of-band emission limits to remove the ambiguity and adding exception note for RX spurious emissions requirements are made.
ARIB STD-T63-25.105	6.6.0	6.5.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modifying category B spurious emission limits for UTRA TDD BS Correcting the power allocation for HS-SICH performance detection
ARIB STD-T63-25.133	6.21.0	6.20.0	R4	Requirements for support of radio resource management (FDD)	Correction to the channel parameters of cell reselection during MBMS session is made.
ARIB STD-T63-25.141	6.19.0	6.18.0	R4	Base station (BS) conformance testing (FDD)	Corresponding changes on corrections of out-of-band emission limits and adding exception note for RX spurious emissions requirements in the core specification (TS25.104, V6.17.0) are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPPW G	Title	Change Summary
ARIB STD-T63-25.142	6.8.0	6.7.0	R4	Base station (BS) conformance testing (TDD)	Correcting the power allocation for HS-SICH performance detection
ARIB STD-T63-25.301	6.6.0	6.5.0	R2	Radio Interface Protocol Architecture	Correction of figures
ARIB STD-T63-25.304	6.10.0	6.9.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on Treselection for MBMS
ARIB STD-T63-25.307	6.7.0	6.6.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307
ARIB STD-T63-25.321	6.15.0	6.14.0	R2	MAC protocol specification	Correction to UTRAN side MAC-e depiction
ARIB STD-T63-25.423	6.16.0	6.15.0	R3	UTRAN Iur interface RNSAP signalling	Correction the condition of UL DPDCH Indicator for E-DCH Operation
ARIB STD-T63-25.433	6.16.0	6.15.0	R3	UTRAN Iub interface NBAP signalling	Correction the condition of UL DPDCH Indicator for E-DCH Operation
ARIB STD-T63-26.234	6.13.0	6.12.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Correction to SDP bandwidth specifiers in PSS is carried out.
ARIB STD-T63-26. 346	6.11.0	6.10.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Corrections to different MBMS XML Schemas, clarification of the reception reporting procedure start time, and removal of duplicated reception reporting example are carried out.
ARIB STD-T63-29. 140	6.4.0	6.3.0	C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	Correction of references to TS 23.140
ARIB STD-T63-31. 102	6.20.0	6.19.0	C6	Characteristics of the USIM Application	- MBMS security - Authentication error 9866

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.6.50	3GPPW G	Title	Change Summary
ARIB STD-T63-34. 123-3	6.6.0	6.5.0	R5	UE conformance specification; Part 3: Abstract test suites (ATSS)	- New test cases for MBMS and HSUPA were added. - Corrections to existence test cases
ARIB STD-T63-34. 229-3	6.1.0	6.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- New test cases were added.

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.6.60		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.123-3	7.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSSs)	- Upgraded to Rel-7 without technical change (on request of RAN5)

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-22.022	7.1.0	7.0.0	S3	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Control key length increase in OTA de-personalisation message
ARIB STD-T63-23.203	7.6.0	7.5.0	S2	Policy and charging control architecture	The statement related to the connection management is removed as this is considered to be a stage 3 issue. The term Gx session is introduced instead of the previous term connection to indicate the relation to the IP-CAN session. It is also clarified that also the PCRF may initiate the Gx session termination and that in such a case the PCEF shall initiate an IP-CAN session termination procedure. Furthermore, a note is added stating that the PCRF decision to termination the Gx session is based on operator policies. It should only occur in rare situations

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					(e.g. the removal of a UE subscription) to avoid service interruption due to the termination of the IP-CAN session.
ARIB STD-T63-23.204	7.5.0	7.4.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	Clause number referred in 6.1 Registration procedure is corrected.
ARIB STD-T63-23.228	7.11.0	7.10.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Removal of statement that emergency is handled based on error procedures. Removal of QoS Authorization at step 10 of IMS Session setup flow in section 5.7a.2.
ARIB STD-T63-25.101	7.11.0	7.10.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in Rel-6 (TS25.101, V6.16.0) is made. Addition of MBSFN requirements for MCCH and MTCH detection, Addition of CQI testing for 64-QAM, Correction of reference to H-Set for 64-QAM max input test, and editorial corrections of the conditions for MIMO performance are made.
ARIB STD-T63-25.102	7.10.0	7.9.0	R4 (TDD)	UE Radio transmission and reception (TDD)	Adding requirements for MBSFN capable UE (dedicated carrier case) Omissions of minimum requirements for blocking Characteristics Deleting redundant notes for receiver spurious emissions
ARIB STD-T63-25.104	7.10.0	7.9.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding changes in Rel-6 (TS25.104, V6.17.0) are made.
ARIB STD-T63-25.105	7.8.0	7.7.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modifying category B spurious emission limits for UTRA TDD BS Correcting the power allocation for HS-SICH performance detection

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.111	7.1.0	7.0.0	R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	Correction to Multipath detection level for multipath scenarios based on new simulation results is made.
ARIB STD-T63-25.133	7.11.0	7.10.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in Rel-6 (TS25.113, V6.21.0) is made.
ARIB STD-T63-25.141	7.11.0	7.10.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in Rel-6 (TS25.141, V6.19.0) are made. And editorial modifications of the test requirement table for the demodulation of E-DPDCH, editorial correction of table and figure title in A.18 are made.
ARIB STD-T63-25.142	7.8.0	7.7.0	R4	Base station (BS) conformance testing (TDD)	Correcting the power allocation for HS-SICH performance detection
ARIB STD-T63-25.211	7.5.0	7.4.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify that transmit diversity is either used on both SCH and P-CCPCH or none of them.
ARIB STD-T63-25.214	7.8.0	7.7.0	R1	Physical layer procedures (FDD)	Align the definition of UE_DRX_Grant_Monitoring with the specification of the reception of E-RGCH when DL_DRX_Active is TRUE. Clarify the reception of E-RGCH when DL_DRX_Active is TRUE. Clarify UE procedure for receiving HS-DSCH in the PCH state.
ARIB STD-T63-25.221	7.6.0	7.5.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Clarification of uplink multicode capability for 1.28Mcps TDD EUL EUL power control improvements for 1.28Mcps TDD E-AGCH timing for 1.28Mcps TDD EUL Clarification of the description about E-PUCH for 1.28Mcps TDD EUL
ARIB STD-T63-25.222	7.6.0	7.5.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Some corrections for 1.28Mcps TDD EUL Clarification on TFCI mapping for 1.28Mcps TDD MBMS

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.224	7.6.0	7.5.0	R1 (TDD)	Physical layer procedures (TDD)	EUL power control improvements for 1.28Mcps TDD Improvement of the UL synchronisation of E-PUCH for 1.28Mcps TDD EUL Clarification and Correction of E-PUCH power control for LCR TDD
ARIB STD-T63-25.301	7.4.0	7.3.0	R2	Radio Interface Protocol Architecture	Correction of figures
ARIB STD-T63-25.304	7.5.0	7.4.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on Treselection for MBMS
ARIB STD-T63-25.306	7.7.0	7.6.0	R2	UE Radio Access capabilities	- Clarification of uplink multicode capability for 1.28Mcps TDD - Code rate limitations for HS-DSCH UE cat 13 and 15
ARIB STD-T63-25.307	7.3.0	7.2.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307
ARIB STD-T63-25.308	7.6.0	7.5.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	- Definitions on Common Paging MAC Flow and Paging MAC Flow - URA_PCH UE receive system information change indication from PCCH - Correction of figure on UE side MAC architecture/MAC-ehs details
ARIB STD-T63-25.319	7.5.0	7.4.0	R2	Enhanced uplink; Overall description; Stage 2	- Clarification of Absolute Grant value for TDD E-DCH - Transmission and reliability of scheduling information for 3.84/7.68 Mcps TDD E-DCH
ARIB STD-T63-25.321	7.8.0	7.7.0	R2	MAC protocol specification	- Inconsistency of MAC header when BCCH mapped to HS-DSCH - Correction to the operation of the timer Treset - Correction to UTRAN side MAC-e depiction - Support of octet aligned HS-DSCH transport block

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					sizes for non-64QAM - transmission scheduling in MAC-ehs entity - Clarification of Scheduling Information Fields for TDD E-DCH - Persistence scaling values and scheduling information for 3.84/7.68 Mcps TDD E-DCH - Editorial corrections to MAC-ehs - Definition of Default-SG-in-DTX-Cycle-2 - Clarification of SI transmission priority over Non-scheduled MAC-e PDU
ARIB STD-T63-25.423	7.8.0	7.7.0	R3	UTRAN Iur interface RNSAP signalling	Correction on MAC-d PDU Size for E-DCH Correction on Abnormal Condition for identical cell on HSDPA/EDCH Serving Cell Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification UL DPCCH Slot Format 5 undefined Addition of IE "Continuous Packet Connectivity HS-SCCH less Deactive Indicator" Clarification of E-DCH non-scheduled Grant Information for 1.28Mcps TDD Introduction of an additional UE Category for 1.28Mcps TDD EDCH Correction of mistake in CR1243 and other similar wording mistakes Correction the condition of UL DPDCH Indicator for E-DCH

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
					Operation
ARIB STD-T63-25.425	7.7.0	7.6.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Transport bearer replacement during HS-DSCH Modification
ARIB STD-T63-25.433	7.8.0	7.7.0	R3	UTRAN Iub interface NBAP signalling	Correction on MAC-d PDU Size for E-DCH Correction on Abnormal Condition for identical cell on HSDPA/E-DCH Serving Cell Correction on HS-DSCH MAC-d PDU Size Format IE in HS-DSCH Information to Modify Abnormal Condition on DL L2 Improvement 7.7.0 7.8.0 E-DCH RL Set ID IE handling Transport bearer replacement during HS-DSCH Modification UL DPCCH Slot Format 5 undefined Addition of IE "Continuous Packet Connectivity HS-SCCH less Deactive Indicator" Supporting multi-frequency operation on MBMS for 1.28Mcps TDD Clarification of E-DCH non-scheduled Grant Information for 1.28Mcps TDD Introduction of an additional UE Category for 1.28Mcps TDD E-DCH Introduction of multi-frequency operation for HSUPA for 1.28Mcps TDD Event C and D for Received Scheduled E-DCH Power Share for Cell Portion Correction the condition of UL DPDCH Indicator for E-DCH Operation

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.435	7.8.0	7.7.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Transport bearer replacement during HS-DSCH Modification
ARIB STD-T63-25.453	7.10.0	7.9.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	PCAP Review Addition of GPS Reference Time Uncertainty Some corrections for 1.28Mcps TDD Impacts of RRC GANSS changes
ARIB STD-T63-26.114	7.4.0	7.3.1	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of the SDP example, alignment of SDP examples, codec mode requests, and correction to Figure 10.1 are carried out.
ARIB STD-T63-26.230	7.1.0	7.0.0	S4	Cellular Text Telephone Modem transmitter Bit Exact C-code	Bug fix to baudot_tonemod function in baudot_functions.c is done.
ARIB STD-T63-26.234	7.5.0	7.4.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Correction of PSS Fast Content Switching and start-up sections, correction to SDP bandwidth specifiers in PSS and clarifications to 3gpp-adaptation are carried out.
ARIB STD-T63-26.235	7.4.0	7.3.0	S4	Packet switched conversational multimedia application; Default codecs	Scope clarifications and editorial changes are done.
ARIB STD-T63-26.236	7.3.0	7.2.0	S4	Packet switched conversational multimedia applications; Transport protocols	Correction of RTP usage for audio for PS conversational multimedia applications is done.
ARIB STD-T63-26.346	7.7.0	7.6.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Corrections to different MBMS XML Schemas, and clarification of the reception reporting procedure start time are carried out.
ARIB STD-T63-31.102	7.12.0	7.11.0	C6	Characteristics of the USIM Application	- Correction of UST due to error in CR implementation - Add the support of EHPLMN in the automatic network selection - MBMS security - Authentication error 9866

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.121	7.3.0	7.2.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Sequence indication error in 7.1.2.4.2 - Essential correction to Access Class Barred IE coding in tables 5-1a and 5-1b
ARIB STD-T63-31.124	7.3.0	7.2.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction to 27.22.4.15 - Essential correction of 27.22.8, seq. 1.3 - Essential correction regarding terminal capabilities - Essential correction to network dependency of several tests
ARIB STD-T63-33.110	7.5.0	7.4.0	S3	Key establishment between a UICC and a terminal	• Clarification of payload in “service request” message • Correction of XML schema • Removal of editor’s notes
ARIB STD-T63-33.203	7.9.0	7.8.0	S3	3G security; Access security for IP-based services	• Correction of Handling unprotected error messages • Correction of integrity protection indicator
ARIB STD-T63-33.220	7.11.0	7.10.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	• 2G GBA Certificate Management • Usage of OMA References – Update of References • Simultaneous handling of Zh' and Zh in a BSF
ARIB STD-T63-34.122	7.4.0	7.3.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	- Correcting the pass fail decision rule in annex F6.3.5 - Adding the test tolerance of performance requirement - Adding the test parameter of midamble allocation for performance requirement - Adding the test case of maximum input level for HS-PDSCH reception - Adding the test case of E-HICH detection parameter - Adding the test case of E-AGCH detection parameter

Revised Standard Number	Version at ARIB STD-T63 Ver.6.50	Version at ARIB STD-T63 Ver.6.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.171	7.1.0	7.0.1	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	- Addition of test case applicability and ICS proforma to TS34.171.
ARIB STD-T63-34.229-1	7.1.0	7.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- New MTSI test cases are added.
ARIB STD-T63-34.229-2	7.1.0	7.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Changes are mainly dependent on TS34.229-1 changes

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	3.11.0	3.10.0	C1	Technical realization of Short Message Service (SMS)	Correction to clearing of mobile not reachable flags

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	4.10.0	4.9.0	C1	Technical realization of Short Message Service (SMS)	Correction to clearing of mobile not reachable flags

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	5.9.0	5.8.1	C1	Technical realisation of Short Message Service(SMS)	Correction to clearing of mobile not reachable flags

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.6.60	Version at ARIB STD-T63 Ver.7.00	3GPPW G	Title	Change Summary
ARIB STD-T63-23.040	6.9.0	6.8.1	C1	Technical realisation of Short Message Service(SMS)	Correction to clearing of mobile not reachable flags
ARIB STD-T63-25.101	6.17.0	6.16.0	R4	UE Radio transmission and reception (FDD)	Corrections of Rx Spurious Emissions and A.8.1 were made.
ARIB STD-T63-25.133	6.22.0	6.21.0	R4	Requirements for support of radio resource management (FDD)	Correction of A.5.5.4 and A.5.6.3 were made.
ARIB STD-T63-25.423	6.17.0	6.16.0	R3	UTRAN Iur interface RNSAP signalling	-Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration
ARIB STD-T63-25.433	6.17.0	6.16.0	R3	UTRAN Iub interface NBAP signalling	-Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration
ARIB STD-T63-26. 111	6.2.0	6.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Use of AMR-WB in 3G-324M
ARIB STD-T63-34. 229-3	6.2.0	6.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- Correction to regular expressions in IMS(RP-080369) - IMS ATS / handling of P-Access-Network-Info header over non secure ports(RP-080369) - IMS ATS / test case 9.1 / handling of authorization header in Register messages(RP-080369)

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.229-3	7.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	(From 6.1.0) - Correction to regular expressions in IMS (RP-080369) - IMS ATS / handling of P-Access-Network-Info header over non secure ports (RP-080369) - IMS ATS / test case 9.1 / handling of authorization header in Register messages (RP-080369) - Extend test model supporting XCAP test (RP-080376)

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.2.0	7.1.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-21.111	7.1.0	7.0.0	C6	USIM and IC card requirements	- Update and correct references and pointers to references
ARIB STD-T63-22.022	7.2.0	7.1.0	S3	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Completion of sentence concerning control key length increase in OTA de-personalisation message

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-23.040	7.1.0	7.0.1	C1	Technical realization of Short Message Service (SMS)	Correction to clearing of mobile not reachable flags
ARIB STD-T63-23.203	7.7.0	7.6.0	S2	Policy and charging control architecture	1. The description of the binding mechanism is updated regarding PCC rules not belonging to AF sessions. 2. The description of termination actions is copied from TS 23.125 and added as a new clause aligning the terminology. Furthermore, it is proposed to add a new event trigger for the situation one or more PCC rules are out of credit. These PCC rules shall be indicated to the PCRF together with the applied termination action. The PCRF can then apply appropriate actions to align the affected services (e.g. informing the AF about this situation such that the service can be terminated) and the authorized resources (e.g. PCC rules are removed or modified). 3. Note that the TFT encoding has been enhanced in Rel-7 stage 3 (TS 24.008) such that a TFT packet filter can be set for the uplink, the downlink or both directions. 4. The description of the information forwarding to the AF is clarified by adding the following bearer level information and events: - IP-CAN-Type, which has been already added to stage 3; - Transmission resource status (established/released/lost), which is required e.g. for the NW mode of bearer establishment and in case of AF performing the charging. 5. Removed the BCM 'NW_only' and mandating the usage of BCM 'MS/NW' if all entities supports network requested procedures.
ARIB STD-T63-23.228	7.12.0	7.11.0	S2	IP Multimedia Subsystem(IMS); Stage 2	1. IMS session setup flows are corrected to remove the detection phase. The initial UE request includes support for QoS Precondition signalling but these are not Required. If

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
					terminating UE does not support them (terminating UE will ignore them in such case). 2. References were updated.
ARIB STD-T63-25.101	7.12.0	7.11.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes as in Release 6 (V.6.17.0) were made. HS-DSCH transport Format used for HS-SCCH type 3 requirements was clarified and Correction of MIMO propagation conditions was made.
ARIB STD-T63-25.102	7.11.0	7.10.0	R4 (TDD)	UE Radio transmission and reception (TDD)	Clarification and Correction for the parameters of TDD MBMS demodulation requirements were made.
ARIB STD-T63-25.105	7.9.0	7.8.0	R4	Base Station (BS) radio transmission and reception (TDD)	New RCDE requirement for 1.28Mcps TDD 64QAM was introduced.
ARIB STD-T63-25.133	7.12.0	7.11.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes as in Release 6 (V.6.22.0) were made.
ARIB STD-T63-25.142	7.9.0	7.8.0	R4	Base station (BS) conformance testing (TDD)	New RCDE requirement for 1.28Mcps TDD 64QAM was introduced.
ARIB STD-T63-25.211	7.6.0	7.5.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	The timing of E-HICH and E-RGCH when downlink DPCH is not configured is explicitly defined.
ARIB STD-T63-25.212	7.8.0	7.7.0	R1	Multiplexing and channel coding (FDD)	It is clarified that the number of HS-PDSCH codes used for the first HS-SCCH less transmission is indicated by the index to the transport format combination table.
ARIB STD-T63-25.213	7.5.0	7.4.0	R1	Spreading and modulation (FDD)	It is clarified how high amplitude ratios should be supported with QPSK when the E-DPCCH boosting is applied with QPSK.
ARIB STD-T63-25.214	7.9.0	7.8.0	R1	Physical layer procedures (FDD)	The operation when the DTX cycle changes during an Uplink DPCCH burst is clarified. The formula for the E-

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
					DPCCH gain factor calculation is modified in order to prevent imaginary E-DPCCH gain factors. The timing of E-HICH and E-RGCH when downlink DPCH is not configured is explicitly defined.
ARIB STD-T63-25.221	7.7.0	7.6.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Applicability of sync case 2
ARIB STD-T63-25.222	7.7.0	7.6.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Correction of E-HICH coding for 1.28 Mcps TDD EUL
ARIB STD-T63-25.223	7.7.0	7.6.0	R1 (TDD)	Spreading and modulation (TDD)	Correction of uplink multicode capability for 1.28 Mcps TDD EUL
ARIB STD-T63-25.224	7.7.0	7.6.0	R1 (TDD)	Physical layer procedures (TDD)	Clarification of the E-AGCH monitoring for 1.28Mcps TDD EUL
ARIB STD-T63-25.304	7.6.0	7.5.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to HCS
ARIB STD-T63-25.308	7.7.0	7.6.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	RLC TM mode allowing for HS-DSCH Change of MAC-d flow definition for MAC-eHS
ARIB STD-T63-25.319	7.6.0	7.5.0	R2	Enhanced uplink; Overall description; Stage 2	Modification of TBS tables and E-TFC selection for LCR TDD Completion of the mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL Triggers, transmission and reliability of Scheduling Information for LCR TDD Clarification of the definition of PRRI for TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	7.9.0	7.8.0	R2	MAC protocol specification	Correction on the Mapping of TRRI field and MSB/LSB for 1.28Mcps TDD EUL Completion of the mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL Change of MAC-d flow definition for MAC-ehs Clarification of method in determining State of a E-TFC for TDD Modification of TBS tables and E-TFC selection for LCR TDD Clarification of the definition of PRRI for TDD HARQ power offset selection during multiplexing of multiple MAC-d flows
ARIB STD-T63-25.401	7.6.0	7.5.0	R3	UTRAN Overall Description	-MAC-ehs in CELL_DCH
ARIB STD-T63-25.423	7.9.0	7.8.0	R3	UTRAN Iur interface RNSAP signalling	-Extended power control gap for E-PUCH in LCR TDD -Support of octet aligned HS-DSCH transport block sizes for non-64QAM -Mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL -Power Control Gap IE handling -RL Parameter Update for E-DCH FDD DL Control Channel Information -Clarification on Transport Bearer Not Requested Indicator -ASN.1 and tabular misalignment -Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration -GANSS Corrections
ARIB STD-T63-25.433	7.9.0	7.8.0	R3	UTRAN Iub interface NBAP signalling	-Extended power control gap for E-PUCH in LCR TDD -Support of octet aligned HS-DSCH transport block sizes for non-64QAM -Mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
					-Power Control Gap IE handling -RL Parameter Update for E-DCH FDD DL Control Channel Information -Clarification on Transport Bearer Not Requested Indicator -ASN.1 and tabular misalignment -Use of UL DPDCH Indicator For E-DCH Operation IE for unsynchronised RL reconfiguration -Modification of E-HICH Time Offset configuration for LCR TDD -GANSS Corrections
ARIB STD-T63-25.453	7.11.0	7.10.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	-GANSS Corrections
ARIB STD-T63-26.071	7.0.1	7.0.0	S4	AMR speech Codec; General description	Correction to version shown on cover
ARIB STD-T63-26.111	7.1.0	7.0.0	S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Use of AMR-WB in 3G-324M
ARIB STD-T63-26.114	7.5.0	7.4.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	- DTMF clarifications - Introduction of network preference management object - max-red alignment and clarifications - Addition of QoS mapping for interactive bearer for real-time text - Clarifications on bandwidths in SDP - Codec Control Messages (CCM) update - Terminology improvements 3G-324M inter-working in GERAN/UTRAN CS - ptime and encapsulation alignment

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
ARIB STD-T63-26.201	7.1.0	7.0.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	Obsoleteness of class C definition
ARIB STD-T63-26.346	7.8.0	7.7.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction to caching directive signaling
ARIB STD-T63-31.111	7.9.0	7.8.0	C6	USIM Application Toolkit (USAT)	-Explicit definition of Provide Local Information values. Explicitly restricts the Local information that a 3GPP ME is to provide in order to avoid 3GPP MEs to be mandated to support for 3GPP2 values (MEID and ESN)
ARIB STD-T63-31.121	7.4.0	7.3.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	-Essential correction to network simulator configuration in test 5.2.1. MCC/MNC information corrected in order to avoid unfair failure of test case. -MNC coding of 4th entry in EFOPLMNwACT is incorrect and in contradiction to its logical description -Essential correction of the test case applicability for terminals not supporting speech calls. Applicability table enhanced to identify tests which should not be applicable for terminals not supporting speech calls.
ARIB STD-T63-31.124	7.4.0	7.3.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	-Essential correction of icon test case applicability. Correction of applicability of Icons-related test cases (B&W/Color/Specific). -Essential correction to 27.22.6.4 in order to align the test cases with the rest of the document where settings are available to allow tests in frequency bands or areas where 3 digit MNCs are required. -Essential correction of test case applicability of 27.22.6.2 and 27.22.4.11. Applicability table corrected for terminals not supporting supplementary service with "Call forwarding unconditional" and "Calling Line Identification Restriction"

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.6.60	3GPP WG	Title	Change Summary
					(change from Mandatory to Optional).
ARIB STD-T63-34.122	7.5.0	7.4.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	- Adding the test case of E-AGCH detection parameters for 1.28Mcps TDD Option (RP-080377) - Adding the test case of E-HICH detection parameter for 1.28Mcps TDD Option (RP-080377) - Adding the test case of EVM with E-DCH16QAM for 1.28Mcps TDD Option (RP-080377) - Modifying the test parameter of HS-SCCH for 1.28Mcps TDD Options (RP-080365)
ARIB STD-T63-34.123-3	7.1.0	7.0.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	- New test cases for MBMS and HSUPA were added. - Corrections to existence test cases - baseline upgrade to March-08 Rel-7
ARIB STD-T63-34.171	7.2.0	7.1.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	- Deletion of PICS 'Support of UE assisted Network Assisted GPS' from 34.171 (RP-080363)
ARIB STD-T63-34.229-1	7.2.0	7.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- New MTSI test cases are added. - Corrections to existence test cases.
ARIB STD-T63-34.229-2	7.2.0	7.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Most of changes are related to 34.229-1 changes.

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.111	8.2.0		C6	USIM and IC card requirements	- Update and correct references and pointers to references.
ARIB STD-T63-22.003	8.0.0		S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Addition of emergency related data to a TS12 call
ARIB STD-T63-22.030	8.1.0		S1	Man-Machine Interface (MMI) of the User Equipment (UE)	ICE: CR to TS 22.030 Correction of ICE access procedure
ARIB STD-T63-23.038	8.0.1		S1	USIM Application Toolkit (USAT/SAT);Service description; Stage 1	Extension of Toolkit communication control Availability of Location information in the UICC Toolkit over HSP Some revision marks appearing in v.8.0.0 have been accepted
ARIB STD-T63-22.067	8.0.0		S1	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	Restriction on pre-emption of TS12 calls in non-public networks
ARIB STD-T63-22.071	8.0.0		S1	Location Services (LCS); Service description; Stage 1	E-UTRAN support for location services
ARIB STD-T63-22.101	8.9.0		S1	Service aspects; Service principles	Inclusion of AIPN within the 3GPP service principles specification Corrections to align the Rel-8 and (latest) Rel-7 versions of TS 22.101 VCC Additional flexibility Clarification of IMS voice service QoS Parameters Provisioning

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					High Speed Interface between the Terminal and the UICC Clarification on handling of emergency number Clarification on Domain Selection for MO and MT Operations Emergency calls and ISIM Requirements for the determination of cell capability usage - when requested by CN Requirements for the addition of a data component to TS12 emergency calls and eCall MSD (data) transfer requirements Serving Environment / Mobile Virtual Network Identification Removal of IMS emergency call identifier Addition of Evolved 3GPP System description and corrections to references Registration in Densely-populated area Graphic format of PLMN name Alignment of SPDI definition between TS22.101 and TS31.102 Correction of the backward compatibility requirement for the HSP interface ICS Requirements – General ICS Requirements - Service Consistency ICS Requirements - Service Continuity ICS Requirements - IMS Services Clarification on graphic format of PLMN name Requirements for eCall

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					ICS - Clarification of Service Continuity ICS - Service Continuity Requirements ICS - Roaming Support Clarify UE requirements for ICS Requirements for Emergency Call-Back CS IP Interconnection requirement Requirements for "In Case of Emergency" (ICE) information Update the related contents about "Evolved Packet System" CS multimedia calls correction of wrong referencing Requirements for transfer for data during emergency calls Requirements for the transfer of eCall Minimum Set of Data RAT indicator ICS requirement for roaming Additional requirements for CS IP interconnection Addition of Unique Device Identifier to Calling Line Identification Clarification of requirements for CS IP interconnection Emergency Call Interaction eCall call back requirements clarification Common IMS Proposals -Requirements for Emergency Calls

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Correction of reference for PLMN architecture Corrections to general requirements for emergency calls Clarification of IMS Emergency Calls Reconfigurable eCall only terminal access to test and reconfiguration services Correction of ICE requirements
ARIB STD-T63-22.105	8.4.0		S1	Services & Service capabilities	Add requirement for authentication of source of SMS and provision of sender's name to 22.105 (replaces SP-060322 containing 22105CR0045_(Rel-8)_S1-060539.doc) Emergency call - addition of data component Support of SMS over generic 3GPP IP access CR0050 on 22.105 for SMS – IM service level interworking SMS service Level interworking
ARIB STD-T63-22.142	8.0.0		S1	Value Added Services (VAS) for Short Message Service (SMS) requirements	Raised by ETSI/MCC to v.8.0.0 following SA approval
ARIB STD-T63-22.146	8.4.0		S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Extends MBMS bearers to all 3GPP systems Relaxing the current requirement that suggests a mandatory support for MBMS Requirement of MBMS Service Subscription for Roaming Users Explicitly define the function Broadcast service priority Removal of SAE aspects to support eMBMS from Rel-8
ARIB STD-T63-22.153	8.1.0		S1	Multimedia priority service	Raised to v.8.0.0 by MCC following SA#37 approval CR to TS 22.153 on applicability of MPS

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.168	8.1.0		S1	Earthquake and Tsunami Warning System (ETWS) requirements; Stage 1	Raised to v.8.0.0 by MCC following SA#39 approval CR to TS 22.168 (ETWS) on high level general requirements CR to TS 22.168 (ETWS) on security requirements
ARIB STD-T63-22.182	8.2.0		S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Removal of unworkablerequirements Called party CAT selection CAT Rules Copy CAT CAT Calling CAT to CAT Clarification on CS CAT Provisioning Update the CAT Interaction definition TISPAN text for CTMIF filtering services Clarification of CS and IMS based CAT Addition of a list of CAT to be supported in the CS domain
ARIB STD-T63-22.228	8.5.0		S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	Network requested IMS session initiation Support of local numbers in the IMS - clarification and corrections Identification of a specific UE when multiple UEs share a single Public User Identity TISPAN Service and Capability requirements for Common IMS NAT support in Common IMS Corrections to definition of "Access Independence" Any IP version support

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Corrections based on LS from TISPAN and Action from SA Plenary User determined user busy Optimal Media Routing Support for IMS Sessions IMS Interconnection requirement Enhancements on access to the IMS Removal of abbreviations and definitions already included in 21.905 Corrections to Interworking with PSTN/ISDN networks Additional requirements for IMS interconnection Emergency communication for fixed NGN Clarification of requirements for IMS interconnection Service Requirements for Common IMS
ARIB STD-T63-22.233	8.0.0		S1	Transparent end-to-end packet-switched streaming service; Stage1	Requirement of avoiding live PSS interoperability problems among encoders and servers
ARIB STD-T63-22.246	8.5.0		S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Requirements on MBMS user service over generic IP accesses Proposed CR to clarify the requirements for roaming (see CR 0009) Requirements for LTE MBMS Television Service Parallel, but regional, MBMS Sessions within one MBMS service. CR on Service Class Handling Requirement for delivery verification in MBMS Requirement for pre-delivery verification in MBMS

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.259	8.5.0		S1	Service requirements for Personal Network Management (PNM); Stage 1	Combination and Separation Management for PANs CR on Corrections and clarifications to TS 22.259 -PNM Clarification on simultaneously access Private network services - Use case and requirements Removal of paragraph numbers from entire document Clarification of functionality and possible simplification. Terminology alignment with CT1 Removal of PNE network functionality from R8 to align with CT1 (does not apply to Rel-9, where PNE is kept)
ARIB STD-T63-22.278	8.5.0		S1	Service requirements for the Evolved Packet System (EPS)	Clarification on QoS classes for evolved 3GPP system Provision of access network information to the UE Requirement for handovers between LTE and 3GPP2 access networks Editorial correction for performance requirements for evolved 3GPP system Performance requirements for evolved 3GPP system Requirement for national roaming between LTE-only operators and 2G/3G-only operators Requirements for service continuity between 3GPP system and WiMAX Addition of 3GPP reference for the evolved 3GPP packet system (EPS) Multiple IP session Voice service continuity between 3GPP RAT and non 3GPP RAT Alignment of terminology with SA2

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Access network discovery Support for efficient delivery of text-based broadcast messages Emergency Call Support Enhancements to Access network discovery and steering of access Multi-access MBMS QoS change requirement clarification Addition of list of applicable specifications for the EPS and amended scope Removal of features (Emergency call and MBMS) from Rel-8 SAE Clarification of EPS access using pre-Rel-8 USIMs WIMAX Forum specification reference in TS 22.278
ARIB STD-T63-23.038	8.1.0		C1	Alphabets and Language-specific information	SMS default alphabet. Generic solution for all languages SMS-addition of turkish national language locking shift table Corrections to single shift language tables for Turkish and Spanish Addition of national language tables for Portuguese
ARIB STD-T63-23.040	8.2.0		C1	Technical realization of Short Message Service (SMS)	SMS Router Optimization language specific extension of the GSM7 alphabet Correction to clearing of mobile not reachable flags
ARIB STD-T63-23.203	8.2.0		S2	Policy and charging control architecture	1. There are separate procedures to describe UE-initiated and NW-initiated IP-CAN session termination. The BBERF, V-PCRF and H-PCRF are introduced in the flows.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					2. It is clarified that the PCRF links a Gx leg and a Gx_x leg via matching of IP addresses and optionally via UE_ID and APN 3. Various changes are realized in section 6.1, as follows - General revision of the organization of 6.1.1 to improve readability (6.1.1) - Alignment to the fact that the UE might have more than one IP address (6.1.1) - Alignment to the fact that a BBERF separated from the PCEF might exist (6.1.1) - Clarification on bearer binding: in order to make the specification and documentation manageable, it is proposed to indicate that the BBF (bearer binding function) performs bearer binding, and that the BBF can be either in the PCEF or in the BBERF (6.1.1) - The term “rule” is used to include both PCC rules and QoS rules (6.1.1) - Clarification that current text on reporting applies for the BBF in the PCEF (6.1.2) - Various minimal corrections to language and indentation (<i>passim</i>) Section 6.2.7 (which is a duplicate of 6.2.8) is removed. 4. Modify 7.2 and 7.7 to include IEs and information currently in TS23.402. - Add an additional leg to the GW Control and QoS Rules Request procedure to allow the BBERF to acknowledge the success of allocating resources corresponding to the deployed QoS rules. - Add an IE to the to allow the GW Control and QoS Rules Provision procedure to allow the PCEF to supply an Event Report containing necessary information to the BBERF off-path, symmetrically to the way the BBERF supplies

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					information to the PCEF in the GW Control and QoS Rules Request. - Ensure that all changes to section 7 are access independent. This means that all access dependent procedure information found in TS23.401 or 23.402 must be added to Appendix A or D as needed. - Changes resulting from TS23.401 access specific interactions with PCC have been made to existing subclauses of A.1.4. - For changes that appear only in PMIP-based S5/S8 support, a new subclause of A.1.4 has been added. 5. - A reference to 3GPP TS 36.300 is added. - The definition of QCI is updated The text from Annex C in 23.401 is included as normative text in TS23.203. - Editorial rearrangement of text and figures to increase readability - Renaming of Packet Loss Rate (PLR) to Packet Error Loss - - Rate (PELR) to clarify that the PELR does not include congestion related packet losses. - PDN GW is changed to PCEF throughout the text and in the figure. - Corrected numbering of notes. 6. - The three cases considered for IP-CAN Session establishment in section 7.2 are moved to the introduction section 7.1 - The BBERF, V-PCRF and H-PCRF are introduced in the GW(PCEF) and PCRF IP-CAN session modification procedures and the flows are updated to cover the cases defined in TS23.402. - BBERF initiated IP-CAN Session modification is introduced as a new section 7.4.Y.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					- The Gateway Control Session Relocation is removed (encapsulated by new section 7.4.Y) 7. QoS rule definition and procedures defined. 8. Credit management defined to be per IP-CAN session. Credit management per PDP context allowed for GPRS (clause A.1). Credit management per PDP context is a valid option I clause A.1 9. Requirements for the request of access network type information are clarified. Requirements for the subscription to changes of access network type are also introduced. 10. - Event trigger and credit re-authorization trigger processing is updated according to the introduction of off-path PCC architecture. - The specific event triggers and credit re-authorizations for the 3GPP accesses are described. - Adding IP-CAN type change to the Credit re-authorization trigger list. - Event subscribing is added to complete the event reporting mechanism. 11. The description of the binding mechanism is updated regarding PCC rules not belonging to AF sessions. 12. Text is added to the clauses describing the V-PCRF and H-PCRF in order to further outline required functionality. 13. Move bearer binding at PCRF into the corresponding GPRS annex.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					14. - Whether the BBERF is applicable and, if so, its allocation to node in the IP-CAN architecture is defined in each normative Annex. - Include the correct figure 5.1.2. Add vPLMN in the Figure 5.1.2: Overall PCC architecture (roaming with home routed access) - Based on renaming resolution, S7x in figures are replaced by Gxx. - EPS does not specify any CAMEL interactions and the pre Rel-8 PCC for GPRS has no specified relationship with CAMEL. Editor's note removed. - The designation S7 for Gx is obsolete. Editor's note removed. - Gy reference to other standards augmented with the TS 32.251. - The use of an OCS proxy for a visited access (local breakout) is allowed. Editor's note removed. - Add the description about the Gxa/c for the Gxx reference point. 15. - QoS rule definition amended to describe the QoS rule, leaving the purpose of the QoS rule open. - Definition provided for the uplink bearer binding verification, and Editor's note removed and the PCEF and BBERF bearer binding verification behaviour is specified. - BBERF allocation resolved in companion CR, Editor's note removed. 16. A new clause in Annex A.4 is added to describe the binding mechanisms. The session binding and PCC Rule authorization has no 3GPP Access (GTP based) specifics. The Bearer Binding is always performed at the PCEF for

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					3GPP Access (GTP-based). 17. A new clause in Annex A.5 is added to describe the binding mechanism. Both the session binding and the PCC and QoS Rule authorization has no 3GPP Access (PMIP-based) specifics. The Bearer Binding is always performed at the BBERF for 3GPP Access (PMIP-based). 18. The following modification are performed: - Clause 6.1.1 is updated to include ARP as input to perform bearer binding. - Clause 6.2.1.1 is updated to define that the PCRF obtains the ARP based on subscription information or service session information. - Clause 6.2.2.4 is updated to indicate that the PCEF uses the ARP to decide whether PCC Rules should be accepted in case of resource limitation. - A new clause 6.2.8.x is created to indicate that the BBERF uses the ARP to in the same way as the PCEF. - Clause 6.3 is updated to include the ARP within the PCC Rule. 19. The text from Annex C in 23.401 is included as a new informative Annex in 23.203. The editor's note in 23.401 stating that the annex should be moved into 23.203 is not included. 20. The description of termination actions is copied from TS 23.125 and added as a new clause aligning the terminology. Furthermore, it is proposed to add a new event trigger for the situation one or more PCC rules are out of credit. These PCC rules shall be indicated to the PCRF together with the applied termination action. The PCRF can then apply appropriate actions to align the affected services (e.g. informing the AF about this situation such that the

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					service can be terminated) and the authorized resources (e.g. PCC rules are removed or modified). 21. It is clarified that both the UE and the AF shall provide all available flow description information. Furthermore, the UE shall use the traffic mapping information to indicate downlink and uplink IP flows. 22. The description of the information forwarding to the AF is clarified by adding the following bearer level information and events: - IP-CAN-Type, which has been already added to stage 3; - Transmission resource status (established/released/lost), which is required e.g. for the NW mode of bearer establishment and in case of AF performing the charging. 23. Clarify that AF may send additional PDN information over the Rx interface. This information is used by the PCRF for session binding and to help selecting the correct PCRF. 24. Removed the BCM 'NW_only' and mandating the usage of BCM 'MS/NW' if all entities supports network requested procedures. 25. Includes a subclause in the architecture clause 5. 26. The description of the information forwarding to the AF is extended by adding a new information that the credit for the service is denied.
ARIB STD-T63-23.204	8.2.0		S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	1. For the IM origination, if the sender of the Instant Message requests to hide its public ID from the recipient, the IP-SM-GW shall not deliver the public ID to the recipient according to the operator policy. 2. It is to clarify the case for delivering the Instant Message

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					to unregistered IMS subscriber via the service level interworking at the terminating side. 3. Error correction: Labeling of flows in diagrams consistent with associated description (correction of previous cleanup) Wording change: consistent use of "Alert service centre"; consistent use of "Short Message" (instead of "SM", "SMS message", "Message", "short message", "SMS", etc.); consistent use of "OK" for stage 3 "SIP 200 OK"; consistent use of "UE" instead of "mobile". Section Heading Consistency: Applied above wording changes to section headings 4. The current text in 6.5b of TS23.204 has captured the above fact however, it requires some modifications to make this mechanism clear. 5. Add steps showing the SM Delivery Report status message being relayed by the HLR/HSS to the IP-SM-GW and the IP-SM-GW sending a new SM Delivery Report status message to the HLR. 6. The "shall be able" phrases are reformulated. The "service level interworking shall be transparent to the end user" requirement is copied from the TR. The delivery notification related requirement is corrected. 7. Status report request in a terminating SM removed.
ARIB STD-T63-23.228	8.5.0		S2	IP Multimedia Subsystem(IMS); Stage 2	1. - The S-CSCF shall be able to supply the AS with information to allow it to execute multiple services in order within a single SIP transaction.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					- It shall be possible to include service indication in filter information, which is used to identify services and order that need be executed on Application Server within a single SIP transaction. 2. Remove specification text that overlaps with that in TS 23.003. Some editorial enhancements are also performed. 3. Text describing an alternative user-id-to-HSS-address resolution mechanism. 4. Indicating the selection of P-CSCF can be based on operator policy, adding a clarification that initial provisioning or 3GPP IMS Management Object can be used for UE's configuration. 5. Local breakout undefined for Rel-8. 6. IMS session setup flows are corrected to remove the detection phase. The initial UE request includes support for QoS Precondition signalling but these are not Required. If terminating UE does not support them (terminating UE will ignore them in such case). 7. All appropriate main body modifications as documented in TS 23.506 except those related to RACS and procedures for Originating and Terminating sequences are suggested for inclusion in TS 23.228. 8. Fixed access procedures for Originating and Terminating sequences as documented in TS 23.506 are suggested for inclusion in TS 23.228. 9. Reference were updated. 10. Adding IP-CAN as an information can be used to trigger re-registration.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					11. Removal of "Adding UE capability as one of Service Point Trigger"
ARIB STD-T63-23.237	8.0.0		S2	IP Multimedia Subsystem (IMS) service continuity	Initial version of the specification for Rel.8
ARIB STD-T63-25.101	8.3.0		R4	UE Radio transmission and reception (FDD)	The present document establishes the minimum RF characteristics of the FDD mode of UTRA for the User Equipment (UE). UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-25.104	8.3.0		R4	Base Station (BS) radio transmission and reception (FDD)	This document establishes the Base Station minimum RF characteristics of the FDD mode of UTRA. UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-25.113	8.2.0		R4	Base station and Repeater electromagnetic compatibility (EMC)	The present document covers the assessment of base stations, repeaters and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC). UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-25.133	8.3.0		R4	Requirements for support of radio resource management (FDD)	The present document specifies requirements for support of Radio Resource Management for FDD. UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-25.141	8.3.0		R4	Base Station (BS) conformance testing (FDD)	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the FDD mode. UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-25.201	8.1.0		R1	Physical layer -General Description	This document describes a general description of the physical layer of the UTRA radio interface. This document also describes the document structure of the 3GPP physical layer specifications, i.e. TS 25.200 series. This document is identical with Version 7.5.0, except that 64QAM is introduced for 1.28 Mcps TDD HSDPA.
ARIB STD-T63-25.211	8.1.0		R1	Physical channels and mapping of transport channels onto physical channels (FDD)	This document describes the characteristics of the Layer 1 transport channels and physical channels in the FDD mode of UTRA. This document is identical with Version

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					7.6.0.
ARIB STD-T63-25.212	8.2.0		R1	Multiplexing and channel coding (FDD)	This document describes the characteristics of the Layer 1 multiplexing and channel coding in the FDD mode of UTRA. This document is identical with Version 7.8.0, except that HS-SCCH information field mapping for simultaneous usage of 64QAM and MIMO, and HS-SCCH orders for activation and deactivation of HS-SCCH-less operation are introduced.
ARIB STD-T63-25.213	8.1.0		R1	Spreading and modulation (FDD)	This document describes spreading and modulation for UTRA Physical Layer FDD mode. This document is identical with Version 7.5.0.
ARIB STD-T63-25.214	8.2.0		R1	Physical layer procedures (FDD)	This document specifies and establishes the characteristics of the physicals layer procedures in the FDD mode of UTRA. This document is different from Version 7.9.0 in some points, e.g. including CQI tables for the combination of 64QAM and MIMO, and introducing HS-SCCH orders for activation and deactivation of HS-SCCH-less operation.
ARIB STD-T63-25.215	8.1.0		R1	Physical layer; Measurements (FDD)	This document contains the description and definition of the measurements for FDD done at the UE and network in order to support operation in idle mode and connected mode. This document is identical with Version 7.4.0, except introducing some E-UTRA measurements for UTRA – E-UTRA interworking.
ARIB STD-T63-25.301	8.2.0		R2	Radio Interface Protocol Architecture	Introduction of Uplink Enhanced CELL_FACH in 25.301
ARIB STD-T63-25.302	8.0.0		R2	Services provided by the physical layer	Upgrade to Relase 8 - no technical change
ARIB STD-T63-25.303	8.0.0		R2	Inter-layer Procedures in Connected Mode	Upgrade to the Release 8 - no technical change

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.304	8.2.0		R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Correction to HCS
ARIB STD-T63-25.305	8.0.0		R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	Upgrade to the Release 8 - no technical change
ARIB STD-T63-25.306	8.3.0		R2	UE Radio Access capabilities	Introduction of 64QAM in UE capability specification for LCR TDD
ARIB STD-T63-25.307	8.1.0		R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS 700 MHz (Bands XII – XIV) in 25.307
ARIB STD-T63-25.308	8.2.0		R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	HS-SCCH orders for HS-SCCH-less operation Introduction of DRX operation in CELL_FACH State RLC TM mode allowing for HS-DSCH Change of MAC-d flow definition for MAC-e-hs
ARIB STD-T63-25.319	8.2.0		R2	Enhanced uplink; Overall description; Stage 2	Modification of TBS tables and E-TFC selection for LCR TDD Completion of the mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL Triggers, transmission and reliability of Scheduling Information for LCR TDD Clarification of the definition of PRRI for TDD Introduction of Enhanced Uplink in CELL_FACH in 25.319
ARIB STD-T63-25.321	8.2.0		R2	MAC protocol specification	HS-SCCH orders for HS-SCCH-less operation Correction on the Mapping of TRRI field and MSB/LSB for 1.28Mcps TDD EUL Completion of the mechanism for Scheduling Information transmission on MAC-e PDU alone for 1.28 Mcps TDD in EUL Correction of a spelling error of E-TFC selection and addition of a missing figure

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Change of MAC-d flow definition for MAC-e-hs Clarification of method in determining State of a E-TFC for TDD Modification of TBS tables and E-TFC selection for LCR TDD Clarification of the definition of PRRI for TDD HARQ power offset selection during multiplexing of multiple MAC-d flows Introduction of 64QAM in MAC for LCR TDD
ARIB STD-T63-25.401	8.0.0		R3	UTRAN Overall Description	This document describes the overall architecture of the UTRAN, including internal interfaces and assumptions on the radio and lu interfaces.
ARIB STD-T63-25.423	8.1.0		R3	UTRAN lur interface RNSAP signalling	This document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN lu mode and between BSSs in GERAN lu mode.
ARIB STD-T63-25.427	8.0.0		R3	UTRAN lur and lub interface user plane protocols for DCH data streams	This document shall provide a description of the UTRAN lur and lub interfaces user plane protocols for Dedicated Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.433	8.1.0		R3	UTRAN lub interface NBAP signalling	This document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over lub Interface.
ARIB STD-T63-26.226	8.0.0		S4	Cellular Text telephone Modem General Description	Requirement to send traditional text telephone signaling in case of native text conversion and CTM negotiation failure
ARIB STD-T63-27.005	8.0.0		C1	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Language specific extension of GSM7 alphabet
ARIB STD-T63-27.007	8.4.1		C1	AT command set for 3G User Equipment (UE)	Introduction of the new AT command AT+CPSB

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Extension of parameter <Act> to include HSDPA- & HSUPA- capability Extension for AT-commands +CPBW, +CPBF and +CPBR AT-command +CVMOD to set the voice call preference AT-commands for location handling Corrections to +CMOLRG AT command for enabling/disabling the backlight TCRT: Short Data Transmission during ongoing VGCS Editorial change: sub clauses 8.51 and 8.52 swapped
ARIB STD-T63-31.102	8.2.0		C6	Characteristics of the USIM Application	-Clarification of content of EFUID . Clarification in order to remove potential interoperability issues when implementing a USIM Phonebook spanning over more than a single set of phonebook files.
ARIB STD-T63-31.111	8.2.0		C6	USIM Application Toolkit (USAT)	-Explicit definition of Provide Local Information values. Explicitly restricts the Local information that a 3GPP ME is to provide in order to avoid 3GPP MEs to be mandated to support for 3GPP2 values (MEID and ESN)
ARIB STD-T63-31.220	8.2.0		C6	Characteristics of the Contact Manager for 3GPP UICC applications	-Two new TSs will be produced, one for testing MEs supporting TS 31.220 and one for testing UICCs supporting TS 31.221.
ARIB STD-T63-31.221	8.4.0		C6	Contact Manager for 3GPP UICC applications - internal interface aspects	-Two new TSs will be produced, one for testing MEs supporting TS 31.220 and one for testing UICCs supporting TS 31.221.
ARIB STD-T63-33.102	8.0.0		S3	3G security; Security architecture	Reserve 8 AMF bits for standardization purposes
ARIB STD-T63-33.106	8.1.0		S3	Lawful interception requirements	Clarification of requirements Alignment of CC encryption statement in ETSI TS 101 671

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.107	8.4.0		S3	3G security; Lawful interception architecture and functions	NSAPI (Network layer Service Access Point Identifier) optional in IRI WLAN IRI at AAA for re-authentication Stage 2 MBMS Interception P-CSCF IMS LI Optional MBMS IRI Registration CR on P-CSCF IMS LI Optional Removing “P” suffix from references Changes for Interception of IRI and CC at a WAG CSCF SIP Event reporting Conference Event Reporting Editorial corrections
ARIB STD-T63-33.108	8.4.0		S3	3G security; Handover interface for Lawful Interception (LI)	NSAPI (Network layer Service Access Point Identifier) optional in IRI. ASN.1 version update Rel-8 Clarification of Usage of GPRS Terminology and umtsQOS WLAN IRI at AAA for re-authentication Missing reference to TS 23.234 Clarifications to FTP filenameing conventions Wrong reference P-CSCF IMS LI Optional Editorial update MBMS LI 33.108
ARIB STD-T63-33.141	8.0.0		S3	Presence service; Security	Changes to support common IMS between 3GPP and 3GPP2

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.203	8.3.0		S3	3G security; Access security for IP-based services	Update to procedures to allow SIP Digest and TLS in IMS Correction of implementation of CR0105 rev 5 Correction of Handling unprotected error messages Addition to use of TLS for Authentication of Non-REGISTERS Enhancements to Digest Procedures for Authentication of Non-REGISTERS Informative Annex on use of authentication methods for non-registration messages Stage 2 text on place for nonce generation Support for dynamic SIP Digest password change Correction of integrity protection indicator Inclusion of NASS-IMS-bundled authentication scheme in Common IMS Co-existence of authentication schemes: how can IMS network entities enforce that Digest is not used over 3GPP access? Co-existence of authentication schemes – Resolution of editor's notes Authentication of non-registration messages in IMS: relation of SIP Digest proxy authentication and IP address check Storage of old passwords in the S-CSCF to avoid password change synchronisation problems Introduction of support for 3GPP2 IMS Access Security Clarification of usage of NULL encryption and TLS

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.210	8.0.0		S3	3G security; Network Domain Security (NDS); IP network layer security	Introducing the support of IKEv2 for EPS Introducing the support of RFC-4303 for EPS
ARIB STD-T63-33.220	8.3.0		S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Introduction of temporary identifier for bootstrapping procedure Correction to HLR - BSF reference point Addition of information for developers on BTID uniqueness 2G GBA Certificate Management Usage of OMA References – Update of Reference Simultaneous handling of Zh' and Zh in a BSF Move Manual TLS certificate handling
ARIB STD-T63-33.222	8.0.0		S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Clarification of usage of NULL encryption and TLS
ARIB STD-T63-33.223	8.0.0		S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Approval at SA#40
ARIB STD-T63-33.234	8.1.0		S3	3G security; Wireless Local Area Network (WLAN) interworking security	Support of IMS emergency call over I-WLAN Note on using an unauthenticated Diffie_Hellman exchange for emergency calls
ARIB STD-T63-33.246	8.1.0		S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Clarification of usage of SRTCP in MBMS Protection of lub when multicasting MBMS user data Clarification of UE IP address in MBMS IP connectivity of the UE in MBMS

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.259	8.1.0		S3	Key establishment between a UICC hosting device and a remote device	Visited NAF Key Centre Requirements Correction of typos in references
ARIB STD-T63-33.310	8.2.1		S3	Network domain security; Authentication framework (NDS/AF)	Specification of TLS protocol profile for future TLS endpoints Correction of MCC implementation error for CR0008 Introduce Manual TLS certificate handling Introducing a certificates-based Zb-interface and adding IKEv2 Editorial correction ("NOTE" -> "Note")
ARIB STD-T63-33.401	8.0.0		S3	3GPP System Architecture Evolution (SAE); Security architecture	SA#40 Approval
ARIB STD-T63-33.402	8.0.0		S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	SA approval
ARIB STD-T63-34.108	8.3.0		R5	Common test environments for User Equipment (UE); Conformance testing	This documents defines testing conditions that are common to several tests - RF, EMC and Protocol - avoiding the need to duplicate the same information for every single test. This document defines default values for a variety of common areas. This document addresses the FDD mode as well as the TDD mode.
ARIB STD-T63-34.121-1	8.3.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	This document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements in addition to requirements for support of RRM (Radio Resource Management) in FDD mode.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.121-2	8.3.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE). This document also specifies a recommended applicability statement for the test cases included in TS 34.121. These applicability statements are based on the features implemented in the UE.
ARIB STD-T63-34.123-1	8.3.0		R5	UE conformance specification;Part 1: Protocol conformance specification	This document is the first part of a multi-part conformance specification valid for 3GPP Release 1999, 3GPP Release 4 and 3GPP Release 5. For at least a minimum set of services, the prose descriptions of test cases will have a matching detailed test case implemented in TTCN. This document may contain descriptions of tests for additional services, but these tests may not have matching TTCN test cases. The present document will not contain any tests on the USIM, or the interface between the UE and the USIM.
ARIB STD-T63-34.123-2	8.3.0		R5	UE conformance specification;Part 2: ICS proforma specification	This document have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).
ARIB STD-T63-34.124	8.2.0		R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	The present document covers the assessment of the user equipment and the ancillary equipment in respect of Electromagnetic Compatibility (EMC). UMTS1500 (1.5GHz band) and others were introduced.
ARIB STD-T63-36.201	8.1.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Long Term Evolution (LTE) physical layer; General description	The present document describes a general description of the physical layer of the E-UTRA radio interface. The present document also describes the document structure of the 3GPP physical layer specifications, i.e. TS 36.200 series.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.211	8.3.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	The present document describes the physical channels and modulation for E-UTRA.
ARIB STD-T63-36.212	8.3.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	The present document specifies the coding, multiplexing and mapping to physical channels for E-UTRA.
ARIB STD-T63-36.213	8.3.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	The present document specifies and establishes the characteristics of the physical layer procedures in the FDD and TDD modes of E-UTRA.
ARIB STD-T63-36.214	8.3.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	The present document contains the description and definition of the measurements done at the UE and network in order to support operation in idle mode and connected mode.
ARIB STD-T63-36.300	8.5.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	Approved at TSG-RAN #35 and placed under Change Control Changes to management-, handover-, paging- and NAS functions, node- synchronization, X2 UP protocol stack, X2 inter cell load management, IP fragmentation, intra-LTE HO, and TA relation to cells in eNB Update on Mobility, Security, Random Access Procedure, etc... Update on MBMS Update on Security, System Information, Mobility, MBMS and DRX Correction of synchronization, handover, trace, eMBMS architecture, and S1 common functions and procedures Clean up and update on security, scheduling, mobility, MBMS and DRX Mobility management Correction of eMBMS functions and NAS handling during

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					X2 handover Update of Stage 2 to incorporate Interworking with cdma2000 CR to 36.300 on NAS States, Persistent Scheduling, C-RNTI Allocation at Handover... RAN3 corrections to 36.300 (CR0011) Introduction of optimized FS2 for TDD System Information, Mobility, QoS and miscellaneous updates Updates to Stage 2 based on Stage 3 progress on CDMA inter-working CR 0016r1 to 36.300 on CSG mobility performance guidelines CR to 36.300 on AS-NAS interaction RAN3 agreed changes to TS 36.300 Network Interface for ETWS support based on CBS solution
ARIB STD-T63-36.302	8.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	Approved at TSG RAN-38 and placed under change control
ARIB STD-T63-36.304	8.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Approved at TSG RAN-38 and placed under change control CR to 36.304 on Miscellaneous corrections Add RAT specific Treselection parameters for CDMA HRPD and 1xRTT Paging Subframe Patterns for FDD and TDD and paging parameters clarification

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Editorial corrections to 36.304 PLMN selection ping-pong control
ARIB STD-T63-36.306	8.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Approved at TSG RAN-38 and placed under change control CR to 36.306 with Update to E-UTRA UE capabilities Update to E-UTRA UE capabilities: CR 0002r1 to 36.306 with status after RAN2 #62
ARIB STD-T63-36.321	8.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Approved at TSG RAN-38 and placed under change control CR to 36.321 with E-UTRA MAC protocol specification update 36.321 CR covering agreements of RAN2 #61bis and RAN2#62
ARIB STD-T63-36.322	8.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Approved at TSG RAN-38 and placed under change control CR0001 for TS 36.322 E-UTRA RLC: Added reference to TS 36.321; Clarified definition of “byte segment”; Renamed “Segmentation Info” to “Framing Info”; Aligned texts to refer to “upper layer” and “lower layer” instead of RRC/PDCP and MAC; Specified that BCCH and DL CCCH is handled by RLC-TM; Added support for duplicate detection by receiving RLC UM entity;; Clarified that RLC SDUs should be delivered to upper layers in sequence;

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Modified description so that MAC indicates “total size of RLC PDUs” together with notification of transmission opportunity instead of “TB size”; Specified that RLC SDU discard is applied for RLC-AM and RLC UM, and introduced the detailed RLC SDU discard procedure; Renamed “RLC reset” to “RLC re-establishment”, and introduced the detailed RLC re-establishment procedure; Removed Editor’s note on RLC flow control (flow control will not be supported by RLC); Restructured the texts on RLC AM and RLC UM receive operations, and added/modified the detailed descriptions; Added description on prioritization of data to transmit (control > data; retransmission > new data); Removed the term STATUS transmitting window; Clarified that retransmission of negatively acknowledged data by STATUS PDU is mandatory and that retransmission of negatively acknowledged data by HARQ delivery failure is optional; Removed Editor’s note on retransmission prohibit (there will be no conditions where negatively acknowledged data shall not be retransmitted); Clarified description on polling trigger “Transmission of last data in buffer”; Added new polling triggers “Every Poll_PDU PDUs” and “Every Poll_Byte Bytes”, introduced their descriptions, and added an Editor’s note that their configurability is FFS; Added description on status reporting trigger “detection of reception failure of an RLC data PDU”;

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Introduced description of the status prohibit function; Removed Editor's note on the possibility to define more RLC control PDUs (no more RLC control PDUs will be defined); Clarified the "most significant bit" and "least significant bit" in an RLC PDU; Removed reference to bit numbers in RLC PDU; Modified the order of fields in the 1byte UMD PDU header; Removed Editor's note on the order of fields in the AMD PDU / AMD PDU segment header (they are now confirmed); Modified definition of ACK_SN; Defined the special value of SOend; Added description on the UM modulus operation; Removed state variables VR(R-SO), VR(X-SO) and VR(UMR); Modified description/definition of state variables VR(MR), VR(X), VR(MS), VR(UR) and VR(UX); Introduced new state variables VR(H) and VR(UH) and their descriptions; Introduced new constants Poll_PDU and Poll_Byte and their descriptions; Clarified that only one T_reordering will be running at one time for an RLC entity; Introduced new timer T_status_prohibit and its description; Editorial corrections were made. Clarification on STATUS PDU size for BSR

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					Removal of Editor's Note on updating of VR(MS) upon expiry of T_reordering Removal of STATUS receiving window Duplicate detection in UM RLC Correction to Polling Procedure Miscellaneous corrections to TS 36.322 Small corrections to RLC CR to 36.322 on correction to RLC PDU reassembly 36.322 CR on 'RLC retransmission count and addition of Configurable Parameters' Service alignments with TS 36.323 (PDCP) CR on the procedure to construct the STATUS PDU
ARIB STD-T63-36.323	8.2.1		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	Approved at TSG-RAN #38 and placed under Change Control CR to 36.323 with Update of E-UTRAN PDCP specification Clarification of the BSR calculation PDCP minor changes Addition of a duplicate discard window Reference to ROHCv2 profiles Bitmap in the DL PDCP status report Corrections to sections 5.5.1.1, 5.5.1.2.1 and 5.8 to correctly implement CR0004 Rev 3 (instead of CR0004 Rev 2 of RP-080412).
ARIB STD-T63-36.331	8.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Approved at TSG-RAN #38 and placed under Change Control CR to 36.331 with Miscellaneous corrections

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
					CR to 36.331 to convert RRC to agreed ASN.1 format CR to 36.331 on Miscellaneous clarifications/ corrections
ARIB STD-T63-36.401	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	The present document describes the overall architecture of the E-UTRAN, including internal interfaces and assumptions on the radio, S1 and X2 interfaces.
ARIB STD-T63-36.410	8.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	The present document is an introduction to the 3GPP TS 36.41x series of technical specifications that define the S1 interface for the interconnection of the Evolved NodeB component of the Evolved Universal Terrestrial Radio Access Network (E UTRAN) to the Core Network of the SAE system.
ARIB STD-T63-36.411	8.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	The present document specifies the standards allowed to implement layer 1 on the S1 interface.
ARIB STD-T63-36.412	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	The present document specifies the standards for signalling transport to be used across S1 interface. S1 interface is a logical interface between the eNB and the E-UTRAN core network. The present document describes how the S1-AP signalling messages are transported over S1.
ARIB STD-T63-36.413	8.2.0		R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	The present document specifies the E-UTRAN radio network layer signalling protocol for the S1 interface. The S1 Application Protocol (S1AP) supports the functions of S1 interface by signalling procedures defined in this document.
ARIB STD-T63-36.414	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	The present document specifies the standards for user data transport protocols and related signalling protocols to establish user plane transport bearers over the S1 interface.
ARIB STD-T63-36.420	8.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	The present document is an introduction to the TSG RAN TS 36.42x series of UMTS Technical Specifications that define the X2 interface. It is an interface for the interconnection of two E-UTRAN NodeB (eNB) components within the Evolved Universal Terrestrial Radio Access Network (E-UTRAN) architecture.

Added Standard Number	Version at ARIB STD-T63 Ver.7.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.421	8.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	The present document specifies the standards allowed to implement Layer 1 on the X2 interface.
ARIB STD-T63-36.422	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	The present document specifies the standards for Signalling Transport to be used across X2 interface. X2 interface is a logical interface between eNBs. The present document describes how the X2-AP signalling messages are transported over X2.
ARIB STD-T63-36.423	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	The present document specifies the radio network layer signalling procedures of the control plane between eNBs in EUTRAN. X2AP supports the functions of X2 interface by signalling procedures defined in this document.
ARIB STD-T63-36.424	8.2.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	The present document specifies the standards for user data transport protocols and related signalling protocols to establish user plane transport bearers over the X2 interface.

(Annex 34)

3GPP ARIB Change history List of Standards Ver. 7.10

12 December 2008

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	4.11.0	4.10.0	R4	UE Radio transmission and reception (TDD)	RF requirements in later releases
ARIB STD-T63-25.307	4.12.0	4.11.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band e in 25.307

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	5.13.0	5.12.0	R4	UE Radio transmission and reception (TDD)	RF requirements in later releases
ARIB STD-T63-25.221	5.7.0	5.6.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	Modification of the timing requirement between HS-SCCH and HSPDSCH for 1.28Mcps TDD
ARIB STD-T63-25.307	5.11.0	5.10.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band e in 25.307
ARIB STD-T63-25.321	5.14.0	5.13.0	R2	MAC protocol specification	HSDPA TBS Table correction for LCR TDD

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.7.10	3GPPW G	Title	Change Summary
ARIB STD-T63-25.101	6.18.0	6.17.0	R4	UE Radio transmission and reception (FDD)	Correction to F-DPCH TPC error rate requirement is corrected. UTRA UE Power Class 3 bis is introduced which upper and lower boundary of the maximum output power is the same to the ones for Power Class 3.
ARIB STD-T63-25.102	6.11.0	6.10.0	R4	UE Radio transmission and reception (TDD)	RF requirements in later releases
ARIB STD-T63-25.133	6.23.0	6.22.0	R4	Requirements for support of radio resource management (FDD)	Correction of UTRAN to GSM resection Scenario 3, corrections to E-TFC restriction test configuration in A.6.6 are made.
ARIB STD-T63-25.221	6.6.0	6.5.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	Modification of the timing requirement between HS-SCCH and HSPDSCH for 1.28Mcps TDD
ARIB STD-T63-25.307	6.8.0	6.7.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band e in 25.307
ARIB STD-T63-25.321	6.16.0	6.15.0	R2	MAC protocol specification	HSDPA TBS Table correction for LCR TDD
ARIB STD-T63-25.402	6.6.0	6.5.0	R3	Synchronisation in UTRAN Stage 2	Enable node synchronization is supported by the user plane protocols for HS-DSCH
ARIB STD-T63-25.425	6.5.0	6.4.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data	Enable node synchronization is supported by the user plane protocols for HS-DSCH

Revised Standard Number	Version at ARIB STD-T63 Ver.7.00	Version at ARIB STD-T63 Ver.7.10	3GPPW G	Title	Change Summary
				streams	
ARIB STD-T63-25.435	6.5.0	6.4.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Enable node synchronization is supported by the user plane protocols for HS-DSCH
ARIB STD-T63-26. 346	6.12.0	6.11.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	H.264 MIME/SDP reference correction, Correction to QoE reception reporting and Correction to the file repair response are done
ARIB STD-T63-31.102	6.21.0	6.20.0	C6	Characteristics of the USIM Application	- Authentication of GBA
ARIB STD-T63-31.103	6.13.0	6.12.1	C6	Characteristics of the ISIM Application	- Authentication of GBA
ARIB STD-T63-31.213	6.1.0	6.0.0	C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	- Correction and completion of Java™ files in Annex D
ARIB STD-T63-34. 229-3	6.3.0	6.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- IMS ATS / test case 9.1 / handling of authorization header in Register messages (RP-080615)

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.495	7.0.0		S1	TISPAN;Services and Capabilities Requirements	Approval by SA#41
ARIB STD-T63-34.114	7.0.0		R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	The present document describes test procedure for the radiated performances measurements of the 3G/2G user equipment/mobile stations (UE/MS) in active mode in both the up- and the downlink. The test procedure is based on 3GPP TR 25.914

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	7.11.0	7.10.0	S1	Service aspects; Service principles	Emergency Call Feature Interaction
ARIB STD-T63-23.203	7.8.0	7.7.0	S2	Policy and charging control architecture	- Remove text where PCRF interacts with AF for the purpose of requesting service information (step 6 in figure 7.4 and in step description). - A new step (14) is added into the GW(PCEF) initiated IP-CAN Session Modification procedure.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					Proposal to adds functionality for state change at a specific time and a new event trigger that, when armed in the PCEF by the PCRF, will cause the PCEF to request PCC rules from the PCRF within a certain time limit.
ARIB STD-T63-23.228	7.13.0	7.12.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Reference to Rx, Ro and Rf removed from 4.13.3 References to NW_Only BCM in GPRS annex are removed.
ARIB STD-T63-25.101	7.13.0	7.12.0	R4	UE Radio transmission and reception (FDD)	With corresponding changes in V6.18.0, Cleanup of HSDPA requirement applicability and correction to MIMO CQI reporting bias tests are made.
ARIB STD-T63-25.102	7.12.0	7.11.0	R4 (TDD)	UE Radio transmission and reception (TDD)	RF requirements in later releases
ARIB STD-T63-25.105	7.10.0	7.9.0	R4	Base Station (BS) radio transmission and reception (TDD)	Modify the Fixed Reference Channels of E-DCH for LCR TDD
ARIB STD-T63-25.133	7.13.0	7.12.0	R4	Requirements for support of radio resource management (FDD)	With the corresponding changes in V6.23.0, modification of new cell identification time (intra-frequency) when UE DRX is enabled is made.
ARIB STD-T63-25.142	7.10.0	7.9.0	R4	Base station (BS) conformance testing (TDD)	
ARIB STD-T63-25.212	7.9.0	7.8.0	R1	Multiplexing and channel coding (FDD)	Correct the table name and the quoted name in 4.10.1A.1.
ARIB STD-T63-25.213	7.6.0	7.5.0	R1	Spreading and modulation (FDD)	Clarify that the highest E-DPDCH amplitude factors should only be used for SF2 in a 2xSF2+2xSF4 configuration when E-DPCCH boosting is applied.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.221	7.8.0	7.7.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Modification of the timing requirement between HS-SCCH and HSPDSCH for 1.28Mcps TDD Correction on the time slot format for LCR TDD MBSFN
ARIB STD-T63-25.222	7.8.0	7.7.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Clarification of E-UCCH Number indicator on E-AGCH for 1.28Mcps TDD Clarification on E-HICH coding for 1.28Mcps TDD
ARIB STD-T63-25.224	7.8.0	7.7.0	R1 (TDD)	Physical layer procedures (TDD)	HS-SCCH and HS-SICH power control clarification for 1.28Mcps TDD Correction of UpPCHPOS bit number in subclause 5.2.7
ARIB STD-T63-25.304	7.7.0	7.6.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	MBSFN Corrections
ARIB STD-T63-25.306	7.8.0	7.7.0	R2	UE Radio Access capabilities	Ki restriction for UE HS-DSCH categories 13 and 15
ARIB STD-T63-25.307	7.4.0	7.3.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band e in 25.307
ARIB STD-T63-25.308	7.8.0	7.7.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Editorial correction to HS-DSCH frame protocol header field
ARIB STD-T63-25.321	7.10.0	7.9.0	R2	MAC protocol specification	• HSDPA TBS Table correction for LCR TDD • Ki restriction for FDD UE HS-DSCH categories 13 and 15 • LCH-ID field structure and mapping to logical channel identity • MAC-es/e RESET for LCR TDD • Modification of TBS tables and E-TFC selection for LCR TDD • Triggers and transmission of Scheduling Information for LCR TDD • The number of reordering PDUs belonging to the

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					- same reordering queue - Clarifications and Corrections of HARQ process for TDD - Recommandation on RLC PDU size selection on E-DCH for TDD Editorial correction to MAC-ehs entity UTRAN Side
ARIB STD-T63-25.402	7.6.0	7.5.0	R3	Synchronisation in UTRAN Stage 2	Enable node synchronization is supported by the user plane protocols for HS-DSCH
ARIB STD-T63-25.423	7.10.0	7.9.0	R3	UTRAN Iur interface RNSAP signalling	DRX-DTX and F-DPCH Description of Priority Queue ID for Enhanced Cell_FACH Correction of SixtyfourQAM-DL-UsageIndicator Addition of 16QAM AG table choice IE Adding abnormal conditions to Continuous Packet Connectivity
ARIB STD-T63-25.425	7.8.0	7.7.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Enable node synchronization is supported by the user plane protocols for HS-DSCH
ARIB STD-T63-25.433	7.10.0	7.9.0	R3	UTRAN Iub interface NBAP signalling	Extension of the ranges of the HS-DSCH / E-DCH Provided Bit Rate Value IEs COMMON TRANSPORT CHANNEL SETUP REQUEST TDD message ASN correction Correct ASN.1 compatibility problem in PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message for 1.28Mcps TDD Addition of 16QAM AG table choice IE Adding abnormal conditions to Continuous Packet Connectivity DRX-DTX and F-DPCH Description of Priority Queue ID for Enhanced Cell_FACH Removing the ambiguity in HS-DSCH Common System Information description Some minor description corrections for E-DCH in LCR TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					Add Additional Time Slot LCR IE in common measuement messages Correction of SixtyfourQAM-DL-UsageIndicator Correction on Enhanced Cell_FACH/Cell_PCH
ARIB STD-T63-25.435	7.9.0	7.8.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Enable node synchronization is supported by the user plane protocols for HS-DSCH
ARIB STD-T63-26.114	7.6.0	7.5.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Introduction of SDP Capability Negotiation Clarifications on the usage of AVPF NACK and PLI, Transmission of H.264 parameter sets and Clarification of H.263 support in MTSI are added
ARIB STD-T63-26.234	7.6.0	7.5.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	"Fast Content Switching" corrections is added
ARIB STD-T63-26.346	7.9.0	7.8.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	H.264 MIME/SDP reference correction, Correction to QoE reception reporting and Correcting file repair response for file-group requests are carried out
ARIB STD-T63-31.102	7.13.0	7.12.0	C6	Characteristics of the USIM Application	- Authentication of GBA
ARIB STD-T63-31.103	7.4.0	7.3.0	C6	Characteristics of the ISIM Application	-Authentication of GBA
ARIB STD-T63-31.121	7.5.0	7.4.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction of TC 8.4 applicability
ARIB STD-T63-31.124	7.5.0	7.4.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of TC 27.22.4.12.1 Seq. 1.6 -Essential correction of test case applicability - Essential correction of TC 27.22.7.8.1

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-31.213	7.1.0	7.0.0	C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	- Correction and completion of Java™ files in Annex D
ARIB STD-T63-34.109	7.3.0	7.2.0	R2	Terminal logical test interface; Special conformance testing functions	Enhancement of UE test loop mode 3 for testing reception of MBMS services operating in MBSFN mode
ARIB STD-T63-34.122	7.6.0	7.5.0	R5	Terminal conformance specification, Radio transmission and reception (TDD)	- New test cases for MBSFN and for UE Transmission Power Headroom were added. Corrections to existence test case
ARIB STD-T63-34.123-3	7.2.0	7.1.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	- Addition of GCF WI-24/25/68 test cases Many corrections to existence test cases
ARIB STD-T63-34.229-1	7.3.0	7.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- New MTSI test cases were added. Existence MTSI test cases were updated.
ARIB STD-T63-34.229-2	7.3.0	7.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Updated explicabilities for clause 12/16/17 test cases - Remove table for MTSI media change - Correct applicability for test case 14.2 - Applicability statements of new MTSI test cases Removal of reference to IMS test case 13.4
ARIB STD-T63-34.229-3	7.1.0	7.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	Addition of IMS-CC test cases. Implementation of IPCanCtl codes as a parallel test component

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.041	8.0.0		C1	Technical Realization of Cell Broadcast Service (CBS)s	Additions to the protocol aspects of CBS for the realisation of ETWS Changes to CBS for the realisation of ETWS Changes to the radio message format aspect of CBS for the realisation of ETWS
ARIB STD-T63-25.425	8.0.0		R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	The present document shall provide a description of the UTRAN RNS-RNS (Iur) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-25.435	8.0.0		R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	This document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.
ARIB STD-T63-26.102	8.0.0		S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Addition of CS over IP User Plane and Nb-framing for GSM_FR and GSM_HR are done
ARIB STD-T63-26.103	8.0.0		S4	Speech codec list for GSM and UMTS	Addition of CS over IP User Plane is done
ARIB STD-T63-26.114	8.0.0		S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Improvements to MTSI 3G324M interworking is done
ARIB STD-T63-26.202	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb	Description of CS over IP User Plane is added
ARIB STD-T63-26.234	8.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and	Description of using Entity-Tags to ensure SDP validity during Fast Content Switching and Informative Annex on PSS Nat traversal are

Added Standard Number	Version at ARIB STD-T63 Ver.7.10		3GPP WG	Title	New Document Summary
				codecs	added
ARIB STD-T63-26.346	8.0.0		S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Enhancements of the QoE feature in MBMS, Registration procedure for MBMS User Service consumption and Transmitting a Full FDT snapshot are added
ARIB STD-T63-31.103	8.0.0		C6	Characteristics of the ISIM Application	-Introduction of support for IMS local breakout

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.153	8.2.0	8.1.0	S1	Multimedia priority service	Trusted domain support
ARIB STD-T63-22.182	8.3.0	8.2.0	S1	Customized Alerting Tones (CAT) Requirements; Stage 1	CAT service notification
ARIB STD-T63-22.278	8.6.1	8.5.0	S1	Service requirements for the Evolved Packet System (EPS)	CR to TS 22.278 ch 5 to align R8 stage 1 and stage 2 wrt service continuity CR to TS 22.278 ch 7.1.4.2 to align stage 1 and stage 2 wrt service continuity Access Network Discovery and Steering of Access CR to 22.278 on Update IP session control and local breakout requirements Requirement on support of CS Fallback - replaced by SP-080652

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					CR 42r3 "de-implemented" and CR 42r5 implemented, as approved during SA#41
ARIB STD-T63-23.038	8.2.0	8.1.0	C1	Alphabets and Language-specific information	Clarification of Locking / Single shift IE's for different languages in a single SM
ARIB STD-T63-23.040	8.3.0	8.2.0	C1	Technical realization of Short Message Service (SMS)	SMS 16 bit port addressing. Clarification of IANA's role Editorial corrections by MCC
ARIB STD-T63-23.203	8.3.1	8.2.0	S2	Policy and charging control architecture	- Remove text where PCRF interacts with AF for the purpose of requesting service information (step 6 in figure 7.4 and in step description). - A new step (14) is added into the GW(PCEF) initiated IP-CAN Session Modification procedure. - Proposal to add two PCC rule attributes for state change at a specific time and a new event trigger that, when armed in the PCEF by the PCRF, will cause the PCEF to request PCC rules from the PCRF within a certain time limit after a state change for a PCC rule. - Removal of NOTE in 4.1 - Clarification of Gxx aspects in 4.3.1 - Removal of four editor's notes in 5.1 and 6.2.1 - Removal of Annex B - When credit re-authorization triggers are received that can not be monitored by the PCEF then the PCEF shall inform the PCRF of the requested triggers and await the acknowledgement before the credit authorization procedure may be considered to be completed. - When event triggers are provisioned to the BBERF then the BBERF shall report the associated parameter values in the response back to the PCRF. - When the PCRF receives the acknowledgement from

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					the BBERF over Gxx it shall notify the PCEF that the requested event triggers have been installed and forward the associated parameters to the PCEF • Removal of redundant description in clause A.4.3.1.2 for those paragraphs already in clause 6.1.1.4 in the main body. • Removal of references to information flows in 23.401 in clause A.4.4 since the information is also available for GERAN and UTRAN access.. • Replace the indication that the requested bearer QoS is received in the IP-CAN session modification by an indication that any information that is modified and the event trigger is armed in the PCEF, the information is sent to the PCRF. • Similar changes are proposed for Annex A.5. • The definition of “Case 2b” defined in clause 7.1 is aligned with the common understanding that the Gateway Control Session is established prior to the IP-CAN Session. • The IP-CAN Session Establishment procedure is updated with some text explaining the agreed behaviour for roaming scenarios. The figure is also updated to fix an editorial error. The first step in the procedure is also corrected. • Clarification is added to functional entities and reference points to include the IP CAN specific parameters that are required for maintaining information in the PCEF and PCRF when UE status information (relevant to an IP-CAN session) changes. • During IP-CAN Session establish, the P-GW provides the mobility tunnelling encapsulation header

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					information to the PCRF, after that , the PCRF provides the mobility tunnelling encapsulation header information to the BBERF. - Clarify the PCRF procedures to indicate clearly under what condition NW-initiated bearer setup is used. - Deleted Annex I - clarify that the BBF is located at the PCEF when there is no BBERF; otherwise, the BBF is always located at the BBERF. Correct several errors in cross references. - Clarify that input for PCC decisions also includes information from the BBERF.
ARIB STD-T63-23.204	8.3.0	8.2.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	Introduces a mechanism in which the IP-SM-GW can subscribe to the HSS in order to be notified when the UE is detected as being reachable by the transport network, e.g. the MME. The IP-SM-GW triggers the short message alert procedure when it receives the notification from the HLR/HSS.
ARIB STD-T63-23.228	8.6.0	8.5.0	S2	IP Multimedia Subsystem(IMS); Stage 2	- Clarify that third party registration is performed toward the SCC AS. - Clarify that the SCC AS needs to include sufficient information for UE to properly correlate related sessions. - Adding cases to cover adding/removing PS media in PS sessions. - Generally clarify the text related to STI and STN.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					- Change 1: Add Rel-7 VCC migration into the scope of this specification. - Change 2: Add missing abbreviations. - Change 3: Add missing architectural requirements for inter non-3GPP access system session continuity. - Change 4: Correct mis-matched reference number and editorial change. - Change 5, 6, 7, 8, 11: Fix editorial errors. - Change 9: Correct Figure 6.3.2.1.2-1. - Change 10: Add missing sentence for Access Leg Update procedure and correct Figure 6.3.2.1.4-1. - Change 12: Fix wrong section numbers, Correct text for step 4,5,6, in subclause 6.3.2.1.8. - Change 13: Correct Figure 6.3.3.6-1. - Change 1: Add definition for “Local Operating Environment” - Change 2: Text corrections related to consistency with the rest of the document - Change 3: Remove non-necessary word “and”. - Change 4: Text correction related to IMS SC UE functionality definition - Change 5: Some text corections as well as keeping of consistency with the rest of the document. • Ambiguous titles and text are modified to remove the ambiguity, and references are updated to reflect similar changes made to 23.292. • Add definitions for Source Access Leg and Target Access Leg. Organize the definitions in alphabetical order. • Align the terminology to use the terms Access Leg and Remote Leg correctly.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					• Replace STI-2 with STN and STI-1 with STI. The flow is changed to show the voice call being transferred first. Other editorial changes to the figure and the text. • Correction of call flow. Clarification on source access leg release and which steps are optional. Adding a note to clarify the limitations of the UE capable of SRVCC. Correction of references to 23.216. • In section 5.1 the inter-UE capability is removed from the definition of the IMS Service Continuity application. • Clarify that UE needs to determine whether session transfer is restricted or not. • Clarifying the scope. Replaces the term SCS with SCC, and corrects a number of references to other specification and clauses. Aligning the procedure in figure of clause 6.2.2.2 with other clauses (including STI). • Remove text related to CS video. • STI and STN definition correction. • The terms are replaced by alternative wording. • Describe the procedure of UE and SCC AS handling of remaining media. • Remove UE awareness of merge. • In section 5.3.1 about SCC AS functionalities, it is added that the SCC AS shall reject the session transfer request received at the SCC AS if the request is not aligned with the operator policy. • Many minor corrections are made to 4.2, 4.3.1.2.2, 4.3.3, 6.3.1.3, 6.3.2.2.1, 6.3.2.1.8, 6.3.2.1.10, 6.3.2.1.11, 6.3.3.2, 6.3.3.4, 8.1.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					- Clearly indicate in the subtitles what use case the information flow applies to for cases not using ICS capabilities and cases using Gm reference point. - Clarified the STI usage in the information flow to remove the conditions. - The scope has a bulleted list various service continuity scenarios in the specification , however, media addition/deletion scenarios are captured in the scope while the specification does have clauses for such scenarios - Removal of unused abbreviations, CSRN - Many terms and definitions and their usage is fixed in the CR namely: - Changed session continuity to service continuity - Missing reference to SCC AS - Added signaling splitting functionality - Added missing application requirements from architectural requirements. Add some clarifications to step 3 in section 6.3.2.1.4.
ARIB STD-T63-25.101	8.4.0	8.3.0	R4	UE Radio transmission and reception (FDD)	As corresponding changes in V7.13.0, Correction to F-DPCH TPC error rate requirement, introduction of UTRA UE Power Class 3bis are made. Corrections to MIMO CQI reporting bias tests, CQI reporting test for single link with varying Ior/Ioc, Clarification of HSDPA performance requirement applicability and CQI reporting test in fading conditions for 64QAM+MIMO are made.
ARIB STD-T63-25.104	8.4.1	8.3.0	R4	Base Station (BS) radio transmission and reception (FDD)	Transmitter and receiver characteristics of 3G Home NodeB are introduced.
ARIB STD-T63-25.113	8.3.0	8.2.0	R4	Base station and Repeater electromagnetic	EMC requirements for BS equipment divided into more than one cabinet are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
				compatibility (EMC)	
ARIB STD-T63-25.133	8.4.0	8.3.0	R4	Requirements for support of radio resource management (FDD)	With the corresponding changes made in V.7.13.0, correction on requirements for UTRA to E-UTRA mobility, introduction of requirements for UTRA to E-UTRA mobility, correction to RRC re-establishment requirements, and introduction of Performance requirements for mobility for Enhanced Uplink for CELL_FACH state and Enhanced UE DRX are made.
ARIB STD-T63-25.141	8.4.0	8.3.0	R4	Base Station (BS) conformance testing (FDD)	Corrections on the section on BS using antenna array are made.
ARIB STD-T63-25.211	8.2.0	8.1.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Introduce the Enhanced Uplink for CELL_FACH state (modify AICH, and define UL/DL timing relation for the Enhanced Uplink in CELL_FACH state and IDLE mode, 7.3A).
ARIB STD-T63-25.212	8.3.0	8.2.0	R1	Multiplexing and channel coding (FDD)	Introduce UE reception of HS-SCCH orders from one non-serving cell for HS-PDSCH serving cell change enhancement. Correct the table name and the quoted name in 4.10.1A.1.
ARIB STD-T63-25.213	8.2.0	8.1.0	R1	Spreading and modulation (FDD)	Clarify that the highest E-DPDCH amplitude factors should only be used for SF2 in a 2xSF2+2xSF4 configuration when E-DPCCH boosting is applied.
ARIB STD-T63-25.214	8.3.0	8.2.0	R1	Physical layer procedures (FDD)	Introduce the Enhanced Uplink for CELL_FACH state (define a new synchronisation procedure, 4.3.2.3A, and a new physical random access procedure, 6.1A). Introduce UE reception of HS-SCCH orders from one non-serving cell for HS-PDSCH serving cell change enhancement.
ARIB STD-T63-25.215	8.2.0	8.1.0	R1	Physical layer; Measurements (FDD)	Define UE transmission power headroom measurement to be applicable in the CELL_FACH state. Remove RSSI and modify RSRQ definition. Modify RSRP definition.
ARIB STD-T63-25.301	8.3.0	8.2.0	R2	Radio Interface Protocol Architecture	Clarification of the CS Counter handling

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.302	8.1.0	8.0.0	R2	Services provided by the physical layer	Introduction of Enhanced Uplink in CELL_FACH in 25.302
ARIB STD-T63-25.304	8.3.0	8.2.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	▪ MBSFN Corrections ▪ Correction and Clarification in HCS Reselection ▪ E-UTRA Introduction/Priority reselection method for inter-frequency and inter-RAT cells ▪ Introduction of HS-DSCH DRX in CELL_FACH state Triggering of cell reselection in Cell_FACH
ARIB STD-T63-25.306	8.4.0	8.3.0	R2	UE Radio Access capabilities	▪ Ki restriction for UE HS-DSCH categories 13 and 15 Introduction of E-UTRA support
ARIB STD-T63-25.307	8.2.0	8.1.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band e in 25.307
ARIB STD-T63-25.308	8.3.0	8.2.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	▪ Editorial correction to HS-DSCH frame protocol header field ▪ Corrections to Enhanced UE DRX ▪ Introduction of HS Serving cell change ▪ Introduction of Dual Cell HSDPA operation Stage 2 updates for Enhanced DL in CELL_FACH state
ARIB STD-T63-25.319	8.3.0	8.2.0	R2	Enhanced uplink; Overall description; Stage 2	Some clarifications and closing of open issues left for Enhanced Uplink in CELL_FACH
ARIB STD-T63-25.321	8.3.0	8.2.0	R2	MAC protocol specification	▪ HSDPA TBS Table correction for LCR TDD • Ki restriction for FDD UE HS-DSCH categories 13 and 15 • LCH-ID field structure and mapping to logical channel identity • MAC-es/e RESET for LCR TDD • Introduction of Enhanced Uplink in CELL_FACH state and Idle mode in 25.321 • TEBS definition update for MAC-i/is • Modification of TBS tables and E-TFC selection for LCR TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					• Triggers and transmission of Scheduling Information for LCR TDD • Editorial correction to MAC-ehs entity UTRAN Side • Clarifications and Corrections of HARQ process for TDD • Recommendation on RLC PDU size selection on E-DCH for TDD The number of reordering PDUs belonging to the same reordering queue
ARIB STD-T63-25.401	8.1.0	8.0.0	R3	UTRAN Overall Description	The supplement of IPv4 encoding in NSAP structure Introduction of Enhanced Uplink in Cell_FACH
ARIB STD-T63-25.423	8.2.0	8.1.0	R3	UTRAN Iur interface RNSAP signalling	Introduction of flexible E-DCH MAC-d PDU size indicator DRX-DTX and F-DPCH Description of Priority Queue ID for Enhanced Cell_FACH Correction of SixtyfourQAM-DL-UsageIndicator Introduction of Enhanced Relocation Introduction of Enhanced Uplink in Cell_FACH Addition of 16QAM AG table choice IE Adding abnormal conditions to Continuous Packet Connectivity
ARIB STD-T63-25.433	8.2.0	8.1.0	R3	UTRAN Iub interface NBAP signalling	Extension of the ranges of the HS-DSCH / E-DCH Provided Bit Rate Value IEs COMMON TRANSPORT CHANNEL SETUP REQUEST TDD message ASN correction Correct ASN.1 compatibility problem in PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE message for 1.28Mcps TDD Addition of 16QAM AG table choice IE Adding abnormal conditions to Continuous Packet Connectivity DRX-DTX and F-DPCH Description of Priority Queue ID for Enhanced Cell_FACH Removing the ambiguity in HS-DSCH Common System

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					Information description Some minor description corrections for E-DCH in LCR TDD Correction of SixtyfourQAM-DL-UsageIndicator Add Additional Time Slot LCR IE in common measurement messages Introduction of Enhanced Uplink in Cell_FACH Introduction of Enhanced UE DRX Correction on Enhanced Cell_FACH/Cell_PCH
ARIB STD-T63-27.007	8.5.0	8.4.1	C1	AT command set for 3G User Equipment (UE)	
ARIB STD-T63-31.102	8.3.0	8.2.0	C6	Characteristics of the USIM Application	-Authentication of GBA - Introduction of ICE information in the UICC -Configuration of Network Connectivity parameters for UICC remote IP connections -Introduction of new access technologies for LTE
ARIB STD-T63-31.111	8.3.0	8.2.0	C6	USIM Application Toolkit (USAT)	- Introduction of a geographical location discovery mechanism in the USIM Toolkit - Correction of a missing closing parenthesis in 31.111 8.19.
ARIB STD-T63-33.107	8.5.0	8.4.0	S3	3G security; Lawful interception architecture and functions	Updates to TS 33.107 to support LI for EPSs
ARIB STD-T63-33.141	8.1.0	8.0.0	S3	Presence service; Security	New normative Annex on GPRS-IMS-Bundled Authentication for Ut interface security Removing annex B of TS 33.141

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	8.4.0	8.3.0	S3	3G security; Access security for IP-based services	Resolution of Editor's note on 3GPP2 NDS requirement Removal of Editor's note in Annex P.4.2 Updates to stage 2 description of NASS-IMS bundled authentication Correction of description of HSS tasks New normative Annex on GPRS-IMS-Bundled Authentication (GIBA) Changes to TS 33.203 due to a new normative Annex on GIBA
ARIB STD-T63-33.210	8.1.0	8.0.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Introduction of Network Domain Security support for 3GPP2 IMS
ARIB STD-T63-33.220	8.4.0	8.3.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Zh and Zh' intra-operator domain reference points
ARIB STD-T63-33.223	8.1.0	8.0.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	CR 33.223: UE registration at Push NAF CR 33.223: GPI Protection
ARIB STD-T63-33.401	8.1.1	8.0.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	KeNB forward security simplification IRAT related changes (merge of CRs 14,24,27) CR-33401: Security Context Selection on IRAT handover to E-UTRAN KeNB derivation when activating cached security context and AS SMC clarifications (merge of CR0011 and CR0015) CR 33.401: Correction of text on security context and authentication data CR 33.401 :Ensuring security context freshness on handover from an SGSN towards MME

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					CR-33401: NAS SMC handling clarifications CR: Algorithm selection cleanup CR: Editorial cleanup of TS 33.401 CR: Removal of editor's note related to key change on-the-fly CR-33401: Replay UE capabilities in the NAS SMC Command message CR 33.401: Completing the specification on air interface ciphering and integrity algorithms inputs CS key derivation in SRVCC Note on SNID IP binding CR on KSI security context desynchronization NAS integrity tag term consistent Key freshness during mobility from E-UTRAN to UTRAN/GERAN Distribution of authentication data from HSS to serving network CR: Additional inputs to EPS Key Derivation Function (KDF) Clarification on MSIN_IMEI confidentiality protected limitation NAS key re-keying EPS key hierarchy SAE: backhaul link management plane protection CR: Add requirement to have replay protection for NAS and RRC

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					MCC editorial corrections
ARIB STD-T63-33.402	8.1.1	8.0.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Resolution of Ed notes on use of EAP-AKA in IKEv2 Resolution of the Ed Notes under clause 8.2.5, TS33.402 Resolution of 2nd And 3rd Editor's Notes in 8.2.2 Resolution of 1st Ed Note in Clause 6.1 TS33.402 MIPv4 Signalling protection between PDN-GW and FA correction of 33.402 Clarification of text on access network identities Clarification of use of AMF separation bit with EAP-AKA access authentication Clarification on handling of authentication vectors in the 3GPP AAA server Resolution of Ed notes on MIPv4 Root key generation update of S3-080756 Resolution of Editor's notes regarding parameter exchange in access authentication Removing the restriction on AKA for Trusted Access Methods to avoid impersonation attacks on S2c Note on SNID IP binding CR on UE-ANDSF security CR on EAP AKA (relaxation scenario) MCC editorial corrections
ARIB STD-T63-34.108	8.4.0	8.3.0	R5	Common test environments for User Equipment (UE); Conformance testing	- New radio bearer combinations were added. - Addition of default configurations / messages. Many corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121-1	8.4.0	8.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Addition the message exceptions Many corrections
ARIB STD-T63-34.121-2	8.4.0	8.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- ICS for TC5.13.1AAA (EVM and IQ offset)(RP-080740) - Multi_RAT Capability condition removal (RP-080554)
ARIB STD-T63-34.123-1	8.4.0	8.3.0	R5	UE conformance specification;Part 1: Protocol conformance specification	Many of the changes are corrections. New test cases related to LCR TDD, CS-HSPA, Enhanced CELL_FACH, ..etc. were added.
ARIB STD-T63-34.123-2	8.4.0	8.3.0	R5	UE conformance specification;Part 2: ICS proforma specification	Most of the changes are related to 34.123-1 changes.
ARIB STD-T63-36.211	8.4.0	8.3.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Include frequency shifting of UE-specific RS (6.10.3.2). Introduce RRC parameters (5.3.4, 5.5.1.3, 5.5.1.4, 5.7.2). Clarifications and corrections; - Slot number for frame structure type 2 (4.2) - Scrambling of ACK/NAK and Rank information in PUSCH (5.3.1) - PUSCH predefined hopping with one subband (5.3.4) - PUCCH configuration (5.4, 5.4.1, 5.4.2) - Demodulation reference signal (5.5.2.1.1, 5.5.2.2.2) - SRS mapping to physical resources (5.5.3.2) - PRACH configuration (5.7.1, 5.7.2, 5.7.3) - Numbering of virtual resource blocks (6.2.3.1, 6.2.3.2) - Resource-element group definition in the fourth OFDM symbol of the first slot for extended CP (6.2.4) - Number of antenna ports for PDSCH (6.4) - Number of OFDM symbols used for PDCCH (6.7) - PDCCH interleaver size (6.8.1, 6.8.2)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					• PHICH to RE mapping (6.9.3) • UE reception of synchronisation signals (6.11.1.2) UL-DL frame timing (8.1)
ARIB STD-T63-36.212	8.4.0	8.3.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Include DCI formats 1B, 1D, and 2A. Modify DCI format 1A to be used for broadcast control (5.3.3.1.3). Correct mapping of ACK/NAK to binary bit values (5.2.2.6, 5.2.3.1, 5.2.3.4, 5.3.5.1). Clarifications and corrections; • Rate matching for turbo coded transport channels (5.1.4.1.2) • Coding and multiplexing of multiple ACK/NAK in PUSCH (5.2.2.6, 5.2.2) • Channel coding of control information in PUSCH (5.2.2.6) • Channel interleaver for PUSCH (5.2.2.8) • Channel coding of control information in PUSCH without UL-SCH data (5.2.4.1) • DCI formats 0, 1, 1A, 1C, 2, 2A, 3, and 3A (5.3.3.1) • Change "MAC ID" and "UE identity" to "RNTI" (5.3.3, 5.3.3.2) CRC attachment (5.3.3.2)
ARIB STD-T63-36.213	8.4.0	8.3.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Include random access response grant procedure (6.2), DL power offset signalling for multi-user MIMO (7.1.5), mapping of differential CQI field to offset levels (7.2), UE specific SRS configurations (8.2), mapping of HARQ-ACK, RI, and CQI offset values (8.6.3), UL ACK/NAK mapping for TDD (10.1), and multi-bit ACK/NAK transmission in TDD (7.3, 10.1, 10.2). Introduce RRC parameters (5.1, 5.2, 7.2, 8.2, 10.1). Clarifications and corrections; • Transmission timing adjustment (4.2.4) • UL power control for PUSCH and PUCCH (5.1)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					• Bit mapping for DCI signalling (5.1.1.1, 5.1.2.1) • DL power allocation (5.2) • Random access procedure (6.1) • Open-loop spatial multiplexing (7.1.3) • DL resource allocation (7.1.6) • DL modulation order and TBS determination (7.1.7) • Aperiodic CQI/PMI/RI reporting using PUSCH (7.2.1) • Periodic CQI/PMI/RI reporting using PUCCH (7.2.2) • CQI definition (7.2.3) • UE sounding procedure (8.2) • PUSCH hopping type 1 (8.4.1) • UL modulation order, RV, and TBS determination (8.6) • PDCCH assignment procedure (9.1.1) • PHICH assignment procedure (9.1.2) Scheduling request transmission (10.1)
ARIB STD-T63-36.214	8.4.0	8.3.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Modify RSRP definition. Remove RSSI and modify RSRQ definition.
ARIB STD-T63-36.300	8.6.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	▪ Correction for Rename of L1/L2 control channel ▪ CR to 36.300 on Paging Channel Description ▪ Proposed updates to Stage 2 for CDMA2000 handover ▪ CR to 36.300 on Semi-Persistent Scheduling ▪ CR to 36.300 on System Information ▪ Clarification of PDCCH description ▪ Removal of DRX interval threshold in 36.300 ▪ CR on Random Access procedure ▪ Transport of NAS messages by AS during Handover ▪ CR to 36.300 capturing home eNB conclusions of RAN2 #63 Changes to TS36.300 agreed in RAN3#61
ARIB STD-T63-36.304	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures	▪ CR on Considerations on various open items in 36.304

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
				in idle mode	- CSG related correction to 36.304 - Clarification of the medium mobility state criteria - Support for Manual CSG ID Selection - USIM less paging occasion calculation - Definition of Qoffset in cell reselection criteria - Correction to Discontinuous Reception for paging - Lifetime of dedicated cell reselection priorities
ARIB STD-T63-36.321	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Clarification on cell reselection parameters - Clarification on data available for transmission for BSR triggering - CR to 36.321 on failure indication after maximum number of HARQ transmissions - Clarifications and Corrections of DL and UL Data Transfer (SCH, RACH and SR) - CR to 36.321 on Buffer size levels for BSR - Clarifications on DRX - Clarification on UE behavior for DRX and configured measurement gaps - Correction to MAC Padding BSR - Correction to UE transmission power headroom report for LTE - Corrections on BSR - CR to 36.321 REL-8 on Format of UL grant in Message 2 - CR to 36.321 REL-8 on PUSCH PUCCH Power Control RNTIs - CR to 36.321 REL-8 on RACH uniform random backoff - E-UTRA MAC protocol specification update - TP for number of HARQ processes and MIMO - Update of MAC dedicated preamble expiry - Handling of Semi-Persistent grants and assignments - Corrections relating to RACH - UL Channel Prioritisation

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
					- Corrections relating to RACH partitioning - Correction on Random Access Response reception behaviour - Upper limit of logical channel id Clarifications and Corrections for HARQ operation at TAT expiry and RACH contention resolution
ARIB STD-T63-36.322	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	- Clarification of polling - Corrections to formatting - The value of ACK_SN for partial STATUS PDU - Error cases for RLC - RLC entity re-establishment - Miscellaneous corrections to RLC specification - Clarification of the reordering timer - Clarification of Triggering Conditions for Status Reports - RLC UMD PDU formats with LI - Correction on UM Receive Operation - Correction for TM RLC entity: 6.1.2.3 Removal of MBMS channels: 6.1.2.3
ARIB STD-T63-36.323	8.3.0	8.2.1	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	- Restructuring of PDCP specification - Miscellaneous PDCP corrections - Correction to the PDCP structure Initial TX_HFN and RX_HFN values
ARIB STD-T63-36.331	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	CR on Miscellaneous corrections and clarifications
ARIB STD-T63-36.401	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Uniqueness of eNB UE X2AP ID Completion of Cell and eNB identifiers Updating the Control Plane Protocol Stack Correction of the description of subscriber and equipment trace

Revised Standard Number	Version at ARIB STD-T63 Ver.7.10	Version at ARIB STD-T63 Ver.7.00	3GPP WG	Title	Change Summary
ARIB STD-T63-36.412	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Correct the wording of common and dedicated procedures Enhancing the understandability of section 7 TS 36.412 Clarification of SCTP Congestion Indication over S1
ARIB STD-T63-36.413	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	changes to TS36.413 agreed in RAN3#61
ARIB STD-T63-36.422	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Correct the wording of common and dedicated procedures SCTP restart function for X2 interface Clarification of SCTP Congestion Indication over X2
ARIB STD-T63-36.423	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	changes to TS36.423 agreed in RAN3#61
ARIB STD-T63-36.424	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	X2 transport bearers

(Annex 35)

3GPP ARIB Change history List of Standards Ver. 7.20

18 March 2009

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	4.12.0	4.11.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	4.12.0	4.11.0	R4 (TDD)	Base Station (BS) Radio Transmission and Reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	4.16.0	4.15.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	5.14.0	5.13.0	R4 (TDD)	UE Radio Transmission and Reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	5.10.0	5.9.0	R4 (TDD)	Base Station (BS) Radio Transmission and Reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	5.13.0	5.12.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPPW G	Title	Change Summary
ARIB STD-T63-22.146	6.8.0	6.7.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage1	Removal of SAE aspects to support eMBMS from Rel-8
ARIB STD-T63-25.102	6.12.0	6.11.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.105	6.7.0	6.6.0	R4 (TDD)	Base Station (BS) radio transmission and reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.123	6.12.0	6.11.0	R4 (TDD)	Requirements for support of radio resource management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases
ARIB STD-T63-25.321	6.17.0	6.16.0	R2	MAC protocol specification	UE restrictions on E-TFCIs
ARIB STD-T63-25.425	6.6.0	6.5.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of CR127, adding codepoints for the new control frames

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.3.0	7.2.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.016	7.1.0	7.0.1	S1	International Mobile Equipment Identities (IMEI)	Correction of SVN sending when network requests IMEI
ARIB STD-T63-22.146	7.3.0	7.2.0	S1	Multimedia Broadcast/Multicast Service ; Stage1	Removal of the requirement for Location dependent data flows for MBMS Broadcast.
ARIB STD-T63-22.246	7.4.0	7.3.0	S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Removal of Location dependent data flows for MBMS Broadcast
ARIB STD-T63-23.203	7.9.0	7.8.0	S2	Policy and charging control architecture	1. It is clarified that the AF (i.e. the P-CSCF) can instruct the PCRF to act on the currently available service information. To enable the PCC functionality to deal with incomplete service information the following enhancement is added for the UE mode: The binding mechanism section is enhanced by describing the PCRF behaviour when it is not possible to associate a PCC rule with a single IP-CAN bearer. 2. The service data flow filter concept is extended to include the encoding possibilities defined for the TFT packet filters.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	7.14.0	7.13.0	S2	IP Multimedia Subsystem(IMS); Stage 2	It is explicitly stated that P-CSCF may send session information to PCRF based on SDP offer in case the resources are available on the originating side.
ARIB STD-T63-25.101	7.14.0	7.13.0	R4	UE Radio transmission and reception (FDD)	Fading CQI requirement at higher geometry for 64QAM operation was introduced. Clarifications of HST propagation conditions and HSDPA performance requirement applicability were made.
ARIB STD-T63-25.102	7.13.0	7.12.0	R4 (TDD)	UE Radio transmission and reception (TDD)	UE reference measurement channel and performance requirement for 384kbps service
ARIB STD-T63-25.104	7.11.0	7.10.0	R4	Base Station (BS) Radio Transmission and Reception (FDD)	Clarification of HST propagation conditions was made.
ARIB STD-T63-25.105	7.11.1	7.10.0	R4 (TDD)	Base Station (BS) radio transmission and reception (TDD)	BS reference measurement channel and performance requirement for 384kbps service Correction to previous entry in history table
ARIB STD-T63-25.123	7.8.0	7.7.0	R4 (TDD)	Requirements for Support of Radio Resource Management (TDD)	Modification for P-CCPCH RSCP intra frequency relative requirement Correction on Intra/Inter-frequency cell power level for UE to correctly evaluate a better ranked cell in idle state and power settings for related test cases Modyfing the inter frequency monitoring ability of UE in TDD 1.28Mcps
ARIB STD-T63-25.141	7.12.0	7.11.0	R4	Base station (BS) conformance testing (FDD)	Clarifications of HS-SCCH structure for Test Model 6, Test model 1 and HST propagation conditions were made.
ARIB STD-T63-25.214	7.10.0	7.9.0	R1	Physical layer procedures (FDD)	Clarify F-DPCH TPC Combining Rule of cells in the same Radio Link Set (B.1). Correct a parameter name in the CPC procedures (6C). Clarify CQI repetition in case of UE DTX (6C.1). Clarify E-DPDCH scaling (5.1.2.6). Correct E-DPDCH gain factor calculation (5.1.2.5B.2). Correct E-

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					DPDCH gain factor interpolation in compressed mode (5.1.2.5B.2.4).
ARIB STD-T63-25.221	7.9.0	7.8.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Correct FPACH description (5A.3.3, 5A.3.3.1). Correct E-PUCH TPC description for 1.28 Mcps TDD (5A.3.14.3).
ARIB STD-T63-25.222	7.9.0	7.8.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Clarify E-DCH RV index selection for 1.28 Mcps TDD (4.9.2.1.2).
ARIB STD-T63-25.224	7.9.0	7.8.0	R1 (TDD)	Physical layer procedures (TDD)	Clarify the precision and quantization mode for E-PUCH parameters for 1.28 Mcps TDD EUL (5.1.1.6.1). Correct HS-SICH synchronization description for 1.28 Mcps TDD (5.2.5).
ARIB STD-T63-25.308	7.9.0	7.8.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Removal of FFSs and correction to the messages used for UE capability signalling
ARIB STD-T63-25.321	7.11.0	7.10.0	R2	MAC protocol specification	Modification of E-RUCCH uplink sync transmission for 1.28Mcps TDD
ARIB STD-T63-25.423	7.11.0	7.10.0	R3	UTRAN Iur interface RNSAP signalling	Indication of E-DPCCH Power Boosting capability Correction on Usage for Transport Bearer Not Requested Indicator Correction of power control gap for 1.28Mcps TDD
ARIB STD-T63-25.425	7.9.0	7.8.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of CR127, adding codepoints for the new control frames
ARIB STD-T63-25.433	7.11.0	7.10.0	R3	UTRAN Iub interface NBAP signalling	Indication of E-DPCCH Power Boosting capability Correction of power control gap for 1.28Mcps TDD Correction on Usage for Transport Bearer Not Requested Indicator
ARIB STD-T63-25.435	7.10.0	7.9.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of CR182, allow node sync also for enhanced L2

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.453	7.12.0	7.11.0	R3	UTRAN Iurc interface Positioning Calculation Application Part (PCAP) signaling	GANSS ASN.1 Correction
ARIB STD-T63-26.114	7.7.0	7.6.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Mode changes for MTSI MGWs, negotiated GBR and AS bandwidths, additional SDP examples for SDP answers and initial codec mode are corrected.
ARIB STD-T63-26.132	7.2.0	7.1.0	S4	Speech and video telephony terminal acoustic test specification	Correction to allow wideband testing for GSM terminals is carried out.
ARIB STD-T63-27.007	7.5.0	7.4.0	C1	AT command set for 3G User Equipment (UE)	Restoring default value for TE character set Introduction of RAC to CGREG
ARIB STD-T63-31.124	7.6.0	7.5.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of TC 27.22.6.5 seq. 5.1 applicability - Essential correction of bearer parameters in browser tests - Pre-conditions for Launch browser - Essential correction of 27.22.4.26.2 Seq. 2.2
ARIB STD-T63-34.123-3	7.3.0	7.2.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	- Addition of Rel7 CPC RRC test cases - Addition of LCR TDD test cases - Corrections to existence test cases
ARIB STD-T63-34.229-3	7.2.0	7.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- Update of TS 34.229-3 from Rel-6 to Rel-7(RP-080740) - Correction of HW Type and HW Length fields in DHCP response messages (RP-080959) - Minor correction of Route header template in the initial Register message (RP-080959)

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.001	8.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Upgraded unchanged from Rel-7
ARIB STD-T63-22.002	8.0.0		S1	Circuit Bearer Services supported by a PLMN	Upgraded unchanged from Rel-7
ARIB STD-T63-22.016	8.0.0		S1	International Mobile Equipment Identities (IMEI)	Upgraded unchanged from Rel-7
ARIB STD-T63-22.022	8.0.0		S3	Personalization of Mobile Equipment (ME) Mobile Functionality	Upgraded unchanged from Rel-7
ARIB STD-T63-22.031	8.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.032	8.0.0		S3	Immediate Service Terminal (IST); Service description - Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.034	8.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.053	8.0.0		S4	Tandem Free Operation(TFO); Service Description; Stage1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.057	8.0.0		S1	Mobile Execution Environment (MExE); Service description; Stage 11	Upgraded unchanged from Rel-7
ARIB STD-T63-22.076	8.0.0		S4	Noise Suppression for the AMR Codec; Service description; Stage 1	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.112	8.0.0		C6	USIM toolkit interpreter; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.140	8.0.0		S1	Multimedia Messaging Service(MMS); Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.141	8.0.0		S1	Presence Service; Stage1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.174	8.0.0		S1	Push service; Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-22.242	8.0.0		S1	Digital Rights Management (DRM); Stage 1	Upgraded unchanged from Rel-7
ARIB STD-T63-23.035	8.0.0		S3	Immediate Service Terminal (IST); Stage 2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.042	8.0.0		C1	Compression algorithm for SMS	Upgraded unchanged from Rel-7
ARIB STD-T63-23.053	8.0.0		S4	Tandem Free Operation(TFO); Service description;Stage2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.057	8.0.0		S2	Mobile Execution Environment (MExE) Functional description;Stage2	Upgraded unchanged from Rel-7
ARIB STD-T63-23.107	8.0.0		S2	Quality of Service (QoS) Concept and Architecture	Upgraded unchanged from Rel-7
ARIB STD-T63-23.207	8.0.0		S2	End-to-End quality of service (Qos) Concept and Architecture	Upgraded unchanged from Rel-7
ARIB STD-T63-23.236	8.0.0		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.111	8.0.0		R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	Upgraded unchanged from Rel-7
ARIB STD-T63-25.144	8.0.0		R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Upgraded unchanged from Rel-7
ARIB STD-T63-25.171	8.0.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Upgraded unchanged from Rel-7
ARIB STD-T63-25.367	8.0.0		R2	Mobility procedures for Home Node B (HNB); Overall description; Stage 2	v1.0.0 was approved at RAN #42 as v8.0.0
ARIB STD-T63-25.402	8.0.0		R3	Synchronisation in UTRAN Stage 2	Support for 3.84 Mcps MBSFN IMB operation
ARIB STD-T63-25.420	8.0.0		R3	UTRAN Iur Interface: General Aspects and Principles	Enable to dynamically control the MBMS services in MBSFN
ARIB STD-T63-25.421	8.0.0		R3	UTRAN Iur interface Layer 1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.422	8.0.0		R3	UTRAN Iur interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.424	8.0.0		R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Upgraded unchanged from Rel-7
ARIB STD-T63-25.426	8.0.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Upgraded unchanged from Rel-7
ARIB STD-T63-25.430	8.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.431	8.0.0		R3	UTRAN Iub interface Layer 1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.432	8.0.0		R3	UTRAN Iub interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.434	8.0.0		R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Upgraded unchanged from Rel-7
ARIB STD-T63-25.442	8.0.0		R3	UTRAN Implementation Specific O&M Transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.446	8.0.0		R3	MBMS synchronisation protocol (SYNC)	The present document specifies the MBMS Synchronisation Protocol. For the release of this specification it is used on Iu towards UTRAN.
ARIB STD-T63-25.450	8.0.0		R3	UTRAN Iupc interface general aspects and principles	Upgraded unchanged from Rel-7
ARIB STD-T63-25.451	8.0.0		R3	UTRAN Iupc interface layer1	Upgraded unchanged from Rel-7
ARIB STD-T63-25.452	8.0.0		R3	UTRAN Iupc interface signalling transport	Upgraded unchanged from Rel-7
ARIB STD-T63-25.453	8.0.0		R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Upgraded unchanged from Rel-7
ARIB STD-T63-25.467	8.0.0		R3	UTRAN architecture for 3G Home NodeB; Stage 2	The present document specifies the UTRAN architecture for 3G Home NodeB (HNB). It covers specification of the functions for UEs not supporting Closed Subscriber Groups (CSG) (i.e. pre-Rel-8 UEs) and UEs supporting CSGs. It also covers HNB specific requirements for O&M.

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.468	8.0.0		R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	The present document specifies the <i>RANAP User Adaption</i> (RUA) between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). It fulfils the HNB- HNB-GW communication requirements specified in 25.467 and is defined over the Iuh – reference point. It provides transparent transport for RANAP messages.
ARIB STD-T63-25.469	8.0.0		R3	UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling	The present document specifies the <i>Home Node B Application Part (HNBAP)</i> between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). It fulfils the HNB- HNB-GW communication requirements specified in 25.467 and is defined over the Iuh – reference point. It provides control and management procedures between HNB and HNB-GW.
ARIB STD-T63-26.071	8.0.0		S4	AMR speech Codec; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.073	8.0.0		S4	AMR speech Codec; C-source code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.074	8.0.0		S4	AMR speech Codec; Test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.077	8.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Upgraded unchanged from Rel-7
ARIB STD-T63-26.090	8.0.0		S4	AMR speech Codec; Transcoding Functions	Upgraded unchanged from Rel-7
ARIB STD-T63-26.091	8.0.0		S4	AMR speech Codec; Error concealment of lost frames	Upgraded unchanged from Rel-7
ARIB STD-T63-26.092	8.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.093	8.0.0		S4	Mandatory speech codec speech processing functions; AMR speech Codec; Source Controlled Rate operation	Upgraded unchanged from Rel-7
ARIB STD-T63-26.094	8.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.101	8.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	Upgraded unchanged from Rel-7
ARIB STD-T63-26.104	8.0.0		S4	ANSI-C code for the floating-point AMR speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.110	8.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.111	8.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Upgraded unchanged from Rel-7
ARIB STD-T63-26.115	8.0.0		S4	Echo Control for Speech and Multi-media Services	Upgraded unchanged from Rel-7
ARIB STD-T63-26.131	8.0.0		S4	Terminal acoustic characteristics for telephony; Requirements	Receiving characteristics harmonization and updated requirements and performance objectives for wideband terminal acoustics are added.
ARIB STD-T63-26.132	8.0.0		S4	Speech and video telephony terminal acoustic test specification	Test methods for wideband terminal acoustics are added.
ARIB STD-T63-26.140	8.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.141	8.0.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Upgraded unchanged from Rel-7
ARIB STD-T63-26.142	8.0.0		S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.171	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.173	8.0.0		S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.174	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.177	8.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	Upgraded unchanged from Rel-7
ARIB STD-T63-26.190	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	Upgraded unchanged from Rel-7
ARIB STD-T63-26.191	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	Upgraded unchanged from Rel-7
ARIB STD-T63-26.192	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.193	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	Upgraded unchanged from Rel-7
ARIB STD-T63-26.194	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	Upgraded unchanged from Rel-7
ARIB STD-T63-26.201	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	Upgraded unchanged from Rel-7
ARIB STD-T63-26.204	8.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.230	8.0.0		S4	Cellular Text Telephone Modem transmitter Bit Exact C-code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.231	8.0.0		S4	Cellular Text telephone Modem; Minimum performance requirements	Upgraded unchanged from Rel-7
ARIB STD-T63-26.233	8.0.0		S4	End-to-end transparent streaming service; General description	Upgraded unchanged from Rel-7
ARIB STD-T63-26.235	8.0.0		S4	Packet switched conversational multimedia application; Default codecs	Upgraded unchanged from Rel-7
ARIB STD-T63-26.236	8.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	Upgraded unchanged from Rel-7
ARIB STD-T63-26.237	8.0.0		S4	IMS based PSS and MBMS User Service; Protocols	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.243	8.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	Upgraded unchanged from Rel-7
ARIB STD-T63-26.244	8.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Addition of file delivery support and addition of recording of media Stream Data are carried out.
ARIB STD-T63-26.245	8.0.0		S4	Transparent end-to-end Packet witched Streaming Service (PSS); Timed text format	Upgraded unchanged from Rel-7
ARIB STD-T63-26.246	8.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Upgraded unchanged from Rel-7
ARIB STD-T63-26.273	8.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Upgraded unchanged from Rel-7
ARIB STD-T63-26.274	8.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Upgraded unchanged from Rel-7
ARIB STD-T63-26.290	8.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Upgraded unchanged from Rel-7
ARIB STD-T63-26.304	8.0.0		S4	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.401	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				codec; General description	
ARIB STD-T63-26.402	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Upgraded unchanged from Rel-7
ARIB STD-T63-26.403	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	Upgraded unchanged from Rel-7
ARIB STD-T63-26.404	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	Upgraded unchanged from Rel-7
ARIB STD-T63-26.405	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Upgraded unchanged from Rel-7
ARIB STD-T63-26.406	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Upgraded unchanged from Rel-7
ARIB STD-T63-26.410	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.411	8.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Upgraded unchanged from Rel-7
ARIB STD-T63-26.412	8.0.0		S4	General audio codec audio processing	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				functions; Source code for 3GP file format	
ARIB STD-T63-27.010	8.0.0		C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Upgraded unchanged from Rel-7
ARIB STD-T63-28.062	8.0.0		S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Upgraded unchanged from Rel-7
ARIB STD-T63-31.101	8.0.0		C6	Characteristics of the ISIM Application	Upgraded unchanged from Rel-7
ARIB STD-T63-31.112	8.0.0		C6	USAT Interpreter Architecture Description; Stage 2	Upgraded unchanged from Rel-7
ARIB STD-T63-31.113	8.0.0		C6	USAT interpreter byte codes	Upgraded unchanged from Rel-7
ARIB STD-T63-31.114	8.0.0		C6	USAT interpreter protocol and administration	Upgraded unchanged from Rel-7
ARIB STD-T63-31.115	8.0.0		C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• Introduction of AES and deprecation of DES
ARIB STD-T63-31.116	8.0.0		C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• Introduction of AES and automatic detection of application data format
ARIB STD-T63-31.120	8.0.0		C6	UICC-terminal interface; Physical, electrical and logical test specification	Upgraded unchanged from Rel-7
ARIB STD-T63-31.124	8.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.130	8.0.0		C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Introduction of a geographical location discovery Java CardÖ API
ARIB STD-T63-31.133	8.0.0		C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	Upgraded unchanged from Rel-7
ARIB STD-T63-33.105	8.0.0		S3	Cryptographic algorithm requirements	Upgraded unchanged from Rel-7
ARIB STD-T63-33.110	8.0.0		S3	Key establishment between a UICC and a terminal	Removing editor's note on IANA registration
ARIB STD-T63-33.204	8.0.0		S3	3G Security; Network Domain Security (NDS); Transaction Capabilities Application Part (TCAP) user security	Upgraded unchanged from Rel-7
ARIB STD-T63-33.221	8.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Upgraded unchanged from Rel-7
ARIB STD-T63-34.109	8.0.0		R2	Terminal logical test interface; Special conformance testing functions	Upgraded unchanged from Rel-7
ARIB STD-T63-34.114	8.0.0		R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Upgraded unchanged from Rel-7 - This document describes test procedure for the radiated performances measurements of the 3G/2G user equipment/mobile stations (UE/MS) in active mode in both the up- and the downlink. The test procedure is based on 3GPP TR 25.914.
ARIB STD-T63-34.123-3	8.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	Update without changes to Rel-8 - This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Uu interface.

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.171	8.0.0		R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Upgraded unchanged from Rel-7 - This document specifies the measurement procedures for the conformance test of the minimum performance requirements for FDD mode of UTRA user equipment (UE) that supports Assisted Global Positioning System (A-GPS).
ARIB STD-T63-34.229-1	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	Updated to 8.0.0 without change. - This document specifies the protocol conformance testing for the User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).
ARIB STD-T63-34.229-2	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE) supporting the Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP).
ARIB STD-T63-34.229-3	8.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	Upgraded unchanged from Rel-7 - This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Gm interface.
ARIB STD-T63-35.201	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Upgraded unchanged from Rel-7
ARIB STD-T63-35.202	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	Upgraded unchanged from Rel-7
ARIB STD-T63-35.203	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3:	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				Implementors' test data	
ARIB STD-T63-35.204	8.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.205	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	Upgraded unchanged from Rel-7
ARIB STD-T63-35.206	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	Upgraded unchanged from Rel-7
ARIB STD-T63-35.207	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.208	8.0.0		S3	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.215	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-35.216	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	Upgraded unchanged from Rel-7
ARIB STD-T63-35.217	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Upgraded unchanged from Rel-7
ARIB STD-T63-35.218	8.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Upgraded unchanged from Rel-7
ARIB STD-T63-36.101	8.4.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The present document establishes the minimum RF characteristics for E-UTRA User Equipment (UE).
ARIB STD-T63-36.104	8.4.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	his document establishes the Base Station minimum RF characteristics of E-UTRA.
ARIB STD-T63-36.113	8.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	The present document covers the assessment of base stations and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).
ARIB STD-T63-36.124	8.0.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	The present document covers the assessment of mobile terminals and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).
ARIB STD-T63-36.133	8.4.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The present document specifies requirements for support of Radio Resource Management for E-UTRA.
ARIB STD-T63-36.141	8.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance	The present document specifies the Radio Frequency (RF) test methods and conformance requirements for Base

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
				testing	Stations (BS) for E-UTRA.
ARIB STD-T63-36.314	8.0.0		R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	v1.0.0 was approved as v8.0.0 and keywords added, white space trimmed, file properties set
ARIB STD-T63-36.508	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	- This document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in conformance tests for the 3rd Generation E-UTRAN User Equipment (UE).
ARIB STD-T63-36.509	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	- This document defines for User Equipment (UE) in E-UTRA FDD or TDD mode those special functions and their activation methods that are required in User Equipment (UE) for conformance testing purposes.
ARIB STD-T63-36.521-1	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	- This document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements as part of the 3G Long Term Evolution (3G LTE).
ARIB STD-T63-36.521-2	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- This document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE).
ARIB STD-T63-36.523-1	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- This document specifies the protocol conformance testing for the 3rd Generation E-UTRAN User Equipment (UE).

Added Standard Number	Version at ARIB STD-T63 Ver.7.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.523-2	8.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	- This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE).

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	8.1.0	8.0.0	S1	Location Services (LCS); Service description, Stage 1	Support for Additional Navigation Satellite Systems (ANSS) for LCS
ARIB STD-T63-22.101	8.10.0	8.9.0	S1	Service aspects; Service principles	ICS Service Continuity
ARIB STD-T63-22.182	8.4.0	8.3.0	S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Removal of DRM note from CAT Alignment of Stage 1 IMS CAT with Stage 3
ARIB STD-T63-22.228	8.6.0	8.5.0	S1	Service requirements for the IP Multimedia Core Network Subsystem (IMS); Stage1	Requirements for capability enabling early media IMS Credentials requirements Correction of wrong reference
ARIB STD-T63-22.278	8.7.0	8.6.1	S1	Service requirements for the Evolved Packet System (EPS)	Deletion of redundant reference
ARIB STD-T63-23.041	8.1.0	8.0.0	C1	Technical Realization of Cell Broadcast	Clarification on EPS architecture and ETWS Instruction to terminal

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
				Service (CBS)	Addition of Warning Security Information CBS Message ID table
ARIB STD-T63-23.203	8.4.0	8.3.1	S2	Policy and charging control architecture	1. It is clarified that the AF (i.e. the P-CSCF) can instruct the PCRF to act on the currently available service information. To enable the PCC functionality to deal with incomplete service information the following enhancement is added for the UE mode: The binding mechanism section is enhanced by describing the PCRF behaviour when it is not possible to associate a PCC rule with a single IP-CAN bearer. 2. A new procedure is added to the Gateway Control and QoS Rules Request section that shows how the event reports are forwarded from the V-PCRF to the PCEF. 3. The description of the binding mechanism is updated by moving the evaluation of the UE provided traffic mapping information to the PCC rule authorization step. Furthermore, some other aspects are improved: - a definition for operator-controlled service is added; - other descriptions could be simplified due to the movement of the traffic mapping evaluation description; - the QoS rule generation is described as part of the authorization step; - an informative Annex is added to explain how the responsibility for the resource management for a service is taken into account by PCC. 4. Clarify the QoS control procedures at the BBERF. 5. Three Editor's Notes in clause 7.6.1 on principles for PCRF selection and discovery are removed. 6. The session linking amended to link Gx session with Gateway Control session. The function of "Gx and Gateway Control session linking" is

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					also included amongst the functions that the V-PCRF can provide. 7. We correct the principle so that when S2c is deployed in the network, all PCRFs should serve all the PDNs for which PCC is enabled. 8. (1) Specified that during HO that results in BBERF relocation, if the BBERF supports NW/UE bearer establishment mode the BBERF is responsible to setup bearers corresponding to all the QoS rules provided by the PCRF during GW control session establishment. Note that CR0116 approved (but unfortunately not implemented) in SA2#66 already states that all active QoS rules are provided to the target BBERF during HO. This is being clarified in S2-086558 to state that QoS rules are only provided in case the BBERF support NW/UE-init mode (Section 7.7.1.2) (2) In case of HO from PMIP to GTP and NW/UE bearer establishment mode is supported, the PCEF is responsible to setup bearers corresponding to pre-existing QoS rules in the target access. (Section 7.4.1) 9. Step 3 of clause 7.4.1 is split into two steps to clear ambiguity. The text and the Figure 7.4.1-1 are adjusted accordingly. "Case 1" (i.e. S5/S8 GTP) was deleted in Step 3 and 13. 10. The Gateway Control Session Establishment is applicable for case 2a initial attach and case 2b. 11. Clarify that PCRF shall set the traffic mapping event trigger when GPRS is used. 12. (1) Added new Section 6.2.1.x under PCRF to cover the principle on how PCRF handles multiple BBERF

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					sessions. (2) Updated IP-Can session modification (7.4.1 and 7.4.2) to state that PCRF does QoS rules provision with multiple BBERFs, if applicable (3) Updated GW control Session establishment (7.7.1) to state that QoS rules corresponding to all active PCC rules are pushed to BBERF supporting NW/UE bearer establishment mode during GW Control session establishment. (4) Updated QoS rules request by BBERF (7.7.3) to cover for the case that the request is from a non-primary BBERF. (5) Updated Qos rules provision (7.7.4) to indicate how the PCRF handles the response based on primary/non-primary BBERF. 13. It is clarified that the ARP contains information about the priority level, the pre-emption capability and the pre-emption vulnerability. A general description of the ARP is added and the PCC rule information is updated accordingly. Aspects of an EPC using a Gn/Gp connection towards a pre-Rel-8 SGSN are clarified. 14. Even triggers for UE requested bearer resource modification and deferred IPv4 address allocation are added. 15. The following modification are performed in Annex A.4 and A.5: - Event reporting function includes a new event trigger to report change of the QoS of the default EPS bearer. - Policy Control function allows modification of the default EPS bearer QoS.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					- PCRF provides authorized default EPS bearer QoS. - PCEF/BBERF modifies the default EPS bearer QoS as requested via Gx/Gxx interfaces. - Current procedures for IP-CAN session establishment and modification includes the provisioning of the Authorized Default EPS Bearer QoS from PCRF into PCEF. - Current procedures for Gateway Control session establishment, QoS Rule request and QoS Rule provisioning includes the provisioning of the Authorized Default EPS Bearer QoS from PCRF into BBERF. The main body in the TS states that reporting of QoS change for an IP-CAN bearer is performed when the Bearer Binding is performed by the PCRF. 16. Removing requirements on messages. 17. The charging information shall be reported separately per QCI and ARP combination used by any of the active PCC rules. 18. Event triggers are associated with all rules at the ERF of an IP-CAN session (ERF is located at PCEF) or Gateway Control session (ERF is located at BBERF). 19. Clarified that APN-AMBR and Default Bearer QoS can be provided as part of the IP-CAN session establishment procedure and GW Control session establishment procedure. Editorial cleanup in Annex A.4.4.2 20. The following modifications are proposed: Clause 6.2.2.4 and 6.4 defines that the Authorized MBR per QCI is sent by the PCRF when the IP-CAN supports non-GBR bearers with a separate MBR.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					21. The PCRF detects and solves the race conditions based on filter comparison, and the fully filter matching and partly matching filter are discussed. 22. The service data flow filter concept is extended to include the encoding possibilities defined for the TFT packet filters. 23. (1) The information about the packet data network (PDN) the user is accessing, if present. (2) "NOTE 2: Only a 1:1 mapping between the Rx session and IP-CAN session is supported in this Release."
ARIB STD-T63-23.228	8.7.0	8.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	1. It is explicitly stated that P-CSCF may send session information to PCRF based on SDP offer in case the resources are available on the originating side. 2. Clarifies that the the same instance ID shall be used for a UE during registration irrespectively of access or function registering on behalf of the UE. 3. Added MRB functional entity description and interfaces. Added the Cr reference point (AS-MRFC). Added references to 23.218 stage 2 specifications. 4. Additional document references, inclusion of general reference section for transcoding functionality implementation options. 5. Correct the reference to 3GPP terminology, and tidy-up/update the References, Definitions and Abbreviations sections to the style/base-text from the current TS template. 6. Define <i>ONCE</i> the ENUM/DNS mechanism to be used, and refer to it from relevant parts of the specification. Also,

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					define <i>ONCE</i> the procedures for handling Tel URIs and SIP URIs representing E.164 addresses. Other minor text enhancements and corrections are also made. 7. The CR adds IMC related changes to 23.228. 8. It is clarified that the P-CSCF list, when provisioned in the UE, can either reside in IMS MO (on the ME) or in the ISIM (on the UICC) It is clarified that, for GPRS, the P-CSCF list may be also obtained from the UE (either from IMS MO or from the ISIM) 9. References are corrected for the following internet drafts draft-ietf-mmusic-ice, draft-ietf-behave-turn, draft-ietf-behave-rfc3489bis, draft-ietf-sip-outbound 10. The GPRS annex is modified to cover a UE accessing IMS using GERAN/UTRAN access, whereas the CN may use either GPRS or EPS beyond the SGSN and also to cover E-UTRAN access with EPC. PDP type IPv4v6 is added. Corrected to reflect IM CN Subsystem throughout the section 11. Added the capability to support mapping of overlap signalling to en block signalling. Added also an informative note to explain the rationale for the support of this functionality
ARIB STD-T63-25.101	8.5.1	8.4.0	R4	UE Radio transmission and reception (FDD)	With corresponding changes in V7.14.0, the introductions of DC-HSDPA requirements and E-AI requirements are made.
ARIB STD-T63-25.104	8.5.0	8.4.1	R4	Base Station (BS) radio transmission and reception (FDD)	With corresponding changes in V7.11.0, the introduction of DC-HSDPA requirements, the additions of adjacent channel protection requirement and regional requirement

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					for Home Node B are made.
ARIB STD-T63-25.133	8.5.0	8.4.0	R4	Requirements for support of radio resource management (FDD)	Introduction of UE Measurement Capability for frequency adjacent to intra-frequency, Introduction of the Enhanced Uplink for CELL_FACH state, Addition of UE delay requirements in switching to target cell on receiving HS-SCCH order, Clarification of the handover from UTRA to E-UTRA and Correction of E-UTRA measurement requirements are made.
ARIB STD-T63-25.141	8.5.0	8.4.0	R4	Base Station (BS) conformance testing (FDD)	With corresponding changes in V7.12.0, the introductions of DC-HSDPA requirements and Home Node B requirements are made.
ARIB STD-T63-25.211	8.3.0	8.2.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (5.3.1, 7.1). Remove a reference to E-AICH (5.3.3.7).
ARIB STD-T63-25.212	8.4.0	8.3.0	R1	Multiplexing and channel coding (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (4.6C.2, 4.7.1, 4.7.2, 4.7.3A). Introduce UE reception of HS-SCCH orders from one non-serving cell (4.6C.2.2.1).
ARIB STD-T63-25.213	8.3.0	8.2.0	R1	Spreading and modulation (FDD)	Clarify scrambling codes in Dual-Cell HSDPA Operation (5.2.2).
ARIB STD-T63-25.214	8.4.0	8.3.0	R1	Physical layer procedures (FDD)	Introduce Dual-Cell HSDPA Operation on Adjacent Carriers (4.2.4, 5.1.2.2.1, 5.1.2.3, 5.1.2.5A, 6A.1, 6A.1.1, 6A.1.2.1, 6A.2.1, 6A.2.3). Introduce UE reception of HS-SCCH orders from one non-serving cell (6A.1.1). Clarify F-DPCH TPC Combining Rule of cells in the same Radio Link Set (B.1). Correct a parameter name in the CPC procedures (6C). Clarify CQI repetition in case of UE DTX (6C.1). Clarify E-DPDCH scaling (5.1.2.6). Correct E-DPDCH gain factor calculation (5.1.2.5B.2). Introduce a minimum reduced E-DPDCH gain factor (5.1.2.6). Correct E-DPDCH gain factor interpolation in compressed mode (5.1.2.5B.2.4). Correct the physical random access procedure for Enhanced Uplink in CELL_FACH State and

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Idle mode (6.1A). Correct HS-DPCCH transmission for Enhanced uplink in CELL_FACH stat (6A.1.1A). Clarify the number of soft channel bits available in the virtual IR buffer (6A.2.1, 6A2.2).
ARIB STD-T63-25.301	8.4.0	8.3.0	R2	Radio Interface Protocol Architecture	Introduction of enhanced CELL_FACH, CELL_PCH and URA_PCH for 1.28Mcps TDD Introduction of MBMS Improved Solution
ARIB STD-T63-25.302	8.2.0	8.1.0	R2	Services provided by the physical layer	Replacement of E-AICH in 25.302 Introduction of enhanced CELL_FACH, CELL_PCH and URA_PCH for 1.28Mcps TDD
ARIB STD-T63-25.304	8.4.0	8.3.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Prevention of excessive OOS due to failure of Squal criterion Introduction of Cell_FACH enhancement operation for LCR TDD Correction to absolute priority reselection procedure Introduction of the UE behavior on PPAC parameter Support for 3.84 Mcps MBSFN IMB operation
ARIB STD-T63-25.305	8.1.0	8.0.0	R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	Support for additional navigation satellite systems in UTRAN
ARIB STD-T63-25.306	8.5.0	8.4.0	R2	UE Radio Access capabilities	Introduction of additional UE categories for 1.28Mcps TDD 64QAM DL Introduction of support of "Enhanced Uplink for CELL_FACH State in FDD" and "Improved L2 for uplink" Addition of UE categories for dual cell HSDPA UE positioning capabilities for support of additional navigation satellite systems 25.306 CR Introduction of UE Measurement Capability on frequency adjacent to intra-frequency Introduction of optional features in Release 8 Support for 3.84 Mcps MBSFN IMB operation

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.308	8.4.0	8.3.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Removal of FFSs and correction to the messages used for UE capability signalling Corrections to Dual Cell operation Introduction the CPC for 1.28Mcps TDD Addition of HS-DPCCH feedback in CELL_FACH state Stage 2 updates for Enhanced CELL_FACH state in 1.28Mcps TDD CR to 25.308 on Introduction of HS-DSCH cell change enhancements
ARIB STD-T63-25.319	8.4.0	8.3.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification of common E-DCH resource usage in 25.319 Update of stage 2 description for Enhanced Uplink for CELL_FACH State and Idle mode in FDD Remove FFS from the figure for MAC-e details Introduction of CPC for 1.28Mcps TDD Stage 2 updates for Enhanced UL in CELL_FACH and Idle mode
ARIB STD-T63-25.321	8.4.0	8.3.0	R2	MAC protocol specification	Removal of the reference to E-TFCI threshold Resource release after collision resolution failure Happy Bit Setting with Improved L2 for UL Add MAC-i PDU in the description of HARQ entity Replacement of E-AICH in 25.321 Correcting E-TFC minimum set behaviour when DCH is configured Introduction of additional UE categories for 1.28Mcps TDD 64QAM DL Clarification of E-RUCCH transmission in 25.321 Correction to the segmentation status field

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					HARQ feedback with Enhanced Uplink in Cell_FACH state Clarification of common E-DCH resource usage in 25.321 UE restrictions on E-TFCIs Setting of NDI after MIMO to non-MIMO configuration Introduction of Dual Cell HSDPA operation CRC attachment point for MAC-is when transmitting MAC-c PDU Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28 Mcps TDD Clarification on SI transmission for CCCH in CELL_FACH state and idle mode Correction to E-TFC selection in CELL_FACH Extension of some procedures to MAC-i/is Clarification of RX-TIMER reset in 25.321 for 1.28Mcps TDD Removal of sentence on RRC provisioning of configuration parameters to the UE for MAC-hs on UTRAN side. Removal of sentence on RRC provisioning of configuration parameters to the UE for MAC-ehs on UTRAN side Modification of E-RUCCH uplink sync transmission for 1.28Mcps TDD
ARIB STD-T63-25.401	8.2.0	8.1.0	R3	UTRAN Overall Description	Enable to dynamically control the MBMS services in MBSFN Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Introduction of Enhanced Relocation
ARIB STD-T63-25.423	8.3.0	8.2.0	R3	UTRAN Iur interface RNSAP signalling	Support for additional navigation satellite systems in RNSAP

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Enable to dynamically control the MBMS services in MBSFN Correction on the range of E-DCH MAC-d Flow Specific Information Indication of E-DPCCH Power Boosting capability Indication of Combination of 64QAM and MIMO Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Introduction of MBMS Improved Solution Correction on procedural text for Enhanced Uplink in Cell_FACH Inter-RAT Mobility to/from E-UTRAN Cause values for Enhanced Relocation Correction on Usage for Transport Bearer Not Requested Indicator Fixing Typo in 5.1 RNSAP Procedure Modules Introduction of HS-DSCH Serving Cell Change Enhancements Introduction of Dual Carrier Correction of tabular format for IE Priority Queue Information for Enhanced FACH/PCH Improved EUL power control at UE power limitation Correction of power control gap for 1.28Mcps TDD
ARIB STD-T63-25.425	8.1.0	8.0.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Correction of CR127, adding codepoints for the new control frames Corrections to IE definitions for E-DCH DATA FRAME and "Definitions" chapter
ARIB STD-T63-25.427	8.1.0	8.0.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Corrections to IE definitions for UL DATA FRAME FOR E-DCH TYPE 2 Improved EUL power control at UE power limitation freeze SIR target

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	8.3.0	8.2.0	R3	UTRAN Iub interface NBAP signalling	Inter-RAT Mobility to/from E-UTRAN New NBAP Measurement on Common E-DCH Resource Usage Support for additional navigation satellite systems in NBAP Indication of E-DPCCH Power Boosting capability Indication of Combination of 64QAM and MIMO Some corrections for common E-DCH Adding Common E-DCH implicit release indicator IE into NBAP message Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Correction of power control gap for 1.28Mcps TDD E-RNTI in RL Setup Request Correction on Usage for Transport Bearer Not Requested Indicator Introduction of HS-DSCH Serving Cell Change Enhancements Introduction of Dual Carrier Improved EUL power control at UE power limitation Support of IMB
ARIB STD-T63-25.435	8.1.0	8.0.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Improve the data rate for Enhanced Cell_FACH state in FDD Introduction of the Enhanced CELL_FACH, CELL_PCH, URA_PCH state for 1.28Mcps TDD Corrections to IE definitions for E-DCH DATA FRAME and Common MAC flow Correction of CR182, allow node sync also for enhanced L2
ARIB STD-T63-26.102	8.1.0	8.0.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Corrections to CS over IP User Plane is carried out.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-26.103	8.1.0	8.0.0	S4	Speech codec list for GSM and UMTS	Corrections to CS over IP User Plane is carried out.
ARIB STD-T63-26.114	8.1.0	8.0.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	MTSI QoE configuration and reporting, negotiated GBR and AS bandwidths, additional SDP examples for SDP answers, initial codec mode and RTP/RTCP symmetric media stream are corrected.
ARIB STD-T63-26.234	8.1.0	8.0.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Introduction of the support for scaled playout and introduction of PSS Timeshifting Functionality are added.
ARIB STD-T63-26.346	8.1.0	8.0.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Time-shifting capability indication for MBMS services, updates of references in MBMS, hybrid streaming delivery appendix, corrections of the FEC framework for MBMS streaming, additional guideline to use FEC streambundling for MBMS and interleaving for fast channel switching and tune-in time in FEC-protected MBMS services are added.
ARIB STD-T63-27.007	8.6.0	8.5.0	C1	AT command set for 3G User Equipment (UE)	
ARIB STD-T63-31.102	8.4.0	8.3.0	C6	Characteristics of the USIM Application	- USIM provisioning for home (e)NodeB - Support for LTE in the EF-Operator PLMN List - Correction to Example for MMS Issuer/User Connectivity Parameters - Addition of I-WLAN related files and procedures - Storage of EPS Mobility Management parameters
ARIB STD-T63-31.111	8.4.0	8.3.0	C6	USIM Application Toolkit (USAT)	- Correct Geographical Location Request Terminal response value - I-WLAN Steering of Roaming Refresh Command
ARIB STD-T63-31.221	8.0.0	1.0.0	C6	Contact Manager for 3GPP UICC applications - internal interface aspects	- Approved new specification of v2.0.0 on Contact Manager API for Java Card

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.102	8.1.0	8.0.0	S3	3G security; Security architecture	Correction on the storage of keys on the USIM
ARIB STD-T63-33.107	8.6.0	8.5.0	S3	3G security; Lawful interception architecture and functions	Editorial corrections to 33.107 Corrections and clarifications of LI for EPS and alignment with latest version of SAE stage 2 specs. Clarification on 3G DT with the GGSN
ARIB STD-T63-33.108	8.5.0	8.4.0	S3	3G security; Handover interface for Lawful Interception (LI)	Clarification of encoding of Access Point Name (APN) LI Handover Interface for SAE/EPS Clarification on 3G DT with the GGSN
ARIB STD-T63-33.203	8.5.0	8.4.0	S3	3G security; Access security for IP-based services	Usage of SIP digest and NBA values between the S-CSCF and the HSS Consistent handling of the integrity-protected flag and Inclusion of authentication procedures related to ICS Correcting the IMC text Editorial corrections in Annex P3 and P.4.2 Removal of SIP Digest Authentication Vector Editor's Note Usage of AVs for authentication of Register and Non-Register messages ISIM terminology
ARIB STD-T63-33.210	8.2.0	8.1.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Update of IKEv2 SA profile
ARIB STD-T63-33.220	8.5.0	8.4.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Add FC number space value allocations and clarification on length parameter Using Unicode Standard Normalization Form when encoding using UTF-8

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.223	8.2.0	8.1.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	GBA-Push resolution of editors notes and corrections Introduction of UE-Id type indicator Push NAF authorization
ARIB STD-T63-33.246	8.2.0	8.1.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Clarification of MBMS authorization
ARIB STD-T63-33.259	8.2.0	8.1.0	S3	Key establishment between a UICC hosting device and a remote device	Input parameter encoding shall rely on TS 33.220 KDF Removing editor's note on IANA registration
ARIB STD-T63-33.401	8.2.1	8.1.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	Specification of security algorithms for EPS KDFs for EPS shall not be negotiated Removal of editor's notes that are resolved or are related to new functionality KeNB Derivation During inter-RAT TAU Inter-RAT change from GERAN/UTRAN to E-UTRAN with mapped context Storage of EPS NAS security context in the UE Clarification in definitions Correction of definition and usage of Key Set Identifier (KSI) in EPS Correction of handling of EPS security contexts Correction of storage of security contexts during state transitions, handling of mapped contexts Introducing the generic term "eKSI" for the Key Set Identifier in E-UTRAN Correction of definition of GUTI in EPS Transferring unused AVs

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Corrections to the KDF input parameters RLF recovery procedure Addition of missing requirements to drop messages with wrong or missing MAC NAS uplink and downlink ciphering Correction and addition of the security features in SRVCC. Correction of idle mode mobility from E-UTRAN to UTRAN Correction of idle mode mobility from UTRAN to E-UTRAN Correction of handover procedure from E-UTRAN to UTRAN Correction of definition and usage of Key Set Identifier (KSI) in EPS EPS algorithm selection and bidding down attack and added MME Algorithm selection with a prioritized list Correction of Handover from UTRAN to E-UTRAN and activation of cached context Removal of editor's notes related to section 6 and clarification of ASME Inter-RAT change from GERAN/UTRAN to E-UTRAN with mapped context Clarification on MME requirement in UTRAN-eUTRAN handover Correction of idle mode mobility from UTRAN to E-UTRAN Storage of cached EPS NAS security contexts after security interworking from UTRAN to E-UTRAN E-UTRAN key identification Clarification on User Data Protection

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Corrections to section 6.2 describing the key hierarchy Correction of text on handling of security capabilities in handover from E-UTRAN to UTRAN (section 9.2.1) Correction of text on activation of security in E-UTRAN and consequences for Handover from E-UTRAN Harmonising clauses 9.2.2 on HO from UTRAN and 10.3.2 on HO from GERAN with clause 7.2.9 on key-change-on-the fly Correction of S1/X2 transport protection Removal of editor's notes on security requirements on eNodeB Requirements on secure environment within eNB Corrections to Section 7.2.3 on E-UTRAN key lifetime E-UTRAN handover key derivations correction Corrections to security procedures for interworking between E-UTRAN and GERAN and change of subclause titles Changing titles and introductory text of subclauses relating to inter-RAT idle mode procedures – UTRAN case Editorial correction
ARIB STD-T63-33.402	8.2.1	8.1.1	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Change on some names of interfaces in 33.402 and an editorial modification MIPv4 SPI Collision Avoidance MN-HA Key generation during initial attach or additional PDN connectivity Handling of Mobility Keys during Re-authentication Alignment of TS 33.402 to draft-arkko-eap-aka-kdf and

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					clarification of indication of type of authentication from AAA to HSS Resolution of Editor's note on tunnel fast re-authentication Clarifications to security procedures for DSMIPv6 Adding EMSK derivation in clause 6.2 Fast re-authentications for DSMIPv6 AMF separation bit for untrusted non-3gpp access for S2c Finalising the PMIP security requirements Key Derivation Function to derive CK', IK' from CK, IK for non-3GPP access to EPC Change on some names of interfaces in 33.402 and some corrections Removing editor's note on legacy UEs Correction of text on access authentication for untrusted access Correction of text on access authentication for untrusted access Clarification of indication of type of authentication from AAA to HSS and on access network authorization in AAA server Modification of the MIPv4 bootstrapping ANDSF security MIPv4 support for Additional PDN connectivity MCC editorial correction
ARIB STD-T63-34.108	8.5.0	8.4.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Addition of default RAB / RB / messages for LCR TDD. - Addition of Rel-7 IEs / RF E-DCH test procedure.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					- Some corrections.
ARIB STD-T63-34.121-1	8.5.0	8.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Addition of HSDPA performance test cases Corrections and clarifications
ARIB STD-T63-34.121-2	8.5.0	8.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Clarification of titles for MIMO test cases 9.3.7A and 9.3.7B(RP-080955) - Applicability changes for Demodulation of HS-DSCH in 34.121-2.(RP-080956)
ARIB STD-T63-34.123-1	8.5.0	8.4.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Addition of LCR TDD / E-FACH test cases - Corrections to existence test cases
ARIB STD-T63-34.123-2	8.5.0	8.4.0	R5	UE conformance specification;Part 2: ICS proforma specification	- Changes are related to TS34.123-1 changes
ARIB STD-T63-36.201	8.2.0	8.1.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Long Term Evolution (LTE) physical layer; General description	Add definitions for two types of modulo operations in Appendix A.
ARIB STD-T63-36.211	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Align and introduce missing RRC parameters. Clarify the link between the amplitude scaling factors defined in TS 36.211 and the corresponding power computed in TS 36.213. Introduce the combination of extended cyclic prefix in downlink and normal cyclic prefix in uplink for TDD, and also introduce the combination of normal cyclic prefix in downlink and extended cyclic prefix in uplink for TDD (4.2). Correct the scrambling sequence for PUSCH (5.3.1). Clarify the scrambling sequence initialization for PUSCH (5.3.1) and PDSCH (6.3.1). Correct PUSCH hopping pattern. Clarify the set of physical resource blocks to be used for PUSCH (5.3.4).

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Clarify PUCCH formats 1/1a/1b. Define shortened PUCCH format 1 (5.4.1). Clarify scrambling of ACK/NAK bits for PUCCH format 2a/2b (5.4.2). Correct demodulation reference signal sequence for PUSCH (5.5.2.1.1) and PUCCH (5.5.2.2.1). Correct the mapping of cyclic shift field in DCT format 0 (5.5.2.1.1). Clarify SRS sequence (5.5.3.1). Correct SRS configuration in UpPTS (5.5.3.2). Clarify SRS subframe configuration (5.5.3.3). Clarify the random access preamble transmission timing (5.7.1, 5.7.2). Introduce PRACH Resource Index (5.7.1). Clarify the usage of the resource elements reserved for reference signals but not used for transmission (6.2.4, 6.6.4). Correct layer mapping for transmit diversity with four antenna ports (6.3.3.3, 6.3.4.3). Correct precoding for large delay CDD (6.3.4.2.2). Clarify the transmission of Physical control format indicator channel (6.7). Correct the definition of UE-specific reference signals (6.10.3).
ARIB STD-T63-36.212	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Correct specification of the number of DL HARQ processes for TDD (5.1.4.1.2). Clarify mapping of information bits (5.2.2.1, 5.3.1.1, 5.3.2.1, 5.3.3.1). Clarify input bits corresponding to 2-bit HARQ-ACK and 2-bit RI. Correct control MCS offset and SRS symbol puncturing. Clarify ACK/NACK transmission on PUSCH for TDD (5.2.2.6). Clarify the number of PUCCH-based CQI/PMI bits when reported on PUSCH (5.2.2.6.4). Clarify RI bit field mapping for PUCCH (5.2.3.3.1). Clarify BCH transport block size (5.3). Correct

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					the definition of DCI formats 0/1/1A/1B/1D/2/2A (5.3.3.1). Clarify RNTI bit mapping for PDCCH CRC scrambling (5.3.3.2).
ARIB STD-T63-36.213	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Align and introduce missing RRC parameters. Correct description for radio link monitoring (4.2.1). Clarify path loss definition and Delta_TF. Correct the calculation of PUSCH PSD (5.1.1.1). Clarify reset of power control and random access response message (5.1.1.1, 5.1.2.1, 6.2). Correct the definition of the UE maximum allowed power (5.1.1.1, 6.1). Correct the definitions of rho_A and rho_B in downlink power allocation. Clarify definition of downlink reference signal transmit power (5.2). Clarify PUSCH transmission delay (6.1.1). Include the TPC command indicated in random access response, delta_msg2. Clarify uplink grant in random access response (6.2). Clarify UE behavior when configured in transmission mode 7 and receiving PDSCH RBs overlapping with the transmission of one of physical channels (7.1). Clarify RNTI reception relating PDSCH (7.1, 8). Clarify type-2 PDSCH resource allocation for DCI format 1C (7.1.6.3). Clarify TBS determination for DCI formats 1A/1C (7.1.6.3, 7.1.7). Correct MCS handling for DwPTS (7.1.7). Correct HARQ operation (7.1.7.2, 8). Clarify codebook subset restriction for open-loop spatial multiplexing (7.2). Clarify CQI/PMI reporting (7.2, 7.2.1, 7.2.2). Clarify aperiodic CQI reporting for TDD (7.2.1). Clarify UE behavior in some combinations of SR, CQI/PMI/RI and ACK/NACK transmission (7.2.2). Clarify periodic CQI/PMI reporting using PUCCH for TDD (7.2.2).

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Clarify CQI definition (7.2.3). Specify an explicit mapping between PMI and codebook index (7.2.4). Correct control information multiplexing in subframe bundling mode (7.2.2, 8.6.1, 8.6.3). Introduce ACK/NACK transmission on PUSCH for TDD (7.3, 10.2). Correct TDD ACK/NACK bundling and multiplexing (7.3, 10.1). Introduce support for TTI bundling (8, 9.1.2). Clarify UL VRB allocation (8.1). Clarify UE sounding procedure. Correct shortened SR (8.2). Clarify the number of downlink HARQ processes. Clarify timing relationship between PHICH and its associated PUSCH (8.3). Correct UE PUSCH hopping procedure (8.4, 8.4.1). Correct offset signaling of uplink control information MCS (8.6.3). Correct UE transmit antenna selection (8.7). Remove unnecessary restriction on PDCCH blind decoding (9.1.1). Correct PHICH index assignment (9.1.2). Include a new section for PDCCH validation for semi-persistent scheduling (9.2). Clarify UE-specific time domain position for SR transmission. Clarify UL ACK/NACK resource indication (10.1). Include UL ACK/NACK repetition (10.1, 10.2).
ARIB STD-T63-36.214	8.5.0	8.4.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Clarify RSRQ measurement definition.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.300	8.7.0	8.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CR0036 to 36.300 [Rel-8] on Contention Resolution CR0037 to 36.300 [Rel-8] on ETWS SIB Alignment of 36.300 with stage 3 on 1xRTT CSfallback Data handling in UE during Inter-RAT mobility Removing of end time for dedicated preamble Remove the Note about RA preamble for FS2 Clarification of AS-NAS concatenation - Stage 2 CR 0044 to 36.300 on Miscellaneous corrections Proposed CR to 36.300 [Rel-8] on Security Overview Proposed CR to 36.300 [Rel-8] on MBMS PDCP reordering function removal Align Number of Cell Identities Periodic Updates In Connected Mode DRX Cleaning of the figure w.r.t Handover Control Plane - CR to TS 36.300 CR to 36.300 to capture measurement model for EUTRAN CSG Mobility Updates from RAN2 #63bis and RAN2 #64 CR to 36.300 on Correction of the Description of FS2 Changes to TS36.300 agreed in RAN3#61bis and RAN3#62
ARIB STD-T63-36.304	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Correcting the UE behaviour when Sintrasearch and Snonintrasearch are not provided Proposed CR to 36.304 [Rel-8] on Definition of Proposed CR to 36.304 [Rel-8] on Intra-frequency reselection allowed/not-allowed concept Proposed CR to 36.304 [Rel-8] on Introduction of Pcompensation

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Proposed CR to 36.304 [Rel-8] on Support of UE autonomous search for E-UTRAN CSG cells when camped on other RAT than E-UTRAN Correction to range of nB in TS 36.304 Miscellaneous corrections to 36.304 Proposed CR to 36.304 [Rel-8] on Support of registration procedures as outcome of a manual CSG ID selection Implicit priority for CSG cells Correction of the reselection formula for offset used for PLMN selection Clarification of definition of SnonServingCell,x for cdma2000 RATs in TS 36.304 Support of emergency calls in LTE Rel-8 CR to 36.304 on Removal of cellReservationExtension Idle mode agreements related to 36.304
ARIB STD-T63-36.321	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	CR0105 to 36.321 [Rel-8] on PHR Periodic Timer Start Proposed R1 of CR0106 to 36.321 [Rel-8] on PHR Reference CR 0107 to 36.321 Interactions between measurement gap and Msg3 transmission Proposed R1 of CR0108 to 36.321 [Rel-8] on PHR Reporting Values Correction relating to equal priorities CR 0110 to 36.321 on Correction to PHR CR0112r1 to 36.321 [Rel-8] Correction to BCCH Reception procedure Contention Resolution Timer PCH reception Correction to reception of assignments and grants Correction on Contention Resolution Proposed R1 of CR0117 to 36.321 [Rel-8] on on SR Clarifications and Repetitions Clarification on Padding value CR 0119 to 36.321 Correction and Clarification on TTI Bundling

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					Clarification of DRX Active Time Text Proposal for Dedicated Preamble Assignment CR0122 to 36.321 [Rel-8] on Message 3 Definition Correction to prevent wrong contention resolution by adaptive retransmission command Bucket Size Parameter CR0125r2 to 36.321 [Rel-8] Correction to Multiple BSR CR0127 to 36.321 [Rel-8] RACH preambles labelling CR0128r1 to 36.321 [Rel-8] merging CR0126r0 and CR0128r0 CR0129r1 to 36.321 [Rel-8] Correction to PDU Format CQI/ SRS/PMI/RI transmission during active time NDI and Msg4 Carrying Contention Resolution ID CR0132 to 36.321 [Rel-8] on MAC BSR trigger Clarification about Restarting the Periodic BSR Timer Correction to RA procedure initiated by eNB PDCCH order Correction on PHR triggering condition CR 0136 to 36.321 on Correction to UL HARQ Process for the transmission of Msg3 SPS occasions Robustness of Buffer Status Reporting Proposed CR to 36.321 [Rel-8] on UL HARQ and Measurement Gaps TAT and RACH procedure SRS and CQI Resources Release upon TAT Expiry Proposed CR to 36.321 Correction to RACH procedure BSR format for reporting empty buffers TTI Bundling Configuration Corrections to semi-persistent scheduling Prioritization of MAC control elements Correction to starting of TA timer Proposed CR to 36.321 SPS implicit release on UL Proposed CR to 36.321 Measurement gaps and SPS Proposed CR to 36.321 Setting reserved bits to zero Proposed CR to 36.321 [Rel-8] MAC ResetReconfig Option 2

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					RV setting Corrections to Random Access Procedure Number of HARQ processes for MIMO Corrections to power control and random access Correction on the definition of the PDCCH-subframe Correction to the coexist of SPS-RNTI and SI-RNTI or RA-RNTI Explicit release of SPS Linking HARQ process ID with the SPS resource Bucket Parameter Update Clarification on "PDCCH indicates a new transmission" for DRX Editorial corrections to MAC RB suspension and BSR contents RV setting Preamble group selection Use of dedicated preambles after HO complete Introduction of HARQ RTT Timer Correction to DRX configuration
ARIB STD-T63-36.322	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Proposed CR for aligning the construction of partial Status PDUs with intended operation Error Handling in RLC Miscellaneous corrections to 36.322 Correction to Segment Offset fields Correction to the description of the delivery of RLC SDU Minor issues on RLC The setting of VR(X) Adding RLC TM operation Removing a redundant text on VT(A) setting Counting RLC Retransmissions

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.323	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	Clarification with regards to the PDCP state variables CR 0039 to 36.323 on Correction to PDCP functional view PDCP “in-sequence delivery and duplicate elimination” always on Proposed CR to 36.323 on Processing of PDCP SDU received from upper layer Error in AM receive window behaviour Proposed CR on the described scope of Last_Submitted_PDCP_RX_SN Proposed CR to move DIRECTION from parameters provided by upper layer Clarification on COUNT Correction to PDCP procedure for SRB Correction to the PDCP re-establishment procedure Correction to PDCP functional view Miscellaneous PDCP corrections Proposed CR for error handling Proposed CR to 36.323 on Correction to PDCP Control PDU description Corrections to PDCP STATUS REPORT
ARIB STD-T63-36.331	8.4.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Miscellaneous corrections and clarifications
ARIB STD-T63-36.401	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Clarify the relation between GUMMEI and MME UE S1AP ID Proposed way forward of FFS item in 36.401 Adding the reference and correction on the GUMMEI

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
					definition reference Correction on the eNB UE Context descriptions RIM support in E-UTRAN Correction of SAE Bearer Correction of reference error
ARIB STD-T63-36.410	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Correction of SAE Bearers Rapporteurs update of TS36.410 RIM support in E-UTRAN
ARIB STD-T63-36.411	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	Rapporteurs Cut
ARIB STD-T63-36.412	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Removal of chapter 8
ARIB STD-T63-36.413	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	changes to TS36.413 agreed in RAN3#62
ARIB STD-T63-36.414	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Correction of invalid references Correction of SAE Bearers
ARIB STD-T63-36.420	8.1.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	Correction of SAE Bearer and Update of the list of X2 functions
ARIB STD-T63-36.422	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Further clarification of SCTP Association handling Removal of chapter 8
ARIB STD-T63-36.423	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	changes to TS36.423 agreed in RAN3#62
ARIB STD-T63-36.424	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access	Correction of SAE Bearer

Revised Standard Number	Version at ARIB STD-T63 Ver.7.20	Version at ARIB STD-T63 Ver.7.10	3GPP WG	Title	Change Summary
				Network (E-UTRAN); X2 data transport	

(Annex 36)

3GPP ARIB Change history List of Standards Ver. 7.30

29 July 2009

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.142	4.13.0	4.12.0	R4 (TDD)	Base Station (BS) conformance testing (TDD)	Correction of BS reference measurement channel and performance requirement for LCR TDD 384kbps service
ARIB STD-T63-25.306	4.11.0	4.10.0	R2	UE Radio Access capabilities	Correction of RF parameters in 25.306
ARIB STD-T63-25.307	4.13.0	4.12.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band f in 25.307

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.142	5.11.0	5.10.0	R4 (TDD)	Base Station (BS) conformance testing (TDD)	Corresponding change in V4.13.0, which is on correction of BS reference measurement channel and performance requirement for LCR TDD 384kbps service
ARIB STD-T63-25.222	5.8.0	5.7.0	R1 (TDD))	Multiplexing and channel coding (TDD)	Editorial correction of Figure 1A.
ARIB STD-T63-25.306	5.15.0	5.14.0	R2	UE Radio Access capabilities	Correction of RF parameters in 25.306
ARIB STD-T63-25.307	5.12.0	5.11.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band f in 25.307

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.9.0	6.8.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specifications
ARIB STD-T63-23.140	6.16.0	6.15.0	CP	Multimedia Messaging Service (MMS); Functional description; Stage 2	MM4 return route for correct billing
ARIB STD-T63-25.101	6.19.0	6.18.0	R4	UE Radio transmission and reception (FDD)	• Addition of HSDPA Cat 9-10 performance requirements for Rel.6 in order to keep consistency with the test specification in RAN5.
ARIB STD-T63-25.133	6.24.0	6.23.0	R4	Requirements for support of radio resource management (FDD)	• Correction to RRM PRACH test case: "Correct behaviour when reaching maximum transmit power" • Correction to RRM E-TFC restriction test cases A.6.6.1.1 and A.6.6.1.2
ARIB STD-T63-25.142	6.9.0	6.8.0	R4 (TDD)	Base station (BS) conformance testing (TDD)	• Corresponding and identical change in V5.11.0
ARIB STD-T63-25.222	6.3.0	6.2.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Editorial correction of Figure 1A.
ARIB STD-T63-25.306	6.13.0	6.12.0	R2	UE Radio Access capabilities	Correction of RF parameters in 25.306

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	6.9.0	6.8.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band f in 25.307
ARIB STD-T63-25.321	6.18.0	6.17.0	R2	MAC protocol specification	Corrections to E-TFC selection in case of E-DPDCH extrapolation SI reporting and compressed mode
ARIB STD-T63-26.234	6.14.0	6.13.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Error in SDP for QoE configuration is corrected
ARIB STD-T63-26.346	6.13.0	6.12.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Addition of Timed Text Payload Format is done, and error in SDP for QoE configuration is corrected
ARIB STD-T63-31.111	6.12.0	6.11.0	C6	USIM Application Toolkit (USAT)	Downgrade of Data download via USSD and USSD application mode

5. Release 7

5.1. Added Standards

None

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.4.0	7.3.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-22.101	7.12.0	7.11.0	S1	Service aspects; Service principles	Removing the requirement on call back for emergency call
ARIB STD-T63-22.233	7.1.0	7.0.0	S1	Transparent end-to-end packet-switched streaming service; Stage1	Addition of Rel-7 mobile TV requirement to PSS
ARIB STD-T63-23.040	7.2.0	7.1.0	C1	Technical realization of Short Message Service (SMS)	SM termination correction Editorial cleanup by MCC
ARIB STD-T63-23.203	7.10.0	7.9.0	S2	Policy and charging control architecture	Put "Establish IP-CAN Bearer Response" before "IP-CAN Bearer Signalling". A "IP-CAN Bearer Session Establishment Acknowledge" is added as step 11 in the procedure. Proposed changes at SA2#71: It is clarified that step 11 is executed only if this was required by the PCRF.
ARIB STD-T63-23.204	7.6.0	7.5.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access;	The exceptions for IP-SM-GW procedure are removed: IP-SM-GW can provide its own address only for SM delivery. IP-SM-GW address configuration in HSS is mandated.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
				Stage 2	HSS procedure is aligned with SM termination changes.
ARIB STD-T63-25.101	7.15.0	7.14.0	R4	UE Radio transmission and reception (FDD)	- Correction to requirement for HS-PDSCH (Tables for 9.2.1 and 9.2.4). - Correction of HS-SCCH power setting in CQI tests
ARIB STD-T63-25.102	7.14.0	7.13.0	R4 (TDD)	UE Radio transmission and reception (TDD)	- Introduction of multi-carrier HSDPA RF requirement for LCR TDD - Correction on MBSFN MCCH Slot Format
ARIB STD-T63-25.133	7.14.0	7.13.0	R4	Requirements for support of radio resource management (FDD)	Corresponding corrections applied in V6.24.0.
ARIB STD-T63-25.142	7.11.0	7.10.0	R4 (TDD)	Base station (BS) conformance testing (TDD)	Corresponding and identical change in V6.9.0
ARIB STD-T63-25.211	7.7.0	7.6.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarifications to the S-CPICH usage with MIMO. Clarification of ACK transmission in response to HS-SCCH order.
ARIB STD-T63-25.212	7.10.0	7.9.0	R1	Multiplexing and channel coding (FDD)	Correction to the puncturing limit allowed when UL 4PAM modulation is allowed.
ARIB STD-T63-25.214	7.11.0	7.10.0	R1	Physical layer procedures (FDD)	Editorial correction to UE transmit power control behaviour in case of DTX/DRX. Clarification of CQI preamble length when switching UE DTX cycle. Clarification of the source of parameters to HS-DSCH physical layer.
ARIB STD-T63-25.221	7.10.0	7.9.0	R1 (TDD)	Physical channels and mapping of transport channels onto physical channels (TDD)	Clarification of uplink multicode transmission for 1.28Mcps TDD. Editorial correction for Annex CB and CC.
ARIB STD-T63-25.222	7.10.0	7.9.0	R1 (TDD)	Multiplexing and channel coding (TDD)	Correction of the absolute grant value mapping for 1.28Mcps TDD EUL. Editorial correction of Figure 1A.
ARIB STD-T63-25.224	7.10.0	7.9.0	R1	Physical layer procedures (TDD)	Clarification of the beta value for smallest E-TFC of E-

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
			(TDD)		PUCH for 1.28Mcps TDD EUL. E-DCH power control clarification for 1.28Mcps TDD.
ARIB STD-T63-25.306	7.9.0	7.8.0	R2	UE Radio Access capabilities	Correction of RF parameters in 25.306
ARIB STD-T63-25.307	7.5.0	7.4.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band f in 25.307
ARIB STD-T63-25.321	7.12.0	7.11.0	R2	MAC protocol specification	• Corrections to E-TFC selection in case of E-DPDCH extrapolation • SI reporting and compressed mode • Corrections to E-TFC selection in case of E-DPDCH interpolation • Addition of HARQ procedure for HS-SCCH less operation when MAC-ehs is configured • Correction on Absolute Grant Value for LCR TDD • Correction to MAC handling of AG and SG tables when 16QAM UL is configured • Correction to HARQ operation for HS-SCCH less operation • 25.321(R7,F) on correction of E-TFC selection procedure for LCR TDD
ARIB STD-T63-25.423	7.12.0	7.11.0	R3	UTRAN Iur interface RNSAP signalling	Addition of MBR Parameter for 1.28Mcps TDD Enhanced Uplink Addition of Multi-carrier HS-DSCH physical layer category for 1.28Mcps TDD Addition of MAC-hs Reset Indicator IE into RADIO LINK ADDITION FAILURE message Addition of DCH Indicator For E-DCH-HSDPA Operation IE into RADIO LINK CONGESTION INDICATION message Addition of F-DPCH Slot Format IE in RADIO LINK SETUP FAILURE and RADIO LINK ADDITION FAILURE message ASN.1 Correction on Transport Bearer Not Requested

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Indicator in RL Specific E-DCH Information Correction of erroneous IE reference
ARIB STD-T63-25.425	7.10.0	7.9.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of handling of Capacity Allocation and HS- DSCH Credits
ARIB STD-T63-25.433	7.12.0	7.11.0	R3	UTRAN Iub interface NBAP signalling	Addition of MBR Parameter for 1.28Mcps TDD Enhanced Uplink Addition of Multi-carrier HS-DSCH physical layer category for 1.28Mcps TDD Addition of MAC-hs Reset Indicator IE into RADIO LINK ADDITION FAILURE message Enhancement of MBMS reception with simultaneous HSDPA for 1.28Mcps TDD
ARIB STD-T63-25.435	7.11.0	7.10.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of handling of Capacity Allocation and HS- DSCH Credits Correction of value range for Ext Propagation Delay
ARIB STD-T63-26.114	7.8.0	7.7.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Session setup is clarified
ARIB STD-T63-26.234	7.7.0	7.6.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections of Fast Content Switching and fast startup are done. Error in SDP for QoE configuration is corrected
ARIB STD-T63-26.346	7.10.0	7.9.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Addition of Timed Text payload format is done. Error in SDP for QoE configuration is corrected
ARIB STD-T63-31.111	7.10.0	7.9.0	C6	USIM Application Toolkit (USAT)	- Downgrade of Data download via USSD and USSD application mode
ARIB STD-T63-31.124	7.7.0	7.6.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	-TS 31.124, Rel-7 content replacement by reference to TS 31.124, Rel-8

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.101	8.0.0		SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	List of Rel-8 specifications
ARIB STD-T63-21.201	8.0.0		S1	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Approved
ARIB STD-T63-21.202	8.0.0		SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Approved
ARIB STD-T63-26.267	8.0.0		S4	AeCall data transfer; In-band modem solution; General description	Approved at TGS SA#43
ARIB STD-T63-26.268	8.0.0		S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Approved at TGS SA#43
ARIB STD-T63-31.121	8.0.0		C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Upgraded unchanged from Rel-7
ARIB STD-T63-31.122	8.0.0		C6	USIM conformance test specification	Upgraded unchanged from Rel-7
ARIB STD-T63-31.131	8.0.0		C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	Upgraded unchanged from Rel-7
ARIB STD-T63-31.213	8.0.0		C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	Upgraded unchanged from Rel-7

Added Standard Number	Version at ARIB STD-T63 Ver.7.30		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.131	8.0.0		C6	Test specification for C-language binding for (U)SIM API	Upgraded unchanged from Rel-7

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	8.11.0	8.10.0	S1	Service aspects; Service principles	Removing the requirement on call back for emergency call Clarification and enhancement of ciphering indicator feature
ARIB STD-T63-22.233	8.1.0	8.0.0	S1	Transparent end-to-end packet-switched streaming service; Stage1	Addition of Rel-8 mobile TV requirement to PSS
ARIB STD-T63-23.040	8.4.0	8.3.0	C1	Technical realization of Short Message Service (SMS)	SM termination correction Editorial cleanup by MCC
ARIB STD-T63-23.041	8.2.0	8.1.0	C1	Technical Realization of Cell Broadcast Service (CBS)	ETWS Duplication Detection Clarification of non settable Message ID's Editorial cleanup by MCC
ARIB STD-T63-23.203	8.5.0	8.4.0	S2	Policy and charging control architecture	1. Put "Establish IP-CAN Bearer Response" before "IP-CAN Bearer Signalling". A "IP-CAN Bearer Session Establishment Confirm" is added as step 12 in the procedure. Proposed changes in SA2#71: It is clarified that step 12 is executed only if this was

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					required by the PCRF. Editorial correction of message name in text and figure. 2. We clarify that the coordination between Gw Control Session establishment and IP can Session Establishment procedure is required only in the case of S4 based procedures. 3. Clarify the procedures for multiple BBERF handling so that they also applies to target access supporting UE-only bearer establishment mode. 4. Added a clarification on case 2a and mvoed step 11 before step 10. 5. Added a BBERF and a BBF entry in the Abbreviation clause; 6.2.1.5: Changed heading such that the section also covers the case where one of the BBFs is in the PCEF (PDN-GW). Also added a note after the first bullet to fully clarify the handling of BBERF in case one of BBFs during HO is in the PCEF. 7.7.3.1 Qos rules request and 7.7.4 QoS rules provision: Changed multiple BBERF to multiple BBFs, so that the case of GTP is also covered. 6. We recommend removing the following editor's note from clause 6.2.1.3.3: Editor's note: It is FFS whether the V-PCRF should provide functionality to add local (pre-

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					configured) PCC rules to an IP-CAN session and/or QoS rules to a Gateway Control Session. Allowing the V-PCRF to add local PCC rules or QoS rules introduces a number of complexities into PCC: • The note applies to the local breakout case and the Rx procedures are already sent to the H-PCRF for processing. Adding PCC modification capability to the V-PCRF seems inconsistent with the model used for Rx procedures. • Since this capability is not supported by the current PCC procedures, it would require modifying the PCC procedures to add additional signalling to notify the H-PCRF a PCC rule change. The current PCC specifications supports mechanisms where the H-PCRF may have pre-configured rules that are applied based on PLMN IDs. This allows the H-PCRF to adjust the rules based on specific agreements with another PLMN. This option also adds no additional signalling complexity to the PCC procedures. 7. Delete the case 1 on former step 15 and specifically add case 1 on IP-CAN session signalling. 8. The Editor's Note is removed and replaced with text stating that the V-PCRF provides static policy. This allows the PCEF and BBERF to rely on a PCRF for policy in the same way as a non-roaming scenario. Since the HPLMN does not support PCC, there is no need to apply dynamic policy or to consult an SPR in the HPLMN.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					9. Several statements about the V-PCRF functionality are corrected and aligned with recent changes. 10. Definition and abbreviation section are updated. 11. The CR clarifies the details about the conditions for the provisioning of PCC rules in the UE/NW mode. The missing text movement of CR#180rev3 is realized. 12. The general requirement section is updated to address the importance of an overall system reaction time. The policy control requirements section is updated to clarify the requirements that are relevant for the BBERF. 13. Implements changes to 23.203 to implement the solution that IP-filters provided by the PCRF are not modified by the access network. 14. Clarified that only the QoS rules which are valid in the target access are pushed to the non-primary BBERF. 15. The event trigger criteria are supplied to the PCEF or BBERF by the PCRF or always set at the PCEF or BBERF. 16. The QCI is to be considered in addition to the UE provided traffic mapping information when performing the PCC rule authorization. If the QCI that is related to the

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					traffic mapping information does not fit to the QCI for which a PCC rule can be authorized, the traffic mapping information shall be rejected. 17. It is proposed to clarify that an IP CAN bearer modification is only accepted if the provided traffic mapping information is not rejected by the PCRF. Otherwise, the IP CAN bearer modification is rejected. 18. Clause 7.7.1.2: Clarify that upon BBERF relocation the target access may signal the BCM support.
ARIB STD-T63-23.204	8.4.0	8.3.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	1. The exceptions for IP-SM-GW procedure are removed: IP-SM-GW shall provide only one address for SM delivery, of which point to itself. IP-SM-GW address configuration in HSS is mandated. HSS procedure is aligned with SM termination changes. 2. Clarify in normative text that the IP-SM-GW needs to take into account the timer in the SMS-GMSC for the Forward Short Message message when determining to which domains to attempt delivery. Add clarity to the message flow that the SMS-GMSC will not attempt delivery to another domain upon receiving the Delivery Report failure. Some other minor editorial fixes.
ARIB STD-T63-23.228	8.8.0	8.7.0	S2	IP Multimedia Subsystem(IMS); Stage 2	1. Correct the figure F.1 is refers to the figure F.1 in TS 23.401. Also the number error of Figure has been corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					2. Added normative text to describe the use of the MRFC/MRFP for transcoding. Also an informative annex is added to describe an example transcoding scenario, in order to further clarify understanding.
ARIB STD-T63-25.101	8.6.0	8.5.1	R4	UE Radio transmission and reception (FDD)	- Corresponding changes applied in V7.15.0. - Corrections on Dual Cell HSDPA: CQI Requirements in AWGN, FRC requirements, Tx-Rx frequency separation, Clarification of CQI reporting requirement. - E-DCH phase discontinuity test requirement - Corrections of out of band blocking
ARIB STD-T63-25.104	8.6.0	8.5.0	R4	Base Station (BS) radio transmission and reception (FDD)	- Correction on Home base station requirements: bandwidth reference for ACLR limit, Transmit Power Conformance Testing for Adjacent Channel Protection. - Tx-Rx frequency separation for Dual Cell-HSDPA - Co-existence requirement for the band 1880MHz TDD
ARIB STD-T63-25.113	8.4.0	8.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Introduction of an exclusion bands for 1880MHz TDD band.
ARIB STD-T63-25.133	8.6.0	8.5.0	R4	Requirements for support of radio resource management (FDD)	- Corresponding corrections applied in V7.14.0. - Corrections of test cases: UTRA FDD-E-UTRA FDD cell reselection when E-UTRA FDD is of higher or lower priority, Enhanced Serving HS-DSCH cell change. - Corrections of measurement: Measurement rule for absolute priority based inter-frequency cells, Measurement requirements of UTRAN TDD or cdma2000 1xRTT and HRPD cells, Reporting Requirements for E-UTRAN TDD UTRAN TDD Measurements, E-UTRA TDD cells in large DRX.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• Correction to mobility requirements for enhanced DRX • Initial E-TFC restriction for enhanced uplink in cell FACH etc.
ARIB STD-T63-25.141	8.6.0	8.5.0	R4	Base Station (BS) conformance testing (FDD)	• Introduction of Co-existence requirement for the band 1880MHz • Correction of reference bandwidth for ACLR limit for Home BS • Home NodeB Transmit Power Conformance Testing for Adjacent Channel Protection
ARIB STD-T63-25.144	8.1.0	8.0.0	R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	• Introduction of TRP and TRS OTA requirements for UTRA bands below 1 GHz (FDD) • Introduction of TRP requirements for power classes 3bis and 4
ARIB STD-T63-25.211	8.4.0	8.3.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarifications to the S-CPICH usage with MIMO. Clarification of ACK transmission in response to HS-SCCH order.
ARIB STD-T63-25.212	8.5.0	8.4.0	R1	Multiplexing and channel coding (FDD)	Correction to the puncturing limit allowed when UL 4PAM modulation is allowed.
ARIB STD-T63-25.213	8.4.0	8.3.0	R1	Spreading and modulation (FDD)	Correction to DTX bit insertion for MBSFN 16-QAM.
ARIB STD-T63-25.214	8.5.0	8.4.0	R1	Physical layer procedures (FDD)	Editorial correction to UE transmit power control behaviour in case of DTX/DRX. Clarification of CQI preamble length when switching UE DTX cycle. Clarification of the source of parameters to HS-DSCH physical layer. Corrections of HS-SCCH orders for DC-HSDPA.
ARIB STD-T63-25.215	8.3.0	8.2.0	R1	Physical layer; Measurements (FDD)	Correct E-UTRA RSRP and RSRQ measurement definitions.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.301	8.5.0	8.4.0	R2	Radio Interface Protocol Architecture	Correction on MBMS Improved Solution
ARIB STD-T63-25.304	8.5.0	8.4.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	• Baseline CR for CSG introduction • Correction to serving cell dedicated priority handling when no priority is available • Priority handling in camped on any cell state in Rel8 • Inheriting of dedicated priorities at inter-RAT reselection • Correction to the definition of priority search thresholds • Clarification for the case Absolute Priority is not applied
ARIB STD-T63-25.306	8.6.0	8.5.0	R2	UE Radio Access capabilities	• Introduction of additional UE categories for 1.28Mcps TDD 64QAM DL • Introduction of support of “Enhanced Uplink for CELL_FACH State in FDD” and “Improved L2 for uplink” • Addition of UE categories for dual cell HSDPA • UE positioning capabilities for support of additional navigation satellite systems • 25.306 CR Introduction of UE Measurement Capability on frequency adjacent to intra-frequency • Introduction of optional features in Release 8 • Support for 3.84 Mcps MBSFN IMB operation • Correction of RF parameters in 25.306 • 25.306 CR on Introduction of CPC for 1.28Mcps TDD • Value range for UE Measurement Capability on a frequency adjacent to intra-frequency • Update to UE capability for IMB MCCH reception • Introduction of MIMO for 1.28Mcps TDD
ARIB STD-T63-25.307	8.3.0	8.2.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of UMTS Band f in 25.307

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.308	8.5.0	8.4.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	• Introduction of MIMO for 1.28Mcps TDD • 25.308 CR on Further Introduction of CPC for 1.28Mcps TDD
ARIB STD-T63-25.319	8.5.0	8.4.0	R2	Enhanced uplink; Overall description; Stage 2	Introduction of CPC for 1.28Mcps TDD
ARIB STD-T63-25.321	8.5.0	8.4.0	R2	MAC protocol specification	• Corrections to E-TFC selection in case of E-DPDCH extrapolation • SI reporting and compressed mode • Corrections to E-TFC selection in case of E-DPDCH interpolation • Clarification for the function of HSDPA scheduler • Rapporteur's CR correcting some CR implementation issues in 25.321 • Addition of HARQ procedure for HS-SCCH less operation when MAC-e-hs is configured • Setting of initial serving grant value for common E-DCH transmission • Correction on Absolute Grant Value for LCR TDD • Support E-UTRAN Inter-RAT measurement by UTRA TDD UE • Introduction of CPC for 1.28Mcps TDD • Correction to MAC handling of AG and SG tables when 16QAM UL is configured • Correction to HARQ operation for HS-SCCH less operation • Handling of secondary serving HS-DSCH cell deactivation • Modification of ciphered part unit for a MAC PDU • Proposed CR to HARQ delivery failure for triggered scheduling information for CELL_FACH state and Idle mode • 25.321(R8,A) on correction of E-TFC selection procedure for LCR TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					25.321 CR of introduction of MIMO for 1.28Mcps TDD - Corrections to manual CSG search - Alignment to latest stage 3 agreements
ARIB STD-T63-25.367	8.1.0	8.0.0	R2	Mobility procedures for Home Node B (HNB); Overall description; Stage 2	
ARIB STD-T63-25.420	8.1.0	8.0.0	R3	UTRAN Iur Interface: General Aspects and Principles	RNSAP: Enhanced Relocation Request in SCCP: Connection Request
ARIB STD-T63-25.423	8.4.1	8.3.0	R3	UTRAN Iur interface RNSAP signalling	Addition of MBR Parameter for 1.28Mcps TDD Enhanced Uplink Introduction of Continuous Packet Connectivity in RNSAP for LCR TDD Addition of Multi-carrier HS-DSCH physical layer category for 1.28Mcps TDD RNSAP Support of measurements on E-UTRAN Addition of MAC-hs Reset Indicator IE into RADIO LINK ADDITION FAILURE message Addition of DCH Indicator For E-DCH-HSDPA Operation IE into RADIO LINK CONGESTION INDICATION message Addition of F-DPCH Slot Format IE in RADIO LINK SETUP FAILURE and RADIO LINK ADDITION FAILURE message Clarification of the relation between HS-SCCH less HS-PDSCH second code and first code Various GANSS Corrections to RNSAP RNSAP Dual Carrier corrections Minor corrections of RNSAP before freezing Correction of MBMS improvements Indication of MBMS capability over Iur interface Introduction of MIMO for 1.28Mcps TDD Correction on MBSFN MCCH Information message ASN.1 Correction on Transport Bearer Not Requested Indicator in RL Specific E-DCH Information

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Clarification for Enhanced Relocation and Cancel procedure Information for Fixed and Flexible RLC PDU size Correction of erroneous IE reference Some Corrections for Dual Carrier HSDPA Corrections related to enhanced HS-DSCH serving cell change RNSAP Dual Carrier corrections, alignment with NBAP Minor corrections before freezing
ARIB STD-T63-25.425	8.2.0	8.1.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of handling of Capacity Allocation and HS-DSCH Credits
ARIB STD-T63-25.433	8.4.0	8.3.0	R3	UTRAN Iub interface NBAP signalling	Minor corrections from NBAP review Addition of MBR Parameter for 1.28Mcps TDD Enhanced Uplink Introduction of Continuous Packet Connectivity in NBAP for LCR TDD Addition of Multi-carrier HS-DSCH physical layer category for 1.28Mcps TDD NBAP Support of measurements on E-UTRAN Addition of MAC-hs Reset Indicator IE into RADIO LINK ADDITION FAILURE message Clarification of the relation between HS-SCCH less HS-PDSCH second code and first code Various GANSS Corrections to NBAP NBAP Dual Carrier corrections Correction for IMB Introduction of MIMO for 1.28Mcps TDD Enhancement of MBMS reception with simultaneous HSDPA for 1.28Mcps TDD Clean up: FDD Enhanced Uplink in Cell_FACH HS-DPCCH Capability for Enhanced Uplink in Cell_FACH Clean up: FDD Enhanced UE DRX

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Information for Fixed and Flexible RLC PDU size Corrections related to enhanced HS-DSCH serving cell change Some Corrections for Dual Carrier HSDPA
ARIB STD-T63-25.435	8.2.0	8.1.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of handling of Capacity Allocation and HS-DSCH Credits Correction of value range for Ext Propagation Delay Correction of length of spare extension field
ARIB STD-T63-25.453	8.1.0	8.0.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	PCAP Review Correction to Additional GANSS Assistance Data Required IE
ARIB STD-T63-25.467	8.1.0	8.0.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Change Request for TS25.467 regarding location information in Chapters 3.2, 5.2.2 and 6.1.2. C-Id for HNB to Macro handout Clarification on the Maximum number of cell supported by 3G HNB SCTP destination port for HNBAP and RUA. Corrections on UE Registration Procedure Corrections in UE Registration procedure Correction in HNB registration procedure Correction of MOCN function in the function split table CN Assistant Access control Add description for handling in case of emergency calls Reference to BBF TR-069 missing Introduction of Iuh connection release
ARIB STD-T63-25.468	8.1.0	8.0.0	R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Add Object Identifier for RUA ASN.1 Clarification on Uniqueness of Context ID Adding the definition of Iuh Signalling Connection Correction of IE presence in ASN.1 Clarification of operation of RUA disconnect
ARIB STD-T63-25.469	8.1.0	8.0.0	R3	UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling	Add Object Identifier for HNBAP ASN.1 Clarification on Uniqueness of Context ID Update to HNB deregistration cause codes and

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					descriptions Update to HNB initiated UE deregistration cause code and description Abnormal condition handling associated with HNB registration Clarification on access control and inclusion of IMSI for UE registration. Adding Cause Values for UE Deregistration Updating of CSG Identity Leghth Clarification on the HNB Identity Correction of wrong reference in TMSI-IE description CSG-ID optional in HNB register request Backoff timer for HNB registration
ARIB STD-T63-26.114	8.2.0	8.1.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	SDP Offer/Answer Examples for Video Sessions using "a=imageattr" are added. Session setup clarifications are done. Inter-working enhancements are done. Dynamic video rate adaptation is added. MTSI QoE Corrections are done. Adding second stream of same media type is done. Session setup clarifications are carried out
ARIB STD-T63-26.132	8.1.0	8.0.0	S4	Speech and video telephony terminal acoustic test specification	Clarification on Distortion with psophometric filter is done
ARIB STD-T63-26.234	8.2.0	8.1.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	PSS Timeshift Corrections are done. Corrections of Fast Content Switching and fast startup are carried out. Error in SDP for QoE configuration is corrected
ARIB STD-T63-26.237	8.1.0	8.0.0	S4	IMS based PSS and MBMS User Service; Protocols	Corrections on layout of structure, references, numbering of figures of TS 26.237 are carried out. Improvement of general descriptions of TS 26.237 is done. Security procedures of IMS based MBMS user service are done. Corrections and clarifications to policy and charging contro are done. Corrections and clarifications to IMS based PSS and MBMS User Service; Protocols are done. Network-initiated PSS streaming session teardown is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.346	8.2.0	8.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Addition of Timed Text payload format is done. Error in SDP for QoE configuration is corrected
ARIB STD-T63-27.007	8.7.0	8.6.0	C1	AT command set for 3G User Equipment (UE)	Correction of AT-Commands for positioning Support of dedicated bearer related AT command AT-command for UE modes of operation in SAE Corrections for +CGCLASS Editorial cleanup by MCC
ARIB STD-T63-28.062	8.1.0	8.0.0	S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Correction of References is done
ARIB STD-T63-31.102	8.5.0	8.4.0	C6	Characteristics of the USIM Application	- HPLMN Direct Access Indicator for I-WLAN -Support of EPS in USAT: extension of Call control
ARIB STD-T63-31.111	8.5.0	8.4.0	C6	USIM Application Toolkit (USAT)	- Support of EPS in Network Rejection Event - Support of EPS in USAT: BIP, Provide Local Information, Call control - Reduced USAT capable terminals - Correction of formatting error in Terminal Profile and in section titles - Downgrade of Data download via USSD and USSD application mode -Definition of the idle state in Event Download (Location Status) to include E-UTRAN
ARIB STD-T63-31.124	8.1.0	8.0.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	-Inclusion of Rel-8 test case applicability and Rel-8 feature indication in the terminal profile content - Essential correction of tables B.1 and E.1 - Essential correction to BIP tests - usage of ME's default channel identifier

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.130	8.1.0	8.0.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Introduction of missing constant values for USIM files
ARIB STD-T63-31.221	8.1.0	8.0.1	C6	Contact Manager for 3GPP UICC applications - internal interface aspects	- Correction of ContactEventListener interface
ARIB STD-T63-33.102	8.2.0	8.1.0	S3	3G security; Security architecture	Update of definition of UMTS security context Generation and use of the mapped security context in HSPA SRVCC Add reference to ciphering indicator feature specification
ARIB STD-T63-33.107	8.7.1	8.6.0	S3	3G security; Lawful interception architecture and functions	Alignment with SAE stage 2 specifications approved by TSG SA#42
ARIB STD-T63-33.108	8.6.1	8.5.0	S3	3G security; Handover interface for Lawful Interception (LI)	TS 33.108 - US Editorial Clean up
ARIB STD-T63-33.220	8.6.0	8.5.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Add FC number space value allocations for HSPA SRVCC
ARIB STD-T63-33.223	8.3.0	8.2.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Editorial corrections on 33.223 Alignment of TS 33.223 with TS 33.220
ARIB STD-T63-33.246	8.3.0	8.2.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Encoding of identities as NAIs
ARIB STD-T63-33.401	8.3.1	8.2.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	Clarification for KSIsgsn Making CK' and IK' Add reference to ciphering indicator feature specification Editorial corrections

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.402	8.3.1	8.2.1	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Trust Indication by Visited Network Editorial corrections for 33.402 Clarifications on MIPv4 procedure Corrections of DS-MIPv6 bootstrapping Editorial modifications
ARIB STD-T63-34.108	8.6.0	8.5.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Additions related to MBSFN FDD, 1.28 Mcps TDD, Enhanced CELL FACH, ..etc.. - Corrections to existence messages/procedures.
ARIB STD-T63-34.114	8.1.0	8.0.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Addition of Band V,VI and VIII minimum & test requirements to 34.114(RP-090203)
ARIB STD-T63-34.121-1	8.6.0	8.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- New test cases for MIMO. - Corrections/Extensions to existence test cases.
ARIB STD-T63-34.121-2	8.6.0	8.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Correction to titles of test cases 3 and 4 in TC 7.9.1(RP-090204) - Introduction of requirements for UE UL power control operation with discontinuous UL DPCH transmission operation (RP-090203) - Applicability changes to CQI test cases (RP-090204) - Add applicability for the new test cases in Section 9.3.7(RP-090218) - Applicability changes in 34.121-2 for HSDPA demodulation tests (RP-090218)
ARIB STD-T63-34.123-1	8.6.0	8.5.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- New test cases for Enhanced CELL FACH, 1.28 TDD, Improved L2 UL,.. etc. - Many corrections to existence test cases

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ARIB STD-T63-34.123-2	8.6.0	8.5.0	R5	UE conformance specification; Part 2: ICS proforma specification	- Correction of applicability for test case 12.4.2.11(RP-090201) - Editorial corrections to some applicability conditions (RP-090200) - Applicability of new Improved L2 UL RLC test cases (RP-090215) - Applicability for new test case for HARQ retransmissions without ACK/NACK signalling in CELL_FACH/CELL_PCH/URA_PCH (RP-090212) - Applicability for new HS-DSCH in CELL_FACH test case (RP-090212)
ARIB STD-T63-34.123-3	8.1.0	8.0.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	- Many new test cases for LCR TDD. - New test cases for CPC RRC, HS_ENH and HSDPA SM. - Many corrections to existence test cases
ARIB STD-T63-34.124	8.3.0	8.2.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	• Introduction of band 1880MHz TDD.
ARIB STD-T63-34.171	8.1.0	8.0.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Update without change to 8.1.0
ARIB STD-T63-34.229-1	8.1.0	8.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- New MTSI test cases. - Update MTSI test cases. - Some test cases were removed.
ARIB STD-T63-34.229-2	8.1.0	8.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol	- Applicability statements of new MTSI test cases (RP-090214)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
				(SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Applicability statements of new MTSI test cases (RP-090214) - Remove explicabilities for non MTSI related call setup test cases (2nd)(RP-090214) - Add explicabilities for new clause 16 test cases (RP-090214) - Remove explicabilities for removed clause 16 test cases (RP-090214) - Add applicability for new clause 17 test case (RP-090214)
ARIB STD-T63-34.229-3	8.1.0	8.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- IMS CC ATS / Improvement: Stopping test case execution once a PTC fails (RP-090210) - IMS CC ATS / Handling of non-default port number in the Contact Header (RP-090210) - IMS CC ATS / Handling of Contact Header (RP-090210) - IMS CC / Minor corrections on test 11.2 (re-authentication)(RP-090210) - IMS CC / Addition of test case 11.2 to the IMS ATS (RP-090210) - IMS CC test model / Addition of new ASP to reconfigure IP Layer (RP-090210) - Removal of an unused pixit and other routine updates (RP-090210)
ARIB STD-T63-35.215	8.1.0	8.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	Improvement to sample C code, and removal of apparent keystream length limit
ARIB STD-T63-36.101	8.5.1	8.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	• Corrections of Channel numbering (EARFCN) • Corrections for transmitter requirements: A-MPR table for NS_07, Transmitter Intermodulation, ACLR for

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					below 5 MHz bandwidths, Clarification of PHS band including the future plan, Spectrum emission mask for 1.4 MHz and 3 MHz bandwidths, Removal of “Out-of-synchronization handling of output power” heading, UE uplink power control, Transmission BW Configuration, Spectrum flatness, PUCCH EVM, UL DM-RS EVM, Removal of ACLR2bis requirements • Corrections for receiver requirements: In-band blocking, In-band blocking and sensitivity requirement for band 17, Wide band intermodulation, reference sensitivity power level of Band 9 • Corrections for performance requirements: AWGN level for UE DL demodulation performance tests, additional test cases, requirement structure for TDD PDSCH, requirements and reference measurement channels for TDD PDSCH demodulation with UE-specific reference symbols, Number of information bits in DwPTS, MBSFN-Unicast demodulation test case, MBSFN-Unicast demodulation test case for TDD, UL Reference Measurement Channel, Addition of MIMO (4x4, medium) Correlation Matrix, DL RMC table notes, Clarification of OCNG, CQI reference measurement channels, PUCCH 1-1 Static Test Case, Reference Measurement Channel for TDD. • Corrections of references etc.
ARIB STD-T63-36.104	8.5.0	8.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	• Clarification of EARFCN • Corrections on transmitter or receiver requirements: Regional requirement on maximum rated power for Band 34, additional requirements for operating band unwanted emissions, Clarification of PHS band including the future plan, Unsynchronized TDD coexistence requirements, transmitter transient period, ACS frequency offset, unwanted emission limit for

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					3MHz(E-UTRA bands < 1GHz) for Category A Corrections of performance requirements: Modifications on UL timing adjustment test case, Modifications on PUSCH high speed train test case, PUCCH ACK/NAK repetitions for BS performance tests, Requirements for HARQ-ACK multiplexed on PUSCH, HARQ-ACK multiplexed on PUSCH performance requirement results
ARIB STD-T63-36.133	8.5.0	8.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	- Correction of test cases: A3-offset parameter, E-UTRAN -GSM Handover, E-UTRAN FDD - UTRAN TDD Cell Search in Fading, E-UTRA FDD to UTRA FDD Handover, E-UTRA FDD-FDD Intra-frequency cell reselection, E-UTRA FDD-FDD priority based Inter-frequency cell reselection, E-UTRAN TDD - UTRAN FDD Handover, E-UTRAN FDD - GSM Cell Search in AWGN, E-UTRAN - UTRAN FDD Cell Search in Fading, E-UTRAN UE Timing Accuracy Related, MBSFN Configurations, E-UTRAN FDD HRPD Cell Reselection for RPD of Low Priority, E-UTRA TDD – UTRA TDD cell reselection: UTRA is of higher priority, E-UTRA TDD – UTRA TDD cell reselection: UTRA is of lower priority, E-UTRA FDD – UTRA TDD cell reselection, E-UTRA TDD-UTRA TDD cell search in fading, E-UTRA TDD-UTRA TDD handover, Addition of E-UTRA FDD to UTRA FDD reselection, introduction of some test related parameters, Reselection from E-UTRA to GSM cell., Radio Link Monitoring Test Cases - Corrections for Idle mode: Clarifications for the DRX state, behavior when Treselection is not a multiple of idle mode, Update of RRC_IDLE state mobility side conditions, UE measurement capability in Idle mode, Removal of RRC re-establishment procedure delay, Correction for the UE Re-establishment delay requirement, Cell phase synchronization accuracy,

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Radio link monitoring in DRX, reselection evaluation period, E-UTRA to UTRA cell search requirements in DRX for SON, Inter frequency and Inter RAT cell search requirement in DRX mode, intra frequency measurements when DRX is used, Alignment of terminology for GAP, Addition of the definition of “when DRX is used”, • Corrections for measurements: UTRAN TDD cells measurement, cdma2000 1xRTT and HRPD Measurement, Event Triggered Periodic Reporting Requirements for IRAT Measurements, Measurement Reporting Requirements for E-UTRAN TDD – UTRAN TDD Measurements, UE behavior when measurement gap is used, Correction to GSM BSIC Requirements for Parallel Monitoring, Corrections to E-UTRAN inter-frequency side conditions. E-UTRAN FDD – UTRAN FDD measurements when no DRX, Intra-frequency RSRP Accuracy Requirements. • Other corrections: Clarification of ‘Out of Service Area’ Concept and Definition, Radio link monitoring, Description of Annex A, UE Transmit Timing, reference point for the UE initial transmission timing control requirement, Power Headroom reporting delay etc.
ARIB STD-T63-36.141	8.2.0	8.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	• Corrections on transmitter and receiver test requirements: Clarification of PHS band including the future plan, transmitter intermodulation test, Unsynchronized TDD coexistence requirements, unwanted emission limit for 3MHz(E-UTRA bands < 1GHz) for Category A, receiver test requirements, ACS frequency offset, Modifications on parameter settings for some demodulation test cases, AWGN level for UL demodulation performance tests, E-UTRA FDD/TDD test models. • Corrections of performance test requirements:

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					performance test w.r.t PUCCH ACK/NACK Repetition configuration, Test requirements for HARQ-ACK multiplexed on PUSCH, HARQ-ACK multiplexed on PUSCH performance requirement Other corrections: Clarification of EARFCN, Regional requirement on maximum rated power for Band 34, Correction of clause 4 etc.
ARIB STD-T63-36.201	8.3.0	8.2.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Long Term Evolution (LTE) physical layer; General description	Remove the definition of inverse modulo operation.
ARIB STD-T63-36.211	8.6.0	8.5.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Clarify RNTI used in scrambling sequence. Clarify PRACH configuration index (5.7.1), preamble sequence generation (5.7.2), PDSCH resource element mapping (6.3.5, 6.6.4), PDCCH resource element mapping (6.8.5), and collision handling of UE-specific reference signals (6.10.3). Correct type-2 PUSCH hopping (5.3.4), PUCCH format 1 mapping to physical resources (5.4.3), SRS (5.5.3, 5.5.3.3), and preamble format 4 timing (5.7.1, 8.1). Some parameters are aligned with correct parameter names from ASN1.
ARIB STD-T63-36.212	8.6.0	8.5.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Correct transmitted rank indication. Correct the bundled ACK/NACK and DAI transmission. Correct ACK/NACK transmission on PUSCH for TDD (5.2.2.6). Clarify channel coding for UCI HARQ-ACK (5.2.3.1). Clarify DCI formats 1A and 1B. Correct DCI formats 2 and 2A. Correct CQI and RI fields' description.
ARIB STD-T63-36.213	8.6.0	8.5.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Clarify uplink timing adjustments (4.2.3). Correct UE transmit power (5.1). Correct transmission modes (5.2, 7.1, 7.2). Correct PRACH retransmission timing (6.1.1). Clarify error handling of PDSCH and PUSCH assignments (7.1.6, 8.1). Clarify Redundancy version for DCI Format 1C (7.1.7). Correct CQI/PMI/RI reporting (7.2, 7.2.1, 7.2.2). Correct CQI timing (7.2.1). Introduce additional values of wideband CQI/PMI periodicities (7.2.2). Clarify bandwidth

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					parts for periodic CQI reporting and CQI reference period (7.2.2, 7.2.3). Correct rho_A definition for CQI calculation (7.2.3). Correct ACK/NACK transmission (7.3, 10.1, 10.2). Clarify scrambling of PUSCH corresponding to Random Access Response Grant (8). Clarify SRS transmission along with ACK/NAK and SR (8.1). Correct SRS (8.2). Correct UE PUSCH hopping procedure (8.4). Clarify PHICH index mapping (9.1.2). Clarify PDCCH release for semi-persistent scheduling (9.2). Clarify ACK/NAK repetition (10.2).
ARIB STD-T63-36.214	8.6.0	8.5.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Clarify RSRP and RSRQ definitions with receiver diversity.
ARIB STD-T63-36.300	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	• CR to 36.300 - Clarification on RAPreambles • CR to 36.300 on E-UTRAN Identities • CR to 36.300 - MME in temporary UE identity • UE with SIM in EUTRA • Collected 36.300 corrections • CR for 36.300 on Local NACK feature • CR for allowed CSG list • UE capability transfer upon handover to E-UTRA • Inter-RAT ANR Function for CDMA2000 • Corrections to Handover Scenario • Corrections to Security for alignment with 33.401 • Establishment of X2 Interface to HeNB GW • Clarification of PLMN id to be used in E-CGI and Global eNB ID • Specification of UL PDUs handling • Update of AMBR Concept with UE-AMBR and APN-AMBR • Aligning E-RAB release request procedure with E-RAB release indication in 36.413 • Stage 2 CR on S1 CDMA2000 Tunnelling Function • Finalisation of dynamic configuration of the X2 and S1 interfaces

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• Addition and correction of X2 procedures in stage 2 specification • NNSF Description • Collection of minor corrections to 36.300 agreed by RAN3 • Data Forwarding Resource Release • Support of Paging Optimisation for CSG cells • Handling of trace session and location reporting during UE context release
ARIB STD-T63-36.302	8.1.0	8.0.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	• Proposed CR on Parallel reception in LTE • Correction of out-of-date information
ARIB STD-T63-36.304	8.5.0	8.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	• CR to 36.304 on correction of definition of Pmax • Emergency call in camped on any cell state in LTE Rel8 • Handling of Priority of Camping Frequency • Correction to implementation of CR0009 to 36.304 • UE Behaviour on Registration Failure to CSG • CR to 36.304 to capture several editorial corrections • CR to 36.304 on Update of Figure 4.1-1 Overall Idle Mode Process • Correction to priority based reselection handling • CR on UE behaviour in absence of reselection priorities in system information • Cell reselection for CSG • Corrections to Inter-RAT Cell Reselection Criteria • Manual selection • Reception of ETWS notification without verifying digital signature • Draft CR to 36.304 on Inheriting of dedicated priorities at inter-RAT reselection • Proposed CR to 36.304 Clarification on applying DRX value

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					- Draft CR to 36.304 on Correction to UE behaviour if dedicated cell reselection priority is assigned but frequency is not configured by system information - Clarification to the best non-allowed CSG cell
ARIB STD-T63-36.306	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	- CR to remove the sections on MBMS - Final values for L2 buffer sizes - Various Corrections - CR to update uplink transmit diversity (UE transmit antenna selection) - Downlink PDCP SDU limitation - Thoughts on UE capability for RoHC - Capturing USIMless UE to stage 3
ARIB STD-T63-36.314	8.1.0	8.0.1	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	- Packet Loss Rate Measurements 36.314 Rapporteur Updates - Correction to the definition of the Number of active UEs per QCI - Correction to the sampling of number of active Ues - Inclusion of SRB0 for PRB usage for SRB - Total PRB Usage Detail Definition
ARIB STD-T63-36.321	8.5.0	8.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	- CR to 36.321 on BSR clarification - Freeing of reserved RNTIs - Correction to MAC reset - Correction to Initialization of Prioritization - Local NACKing Optionality MAC CR - Position of the Backoff Indicator subheader - Missing reserved bit setting - Expired TAT and PUSCH transmission - Expired TAT and HARQ feedback - Counter proposal to R2-090969 on Management for HARQ buffer with TAT - HARQ Feedback and Contention Resolution - Corrections to redundancy version control for system

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					information • Mapping of the RNTIs to different transport channels • DRX and UL Retransmissions • Definition of DRX Short Cycle Timer • Small corrections to RACH • Processing of contention resolution message • Corrections to power control and random access • Missing condition for unsuccessful reception of Msg2 • Corrections relating to Random Access required inputs • Bucket Parameter Update • Correction to Handling of triggered PHR • SPS resource release on D-SR failure • NDI handling when measurement gap and SPS occasion collide • Correction relating to PDCCH order • Error Handling • Various clarifications/corrections to TS36.321 • Disassembly, Demultiplexing and Multiplexing functions • Miscellaneous corrections to MAC • CR on Interactions between Msg3 transmission and TTI bundling • TTI Bundling • Correction to BSR trigger at serving cell change • Correction to Release of SPS • Usage of RRC Parameters • Clarification of MAC Timer status • Correction on MAC PDU subheader description • UE behaviour at CURRENT_TX_NB reaches maximum value • Reporting During DRX • NDI handling after random access procedure • Dedicated preamble handling after random access

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					- failure • NDI and grant in Message 2 • Correction relating to BCCH HARQ • Corrections to Msg3 definition and usage • PRACH selection must use prach-ConfigurationIndex • Clarification on RETX_BSR_TIMER • MAC Structure in UE Side • Clarification on Random Access Procedure • Clarification on the CR timer • Correction on BSR • Clarification on MAC reconfiguration of timers and counters • HARQ feedback, CQI/PMI/RI and SRS transmissions and measurement gaps • MAC PDU subheader corresponding to padding • CR On Backoff table • TTI Bundling Operation • Enforcing new transmission after flushing HARQ process
ARIB STD-T63-36.322	8.5.0	8.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	• CR to 36.322 on RRC Parameters • Local NACKing in UE • Supporting RLC SDU larger than 2047 octets • CR on the in sequence delivery function for UM • Correction to Delivery of PDU • Issues with SO, SOstart, and SOend fields • Miscellaneous corrections to RLC specification • Correction to status reporting triggering condition • Alignment of one condition on setting the poll bit • Proposed CR to 36.322 on Clarification on Polling procedure • Every Poll_PDU PDUs and Every Poll_Byte bytes triggers • UE behaviour when T_poll_retransmit expires

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.323	8.5.0	8.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	• Definition of RETX_COUNT missing • CR to specify maximum PDCP SDU size • CR with correction on PDCP function of maintaining SNs • Miscellaneous corrections to 36.323 • Minor issues on PDCP • Security related corrections • CR to 36.323 on RRC Parameters • Corrections on BSR reporting and transmission/retransmission after an Handover • Corrections on PDCP services and functions • PDCP Control PDU as Data Available for transmission in PDCP
ARIB STD-T63-36.331	8.5.0	8.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	• Correction to the Counter Check procedure • CR to 36.331-UE Actions on Receiving SIB11 • Spare usage on BCCH • Issues in handling optional IE upon absence in GERAN NCL • CR to 36.331 on Removal of useless RLC re-establishment at RB release • Clarification to RRC level padding at PCCH and BCCH • Removal of Inter-RAT message • Padding of the SRB-ID for security input • Validity of ETWS SIB • Configuration of the Two-Intervals-SPS • Corrections on Scaling Factor Values of Qhyst • Optionality of srsMaxUppts • CR for discussion on field name for common and dedicated IE • Corrections to Connected mode mobility • Clarification regarding the measurement reporting procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• Corrections on s-Measure • R1 of CR0023 (R2-091029) on combination of SPS and TTI bundling for TDD • L3 filtering for path loss measurements • S-measure handling for reportCGI • Measurement configuration clean up • Alignment of measurement quantities for UTRA • CR to 36.331 on L1 parameters ranges alignment • Default configuration for transmissionMode • CR to 36.331 on RRC Parameters for MAC, RLC and PDCP • CR to 36.331 - Clarification on Configured PRACH Freq Offset • Clarification on TTI bundling configuration • Update of R2-091039 on Inter-RAT UE Capability • Feature Group Support Indicators • Corrections to RLF detection • Indication of Dedicated Priority • Security Clean up • Correction of TTT value range • Correction on CDMA measurement result IE • Clarification of Measurement Reporting • Spare values in DL and UL Bandwidth in MIB and SIB2 • Clarifications to System Information Block Type 8 • Reception of ETWS secondary notification • Validity time for ETWS message Id and Sequence No • CR for Timers and constants values used during handover to E-UTRA • Inter-RAT Security Clarification • CR to 36.331 on consistent naming of 1xRTT identifiers • Capturing RRC behavior regarding NAS local release • Report CGI before T321 expiry and UE null reporting

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• System Information and 3 hour validity • Inter-Node AS Signalling • Set of values for the parameter "messagePowerOffsetGroupB" • CR to paging reception for ETWS capable UEs in RRC_CONNECTED • CR for CSG related items in 36.331 • SRS common configuration • RRC processing delay • CR for HNB Name • Handover to EUTRA delta configuration • Delivery of Message Identifier and Serial Number to upper layers for ETWS • Clarification on the maximum size of cell lists • Missing RRC messages in 'Protection of RRC messages' • Clarification on NAS Security Container • Extension of range of CQI/PMI configuration index • Access barring alleviation in RRC connection establishment • Corrections to feature group support indicators • CR from email discussion to capture DRX and TTT handling • Need Code handling on BCCH messages • Unification of T300 and T301 and removal of miscellaneous FFSs • Proposed CR modifying the code-point definitions of neighbourCellConfiguration • Remove Redundant Optionality in SIB8 • Corrections to the generic error handling • Configurability of T301 • Correction related to TTT • CR for 36.331 on SPS-config • CR for Deactivation of periodical measurement

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• SMC and reconfiguration • TDD handover • Corrections to system information acquisition • Some Corrections and Clarifications to 36.331 • Clarification on the Maximum number of ROHC context sessions parameter • Transmission of rrm-Config at Inter-RAT Handover • Use of SameRefSignalsInNeighbor parameter • Default serving cell offset for measurement event A3 • dl-EARFCN missing in HandoverPreparationInformation • Cleanup of references to 36.101 • Correction to the value range of UE-Categories • Correction on RRC connection re-establishment • Performing Measurements to report CGI for CDMA2000 • CDMA2000-SystemTimeInfo in VarMeasurementConfiguration • UE Capability Information for CDMA2000 1xRTT • CDMA2000 related editorial changes • Draft CR to 36.331 on State mismatch recovery at re-establishment • Draft CR to 36.331 on Renaming of AC barring related IEs • Draft CR to 36.331 on Inheriting of dedicated priorities at inter-RAT reselection • Proposed CR to 36.331 Description alignment for paging parameter, nB • Miscellaneous corrections and clarifications resulting from ASN.1 review • Correction regarding Redirection Information fo GERAN • Further ASN.1 review related issues • Periodic measurements

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					• Further analysis on code point "OFF" for ri-ConfigIndex • Adding and deleting same measurement or configuration in one message • Corrections to IE dataCodingScheme in SIB11 • Clarification on Mobility from E-UTRA • 36.331 CR related to "not applicable" • UE radio capability transfer • CR to 36.331 on value of CDMA band classes • Corrections to DRB modification • Correction to presence condition for pdcp-config • TDD HARQ-ACK feedback mode • Corrections regarding use of carrierFreq for CDMA (SIB8) and GERAN (measObject) • Sending of GERAN SI/PSI information at Inter-RAT Handover • Clarification of CSG support
ARIB STD-T63-36.401	8.5.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	GUMMEI usage for NNSF Measurement ID Description place for Paging Function
ARIB STD-T63-36.410	8.2.0	8.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Paging function clarification in E-UTRAN CR36.410
ARIB STD-T63-36.412	8.5.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	The use of the number of stream ID for a UE-associated signalling Clarification of SCTP streams CR for FFS(es) on signalling bearer function Clarification the overload protection function support in SCTP
ARIB STD-T63-36.413	8.5.1	8.4.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Adding extension container in SEQUENCE type for forward compatibility Corrections on S1AP: eNB configuration update procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Corrections on S1AP: Paging procedure Handling detection of two S1 connections towards one UE Interaction between UE Context Release Request and UE Context Release procedure IP address retrieval for ANRF Modification of RRC context indexing Completion of LTE cause values Correction of served GUMMEIs Correction of Initial Context Setup Clarification of path switch failure Correction of eNB Status Transfer Addition of the description of Timer TX2RELOCOverall New cause value "Interaction with other procedure" S1AP Review on Location Reporting procedures Definition on parameters related to a trace activation Adding EUTRAN CELL TRAFFIC TRACE message over S1 interfaces Adding MS Classmark 2 and MS Clssmark 3 IEs over S1 interface New Invalid E-RAB Id causes S1AP Review: S1 Handover Cancel procedure S1AP Review: Write-Replace Warning procedure Definition of Cell Type Abnormal condition related to UE Security Capabilities Removal of UE Security Capabilities IE from HANDOVER NOTIFY message Corrections for the procedure concurrency Clarification of eNB Name and MME Name IE's Clarifications on access control at handover Paging response Correction on usage of UE History Information Delete the UDP port in the note for GTP-TEID S1AP CR on CDMA2000 RAT Type

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
					Editorial Updates TS 36.413 NAS Security Parameters for to/from E-UTRAN/UTRAN handovers Updates for Next Hop Chaining Count Transparent Container content – informative annex Transparent container handling in case of SRVCC operation to GERAN Changes to S1AP to support paging optimization S1 handover Clean up Support blocking 3GPP2 handover Inclusion of eNB default paging DRX in S1 setup and configuration update Explicit resetting of overload state information on S1 Setup Clarify Security Context IE description Criticality corrections in 36.413 Add abnormal conditions section to UE Context Release and fix tabular error Consistent references to S1AP Two new cause values in the Cause IE Alignment of QCI range Remove the Handover Type IE from the HANDOVER REQUEST ACKNOWLEDGE message Correction of the trace procedural text and trace related IEs Minor corrections before freezing of ASN.1
ARIB STD-T63-36.414	8.4.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Correction on GTP-U version
ARIB STD-T63-36.422	8.5.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	The use of the number of stream ID for a UE-associated signalling Clarification of SCTP streams Clarification the overload protection function support in SCTP

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.423	8.5.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Adding extension container in SEQUENCE type for forward compatibility Consistency in procedure text for retransmission of request messages Modification to ENB CONFIGURATION UPDATE message Modification of RRC context indexing Corrections on FDD and TDD elements X2AP Review on SN Status Transfer procedure Definition on parameters related to a trace activation X2AP Review: X2 Handover Cancel procedure Abnormal condition related to UE Security Capabilities Corrections following review of X2 AP Clarification on Load Indication X2 Security Clean up X2 handover Clean up UE Context Release word changes in Procedures section Criticality corrections in 36.423 Load Balancing Information Exchange Clarifications on access control at handover Support blocking 3GPP2 handover Corrections for the procedure concurrency Alignment of QCI range Rename Trace Reference Coding of UE History in X2AP
ARIB STD-T63-36.424	8.5.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	Correction on GTP-U version
ARIB STD-T63-36.508	8.1.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	- Introduction of half cell configurations - Additions related to EPS bearer context - Corrections to existence messages
ARIB STD-T63-36.509	8.1.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	- Corrections to 36.509(R5-086335, R5-086371,R5-090700) - Update of Abbreviations in 36.509(R5-090433)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.30	Version at ARIB STD-T63 Ver.7.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.521-1	8.1.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	- Additions related to TDD - Spurious emission requirements on PHS band including the future plan in Japan (according to TS36.101 changes) - Corrections and Updates
ARIB STD-T63-36.523-1	8.1.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- Many new test cases - Many corrections
ARIB STD-T63-36.523-2	8.1.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	- Removal of reference to 11-bit Length Indicator in E-UTRA RLC test cases (R5-090101) - Applicability of new E-UTRA PDCP test case - 7.3.5.4(R5-090292) - Updating applicability table with input relevant to agreed at RAN5#41bis 36.523-1 CRs (R5-090569) - Batch 1B - Applicability of new E-UTRA PDCP test cases (R5-090668) - Update of Applicability table for EPS mobility management test cases (R5-090737) - Batch 1: Applicability for new MAC test cases 7.1.3.9 & 7.1.4.12(R5-090738) - Addition of Applicability new LTE test cases (R5-090751)

1. Release 99

1.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.031	3.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	The present document specifies the stage 1 description of the Fraud Information Gathering System (FIGS) feature which provides the means for the HPLMN to monitor the activities of its subscribers in a VPLMN.

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.031	4.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	The present document specifies the stage 1 description of the Fraud Information Gathering System (FIGS) feature which provides the means for the HPLMN to monitor the activities of its subscribers in a VPLMN.
ARIB STD-T63-25.A01	4.0.0			The Low Power Repeaters for DS-CDMA	The present document specifies the UTRA-FDD Low Power repeaters improving the indoor environments, which complies with requirements for the blanket license in Japan.

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	4.14.0	4.13.0	R2	Requirements on User Equipments (UEs) supporting a release-independent frequency band	Introduction of Band XIX
ARIB STD-T63-31.111	4.17.0	4.16.0	C6	USIM Application Toolkit (USAT)	- Clarification of icon support and correction of open reference

3. Release 5

3.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.A01	5.0.0			The Low Power Repeaters for DS-CDMA	The present document specifies the UTRA-FDD Low Power repeaters improving the indoor environments, which complies with requirements for the blanket license in Japan.

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.105	5.11.0	5.10.0	R4	Base Station (BS) radio transmission and reception (TDD)	Correction of local area base station coexistence requirements.
ARIB STD-T63-25.142	5.12.0	5.11.0	R4	Base station (BS) conformance testing (TDD)	Corresponding change in TS25.105(V5.11.0)
ARIB STD-T63-25.307	5.13.0	5.12.0	R2	Requirements on User Equipments (UEs) supporting a release-independent frequency band	Introduction of Band XIX
ARIB STD-T63-31.111	5.12.0	5.11.0	C6	USIM Application Toolkit (USAT)	- Clarification of icon support and correction of open reference

4. Release 6

4.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.A01	6.0.0			The Low Power Repeaters for DS-CDMA	The present document specifies the UTRA-FDD Low Power repeaters improving the indoor environments, which complies with requirements for the blanket license in Japan.

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	6.18.0	6.17.0	R4	Base Station (BS) radio transmission and reception (FDD)	Correction of local area base station coexistence spurious emission requirements.
ARIB STD-T63-25.105	6.8.0	6.7.0	R4	Base Station (BS) radio transmission and reception (TDD)	Corresponding change in TS25.105(V5.11.0)
ARIB STD-T63-25.141	6.20.0	6.19.0	R4	Base station (BS) conformance testing (FDD)	Corresponding change in TS25.104(V6.18.0)
ARIB STD-T63-25.142	6.10.0	6.9.0	R4	Base station (BS) conformance testing (TDD)	Corresponding change in TS25.105(V6.8.0)
ARIB STD-T63-25.211	6.10.0	6.9.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Add missing F-DPCH as one optional associated channel to HS-DSCH in subclause 4.1.2.7.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	6.10.0	6.9.0	R2	Requirements on User Equipments (UEs) supporting a release-independent frequency band	Introduction of Band XIX
ARIB STD-T63-31.111	6.13.0	6.12.0	C6	USIM Application Toolkit (USAT)	- Clarification of icon support and correction of open reference
ARIB STD-T63-31.130	6.7.0	6.6.0	C6	(U)SIM Application Programming Interface API; (U)SIM API for Java Card™	- alignment of constants with 31.111

5. Release 7

5.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.A01	7.0.0			The Low Power Repeaters for DS-CDMA	The present document specifies the UTRA-FDD Low Power repeaters improving the indoor environments, which complies with requirements for the blanket license in Japan.

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-22.016	7.2.0	7.1.0	S1	International Mobile Equipment Identities (IMEI)	Clarify that each IMEI shall be unique
ARIB STD-T63-23.203	7.11.0	7.10.0	S2	Policy and charging control architecture	Alignment of TFT and SDF filter parameters.
ARIB STD-T63-23.228	7.15.0	7.14.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Alignment of Figure 4.0 with what is stated in TS 23.002, by adding IBCF, TrGW, their associated reference points, as well as Ma reference point; and addition of two Notes.
ARIB STD-T63-25.101	7.16.0	7.15.0	R4	UE Radio transmission and reception (FDD)	Clarifications for CQI Reporting Requirements of HSDPA Correction to FRC H-Set 8 definition
ARIB STD-T63-25.102	7.15.0	7.14.0	R4	UE Radio transmission and reception (TDD)	Correction concerning scope of applicability for Extended Delay Spread propagation conditions

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	7.13.0	7.11.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding change in TS25.104(V6.18.0) Correction of DPCCH slot format for FRC8
ARIB STD-T63-25.105	7.12.0	7.11.1	R4	Base Station (BS) radio transmission and reception (TDD)	Corresponding change in TS25.105(V6.8.0)
ARIB STD-T63-25.123	7.9.0	7.8.0	R4	Requirements for support of radio resource management (TDD)	Revision of UE transmission power headroom reporting range and mapping for 1.28Mcps TDD
ARIB STD-T63-25.133	7.15.0	7.14.0	R4	Requirements for support of radio resource management (FDD)	Clarification of NRPM computation
ARIB STD-T63-25.141	7.14.0	7.12.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding change in TS25.104(V7.13.0) Correction of DPCCH slot format for FRC8
ARIB STD-T63-25.142	7.12.0	7.11.0	R4	Base station (BS) conformance testing (TDD)	Corresponding change in TS25.105(V7.12.0)
ARIB STD-T63-25.211	7.8.0	7.7.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Add missing F-DPCH as one optional associated channel to HS-DSCH in subclause 4.1.2.7. Clarify the applicability of Transmit Diversity.
ARIB STD-T63-25.212	7.11.0	7.10.0	R1	Multiplexing and channel coding (FDD)	Clarify that the simultaneous HS-SCCH order combination for UE DRX activation and UE DTX deactivation is reserved.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.214	7.13.0	7.11.0	R1	Physical layer procedures (FDD)	Specify that the UE is informed about the relative transmit power of the S-CPICH compared to the primary CPICH transmit power by the higher layers, in case the UE is configured in MIMO mode, and S-CPICH is used as a phase reference for a second transmit antenna. Add the missing references to MAC-ehs in the HS-DSCH related sections. Clarify UE transmission of a combination of ACK and NACK in CELL_DCH state. Clarify the start of the CQI_DTX_Timer. Clarify CQI transmission when CQI priority changes. Clarify initialization of the E-DCH inactivity timer. Clarify DTX Cycle transitions and UL DPCCH burst transmissions.
ARIB STD-T63-25.221	7.11.0	7.10.0	R1	Physical channels and mapping of transport channels onto physical channels (TDD)	Correct E-PUCH timeslot format parameter for 1.28Mcps TDD.
ARIB STD-T63-25.222	7.11.0	7.10.0	R1	Multiplexing and channel coding (TDD)	Correct the coding of E-RUCCH for 1.28Mcps TDD.
ARIB STD-T63-25.224	7.12.0	7.10.0	R1	Physical layer procedures (TDD)	Clarify SNPL calculation and reporting for 1.28Mcps TDD. Clarify the transmit power for E-RUCCH for 1.28Mcps TDD.
ARIB STD-T63-25.302	7.7.0	7.6.0	R2	Services provided by the physical layer	Introduction of Rel-7 HSDPA MIMO for FDD
ARIB STD-T63-25.304	7.8.0	7.7.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Applicability of EHPLMN to 'reserved for operator use' barring
ARIB STD-T63-23.306	7.10.0	7.9.0	R2	UE Radio Access capabilities	E-DCH TTI restriction for 16QAM Making feature "Using special value of HE field to indicate end of an SDU for RLC AM" optional, and octet aligned HS-DSCH transport block table optional for non-64QAM UEs Enhancing the Category Handling in UMTS

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	7.6.0	7.5.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Band XIX
ARIB STD-T63-25.308	7.10.0	7.9.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Correction to Improved L2 for 1.28Mcps TDD Corrections to MAC_ehs description
ARIB STD-T63-25.319	7.7.0	7.6.0	R2	Enhanced uplink; Overall description; Stage 2	Correction to non-scheduled transmission for 1.28 Mcps TDD
ARIB STD-T63-25.321	7.14.0	7.12.0	R2	MAC protocol specification	Modification of E-DCH configuration elements for LCR TDD 25.321 Feature to be made optional in release 7: SI trigger when grant <> 0 Correction to MAC-c/sh/m details
ARIB STD-T63-25.423	7.14.0	7.12.0	R3	UTRAN Iur interface RNSAP signalling	Clarification of E-AGCH Table Choice Addition of Max UE DTX Cycle into UPLINK SIGNALLING TRANSFER INDICATION message Correction of the value range of MAC PDU Size Extended IE in RNSAP Correction of MIMO Information Response IE Rel-7 RNSAP Support for Signaling of S-CPICH power offset and DL Control Channel TX Diversity for MIMO UEs
ARIB STD-T63-25.425	7.11.0	7.10.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of handling of Capacity Allocation and HS-DSCH Credits Correction of the value range of MAC PDU Size Extended IE in CCH FP Iur

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	7.14.0	7.12.0	R3	UTRAN Iub interface NBAP signalling	Improved CM checks for F-DPCH Clarification of E-AGCH Table Choice Addition of UL 16QAM credit consumption in E-DCH Capacity Consumption Law Correction of the value range of MAC PDU Size Extended IE in NBAP Corrections to the common measurement for 1.28Mcps TDD Rel-7 NBAP Support for Signaling of S-CPICH power offset and DL Control Channel TX Diversity for MIMO UEs
ARIB STD-T63-25.435	7.12.0	7.11.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of the value range of MAC PDU Size Extended IE in CCH FP Iub
ARIB STD-T63-26.090	7.1.0	7.0.0	S4	AMR speech Codec; Transcoding Functions	Corrections to Quantization of codebook gains in sub- clause 5.8.2 and correction to recursive equation for the past filtered excitation in sub-clause 5.6.1 were done.
ARIB STD-T63-26.114	7.10.0	7.8.1	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of unclear packetization recommendation for unknown RAT, corrections to example in clause A.6, correction to comments in sub-clause A.3.1a, correction of inconsistent packetization requirements, corrections to examples in clauses A.7 and A.8 and correction to CTM Interworking were done.
ARIB STD-T63-26.142	7.3.0	7.2.0	S4	Dynamic and Interactive Multimedia Scenes (DIMS)	DIMS Mobile profile level 10 review and clarification were done.
ARIB STD-T63-26.234	7.9.0	7.7.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections to Fast Content Switching and QoE was done.
ARIB STD-T63-29.140	<u>withdraw</u>	7.0.0	C4	Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3	RELEASE WITHDRAWN 2007-11-08: CT4 proposed to withdraw Rel-7 version since not required by OMA.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.102	7.14.0	7.13.0	C6	Characteristics of the USIM Application	-Correction of wrong file names
ARIB STD-T63-31.103	7.5.0	7.4.0	C6	Characteristics of the ISIM Application	-Allowed CSG List updateable by ME -IMS public user identity for emergency registration
ARIB STD-T63-31.111	7.12.0	7.10.0	C6	USIM Application Toolkit (USAT)	-Clarification of icon support and correction of open reference -Correction to OPEN CHANNEL
ARIB STD-T63-31.121	7.6.2	7.5.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	-Rel-7 content replacement by reference to TS 31.121, Rel-8
ARIB STD-T63-31.130	7.8.0	7.7.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	-Alignment of constants with 31.111

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.7.40		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.A01	8.0.0			The Low Power Repeaters for DS-CDMA	The present document specifies the UTRA-FDD Low Power repeaters improving the indoor environments, which complies with requirements for the blanket license in Japan.
ARIB STD-T63-26.269	8.1.0		S4	eCall data transfer; In-band modem solution; Conformance testing	Introduction of HL-ACK test cases. introduction of test cases for IVS-initiated signalling and clarification of conformance testing requirements and correction of a figure were carried out.
ARIB STD-T63-36.521-3	8.1.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	This document specifies the measurement procedures for the conformance test of the UE that contain requirements for support of RRM as part of the 3G LTE.
ARIB STD-T63-36.523-3	8.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	This document specifies the protocol and signalling conformance testing in TTCN-3 for the 3GPP UE at the UE E-UTRAN radio interface.

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	8.1.0	8.0.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-21.201	8.1.0	8.0.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Update list of Specs Clarification of scope
ARIB STD-T63-21.202	8.1.0	8.0.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Annex mapping 3GPP2 specs to 3GPP common IMS specs Revise scope
ARIB STD-T63-22.016	8.1.0	8.0.0	S1	International Mobile Equipment Identities (IMEI)	Clarify that each IMEI shall be unique
ARIB STD-T63-22.101	8.13.0	8.11.0	S1	Service aspects; Service principles	eCall - PSAP acknowledgement to the IVS eCall mode of operation Minimise delay to emergency voice calls
ARIB STD-T63-22.142	<u>withdraw</u>	8.0.0	S1	Value Added Services (VAS) for Short Message Service (SMS) requirements	RELEASE WITHDRAWN CP-43: stage 3 work will be completed in Rel-9, so proposed to also shift the stage 1 spec; agreed.
ARIB STD-T63-22.182	8.5.0	8.4.0	S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Clarification on the interaction with CAT and OIR

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-22.278	8.9.0	8.7.0	S1	Service requirements for the Evolved Packet System (EPS)	Access Technology Selection across PLMNs Move sentence about non-3GPP access Frequency of Scanning for Different Access Technologies Alignment about accepting/rejecting CSFB
ARIB STD-T63-23.040	8.6.0	8.4.0	C1	Technical realization of Short Message Service (SMS)	SM termination correction Editorial cleanup by MCC UE reachability notification from IP-SM-GW Clarification of reset of UNRI and UNRR
ARIB STD-T63-23.041	8.4.0	8.2.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Definition of ETWS Primary Notification message format CBS activation time for ETWS information
ARIB STD-T63-23.203	8.7.0	8.5.0	S2	Policy and charging control architecture	It is clarified in the GW C session establishment section that the the supported BCM is optionally provided (only in case of non-3GPP access). This is the only palce where this is currently not an optional parameter. The text in the 3GPP access specific annex (A.5) that specifies that the BCM is provided between BBERF and PCRF is removed. The description of SDF packet filter identifier is added in TS.23.203 The details about the creation of a new PCC rule vs. the extension of an existing PCC rule when receiving UE provided traffic mapping information are clarified. A note is added to clarify the differences in Table E.1 in TS 23.401 and Table A.3 in TS 23.203.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	8.10.0	8.8.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Alignment of Figure 4.0 with what is stated in TS 23.002, by adding IBCF, TrGW, their associated reference points, as well as Ma reference point; and addition of two Notes. Support and referencies to GTPv0 is removed. Clarifies that an AS originating a request forwards it to the S- CSCF serving the user, if the AS has knowledge of the S-CSCF assigned to that user. Adds a new section 4.2.4X to specify Ma reference point Adds the mention of "Ma" in two places Removed two occurenced of "v6" in a sentence of section 5.6.0. Remove incorrect information regarding no specification for the Mm reference point in 7.4. Editor's Notes regarding consideration whether Iq can be merged with Rx+ are removed.
ARIB STD-T63-25.101	8.8.0	8.6.0	R4	UE Radio transmission and reception (FDD)	Clarifications for CQI Reporting Requirements of HSDPA. Correction to MIMO Propagation Conditions. Correction to FRC H-Set 8 definition Introduction of a new Compressed Mode pattern for E-UTRAN measurements Removal of square brackets for DC-HSDPA Type 3i demodulation tests Update of DC HSDPA CQI requirements

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	8.8.0	8.6.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding change in TS25.104(V7.13.0) Correction on Home BS Output Power Requirements for Adjacent Channel Protection Correction of DPCH slot format for FRC8
ARIB STD-T63-25.133	8.8.0	8.6.0	R4	Requirements for support of radio resource management (FDD)	- UTRA FDD-E-UTRA FDD/ TDD handover test cases - UTRAN FDD - E-UTRAN Cell Search Test Cases - Alignment of E-UTRA RRM reselection testcases with core requirements - Correction to UE measurement requirements on a frequency adjacent to intra-frequency - Test case for UE measurement capability on a frequency adjacent to intra-frequency - Correction of initial E-TFC restriction for E-DCH in CELL_FACH state and Idle mode - 25.133 Rel-8 CR Clarification of NRPM computation when MIMO or DC-HSDPA is configured - Corrections of Combined Interfrequency and GSM measurements - UTRAN FDD- E-UTRAN FDD Handover to Unknown Target Cell Test Cases - UTRA FDD - UTRA FDD and E-UTRA FDD/ TDD cell search test cases etc.
ARIB STD-T63-25.141	8.8.0	8.6.0	R4	Base Station (BS) conformance testing (FDD)	- Corresponding changes in TS25.141(V8.8.0) - Correction on test system uncertainty for Home BS absolute ACLR limit - Spectrum emission mask test tolerance correction - Correction of Receiver additional spurious emission requirement etc.
ARIB STD-T63-25.211	8.5.0	8.4.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Add missing F-DPCH as one optional associated channel to HS-DSCH in subclause 4.1.2.7. Clarify the applicability of Transmit Diversity. Add EAI signature sequence to the description of STTD encoding for AICH.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.212	8.6.0	8.5.0	R1	Multiplexing and channel coding (FDD)	Clarify that the simultaneous HS-SCCH order combination for UE DRX activation and UE DTX deactivation is reserved. Specify the order type and order mapping upon the HS-SCCH orders for activation and deactivation of DTX and DRX operation be transmitted from a secondary serving HS-DSCH cell.
ARIB STD-T63-25.214	8.7.0	8.5.0	R1	Physical layer procedures (FDD)	Specify that the UE is informed about the relative transmit power of the S-CPICH compared to the primary CPICH transmit power by the higher layers, in case the UE is configured in MIMO mode, and S-CPICH is used as a phase reference for a second transmit antenna. Add the missing references to MAC-e-hs in the HS-DSCH related sections. Clarify UE transmission of a combination of ACK and NACK in CELL_DCH state. Clarify the start of the CQI_DTX_Timer. Clarify CQI transmission when CQI priority changes. Clarify initialization of the E-DCH inactivity timer. Clarify DTX Cycle transitions and UL DPCCH burst transmissions. Introduce a 2dB increase in required HS-DPCCH power offset to DPCCH for DC-HSDPA. Introduce HS-DSCH serving cell change enhancements with preconfigured secondary cell.
ARIB STD-T63-25.215	8.4.0	8.3.0	R1	Physical layer; Measurements (FDD)	Clarify reference point of RSRP and RSRQ for EUTRA.
ARIB STD-T63-25.302	8.4.0	8.2.0	R2	Services provided by the physical layer	- Support for 3.84 Mcps MBSFN IMB operation - Introduction of Rel-7 HSDPA MIMO for FDD

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.304	8.7.0	8.5.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	• Correction to UE behaviour while 300s frequency barring timer is running • Correction of Manual CSG ID selection • Removal of FFS in 25.304 reference to GERAN timer T3230 • Clarification of the Priority Handling in CSG Cell • CR on Adding "cause#25" to 25.304 • Priorities of non Selected PLMN • Addition of CSG cell reservation behaviour • Correction of mobility states • CR for Clarification on outbound mobility for UTRAN • Applicability of EHPLMN to 'reserved for operator use' barring • clarifications for manual CSG ID selection
ARIB STD-T63-25.306	8.8.0	8.6.0	R2	UE Radio Access capabilities	• Add description about the parameter of Need for Idle Interval • Clarification for the code rate restriction for Cat19 • E-DCH TTI restriction for 16QAM • Making features "Using special value of HE field to indicate end of an SDU for RLC AM" optional, "Removing the constraint that the same HS-SCCH should be used in contiguous TTIs" and octet aligned HS-DSCH transport block table optional for non-64QAM UEs • Clarification on UE category of enhanced CELL_FACH for 1.28Mcps TDD • Enhancing the Category Handling in UMTS
ARIB STD-T63-25.307	8.4.0	8.3.0	R2	Requirements on UE supporting a release-independent frequency band	• Introduction of Band XIX

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.308	8.7.0	8.5.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	• Correction to Improved L2 for 1.28Mcps TDD • Clarification of HS-DSCH semi-persistent scheduling transmission in 1.28Mcps TDD • Corrections to MAC_ehs description • Missing message in sequence diagram for Inter-Node B serving HS-DSCH cell change with target cell pre-configuration • 25.308, F, Correction on HS-DSCH semi-persistent scheduling transmission in 1.28Mcps TDD
ARIB STD-T63-25.319	8.7.0	8.5.0	R2	Enhanced uplink; Overall description; Stage 2	• Correction to Improved L2 for 1.28Mcps TDD • Correction to non-scheduled transmission for 1.28 Mcps TDD • Clarification of E-DCH semi-persistent scheduling transmission in 1.28Mcps TDD • Clarification on E-RUCCH related operation in enhanced CELL_FACH state for 1.28 Mcps TDD
ARIB STD-T63-25.321 (cont.)	8.7.0	8.5.0	R2	MAC protocol specification	• Correction on adding CMAC_STATUS in figure 11.2.2A-3 • Correction on the Scheduling Information Indication • HARQ delivery correction • Correction to HS-DSCH SPS operation for 1.28Mcps TDD • Reordering configuration for BCCH and paging • MAC-STATUS-Ind for CCCH transmissions • Correction to non-scheduled transmission for 1.28 Mcps TDD • Correction to Improved L2 for 1.28Mcps TDD • Correction to TBS tables for Improved L2 for 1.28Mcps TDD • Clarification to grant monitoring • Corrections to Enhanced Uplink procedure in

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					CELL_FACH state and Idle mode for FDD • Clarification of lub bearer indication • Enhanced Uplink in CELL_FACH and Idle mode: ACK/NACK for BCCH and max. CCH resource allocation start time. • Clarification on E-RUCCH related operation in enhanced CELL_FACH state for 1.28 Mcps TDD • Clarification on UE category of enhanced CELL_FACH for 1.28Mcps TDD • Modication of E-DCH configuration elements for LCR TDD • 25.321 Feature to be made optional in release 7: SI trigger when grant <> 0 - Rel-8 shadow • Correction to Serving_Grant determination in case UE received a Non-serving Relative Grant "DOWN" • Corrections to Enhanced Uplink in CELL_FACH state and Idle mode • Correction to MAC-c/sh/m details • Scheduling method in CELL_FACH state
ARIB STD-T63-25.367	8.2.0	8.1.0	R2	Mobility Procedures for Home Node B; Overall description; Stage 2	• Correction to manual CSG ID selection_25.367CR(R8)
ARIB STD-T63-25.402	8.1.0	8.0.0	R3	Synchronisation in UTRAN Stage 2	Correction of Transport Channel Synchronisation contradiction

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.423	8.6.0	8.4.1	R3	UTRAN Iur interface RNSAP signalling	Correction of indentation Addition of Causes for Enhanced Relocation Failure Further abnormal conditions for IP Transport Option Partial Failure for DC-HSDPA Corrections of CPC DRX configuration for 1.28Mcps TDD Clarification of E-AGCH Table Choice Addition of Max UE DTX Cycle into UPLINK SIGNALLING TRANSFER INDICATION message Clarification on Uplink L2 improvement Removal of HS-PDSCH Code Change indicator IE from RADIO LINK PARAMETER UPDATE INDICATION message Include a general HS-SCCH support indicator Correction of tabular for INFORMATION REPORT message Correction of the value range of MAC PDU Size Extended IE in RNSAP Addition of description for Fixed and Flexible RLC PDU operation for TDD Early Enhanced Relocation Cancel Correction of MIMO Information Response IE Correction of ASN.1 for CPC for 1.28Mcps TDD Correction on E-DCH FDD Information abnormal condition in radio link reconfiguration procedure Addition of <i>HS-DSCH TB Size Table Indicator</i> related context at serving HS-DSCH RL change Addition of abnormal condition for HS-DSCH/E-DCH in RL Addition procedure SixtyfourQAM DL Support Indicator Enhanced HS-SCCH support optional in Rel8 Addition of cause SixtyfourQAM DL and MIMO Combined not supported in RL reconfiguration procedure Correction for procedural text for MBMS Bearer Service List IE Inclusion of <i>UE Support Indicator Extension</i> IE into RL handling Rel-8 RNSAP Support for Signaling of S-CPICH power offset and DL Control Channel TX Diversity for MIMO UEs

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-25.425	8.3.0	8.2.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of the value range of MAC PDU Size Extended IE in CCH FP Iur
ARIB STD-T63-25.433 (cont.)	8.6.0	8.4.0	R3	UTRAN Iub interface NBAP signalling	Correction of formatting in NBAP Corrections to the modification of MIMO reference signal for 1.28 Mcps TDD Further abnormal conditions for IP Transport Option Partial Failure for DC-HSDPA Corrections of CPC DRX configuration for 1.28Mcps TDD Improved CM checks for F-DPCH Addition of UL 16QAM credit consumption in E-DCH Capacity Consumption Law Clarification of E-AGCH Table Choice Clarification on Uplink L2 improvement Addition of description for Fixed and Flexible RLC PDU operation for TDD Removal of HS-PDSCH Code Change indicator IE from RADIO LINK PARAMETER UPDATE INDICATION message Correction of abnormal condition for RL Addition Request Removal of DC-HSDPA limitation from NBAP Addition of SPI IE in Common E-DCH System Information LCR IE ASN.1 correction for MAC-hs Reset Indicator Include a general HS-SCCH support indicator Correction of the value range of MAC PDU Size Extended IE NBAP Correction of ASN.1 for CPC for 1.28Mcps TDD Corrections to the common measurement for 1.28Mcps TDD Correction on <i>E-DCH FDD Information</i> abnormal condition in radio link reconfiguration procedure Clarification on E-DCH related resources assignment in

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					Physical Shared Channel Reconfiguration procedure Addition of abnormal condition for HS-DSCH/E-DCH in RL Addition procedure Addition of Semantics Description for E-DCH RACH Report Information in Common Measurement Value Semantics Description of IB_OC_ID Clarification for Power Resource Related Info in TDD non-scheduled grant info Enhanced HS-SCCH support optional in Rel8 Corrections related to UE Status Update procedure Addition of casue SixtyfourQAM DL and MIMO Combined not available in ASN.1 Inclusion of UE Support Indicator Extension IE into RL handling Rel-8 NBAP Support for Signaling of S-CPICH power offset and DL Control Channel TX Diversity for MIMO UEs
ARIB STD-T63-25.435	8.3.0	8.2.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of the value range of MAC PDU Size Extended IE in CCH FP Iub
ARIB STD-T63-25.453	8.2.0	8.1.0	R3	UTRAN Iupc interface Positioning Calculation Application Part(PCAP) signalling	Correction on Cell-ID Measured Results Sets in INFORMATION EXCHANGE INITIATION REQUES
ARIB STD-T63-25.467	8.3.0	8.1.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Clarification on Non-CSG HNB Support of Paging Optimisation for HNB Add assigned SCTP PPI values for RUA and HNBAP Cleanup of 25.467 Adding description of HNB de-registration function in stage 2
ARIB STD T63-25.469	8.3.0	8.1.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Correction to HNB Identity definition ASN.1 correction for HNB Location Information IE

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-26.090	8.1.0	8.0.0	S4	AMR speech Codec; Transcoding Functions	Corrections to Quantization of codebook gains in sub-clause 5.8.2 and correction to recursive equation for the past filtered excitation in sub-clause 5.6.1 were carried out.
ARIB STD-T63-26.102	8.2.0	8.1.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Clarification of RAB sub-flow numbering for AMR was done.
ARIB STD-T63-26.114	8.4.0	8.2.1	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	MTSI QoE Correction, cross reference correction, packetization for E-UTRAN, correction of unclear packetization recommendation for unknown RAT, corrections to example in clause A.6, correction to comments in sub-clause A.3.1a, correction of inconsistent packetization requirements, corrections to examples in clauses A.7 and A.8, correction to CTM Interworking, MSRP corrections, QoE Corrections for MTSI, Session setup clarifications and correction of OMA-DM MO DTD DFFormat in 3GPP MTSINP MO were carried out.
ARIB STD-T63-26.131	8.2.0	8.0.0	S4	Terminal acoustic characteristics for telephony; Requirements	On Receiving sensitivity/frequency mask correction and Correction of STMR calculation were carried out.
ARIB STD-T63-26.132	8.2.0	8.1.0	S4	Speech and video telephony terminal acoustic test specification	Correction of STMR calculation was done.
ARIB STD-T63-26.142	8.2.0	8.0.0	S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Clean-up corrections was done.
ARIB STD-T63-26.234	8.4.0	8.2.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Clean-up corrections and correction of an FCS pipelining incompatibility when using Firewall packets were done.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB-STD-T63-26.237	8.3.0	8.1.1	S4	IMS based PSS and MBMS User Service; Protocols	Selection of MBMS security option, corrections and clarifications to SIP based MBMS security procedures, corrections and clarifications to security related clauses and corrections and clarifications to security procedures were done.
ARIB STD-T63-26.244	8.2.0	8.0.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Correction of signaling of sample_type in key message tracks, correction to ABNF syntax and clean-up corrections were carried out.
ARIB STD-T63-26.267	8.2.0	8.0.0	S4	AeCall data transfer; In-band modem solution; General description	Correction of the required number of transmitted ACK messages, integration of higher-layer acknowledgement message, integration of IVS-initiated signalling option and IVS transmitter termination correction were carried out.
ARIB STD-T63-26.268	8.2.0	8.0.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Extension of eCall test setup to allow conformance testing of ACK messages, separation of IVS and PSAP transmitter and receiver functions in the C-code, integration of higher-layer acknowledgement message, integration of IVS-initiated signalling option, parameter change in eCall test setup, update of receiver-transmitter interfaces for conformance testing and corrections and bugfixes of the eCall source code were carried out.
ARIB STD-T63-26.346	8.4.0	8.2.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction of the MBMS User Service registration procedure and clean-up corrections were carried out.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-27.007	8.9.0	8.7.0	C1	AT command set for 3G User Equipment (UE)	Adding E-UTRAN to the Current Packet Switched Bearer AT command Common AT Command Set for EPS and UMTS/GPRS for the PS Domain Corrections of AT-command for originated location request Origin for assist_data is corrected Correct alignment of notes for +CEREG Corrections to +CEMODE
ARIB STD-T63-31.102	8.7.0	8.5.0	C6	Characteristics of the USIM Application	-eCALL related enhancement -Correction of coding of CSG ID -Essential correction of EFSPDI encoding -Editorial modifications of File structure overview -Correction of coding of suggested contents of the EF_EPSLOCI at pre-personalization -Correction of update status via Data Download or USAT Application for EF_EPSLOCI and EF_EPSNSC -Correction of wrong file names -Correction for EPS in USIM security related procedures -Removal of NH and NCC parameters from EFEPNSC -Allowed CSG List updateable by ME

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.103	8.1.0	8.0.0	C6	Characteristics of the ISIM Application	-Allowed CSG List updateable by ME -IMS public user identity for emergency registration
ARIB STD-T63-31.111	8.7.0	8.5.0	C6	USIM Application Toolkit (USAT)	-Clarification of icon support and correction of open reference -Correction of missing reference to 3GPP specification -Correction to OPEN CHANNEL -NMEA sentence reference -IMSI changing procedure -Network Rejection Event for GERAN/UTRAN -Support of E-UTRAN in Provide Local Information for NMR
ARIB STD-T63-31.121	8.2.0	8.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	-Definition of CSG related test cases for E-UTRA -Definition of EPS NAS Security Context cases for E-UTRA/EPC -Essential correction of test 6.1.12 -Correction of tests 7.4.2 and 7.4.4 -Definition of CSG related test cases for E-UTRA, Part 2 -Essential corrections on LTE related test cases -Definition of LTE tests -Definition of clause 7.2, 7.3 and 7.4 LTEÖ tests for 31.121 -Clarification of class 2 SMS test - clarification of PIN MMI string test

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-31.124	8.3.0	8.1.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction to icon test applicability -Update of table E.1 regarding E-UTRAN support indication -Essential correction of 27.22.6.1 sequence 1.9 -Essential correction of 27.22.4.7.3, Seq. 3.2 -Essential correction of applicability and terminal profile table -Introduction of steering of roaming test cases -Test case and test case applicability changes for terminals with reduced USAT capabilities
ARIB STD-T63-31.130	8.2.0	8.1.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	-Alignment of constants with 31.111
ARIB STD-T63-33.102	8.4.0	8.2.0	S3	3G security; Security architecture	• Correction of security procedure of HSPA SRVCC • Reformulation of security procedure of HSPA SRVCC
ARIB STD-T63-33.107	8.9.1	8.7.0	S3	3G security; Lawful interception architecture and functions	• Correction on identities and parameters for LI in case of E-UTRAN access and PMIP based S5/S8 • Correction on Serving Evolved Packet System event • Correction of misimplementation of CR0084

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	8.8.0	8.6.0	S3	3G security; Handover interface for Lawful Interception (LI)	• Editorial modifications • Correction on UE requested bearer resource modification - Alignment with SAE stage 2 specification • Clarification on parameter APN for EPS • Clarification on the handover between 2G/3G access and E-UTRAN with Gn/Gp • Clarification on parameter PDN type • Correction on GTPv2 instance in ASN.1 module for EPS • Correction on the coding of Protocol Configuration Options coding in ASN.1 for EPS • Correction on references in ASN.1 for EPS • 33.108 Conference Typo • 33.108 Annex H CR • Correction on identities and parameters for LI in case of E-UTRAN access and PMIP based S5/S8 • Correction on Serving Evolved Packet System event. • Correction on the use of initiator in ASN.1 • Missing parameters for MME interception in the ASN.1 module

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	8.7.0	8.5.0	S3	3G security; Access security for IP-based services	• Correction of wrong message name in annex N (Rel-8) • Removing Editor's note from Annex T • Removal of editor's note on Proxy-Authentication Info header • Aligning NBA and GIBA procedures with stage 3 • Removal of TLS profile editor's note.
ARIB STD-T63-33.210	8.3.0	8.2.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Clarification about the encryption on Za reference point
ARIB STD-T63-33.220	8.7.0	8.6.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	• Ua security protocol identifiers for IMS based MBMS • Clarify sending of MSISDN in Zn
ARIB STD-T63-33.223	8.5.0	8.3.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	• Editorial corrections on 33.223 • Clarification of GUSS usage in case of HLR • Remove replay window • Clarifications to GBAPush • Changing GBA push registration annex to be normative
ARIB STD-T63-33.246	8.4.0	8.3.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	• Add reference to IMS based MBMS TS • Clarification of Service Protection Description

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.310	8.3.0	8.2.1	S3	Network domain security; Authentication framework (NDS/AF)	• Corrections for TS 33.310 • Correction for TS 33.310: when a SEG may fetch a CRL for peer SEG • Miscellaneous corrections to specification
ARIB STD-T63-33.401 (cont.)	8.5.0	8.3.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	Storage and handling of EPS NAS security context UE security capability handling at S1 HO Correction of TAU procedure after IRAT Handover to E-UTRAN Correction of UE EPS security capability default set Resolving ed note on PLMN ID encoding and correction of KDF Update of abbreviations list Definition of forward security Removal of NAS keys storage Corrections for idle mode procedure in EUTRAN Corrections for Attach procedure The correction on input key of Null ciphering algorithm Clarification on Multiple KeNB*s Preparation in Section 7.4.3 The definition of eKSI format Forward security chaining modificarion

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					Changing SGSN to the enhanced MSC server in SRVCC Correction of KeNB derivations Correction of EPS AS Security Mode Command Procedure Correction of EPS AS/NAS Security Context definition Keys to be used in HO from E-UTRAN to UTRAN and GERAN Editorial corrections Correction on Key Identification Correction on KeNB refresh Correction on Key Identification Keys to be used in HO from UTRAN and GERAN to E-UTRAN NH derivation rules for re-keying RRC Connection Re-establishment - security corrections Randomness requirements on nonces for LTE Clarifications to calculating the initial K_eNB Modification of the title of 8.1.1 Additional security requirement on eNB Clarification on the requirement of AS algorithm selection procedure during intra-eNB handover

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					SAE: Clarification on eNodeB management plane protection Correction of distribution of authentication data Correction of key setting during AKA Resolution of an Editor's note on signaling messages, which are not confidentiality protected Rules on concurrent runs of security procedures Update of NAS SMC figure An operator option to use NAS signalling confidentiality protection Inconsistent text in section 9.2.2.2 related to HO from UTRAN to E-UTRAN Clarification on key identification and KeNB derivation Correction of eKSI usage in AS and other corrections of 33.401 Correction of security context transfer over S10 Test vectors for 128-EEA2 and 128-EIA2 Clarification on the requirement of AS algorithm selection procedure during intra-eNB handover Correction of rules on concurrent runs of security procedures UE Security Capability Storage Clarification Clarification of key change on the fly (Rel-8)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					KeNB handling at RRC connection re-establishment (Rel-8) Some corrections to the key hierarchy diagrams (Rel-8) Corrections of security context Correcting the details of NAS COUNT (Rel-8) Correcting the setting of the key identifier to '111' (Rel-8) Completing the EPS AKA description (Rel-8) Clarification for Kenb and NH derivations definition Clarification to EIA2 Test Vectors Miscellaneous Modifications Clarification of NH usage (Rel-8) Add missing details for NAS SMC (Rel-8) Deleting mis-leading sentence in 7.2.9.2 (Rel-8) Correction to key identification (Rel-8) Clarifying the inter-RAT TAU Request behaviour (Rel-8) Correcting the calculation of K_eNB at handover to E-UTRAN (Rel-8)

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-33.402	8.5.0	8.3.1	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	• Editorial corrections to security context establishment • Authorization for ANDSF • Clarifications for Annex A and References • Change in the Clause 6.2. Removal of explicit CK'/IK' function. • Correction of KDF definition • Combination of authentication and authorization procedures • Clarification of order for identity request , identity for EAP-AKA' and AVs fetching • HA switch consideration for DSMIPv6 bootstrap • Clarification for network domain security and PMIP security • Add a NOTE to clarify the security for S101 • Clarification on use of USIM/UICC in non-3GPP accesses • Corrections to clause 7 • Generation of pseudonyms and re-authentication identities • Updating reference to EAP-AKA' RFC

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-34.108	8.8.0	8.6.0	R5	Common test environments for User Equipment (UE); Conformance testing	Additions/Updates related to TDD, HSPA, InterRAT,..etc. and many corrections.
ARIB STD-T63-34.114	8.2.0	8.1.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	TDD UE over the Air conformance testing methodology (RP-090813)
ARIB STD-T63-34.121-1	8.8.0	8.6.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	Additions/Updates related to TDD, HSPA, InterRAT,..etc. and many corrections.
ARIB STD-T63-34.121-2	8.8.0	8.6.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Adding test 9.2.3E applicability - New HSDPA demodulation test for MIMO + 64QAM - Applicability of New TC9.2.1L - Removing Table A.3 in TS 34.121-2 And some corrections.
ARIB STD-T63-34.123-1	8.8.0	8.6.0	R5	UE conformance specification;Part 1: Protocol conformance specification	New test cases for LCR TDD MBSFN, MBSFN FDD, Selection of RAT, HSPA/64QAM+MIMO, ..etc. Many corrections and updates.
ARIB STD-T63-34.123-2	8.8.0	8.6.0	R5	UE conformance specification;Part 2: ICS proforma specification	Changes related to 34.123-1/34.123-3.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T62-34.123-3	8.3.0	8.1.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Baseline was upgraded to Mar-09 Rel-8. New test cases for WI-068, WI-069 and WI-070. Many corrections.
ARIB STD-T63-34.229-1	8.3.0	8.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Update IMS test case 8.1-8.3, 8.5-8.9 (RP-090433) - Update test cases 16.1-16.4 (RP-090794) - Addition of P-Asserted-Identity header field to the 380 Alternative Service message (RP-090795) and some corrections
ARIB STD-T63-34.229-2	8.3.0	8.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Addition of PICS for support of UI Message Waiting Indication (RP-090433) - Update table A.318 SDP types (RP-09794)
ARIB STD-T63-36.101	8.7.0	8.5.1	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	- PRACH EVM - Power control accuracy. - Rx IP2 performance - Correction of LTE UE ACS and ACLR test parameter - Spectrum flatness clarification - Power range applicable for relative tolerance etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.104	8.7.0	8.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	- Clarification of requirements for multicarrier BS - CR ACS frequency offset - Correction to DL RS power - Correction to Receiver Dynamic Range minimum requirements - UL timing adjustment performance requirement clarifications - Clarification of the UL timing adjustment performance determination - Corrections to E-UTRA Rx requirements - Clarifications on testing UL timing adjustment requirements - Correction on Table A.3-1 FRC parameters for performance requirements (QPSK 1/3) of Annex 3 - LTE operating band unwanted emissions revision
ARIB STD-T63-36.133 (cont.)	8.7.0	8.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	- E-UTRA FDD UTRA TDD HO delay test case - E-UTRAN RRC Re-establishment Test Cases - Correction of cell reselection test cases - Test cases of E-UTRA FDD intra-frequency cell search in fading environment when DRX is used - Correction to Radio Link Monitoring Tests - Correction to E-UTRAN FDD to HRPD Cell Reselection Test Case - Alignment of inter frequency and inter RAT RRM reselection testcases with core requirements. - Modifications of T3 and the verification point for in-sync test cases. - E-UTRAN UE Timing Accuracy Related Test Cases. - Correction to Inter-RAT HO Interruption Time Definition - cdma200 RRC delay, interruption time - Random Access Requirements - Clarifications for the Relative RSRP and RSRQ measurement requirements. - E-UTRAN UTRAN HO Command Processing Delay. - Corrections of Cell Reselection Requirements in Idle Mode

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					- Further clarification of DRX/Non-DRX state. - Correction on reference to 3GPP2 specification - OCNG simplification. - Introduction of Reference DRX configurations - Correction to HO Test Cases - E-UTRA FDD - E-UTRA FDD and UTRA FDD cell search test cases - E-UTRA FDD UTRA FDD Blind Handover test case: unknown target cell - Small corrections to Measurements performance tests parameters - RRM Test case for multiple E-UTRAN FDD-FDD Inter-frequency event triggered reporting under fading propagation conditions - Fading reselection test case between E-UTRA and UTRA - Corrections to Measurements of HRPD cells and cdma2000 1X - Corrections to E-UTRAN RRC_IDLE state mobility requirements - Correction to UE Transmit Timing Requirements etc.
ARIB STD-T63-36.141	8.4.0	8.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	- Corresponding changes in TS36.104 (V8.7.0). - Correction of test models for E-UTRAN. - Test system uncertainty for Transmitter intermodulation - Adding test model for transmit ON/OFF test - Addition of missing Test Tolerances for transmitter tests - Test system uncertainty for Receiver dynamic range - Test Tolerances for Performance test cases - UL timing adjustment measurement system set-up. - Clarification of the multi user PUCCH performance determination - Clarification of the UL timing adjustment performance determination - Receiver intermodulation clarification - Correction on reference of extreme power supply etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.211	8.8.0	8.6.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Clarify DMRS sequence for PUSCH. Correct UE behavior for PRACH 20ms periodicity. Correct PHICH resource mapping for TDD and PHICH scrambling.
ARIB STD-T63-36.212	8.7.0	8.6.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Clarify some parameters for determining control resources on PUSCH.
ARIB STD-T63-36.213	8.8.0	8.6.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Clarify latest and initial PDCCH for PDSCH and PUSCH transmissions, and NDI for SPS activation. Correct the condition of resetting accumulated uplink power correction. Clarify TPC commands for SPS. Clarify DRS EPRE. Correct the random access channel parameters received from higher layer. Clarify the HARQ process number. Correct PUSCH hopping and PHICH mapping procedures. Correct DVRB operation in TDD transmission mode 7. Correct periodic CQI reporting. Clarify subband indexing in periodic CQI reporting. Correct UE procedure for reporting ACK/NACK for TDD. Clarify concurrent ACKNACK and periodic PMI/RI transmission on PUCCH for TDD. Correct the description on TTI-bundling. Clarify Inter-cell synchronization text.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.214	8.7.0	8.6.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Clarify reference point of RSRP and RSRQ for EUTRA.
ARIB STD-T63-36.300	8.10.0	8.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	• Proposed CR to 36.300 on RLC status report triggers • Updates on UE capability transfer and container handling for E-UTRA • Proposed CR to 36.300 Rel-8 on FFS and outdated statements • Removal of no longer necessary notes • Introduction of support for Cell traffic trace • Correction the text about the UE History Information • Configuration transfer • Correction regarding SRVCC • Clarification on UE behaviour in case of L2 buffer overflow • Removal of MBMS • Corrections to ECGI Specification • Addition of missing Resource Status Reporting procedures • Handling of Radio Link Failure and S1 UE Context Release Request • Introduction of informative text on Initial Context Setup failure
ARIB STD-T63-36.302	8.2.0	8.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	• Correction of MBMS • Downlink reception types • Simultaneous reception of transport channels in the LTE • Clarification on the parallel receptions for PDSCHs

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.304	8.7.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	• CR on correction of sign in SnonServingCell,x for CDMA2000 RATs • Correction to UE behaviour while 300s frequency barring timer is running • Correction to any cell selection procedure • Correction to reselection in case IFRI is not allowed • Clarification when no candidate cells on serving frequency • Clarification of the Priority Handling in CSG Cell • Correction to cell selection when leaving RRC connected mode • CR for Removing FFS for T3230 • Correction on the Lower Priority Cell Reselection Rule • Clarification on disabling E-UTRA capabilities with a USIM • Clarification on cell status and cell reservations • Correction on Cell reserved for operators use • clarifications for manual CSG ID selection
ARIB STD-T63-36.306	8.5.0	8.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	• Support of inter-RAT PS handover to GERAN Editor Note Removal • Clarification of Half Duplex in TDD • Correcting the maximum number of bits received during one TTI • Clarification of field names used in TS 36.331 • Clarification on disabling E-UTRA capabilities with a USIM • Unit for "Total layer 2 buffer size"

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.314	8.2.0	8.1.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	• Removal of measurements not reflected in interface specifications • Correction to the minimum measurement time for data loss measurements • Correction to the definition of PDCP SDU Delay measurement
ARIB STD-T63-36.321	8.7.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	• Correction on HARQ feedback transmission • Clarification on the DL assignment/UL grant reception in SPS • PHR timer handling after handover • MAC PDU for Msg2 • MAC Error handling • Correction on SR cancellation • Correction to RETX_BSR_TIMER • CR to 36.321 on UL SPS Implicit Release • Various correction to MAC • Correction to Uplink grant by temporary C-RNTI • Clarification on simultaneous reception of RA-RNTI and C-RNTI • Correction on timeAlignmentTimer validity in MAC • CR for MAC padding • Correction to duplicate reception of TA command (2nd method) • Correction to NDI semantics • Minor corrections to 36.321 • UE behaviour when MBSFN subframe and a configured downlink assignment collide • Correction to HARQ process ID for DL SPS retransmissions

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.322	8.7.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	- Reset of T_poll_retransmission - RLC functions - Correction to handling of reserved field - Correction to condition for stopping t-Reordering in AM mode - Possible misinterpretation on incrementing RETX_COUNT
ARIB STD-T63-36.323	8.6.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	- PDCP Status Report - Correction to PDCP PDU submission condition in lower layer re-establishment - Minor correction and clarification to 36.323
ARIB STD-T63-36.331 (cont.)	8.7.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	- Octet alignment of VarShortMAC-Input - Minor corrections to the feature grouping - Security clarification - Sending of GERAN SI/PSI information at Inter-RAT Handover - Correction of UE measurement model - Restricting the reconfiguration of UM RLC SN field size 36.331 CR on Clarification on cell change order from GERAN to E-UTRAN 36.331 CR - Handling of expired TAT and failed D-SR - Proposed CR to 36.331 Clarification on mandatory information in AS-Config - Miscellaneous small corrections - Clarification on the basis of delta signalling - CR on Alignment of CCCH and DCCH handling of missing mandatory field - Handling of Measurement Context During HO Preparation - Clarification of key-eNodeB-Star in AdditionalReestabInfo

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					• UE Capability Transfer - Clarification regarding mobility from E-UTRA in-between SMC and SRB2/DRB setup - Correction and completion of specification conventions - RB combination in feature group indicator - CR for need code for fields in mobilityControllInfo - Alignment of pusch-HoppingOffset with 36.211 - Explicit srb-Identity values for SRB1 and SRB2 - Removing use of <i>defaultValue</i> for <i>mac-MainConfig</i> - Proposed update of the feature grouping - Clarification on measurement object configuration for serving frequency - Correction regarding SRVCC - Indication of DRB Release during HO - Correction regarding application of dedicated resource configuration upon handover - REL-9 protocol extensions in RRC - In-order delivery of NAS PDUs at RRC connection reconfiguration Correction on Threshold of Measurement Event Clarification on dedicated resource of RA procedure Cell barring when MasterInformationBlock or SystemInformationBlock1 is missing Security threat with duplicate detection for ETWS Clarification on supported handover types in feature grouping Handling of unsupported / non-comprehended frequency band and emission requirement RB combinations in feature group indicator 20
ARIB STD-T63-36.401	8.7.0	8.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Clarification on the Paging Function in E-UTRAN Coexistence of LTE-TDD systems

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.413 (cont.)	8.7.0	8.5.1	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Editorial Updates Correction of RAN#43 CR implementation Explicitly allow TRACE START to be the first UE-associated message received at the eNB Clarification of UE Capability Info Indication Mandatory UE History Information IE in HANDOVER REQUIRED For Inter-RAT HO from E-UTRAN to UMTS Clarify eNB may send Release msg rather than RRC Reject msg on receiving OVERLOAD Start msg Clarify reporting of duplicate E-RABs in E-RAB RESPONSE Correction of security parameters Emergency call Indicator during CS Fallback Correction on Path Switch Request procedure Removing 'outcome' element from the Triggering Message IE Missing S1AP functions Correction of abnormal conditions in UE Context Release Clarification of E-UTRAN Trace ID in Cell Traffic Trace message Removal of duplication description of MME UE S1AP ID and eNB UE S1AP ID Abnormal condition for Handover Cancellation NNSF for HeNB GW deployment scenario Transparent Container Coding Some Editorial Corrections on ASN.1 Failure of the eNB Configuration Update procedure Rephrasing of abnormal conditions for S1 setup Cause value for inter-RAT Redirection NAS PDU in E-RAB Release Command Alignment of eNB configuration update procedure Add that a non-GBR must be received and admitted on S1-

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
(cont.)					HO Clarification of Security Context to be used in HANDOVER REQUEST message Correction the text about the Handover Resource Allocation procedure Clarification for RAT list in S1 Setup Response and MME configuration Update Range bound for maximal number of PLMNs per MME and GUMMEIs Correction of an ASN.1 implementation error of CR0463r1 in RP-090637 (R3-091456) Corrections for 36.413 SRVCC to GERAN/UTRAN Clean up the Terminology of home eNB in S1AP Specify how report dup E-RAB ID in Tabular and replace MME with EPC in 8.3.1.2 Indirect path use by the MME Handling of not supported QCI values E-RABs subject to forwarding Mandatory NAS PDU in E-RAB Release Command Missing reference and specification for encoding the CDMA2000 Pilot List CR on <i>Repetition Period</i> IE Miscellaneous correction to 36.413v8.6.1 ASN1 object identified correction Interaction between Initial Context Setup/UE Context Modification and Handover Preparation/Redirection procedures during CS Fallback

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.423	8.7.0	8.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Issue related to served GUMMEI over X2 Indication of candidate neighbours Correction of abnormal conditions in UE Context Release Crossing of X2 Setup Request message Addition of antenna information Add that eNB must receive and accept a non-GBR on X2 HO Removal of duplicated causes Specification of max number of pools Specify how to report dup E-RAB ID in X2AP Tabular
ARIB STD-T63-36.508	8.3.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Updates and corrections related to TDD, RF testing, RRM testing, ..
ARIB STD-T63-36.509	8.3.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	Support of mandatory AT commands via EMMI (R5-092766). Others are corrections and clarifications.
ARIB STD-T63-36.521-1	8.3.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	New test case for Aggregate power control tolerance. Many updates and corrections.
ARIB STD-T63-36.521-2	8.2.0	8.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Some corrections and updates.

Revised Standard Number	Version at ARIB STD-T63 Ver.7.40	Version at ARIB STD-T63 Ver.7.30	3GPP WG	Title	Change Summary
ARIB STD-T63-36.523-1	8.3.2	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Many updates for GCF Priority1/2 test cases. Many new test cases are added.
ARIB STD-T63-36.523-2	8.3.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	Changes related to 36.523-1 changes

(Annex 38)

3GPP ARIB Change history List of Standards Ver. 8.00

26 April 2010

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	3.18.0	3.17.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	4.15.0	4.14.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specs
ARIB STD-T63-25.307	4.15.0	4.14.0	R2	Requirements on UE supporting a release- independent frequency band	Introduction of band XXI

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	5.14.0	5.13.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-25.307	5.14.0	5.13.0	R2	Requirements on UE supporting a release- independent frequency band	Introduction of band XXI

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	6.10.0	6.9.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specifications
ARIB STD-T63-25.307	6.11.0	6.10.0	R2	Requirements on UE supporting a release- independent frequency band	Introduction of band XXI

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	7.5.0	7.4.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-21.111	7.2.0	7.1.0	C6	USIM and IC card requirements	• Reference update
ARIB STD-T63-23.203	7.12.0	7.11.0	S2	Policy and charging control architecture	It is clarified in the GPRS specific Annex that the AF instruction to report changes of the IP-CAN bearer level information Type of IP-CAN shall also result in a reporting of RAT type changes. Furthermore, statements about the notification about the signalling path status have been generalized to include the notification about other IP-CAN bearer level events as well.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	7.16.0	7.15.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Reference to draft-ietf-mmusic-ice-18 updated to draft-ietf-mmusic-ice-19 (draft still in RC Ed Queue). Reference to draft-ietf-behave-turn-04 updated to draft-ietf-behave-turn-16 (draft still in RC Ed Queue). Reference to draft-ietf-behave-rfc3489bis-04 replaced by RFC 5389. Reference to draft-ietf-sip-outbound-13 replaced by RFC 5626. Reference to draft-ietf-sip-gruu-15 replaced by RFC 5627. draft-ietf-sipping-gruu-reg-event-09 replaced by RFC 5628. Various typos and formatting fixed.
ARIB STD-T63-25.101	7.17.0	7.16.0	R4	UE Radio transmission and reception (FDD)	Changing the test-parameters so that the HS-SCCH ID for the UE under test is transmitted every 4th subframe instead of every sub-frame, and clarification of HS-PDSCH transmitted without re-transmissions were made.
ARIB STD-T63-25.102	7.16.0	7.15.0	R4	UE Radio transmission and reception (TDD)	New requirements and FRC for HSUPA feature were introduced.
ARIB STD-T63-25.105	7.13.0	7.12.0	R4	Base Station (BS) radio transmission and reception (TDD)	Correction of the code rate of E-DCH FRCs for 1.28Mcps TDD was made.
ARIB STD-T63-25.123	7.10.0	7.9.0	R4	Requirements for support of radio resource management (TDD)	The number of additional TDD carriers monitored in CELL-FACH was corrected to 8 to ensure the consistency to Idle and CELL-DCH.
ARIB STD-T63-25.141	7.15.0	7.14.0	R4	Base Station (BS) conformance testing (FDD)	Correction of test set-up and update for “Time alignment error in Tx diversity and MIMO transmission” were made.
ARIB STD-T63-25.142	7.13.0	7.12.0	R4	Base station (BS) conformance testing (TDD)	Correction of the code rate of E-DCH FRCs for 1.28Mcps TDD and the figure number for E-DCH FRC1 A.12 were made.
ARIB STD-T63-25.211	7.9.0	7.8.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify MIMO phase references.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.213	7.7.0	7.6.0	R1	Spreading and modulation (FDD)	Clarify the quantization of E-DPDCH power offset without E-DPCCH boosting.
ARIB STD-T63-25.214	7.14.0	7.13.0	R1	Physical layer procedures (FDD)	Clarify HS-SCCH monitoring when 64QAM is configured. Clarify the timing for the CQI nominal timer and CQI DTX TIMER.
ARIB STD-T63-25.302	7.8.0	7.7.0	R2	Services provided by the physical layer	Updates to Rel-7 HSDPA MIMO for FDD
ARIB STD-T63-25.307	7.7.0	7.6.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XXI
ARIB STD-T63-25.319	7.8.0	7.7.0	R2	Enhanced uplink; Overall description; Stage 2	Correction on SI sent mechanism for 1.28Mcps TDD
ARIB STD-T63-25.321	7.15.0	7.14.0	R2	MAC protocol specification	Clarification of the transmission power of SI-only MAC-e PDU for 1.28Mcps TDD TSN or SI field presences in case of consecutive BCCH/PCCH re-ordering PDUs Clarification for scheduling information reporting for 1.28Mcps TDD Corrections to MAC-eHS reset
ARIB STD-T63-25.423	7.15.0	7.14.0	R3	UTRAN Iur interface RNSAP signalling	Correction for the Cause value mismatch between Rel7 and Rel8/Rel9
ARIB STD-T63-25.433	7.15.1	7.14.0	R3	UTRAN Iub interface NBAP signalling	Correction to ASN.1 for MiMO Power offset
ARIB STD-T63-31.101	7.1.0	7.0.1	C6	UICC-Terminal Interface; Physical and Logical Characteristics	• Reference update
ARIB STD-T63-31.102	7.15.0	7.14.0	C6	Characteristics of the USIM Application	• Reference update
ARIB STD-T63-31.103	7.6.0	7.5.0	C6	Characteristics of the ISIM Application	• Reference update

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.115	7.2.0	7.1.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• References update
ARIB STD-T63-31.116	7.1.0	7.0.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• References update
ARIB STD-T63-31.130	7.9.0	7.8.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	• References update
ARIB STD-T63-31.131	7.1.0	7.0.0	C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	• References update
ARIB STD-T63-31.133	7.3.0	7.2.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	• References update

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-21.101	8.2.0	8.1.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
ARIB STD-T63-21.111	8.3.0	8.2.0	C6	USIM and IC card requirements	• Reference update
ARIB STD-T63-21.201	8.2.0	8.1.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Correction to list of specifications
ARIB STD-T63-21.202	8.2.0	8.1.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Correction to list of specifications
ARIB STD-T63-22.101	8.14.0	8.13.0	S1	Service aspects; Service principles	Providing eCall indication to the PSAP Remove requirement for operator determined eCall call-back duration.
ARIB STD-T63-22.278	8.10.0	8.9.0	S1	Service requirements for the Evolved Packet System (EPS)	One active policy ruleset in ANDSF
ARIB STD-T63-23.038	8.3.0	8.2.0	C1	Alphabets and Language-specific information	Define the use of data coding scheme for the ETWS warning message

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-23.041	8.5.0	8.4.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Additional ETWS requirements for the BSC - CBC Cell Broadcast protocol Clarification on ETWS secondary notification Correction of duplicate detection in the UE
ARIB STD-T63-23.203	8.8.0	8.7.0	S2	Policy and charging control architecture	It is clarified that the AF instruction to report changes of the IP-CAN bearer level information Type of IP-CAN shall also result in a reporting of RAT type changes. Furthermore, statements about the notification about the signalling path status have been generalized to include the notification about other IP-CAN bearer level events as well. The limitation of having BCM over Gx only for 3GPP accesses is removed. Replace the first PCRF with PCEF in the last sentence of clause 6.1.4. - Reference to 23.060 is added as this is where the procedures for 2G/3G access is specified. - A new picture similar to the one in annex A.1 is included with the sole intention to show that it is the PDN-GW that contains the PCEF for 3GPP EPS. - It is clarified that IP-CAN type is EPS - It is clarified that PDN-GW maps QoS according to Appendix E in 23.401 when access to 2G/3G is via Gn/Gp and mobility to E-UTRAN is possible.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	8.11.0	8.10.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Reference to draft-ietf-mmusic-ice-18 updated to draft-ietf-mmusic-ice-19 (draft still in RC Ed Queue). Reference to draft-ietf-behave-turn-04 updated to draft-ietf-behave-turn-16 (draft still in RC Ed Queue). Reference to draft-ietf-behave-rfc3489bis-04 replaced by RFC 5389. Reference to draft-ietf-sip-outbound-13 replaced by RFC 5626. Reference to draft-ietf-sip-gruu-15 replaced by RFC 5627. draft-ietf-sipping-gruu-reg-event-09 replaced by RFC 5628. Various typos and formatting fixed. In 4.3.3.2b it is explicitly stated that wildcarded Public User Identities are registered implicitly, but identities matching the wildcarded public identity set can be defined separately: those distinct Public User Identities can have other service profile than the wildcarded Public User Identity set, but must be in the same implicit registration set. Additional corrections: Missing Public User Identity definition added, Public User Identity capitalized throughout the specification.
ARIB STD-T63-23.236	8.1.0	8.0.0	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	The usage of the 23.003 mapping is clarified as only applicable to LTE-Legacy RA/TA updating.
ARIB STD-T63-25.A01	8.1.0	8.0.0	R4	The Low Power Repeaters for DS-CDMA	Introduced the protection of E-UTRA BS and revised the editorial corrections.
ARIB STD-T63-25.101	8.9.0	8.8.0	R4	UE Radio transmission and reception (FDD)	With corresponding changes in V7.17.0, clarifications of chapter 9 were made. Modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.104	8.9.0	8.8.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corrections on Additional spectrum emission limits, Blocking performance requirement and Timing alignment error definition were made. And Clarification of Testing case of Rx diversity, Tx diversity and MIMO was made. Protection of E-UTRA was introduced. And modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-25.113	8.5.0	8.4.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Removal of the note 1 from table 3 in 7.1 was made to make conducted emission testing applicable if Radio unit contains the telecommunication port. Modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-25.133	8.9.0	8.8.0	R4	Requirements for support of radio resource management (FDD)	Corrections to Enhanced Serving HS-DSCH cell change test case and Clarification of measurement requirements of secondary carrier for DC-HSDPA were made. Modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-25.141	8.9.0	8.8.0	R4	Base Station (BS) conformance testing (FDD)	With corresponding changes in V7.15.0, correction of Spectrum emission limits and Timing alignment error were made. And clarification of the testing cases for MIMO, TX diversity and RX diversity were made. Modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-25.211	8.6.0	8.5.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify MIMO phase references. Clarify STTD configuration for dual-cell HSDPA.
ARIB STD-T63-25.213	8.5.0	8.4.0	R1	Spreading and modulation (FDD)	Clarify the quantization of E-DPDCH power offset without E-DPCCH boosting.
ARIB STD-T63-25.214	8.8.0	8.7.0	R1	Physical layer procedures (FDD)	Clarify HS-SCCH monitoring. Clarify the timing for the CQI nominal timer and CQI DTX TIMER.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.302	8.5.0	8.4.0	R2	Services provided by the physical layer	Updates to Rel-7 HSDPA MIMO for FDD
ARIB STD-T63-25.304	8.8.0	8.7.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Introduction of DC-HSDPA for FDD
ARIB STD-T63-25.306	8.9.0	8.8.0	R2	UE Radio Access capabilities	Making features "Absolute priority reselection to GERAN", "Absolute priority reselection to UTRA inter-frequency" optional (Option1) Support for carrier-specific STTD configuration for DC-HSDPA
ARIB STD-T63-25.307	8.5.0	8.4.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XXI
ARIB STD-T63-25.319	8.8.0	8.7.0	R2	Enhanced uplink; Overall description; Stage 2	Correction on SI sent mechanism for 1.28Mcps TDD
ARIB STD-T63-25.321	8.8.0	8.7.0	R2	MAC protocol specification	Clarification of the transmission power of SI-only MAC-e PDU for 1.28Mcps TDD Clarification on when to include SI in MAC-i PDU Corrections to some figures in MAC specification TSN or SI field presences in case of consecutive BCCH/PCCH re-ordering PDUs Clarification for scheduling information reporting for 1.28Mcps TDD Corrections to MAC-ehs reset Editorial correction on E-TFC selection for TDD Clarification on Cell Reselection Indication procedure for 1.28 Mcps TDD Clarification on when to include SI in MAC-i PDU for 1.28Mcps TDD Revision necessary as not the latest version was uploaded. Difference to version 8.8.0: first parts of figures 4.2.4.1 and 4.2.4.6-1 removed and "/MAC-i" added to procedure 3 in Annex CA.
ARIB STD-T63-25.367	8.3.0	8.2.0	R2	Mobility Procedures for Home Node B; Overall description; Stage 2	Correction to definition of CSG cell Correction to the manual CSG ID selection description

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.423	8.7.0	8.6.0	R3	UTRAN Iur interface RNSAP signalling	Correction of abnormal conditions for Dual cell HS-DSCH in RL Addition procedure Clarification of the meaning of BIT STRING type IEs for SPS operation for 1.28Mcps TDD MAC-e Reset Indicator for MAC-i Reset Further Corrections for DC-HSDPA Wrong ref in tabular STTD is cell specific in Dual-Cell HSDPA Correction on IE "E-AGCH Table Choice"
ARIB STD-T63-25.425	8.4.0	8.3.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction on value range for Number of MAC-is SDU in frame Correction to the NodeB procedure when receiving uplink synchronization failure from physical layer for 1.28Mcp TDD
ARIB STD-T63-25.427	8.2.0	8.1.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Correction on value range for Number of MAC-is SDU in frame
ARIB STD-T63-25.433	8.7.1	8.6.0	R3	UTRAN Iub interface NBAP signalling	Correction to ASN.1 for MiMO Power offset Clarification of DPC mode configuration for common E-DCH Correction of an error in the HS-DSCH Common System Information LCR IE Clarification of Priority Queue ID for Enhanced CELL_FACH for 1.28Mcps TDD Further Corrections for DC-HSDPA Introduction of E-RNTI in RL Information in RL Setup Request Application of MAC-e Reset Indicator for MAC-i Reset Correction of abnormal conditions for Dual cell HS-DSCH in RL

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
					Addition procedure Clarification of several IEs names for 1.28 Mcps TDD Correction of HARQ Memory Partitioning configuration in Enhanced Cell_FACH Operation for 1.28 Mcps TDD Correction on IE "E-AGCH Table Choice" Addition of ans.1 definition for the E-DCH Semi-Persistent Resource Reservation Indicator IE Correction on ASN.1 errors in IE Common E-DCH System Information Response LCR for 1.28Mcps TDD Correction on the SPS resource configuration for 1.28Mcps TDD STTD is cell specific in Dual-Cell HSDPA
ARIB STD-T63-25.435	8.4.0	8.3.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction to the NodeB procedure when receiving uplink synchronization failure from physical layer for 1.28Mcp TDD Correction on the description of HS-DSCH DATA FRAME TYPE2 Silent Mode for Common E-DCH Correction on value range for Number of MAC-is SDU in frame Correction of the limitation to FACH indicator for 1.28Mcps TDD Clarification for eDRX Indication
ARIB STD-T63-25.446	8.1.0	8.0.0	R3	MBMS synchronisation protocol(SYNC)	Ignorance of Total Number Of Packet and Total Number Of Octet in case of Soft Combining and MBSFN Correction for SYNC Protocol

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-25.467	8.4.0	8.3.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Add assigned SCTP Port Number for RUA and HNBAP Clean up of 25.467 Removal of FFS's in the stage2 for HNB
ARIB STD T63-25.469	8.4.0	8.3.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Correction to ASN.1 references Addition of cause value for Invalid UE identity
ARIB STD-T63-26.102	8.3.0	8.2.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Correction of payload field size for mapping of GSM FR on Nb interface.
ARIB-STD-T63-26.237	8.4.0	8.3.0	S4	IMS based PSS and MBMS User Service; Protocols	Clarification on IMS based PSS streaming, SIP Info for content switching, Clarification on Content Identifier in Session Initialization Procedure and Service Selection Information Update.
ARIB STD-T63-26.267	8.3.0	8.2.0	S4	AeCall data transfer; In-band modem solution; General description	Correction to text in clause 4.3.
ARIB STD-T63-27.007	8.10.0	8.9.0	C1	AT command set for 3G User Equipment (UE)	Correction of direction of data for +CPOS Correction of outstanding Editor's note on +WS46
ARIB STD-T63-31.101	8.1.0	8.0.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	• Reference update
ARIB STD-T63-31.102	8.8.0	8.7.0	C6	Characteristics of the USIM Application	• Reference update • Correction of incorrect tag value • Correction of Allowed CSG list
ARIB STD-T63-31.103	8.2.0	8.1.0	C6	Characteristics of the ISIM Application	• Reference update

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.115	8.1.0	8.0.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• References update
ARIB STD-T63-31.116	8.1.0	8.0.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• References update
ARIB STD-T63-31.120	8.1.0	8.0.0	C6	UICC-terminal interface; Physical, electrical and logical test specification	• References update
ARIB STD-T63-31.121	8.3.0	8.2.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Correction of EF UST in clause 4.4.1 - Definition of the UICC presence detection test when connected to E-UTRAN/EPC - Definition of ACL related test cases for E-UTRA - Editorial correction of the naming of RRConnectionRequest - Update of CGS list tests
ARIB STD-T63-31.124	8.4.0	8.3.1	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of 27.22.4.7.3 - Update of TS 31.124 for terminals supporting E-UTRAN - Introduction of Open Channel tests for E-UTRAN
ARIB STD-T63-31.130	8.3.0	8.2.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	• References update - Support of missing event EVENT_EVENT_DOWNLOAD_NETWORK_REJECTION - Support of missing constants in USAT Terminal Profile

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-31.131	8.1.0	8.0.0	C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	• References update
ARIB STD-T63-31.133	8.1.0	8.0.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	- References update
ARIB STD-T63-31.220	8.1.0	8.0.0	C6	Characteristics of the Contact Manager for 3GPP UICC applications	- References update
ARIB STD-T63-33.102	8.5.0	8.4.0	S3	3G security; Security architecture	Mandating integrity protection of reject messages that cause CSG list to be modified Replacing KDF definition with a reference
ARIB STD-T63-33.107	8.10.0	8.9.1	S3	3G security; Lawful interception architecture and functions	Correction on events names Restoring section header 9.4.5 Correction on PDP context modification event Correction on LI correlation for S4-SGSN
ARIB STD-T63-33.108	8.9.0	8.8.0	S3	3G security; Handover interface for Lawful Interception (LI)	Correction of misalignments for values of “initiator” parameter for EPS Missing TAU Failure Reason parameter mapping for MME interception Correction on LI correlation for S4-SGSN Correction on the length of RAI parameter in ASN.1 module for HI2 EPS

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	8.8.0	8.7.0	S3	3G security; Access security for IP-based services	Removal of editor's note on draft-ietf-sip-outbound (Rel-8) Removal of editor's note on X.509 Certificate profile alignment Removing editor's notes in Annex P
ARIB STD-T63-33.220	8.8.0	8.7.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	KDF clarification
ARIB STD-T63-33.401	8.6.0	8.5.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	selected algorithms forwarding to the target eNB in intra LTE handover Correction of protection of the NAS security mode reject message (Rel-8) EPS NAS security context storage key replacement clarification Clarifications to context handling in idle mode procedures Clarifications to context handling in IRAT handover Correction to store security context to ME Corrections to state transition Not resetting STARTPS to 0 in HO from EUTRAN to UTRAN and not resetting STARTCS to 0 in SRVCC Corrections for 33.401 Concurrency of inter-MME handovers and NAS downlink messages Partial native EPS security context NAS COUNT value Alignment of Context modifications behaviour Clarification of NAS integrity protection activation

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
					Nas-token and key calculation at idle mobility from E-UTRAN to UTRAN/GERAN Clarifying the calculation of KeNB when there is more than one NAS SMC Behaviour for lost NAS SMC message when creating mapped context Clarification of Authentication Data and transition to EMM-DEREGISTERED and Correction of text on authentication data transfer Key-Chaining issue in I-RAT handover to UTRAN NCC Initialization in eNB at the Initial Connection Setup Correction of ECM states Replacing KDF definition with a reference Correcting A.11 NAS COUNT handling during IRAT handover Concurrency of inter-RAT handovers and NAS SMC procedure
ARIB STD-T63-33.402	8.6.0	8.5.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction of CMIPv4 Key derivation and SPI calculation for WiMAX interworking Replacing KDF definition with a reference
ARIB STD-T63-34.108	8.9.0	8.8.0	R5	Common test environments for User Equipment (UE); Conformance testing	Additions/Updates related to TDD, HSPA,..etc. and some corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.114	8.3.0	8.2.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	- Over The Air antenna performance: New informative Annex for Recommended performance (RP-091119)
ARIB STD-T63-34.121-1	8.9.0	8.8.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	Changes related to HSDPA, UTRA-EUTRA HO, ..etc.
ARIB STD-T63-34.121-2	8.9.0	8.8.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Updates to Applicability table corresponding to DC-HSDPA tests (RP-091124) - Addition of DC-HSDPA receiver tests into TS 34.121-2 (RP- 091124)
ARIB STD-T63-34.123-1	8.9.0	8.8.0	R5	UE conformance specification; Part 1: Protocol conformance specification	Addition of new test cases for 64QAM+MIMO, TDD, eCall, Dual cell, ..etc. and many corrections.
ARIB STD-T63-34.123-2	8.9.0	8.8.0	R5	UE conformance specification; Part 2: ICS proforma specification	Changes related to 34.123-1 changes.
ARIB STD-T62-34.123-3	8.4.0	8.3.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Many ciphering test cases and CPC test cases are added. Also many corrections.
ARIB STD-T63-34.124	8.4.0	8.3.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Modifications of the relevant requirements for Band XI were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-34.229-1	8.4.0	8.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	Updating test cases.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-34.229-2	8.4.0	8.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Update applicability for test cases 14.1 and 14.2 (RP-091116) - Update applicability for test case 12.2 (RP-091118) - Update table A.12 (RP-091118)
ARIB STD-T63-34.229-3	8.2.0	8.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- CR to 34.229-3 (prose) update to v820 (RP-091156)
ARIB STD-T63-36.101	8.8.0	8.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	It was made to revise following items; - Test case numbering in TDD PDSCH performance test - Beamforming model for user-specific reference signal - Redundancy sequences to PMI test - Throughput value correction at FRC for Maximum input level - Correction to the modulated E-UTRA interferer - OCNG using in receiver and performance tests - Miscellaneous corrections on CSI requirements - Rx diversity requirement - A-MPR notation in NS_07 - Single- and multi-PMI requirements - CQI reference measurement channel - Numbering of PDSCH (User-Specific Reference Symbols) Demodulation Tests - Numbering of PDCCH/PCFICH, PHICH, PBCH Demod Tests - Reference Measurement Channels in Annex A - RMC-s for Maximum input level test for low UE categories - UE-category for R.30 - Additional spurious emissions requirements of 1.4 MHz and 3 MHz channel bandwidths for Band 1 PHS protection - Measurement conditions of spurious emission requirements at the edge of spurious domain - Spurious emission table correction for TDD bands 33 and 38 - UTRA ACLR1 requirement definition for 1.4 and 3 MHz BW

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
					completed - ACK/NACK feedback modes for TDD requirements - Power control exception - Relative power tolerance: special case for receiver tests - CSI reporting: test configuration for CQI fading requirements - FDD demodulation test cases The relevant requirements for Band 11
ARIB STD-T63-36.104	8.8.0	8.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	It was made to revise following items; - ICS requirement - eNB FDD EVM - Terminology for noise bandwidth - LTE operating band unwanted emissions - Multi-path fading propagation conditions reference - Spurious emissions limits for BS co-existed with another BS - PRACH False alarm probability - UL Timing Adjustment test - Frequency range of unwanted emissions requirements - Testing in case of Rx diversity, Tx diversity and MIMO - Blocking performance requirement for Band 17 The relevant requirements for Band 11
ARIB STD-T63-36.113	8.2.0	8.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater Electro Magnetic Compatibility (EMC)	Removal of the note 1 from table7.1.1 was made to make conducted emission testing applicable if Radio unit contains the telecommunication port. Modifications of the relevant requirements for Band 11 were made to keep consistency with Rel-9 requirements.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-36.124	8.1.0	8.0.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	Modifications of the relevant requirements for Band 11 were made to keep consistency with Rel-9 requirements.
ARIB STD-T63-36.133	8.8.0	8.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	It was made to revise following items; - Defining requirements for UTRA TDD measurements for SON - Test case of E-UTRA TDD intra frequency cell reselection - Test case of E-UTRA TDD inter frequency cell reselection - E-UTRA TDD to UTRA FDD reselection test cases - Accuracy requirements for UTRAN FDD - cdma2000 HRPD measurement period - cdma2000 1x measurement period - E-UTRAN FDD - UTRAN FDD Cell Search in DRX Test Cases - Geometry factors for Intra freq Reselection Test Cases - RRM parameters for Bands 12, 14, 17 - PDSCH RMC-s - E-UTRAN TDD - UTRAN TDD cell search for SON - Cell Search Requirements for Intra-LTE Handover to Unknown Target Cell - UE UTRA TDD P-CCPCH RSCP measurement capability - Cell Timing Change Requirements for Event Triggered Reporting - Power Headroom Requirements - The time units for RRC Re-establishment test cases - Cell search test case in DRX to verify L3 filtering - ONCG Patterns The relevant requirements for Band 11

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-36.141	8.5.0	8.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	It was made to revise following items; - ICS requirement - The test method for blocking - EARFCN for band 33 and 34 - FRC A3-2 Coded block size - LTE operating band unwanted emissions - HARQ feedback clarification addition (Annex B) - Spurious emissions limits for BS co-existed with another BS - PRACH False alarm probability - UL Timing Adjustment test - Multi-path fading propagation conditions reference - Frequency range of unwanted emissions requirements - Testing in case of Rx diversity, Tx diversity and MIMO - Applicability of uncertainty for transmitter transient period The relevant requirements for Band 11
ARIB STD-T63-36.211	8.9.0	8.8.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Clarify the transmit condition for UE specific reference signals.
ARIB STD-T63-36.212	8.8.0	8.7.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Clarify bit widths of rank indication. Correct channel interleaver for PUSCH resource element mapping.
ARIB STD-T63-36.300	8.11.0	8.10.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CR on the usage of Transparent Mode MAC ETWS correction to 36.300 Inclusion of INTER RAT HANDOVER INFO at HO from UTRAN to GERAN Correction on the precondition for cell reselection to HRPD Overload reduction In order delivery of the multiple NAS PDUs

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-36.304	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification on Parameters for Cell Selection Correction related to Location Registration in manual CSG ID selection procedure. Correction related to PLMN selection in manual CSG ID selection procedure.
ARIB STD-T63-36.314	8.3.0	8.2.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	CR on the PRB usage per traffic class taking multiple antenna transmission into account
ARIB STD-T63-36.321	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Clarification on BSR trigger RNTI for CCCH
ARIB STD-T63-36.331	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Alignment of srs-Bandwidth with 36.211 Clarification of preRegistrationZoneID/secondaryPreRegistrationZoneID Clarification on P-max Clarification on the definition of maxCellMeas Feature grouping bit for SRVCC handover Correction and completion of extension guidelines Clarification on coding of ETWS related IEs
ARIB STD-T63-36.412	8.6.0	8.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Specification of SCTP destination port number
ARIB STD-T63-36.413	8.8.0	8.7.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Correction of E-RAB Modify Correction of Transport Layer Address Missing reference and unclear handling of the CDMA2000 Sector ID
ARIB STD-T63-36.422	8.6.0	8.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Specification of SCTP destination port number

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-36.423	8.8.0	8.7.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Clarification on operational use of updated configuration data
ARIB STD-T63-36.508	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Changes for InterRAT related parameters and other updates & corrections.
ARIB STD-T63-36.509	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	- Clarification on encoding of DRB Identity in LB setup DRB IE (R5-096062) - IP control signalling in UE test mode (R5-096711)
ARIB STD-T63-36.521-1	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	Most of changes are corrections or updates.
ARIB STD-T63-36.521-2	8.3.0	8.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- Correction CR to 36.521-2: Applicability changes to update the Demodulation of PDSCH (FDD) tests based on the CR merge results from RAN5#44 (R5-095519) - Update of RRM Conformance test applicability for RLM in DRX test cases (R5-095778) - CR to 36.521-2: Applicability additions for new RRM (FDD) tests (R5-095841)
ARIB STD-T63-36.521-3	8.2.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Addition of new test cases for handover/reselection (FDD-FDD, TDD-FDD, TDD-TDD, FDD-GSM, TDD-GSM). Many corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.00	Version at ARIB STD-T63 Ver.7.40	3GPP WG	Title	Change Summary
ARIB STD-T63-36.523-1	8.4.0	8.3.2	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	A huge number of updates. (Addition, removal and corrections)
ARIB STD-T63-36.523-2	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	Additions of applicability of new test cases.
ARIB STD-T63-36.523-3	8.1.0	8.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of test cases of GCF WI81/WI82.

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.111	9.0.0		C6	USIM and IC card requirements	Automatic upgrade from previous Release
ARIB STD-T63-22.001	9.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Automatic upgrade from previous Release
ARIB STD-T63-22.002	9.0.0		S1	Circuit Bearer Services Supported by a PLMN	Automatic upgrade from previous Release
ARIB STD-T63-22.003	9.0.0		S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Automatic upgrade from previous Release
ARIB STD-T63-22.016	9.0.0		S1	International Mobile Equipment Identities (IMEI)	Automatic upgrade from previous Release
ARIB STD-T63-22.022	9.0.0		S3	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Automatic upgrade from previous Release
ARIB STD-T63-22.030	9.0.0		S1	Man-Machine Interface (MMI) of the User Equipment (UE)	Automatic upgrade from previous Release
ARIB STD-T63-22.031	9.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.032	9.0.0		S3	Immediate Service Termination (IST); Service description; Stage1	Automatic upgrade from previous Release
ARIB STD-T63-22.034	9.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.038	9.0.0		S1	USIM Application Toolkit (USAT/SAT);Service description; Stage 1	Discovery of surrounding home (e)NodeB by UICC
ARIB STD-T63-22.053	9.0.0		S4	Tandem Free Operation(TFO);Service description;Stage1	Automatic upgrade from previous Release
ARIB STD-T63-22.057	9.0.0		S1	Mobile Execution Environment (MExE); Service description; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.067	9.0.0		S1	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.071	9.0.0		S1	Location Services (LCS); Service description; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.076	9.0.0		S4	Noise Suppression for the AMR Codec; Service description; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.101	9.6.0		S1	Service aspects; Service principles	Providing eCall indication to the PSAP Remove requirement for operator determined eCall call-back duration. User data repository shall be possible to be shared among different PLMNs that have trusted relationships Use of GTT-IP for IMS emergency calls

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.105	9.0.0		S1	Services & Service capabilities	Aggregate Maximum Bit Rate (AMBR) for EPS, UMTS and 2G networks Requimements for IP Addressing Support and Dual stack PDP context
ARIB STD-T63-22.140	9.0.0		S1	Multimedia Messaging Service (MMS); Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.141	9.0.0		S1	Presence service; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.142	9.1.0		S1	Value Added Services (VAS) for Short Message Service (SMS) requirements	Limiting the maximum number of times the SM is forwarded To prevent auto reply to auto reply loop Independent provisioning of VAS-SMS
ARIB STD-T63-22.146	9.0.0		S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Addition of the support of eMBMS in Rel-9
ARIB STD-T63-22.153	9.2.0		S1	Multimedia priority service	Correction to priority levels and networks Indication of MPS
ARIB STD-T63-22.174	9.0.0		S1	Push service; Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.182	9.2.0		S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Clarification on the interaction with CAT and OIR
ARIB STD-T63-22.183	9.1.0		S1	Customized Ringing Signal (CRS) requirements; Stage 1	CRS media components compatibility

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-22.220	9.3.0		S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Contribution to Chapter 5.4.1 in 22.220 H(e)NB Hosting Party USIM management Removal of requirement for "Managed Remote Access" from Rel-9 Simplified CSG list handling
ARIB STD-T63-22.228	9.2.0		S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	Correction of IUT requirement in Rel-9 Add the feature of completing dialed number to global form
ARIB STD-T63-22.233	9.0.0		S1	Transparent end-to-end packet-switched streaming service; Stage1	Automatic upgrade from previous Release
ARIB STD-T63-22.242	9.0.0		S1	Digital Rights Management (DRM); Stage 1	Automatic upgrade from previous Release
ARIB STD-T63-22.246	9.0.0		S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Updating to also include E-UTRAN for MBMS
ARIB STD-T63-22.259	9.2.0		S1	Service requirements for Personal Network Management (PNM); Stage 1	ME support in Rel-9
ARIB STD-T63-22.268	9.2.1		S1	Public Warning System (PWS) requirements	Re-introduction of the figure in 6.1 which disappeared for some obscure reason
ARIB STD-T63-22.278	9.5.0		S1	Service requirements for the Evolved Packet System (EPS)	One active policy ruleset in ANDSF

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.035	9.0.0		S3	Immediate Service Termination (IST); Stage2	Automatic upgrade from previous Release
ARIB STD-T63-23.038	9.1.1		C1	Alphabets and Language-specific information	Define the use of data coding scheme for the ETWS warning message Uniquely identify the I1 protocol in USSD Correction of a typo error in the change history table (wrong version number)
ARIB STD-T63-23.040	9.1.0		C1	Technical realization of Short Message Service (SMS)	Clarification of reset of UNRI and UNRR
ARIB STD-T63-23.041	9.2.0		C1	Technical Realization of Cell Broadcast Service (CBS)	Message IDs for the U.S. Commercial Mobile Alert System (CMAS) Message Identifiers for PWS CBS activation time for ETWS information Cell wide Geographical Scope (GS) code 00 Updates on references Resolution of editor's note Fixes for typographical errors Clarification on duplicate use of "immediate display" Updating of references to stage 1 document Additional ETWS requirements for the BSC - CBC Cell Broadcast protocol Clarification on ETWS secondary notification Correction of duplicate detection in the UE

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.042	9.0.0		C1	Compression algorithm for SMS	Automatic upgrade from previous Release
ARIB STD-T63-23.053	9.0.0		S4	Tandem Free Operation (TFO); Service description; Stage 2	Automatic upgrade from previous Release
ARIB STD-T63-23.057	9.0.0		S2	Mobile Execution Environment (MexE) Functional description Stage 2	Automatic upgrade from previous Release
ARIB STD-T63-23.107	9.0.0		S2	Quality of Service (QoS) concept and architecture	Automatic upgrade from previous Release
ARIB STD-T63-23.203	9.3.0		S2	Policy and charging control architecture	It is clarified that the AF instruction to report changes of the IP-CAN bearer level information Type of IP-CAN shall also result in a reporting of RAT type changes. Furthermore, statements about the notification about the signalling path status have been generalized to include the notification about other IP-CAN bearer level events as well. The limitation of having BCM over Gx only for 3GPP accesses is removed. Replace the first PCRF with PCEF in the last sentence of clause 6.1.4. - Reference to 23.060 is added as this is where the procedures for 2G/3G access is specified. - A new picture similar to the one in annex A.1 is included with the sole intention to show that it is the PDN-GW that contains the PCEF for 3GPP EPS. - It is clarified that IP-CAN type is 3GPP-EPS - It is clarified that PDN-GW maps QoS according to Appendix E in 23.401 when access to 2G/3G is via Gn/Gp and mobility to E-UTRAN is possible. NOTE: The difference from the Rel-8 version of the CR is that

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					since APN-AMBR is supported over GTPv1 in Rel9 this parameter does not require mapping and thus it is mentioned that the mapping is done only if the parameter is not received over Gn/Gp (i.e. the SGSN is Rel8 or older). The service data flow filter is explicitly allowed to specify data for service data flow detection in both the uplink and downlink directions. REV2: Changed one occurrence of “service data flow filter” to “service data flow template”. REV 3: Included a note to explain when bidirectional filters should be used. Correct clause A.5.3.2.1 to state that the Default Bearer QoS and Subscribed APN-AMBR are provided by the BBERF. Move User CSG Information change triggers from table 6.1 of credit re-authorization triggers and table 6.4 of PCC related IP-CAN bearer and IP-CAN session related policy information to Annex A, GRPS IP-CAN and EPC separately.
ARIB STD-T63-23.204	9.0.0		S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	Automatic upgrade from previous Release
ARIB STD-T63-23.207	9.0.0		S2	End to end quality of service (QoS) concept and architecture	Automatic upgrade from previous Release
ARIB STD-T63-23.228	9.2.0		S2	IP Multimedia Subsystem(IMS); Stage 2	Reference to draft-ietf-mmusic-ice-18 updated to draft-ietf-mmusic-ice-19 (draft still in RC Ed Queue). Reference to draft-ietf-behave-turn-04 updated to draft-ietf-behave-turn-16 (draft still in RC Ed Queue). Reference to draft-ietf-behave-rfc3489bis-04 replaced by RFC 5389. Reference to draft-ietf-sip-outbound-13 replaced by RFC 5626.

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Reference to draft-ietf-sip-gruu-15 replaced by RFC 5627. draft-ietf-sipping-gruu-reg-event-09 replaced by RFC 5628. Various typos and formatting fixed. In 4.3.3.2b it is explicitly stated that wildcarded Public User Identities are registered implicitly, but identities matching the wildcarded public identity set can be defined separately: those distinct Public User Identities can have other service profile than the wildcarded Public User Identity set. Being in the same Implicit Registration Set is not required as in Release 8, it assumes that protocol solution to transfer the subscriber data of the distinct Public User Identity to S-CSCF when the subscriber data of the matching wildcarded Public User Identity is transferred to S-CSCF. If no protocol solution is agreed, then the "same Implicit Registration Set" requirement is necessary to ensure that distinct Public User Identity will not receive the services of the wildcarded Public User Identity. Additional corrections: Missing Public User Identity definition added, Public User Identity capitalized throughout the specification. Extends Cr reference point with session control. The description of the procedures supported on Iq is aligned on CT4 decisions / specifications. A reference to TS 23.334 is added. Adding description that network needs to provide appropriate information to allow the UE binding of resource reservation to media of the SIP session which uses precondition. Adding description that the UE should use QoS assured sessions with care and for MTSI the UE shall only mark resource reservation as required for voice and video. Adding description that the PCRF ensures a dedicated bearer is used for the IMS media. Terminology in the reactive transcoding call flow description is generalized to remove unnecessary restrictions.

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-23.236	9.0.0		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Automatic upgrade from previous Release
ARIB STD-T63-25.A01	9.0.0		R4	The Low Power Repeaters for DS-CDMA	Updated to release 9 based on Version 8.1.0, and introduced new bands (Band XIX, XXI).
ARIB STD-T63-25.101	9.2.0		R4	UE Radio transmission and reception (FDD)	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI), DC-HSUPA, DC-MIMO and MultiBand-DC-HSDPA.
ARIB STD-T63-25.104	9.2.0		R4	Base Station (BS) radio transmission and reception (FDD)	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI), DC-HSUPA, DC-MIMO and MultiBand-DC-HSDPA. Correction of transmitter intermodulation was made.
ARIB STD-T63-25.111	9.0.0		R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	Automatic upgrade from previous Release
ARIB STD-T63-25.113	9.1.0		R4	Base station and Repeater electromagnetic compatibility (EMC)	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI).
ARIB STD-T63-25.133	9.2.0		R4	Requirements for support of radio resource management (FDD)	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI), DC-HSUPA, DC-MIMO and MultiBand-DC-HSDPA.
ARIB STD-T63-25.141	9.2.0		R4	Base Station (BS) conformance testing (FDD)	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI), DC-HSUPA, DC-MIMO and MultiBand-DC-HSDPA. Correction of transmitter intermodulation was made.
ARIB STD-T63-25.144	9.1.0		R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI).

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.171	9.0.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Automatic upgrade from previous Release
ARIB STD-T63-25.201	9.0.0		R1	Physical layer -General Description	Automatic upgrade from the previous release.
ARIB STD-T63-25.211	9.1.0		R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Upgrade from the previous release. Define MIMO mode and phase reference for combination of dual-cell HSDPA with MIMO. Modify the definition of physical channels to introduce dual-cell HSUPA.
ARIB STD-T63-25.212	9.1.0		R1	Multiplexing and channel coding (FDD)	Upgrade from the previous release. Define HS-DPCCH coding for combination of dual-cell HSDPA with MIMO. Introduce TxAA extension for non-MIMO UEs. Define secondary uplink frequency activation and deactivation to introduce dual-cell HSUPA.
ARIB STD-T63-25.213	9.1.0		R1	Spreading and modulation (FDD)	Upgrade from the previous release. Introduce dual-cell HSUPA (modify the maximum number of simultaneously-configured uplink dedicated channels, and add an informative annex of uplink modulation for operation on adjacent frequencies).
ARIB STD-T63-25.214	9.1.0		R1	Physical layer procedures (FDD)	Upgrade from the previous release. Define HS-DPCCH power settings and PCI/CQI reporting procedure for combination of dual-cell HSDPA with MIMO. Introduce TxAA extension for non-MIMO UEs. Introduce dual-cell HSUPA (modify E-DCT related procedures, synchronisation procedures, and power control).

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.215	9.1.0		R1	Physical layer; Measurements (FDD)	Upgrade from the previous release. Introduce dual-cell HSUPA (modify definitions of UE transmitted power and UE transmission power headroom).
ARIB STD-T63-25.301	9.0.0		R2	Radio Interface Protocol Architecture	Automatic upgrade from previous Release
ARIB STD-T63-25.302	9.0.0		R2	Services provided by the physical layer	Introduction of DC-HSUPA, DC-HSDPA+MIMO, and Dual Band HSDPA for FDD
ARIB STD-T63-25.303	9.0.0		R2	Inter-layer Procedures in Connected Mode	Automatic upgrade from previous Release
ARIB STD-T63-25.304	9.0.0		R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarifications on autonomous search function for CSG Stage3 CR for UMTS hybrid cell Idle Mode Mobility Access Stratum support for manual CSG selection across PLMN (CR 25.304 Rel-9) Renaming Allowed CSG List (25.304 Rel-9)
ARIB STD-T63-25.305	9.0.0		R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	Automatic upgrade from previous Release
ARIB STD-T63-25.306	9.1.0		R2	UE Radio Access capabilities	Making features “Absolute priority reselection to GERAN”, “Absolute priority reselection to UTRA inter-frequency” optional (Option1) L2 buffer sizes for DC-MIMO and E-DCH category combinations Email discussion outcome for [67b#17] UMTS: DC-HSUPA in 25.306 RAN1 RAN2 alignment on TxAA Introduction of TS0 capability for 1.28Mcps TDD Support for carrier-specific STTD configuration for DC-HSDPA

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.307	9.1.0		R2	Requirements on UE supporting a release-independent frequency band	Editorial corrections for Introduction of Band XIX Introduction of band XXI
ARIB STD-T63-25.308	9.1.0		R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Missing message in sequence diagram for Inter-Node B serving HS-DSCH cell change with target cell pre-configuration Introduction of Dual Band HSDPA in 25.308 25.308 Stage 2 CR Introduction of DC-HSDPA and MIMO
ARIB STD-T63-25.319	9.2.0		R2	Enhanced uplink; Overall description; Stage 2	Corrections to DC-HSUPA operation Correction on SI sent mechanism for 1.28Mcps TDD_r9 NBAP/RNSAP for deactivation or activation of secondary carrier in non serving Node B Removal of RL Failure Indication at deactivation of secondary carrier
ARIB STD-T63-25.321	9.1.0		R2	MAC protocol specification	Clarification of the transmission power of SI-only MAC-e PDU for 1.28Mcps TDD Clarification on when to include SI in MAC-i PDU Corrections to some figures in MAC specification TSN or SI field presences in case of consecutive BCCH/PCCH re-ordering PDUs Unoptimized usage of the SID, N representation in MAC-hs header Clarification for scheduling information reporting for 1.28Mcps TDD Corrections to MAC-e-hs reset Maximum number of MAC-e-hs reordering SDUs per TTI Editorial correction on E-TFC selection for TDD Clarification on Cell Reselection Indication procedure for 1.28 Mcps TDD Clarification on when to include SI in MAC-i PDU for 1.28Mcps TDD Capturing RAN2 agreement for DC-HSUPA in MAC+F36

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.367	9.2.0		R2	Mobility Procedures for Home Node B; Overall description; Stage 2	CR on Add Hybrid cell into the manual CSG ID selection in 25.367 Draft CR capturing HNB inbound mobility agreements Removal of description related to small repetition of SIB3/4 Renaming Allowed CSG List (25.367 Rel-9) Correction to definition of CSG cell.
ARIB STD-T63-25.401	9.0.0		R3	UTRAN Overall Description	Automatic upgrade from previous Release
ARIB STD-T63-25.402	9.0.0		R3	Synchronisation in UTRAN Stage 2	Automatic upgrade from previous Release
ARIB STD-T63-25.420	9.0.0		R3	UTRAN Iur Interface: General Aspects and Principles	Automatic upgrade from previous Release
ARIB STD-T63-25.421	9.0.0		R3	UTRAN Iur interface Layer 1	Automatic upgrade from previous Release
ARIB STD-T63-25.422	9.0.0		R3	UTRAN Iur interface signalling transport	Automatic upgrade from previous Release
ARIB STD-T63-25.423	9.1.0		R3	UTRAN Iur interface RNSAP signalling	This document specifies the radio network layer signalling procedures of the control plane between RNCs in UTRAN, between RNC in UTRAN and BSS in GERAN Iu mode and between BSSs in GERAN Iu mode From version 9.0.0 the following were introduced. Introduction of UE AMBR concept in UMTS Introduction of TxAA extension for non-MIMO UEs Introduction of Dual-Band HSDPA

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Introduction of MIMO for DC HSDPA Introduction of Cell Portion for 1.28 Mcps TDD Single Stream MIMO for DC-HSDPA Activation and deactivation of secondary carrier in non serving Node B Correction of abnormal conditions for Dual cell HS-DSCH in RL Addition procedure Clarification of the meaning of BIT STRING type IEs for SPS operation for 1.28Mcps TDD MAC-e Reset Indicator for MAC-i Reset Further Corrections for DC-HSDPA Wrong ref in tabular STTD is cell specific in Dual-Cell HSDPA Introduction of Dual Cell E-DCH mode of operation Removal of MAC-ehs format indicator Correction on IE "E-AGCH Table Choice" Introduction of Re9 HSPA Capability into RNSAP
ARIB STD-T63-25.424	9.0.0		R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.425	9.0.0		R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	This document shall provide a description of the UTRAN RNS-RNS (Iur) interface user plane protocols for Common Transport Channel data streams From version 9.0.0, the following was introduced. Introduction of Cell Portion for 1.28 Mcps TDD
ARIB STD-T63-25.426	9.0.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Automatic upgrade from previous Release
ARIB STD-T63-25.427	9.0.0		R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	This document shall provide a description of the UTRAN Iur and Iub interfaces user plane protocols for Dedicated Transport Channel data streams From version 9.0.0, the following was introduced. Introduction of Dual-Cell HSUPA
ARIB STD-T63-25.430	9.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	Automatic upgrade from previous Release
ARIB STD-T63-25.431	9.0.0		R3	UTRAN Iub interface Layer 1	Automatic upgrade from previous Release
ARIB STD-T63-25.432	9.0.0		R3	UTRAN Iub interface signalling transport	Automatic upgrade from previous Release
ARIB STD-T63-25.433	9.1.1		R3	UTRAN Iub interface NBAP signalling	This document specifies the radio network layer signalling protocol called Node B Application Part (NBAP) specification to be used for Control Plane over Iub Interface From version 9.0.0, the following was introduced. Introduction of UE AMBR concept in UMTS

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Introduction of TxAA extension for non-MIMO UEs Introduction of Dual Band-HSDPA Introduction of MIMO for DC HSDPA Introduction of Cell Portion for 1.28 Mcps TDD Single Stream MIMO for DC-HSDPA Activation and deactivation of secondary carrier in non serving Node B Correction to ASN.1 for MiMO Power offset Clarification of DPC mode configuration for common E-DCH Correction of abnormal conditions for Dual cell HS-DSCH in RL Addition procedure Correction on ASN.1 errors in IE Common E-DCH System Information Response LCR for 1.28Mcps TDD Correction on the SPS resource configuration for 1.28Mcps TDD Addition of ans.1 definition for the E-DCH Semi-Persistent Resource Reservation Indicator IE Correction of several IEs' names for 1.28 Mcps TDD Correction of an error in the HS-DSCH Common System Information LCR IE Correction of HARQ Memory Partitioning configuration in Enhanced Cell_FACH Operation for 1.28 Mcps TDD Clarification of Priority Queue ID for Enhanced CELL_FACH for 1.28Mcps TDD

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					The Power configuration method per Cell Portion for 1.28 Mcps TDD Application of MAC-e Reset Indicator for MAC-i Reset Further Corrections for DC-HSDPA Introduction of E-RNTI in RL Information in RL Setup Request Introduction of Dual-Cell HSUPA STTD is cell specific in Dual-Cell HSDPA Removal of MAC-ehs format indicator Correction on IE "E-AGCH Table Choice" Introduction of Re9 HSPA Capability into NBAP Introduction of dormant mode
ARIB STD-T63-25.434	9.0.0		R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Automatic upgrade from previous Release
ARIB STD-T63-25.435	9.0.0		R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	This document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams. From version 9.0.0, the following was introduced. Introduction of Cell Portion for 1.28 Mcps TDD
ARIB STD-T63-25.442	9.0.0		R3	UTRAN Implementation Specific O&M Transport	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.444	9.0.1		R3	Iuh data transport	This document specifies the standards for user data transport protocols between the HNB and HNB-GW/CN.
ARIB STD-T63-25.446	9.0.0		R3	MBMS synchronisation protocol(SYNC)	This document specifies the MBMS Synchronisation Protocol. For the release of this specification it is used on Iu towards UTRAN and M1 towards E-UTRAN From version 9.0.0, the following was introduced. Reusing SYNC for LTE SYNC PDU TYPE2 not applicable for LTE MBMS CR on Mechanism for Consecutive Packet Loss in 25.446
ARIB STD-T63-25.450	9.0.0		R3	UTRAN Iupc interface general aspects and principles	Automatic upgrade from previous Release
ARIB STD-T63-25.451	9.0.0		R3	UTRAN Iupc interface layer1	Automatic upgrade from previous Release
ARIB STD-T63-25.452	9.0.0		R3	UTRAN Iupc interface signalling transport	Automatic upgrade from previous Release
ARIB STD-T63-25.453	9.0.0		R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.467	9.1.0		R3	UTRAN architecture for 3G Home NodeB; Stage 2	This document specifies the UTRAN architecture for 3G Home NodeB (HNB). From version 9.0.0, the following was introduced. Support for paging optimization with CSG membership changes Enhancements to handle HNB to HNB mobility Access Mode and Membership notification for UEs accessing CSG-Hybrid cells Editorial changes: 5.x.2 -> 5.7.2 and adding numbering to Figure 5.7.2-1 CS Mux on Uplink Enhanced Interference Management Mechanisms for HNB Introducing changes for supporting ETWS in Home Node B (Rel9) Add assigned SCTP Port Number for RUA and HNBAP Addition of use of COMMON ID message to convey Hybrid cell membership information. Clean up of 25.467 Mitigating IMSI spoofing in non-CSG UE registration UE registration in case of HNB-GW access control Inbound Mobility to CSG and Hybrid Cells

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-25.468	9.0.0		R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	This document specifies the RANAP User Adaption (RUA) between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). From version 9.0.0, the following was introduced. RUA enhancement to handle inbound Mobility CSG Membership signalling during UE implicit registration
ARIB STD-T63-25.469	9.0.0		R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	This document specifies the Home Node B Application Part (HNBAP) between the Home Node B (HNB) and the Home Node B Gateway (HNB-GW). From version 9.0.0, the following was introduced. CS Mux port exchange Support for multiple access mode HNBs Introducing changes for supporting ETWS in Home Node B in 25.469 Hybrid access signalling during UE and HNB registration
ARIB STD-T63-26.071	9.0.0		S4	AMR speech Codec; General description	Automatic upgrade from previous Release
ARIB STD-T63-26.073	9.0.0		S4	AMR speech Codec; C-source code	Automatic upgrade from previous Release
ARIB STD-T63-26.074	9.0.0		S4	AMR speech Codec; Test sequences	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.077	9.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Automatic upgrade from previous Release
ARIB STD-T63-26.090	9.0.0		S4	AMR speech Codec; Transcoding Functions	Automatic upgrade from previous Release
ARIB STD-T63-26.091	9.0.0		S4	AMR speech Codec; Error concealment of lost frames	Automatic upgrade from previous Release
ARIB STD-T63-26.092	9.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Automatic upgrade from previous Release
ARIB STD-T63-26.093	9.0.0		S4	Mandatory speech codec speech processing functions; AMR speech Codec; Source Controlled Rate operation	Automatic upgrade from previous Release
ARIB STD-T63-26.094	9.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	Automatic upgrade from previous Release
ARIB STD-T63-26.101	9.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	Automatic upgrade from previous Release
ARIB STD-T63-26.102	9.0.0		S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to lu, Uu and Nb	Automatic upgrade from previous Release
ARIB STD-T63-26.103	9.0.0		S4	Speech codec list for GSM and UMTS	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.104	9.0.0		S4	ANSI-C code for the floating-point AMR speech codec	Automatic upgrade from previous Release
ARIB STD-T63-26.110	9.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Description	Automatic upgrade from previous Release
ARIB STD-T63-26.111	9.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Automatic upgrade from previous Release
ARIB STD-T63-26.114	9.1.0		S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Replacement of non-compound RTCP with Reduced-Size RTCP, Adding Support for Explicit Congestion Notification, Managing MTSI Media Adaptation, MTSI DDF for QoE and Variable encoding of video to facilitate quality-recovery techniques.
ARIB STD-T63-26.115	9.0.0		S4	Echo Control for Speech and Multi-media Services	Automatic upgrade from previous Release
ARIB STD-T63-26.131	9.2.0		S4	Terminal acoustic characteristics for telephony; Requirements	Correction of STMR calculation.
ARIB STD-T63-26.132	9.1.0		S4	Speech and video telephony terminal acoustic test specification	Correction of STMR calculation and Handling Acoustic Testing with Noise Suppression Algorithms Employed.
ARIB STD-T63-26.140	9.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	Automatic upgrade from previous Release
ARIB STD-T63-26.141	9.0.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.142	9.0.0		S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Automatic upgrade from previous Release
ARIB STD-T63-26.150	9.0.0		S4	Syndicated Feed Reception (SFR) within 3GPP environments; Protocols and codecs	Automatic upgrade from previous Release
ARIB STD-T63-26.171	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	Automatic upgrade from previous Release
ARIB STD-T63-26.173	9.0.0		S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Automatic upgrade from previous Release
ARIB STD-T63-26.174	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	Automatic upgrade from previous Release
ARIB STD-T63-26.177	9.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	Automatic upgrade from previous Release
ARIB STD-T63-26.190	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	Automatic upgrade from previous Release
ARIB STD-T63-26.191	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	Automatic upgrade from previous Release
ARIB STD-T63-26.192	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.193	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	Automatic upgrade from previous Release
ARIB STD-T63-26.194	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	Automatic upgrade from previous Release
ARIB STD-T63-26.201	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	Automatic upgrade from previous Release
ARIB STD-T63-26.202	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to lu, Uu and Nb	Automatic upgrade from previous Release
ARIB STD-T63-26.204	9.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Automatic upgrade from previous Release
ARIB STD-T63-26.226	9.0.0		S4	Cellular Text telephone Modem General Description	Automatic upgrade from previous Release
ARIB STD-T63-26.230	9.0.0		S4	Cellular Text Telephone Modem transmitter Bit Exact C-code	Automatic upgrade from previous Release
ARIB STD-T63-26.231	9.0.0		S4	Cellular Text telephone Modem; Minimum performance requirements	Automatic upgrade from previous Release
ARIB STD-T63-26.233	9.0.0		S4	End-to-end transparent streaming service; General description	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.234	9.1.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Adaptive HTTP Streaming in PSS, Adaptive HTTP Streaming in PSS, PSS QoE reporting during buffering periods, Video profile and level updates and Update of Digital Rights Management Extensions for PSS.
ARIB STD-T63-26.235	9.0.0		S4	Packet switched conversational multimedia application; Default codecs	Automatic upgrade from previous Release
ARIB STD-T63-26.236	9.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	Automatic upgrade from previous Release
ARIB STD-T63-26.237	9.1.0		S4	IMS based PSS and MBMS User Service; Protocols	IMS based MBMS download service, Inter UE Transfer, Clarification on IMS based PSS streaming, SIP Info for content switching, Session set-up for IMS based download unicast service, Architecture for IMS based download unicast service and XML schema and syntax for nBookmark service.
ARIB STD-T63-26.243	9.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	Automatic upgrade from previous Release
ARIB STD-T63-26.244	9.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	New Profile to support Adaptive HTTP-based Streaming in 3GP File Format and File format video and branding updates.
ARIB STD-T63-26.245	9.0.0		S4	Transparent end-to-end Packet witched Streaming Service (PSS); Timed text format	Automatic upgrade from previous Release
ARIB STD-T63-26.246	9.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.267	9.0.0		S4	AeCall data transfer; In-band modem solution; General description	Automatic upgrade from previous Release
ARIB STD-T63-26.268	9.0.0		S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Automatic upgrade from previous Release
ARIB STD-T63-26.269	9.0.0		S4	eCall data transfer; In-band modem solution; Conformance testing	Automatic upgrade from previous Release
ARIB STD-T63-26.273	9.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Automatic upgrade from previous Release
ARIB STD-T63-26.274	9.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Automatic upgrade from previous Release
ARIB STD-T63-26.290	9.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Correction of references.
ARIB STD-T63-26.304	9.0.0		S4	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	Automatic upgrade from previous Release
ARIB STD-T63-26.346	9.1.0		S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correction of unreadable picture, MBMS DDF for QoE, MBMS QoE reporting during buffering periods and Video profile and level updates.
ARIB STD-T63-26.401	9.0.0		S4	General audio codec audio processing functions; Enhanced AAC-Plus general audio codec; General description	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.402	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Automatic upgrade from previous Release
ARIB STD-T63-26.403	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	Automatic upgrade from previous Release
ARIB STD-T63-26.404	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	Automatic upgrade from previous Release
ARIB STD-T63-26.405	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Automatic upgrade from previous Release
ARIB STD-T63-26.406	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Automatic upgrade from previous Release
ARIB STD-T63-26.410	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Automatic upgrade from previous Release
ARIB STD-T63-26.411	9.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Automatic upgrade from previous Release
ARIB STD-T63-26.412	9.0.0		S4	General audio codec audio processing functions; Source code for 3GP file format	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-26.430	1.0.0		S4	Timed graphics	Presented to TSG SA#46 for information.
ARIB STD-T63-27.005	9.0.0		C1	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Automatic upgrade from previous Release
ARIB STD-T63-27.007	9.2.0		C1	AT command set for 3G User Equipment (UE)	AT command for CNAP (Calling Name Presentation) AT command for COLR (Connected Line Identification Restriction Status) Corrections of AT-command for originated location request Origin for assist_data is correcte “non-GPS” enhancements of AT-command for originated location request Corrections to UCS2 coding of +CUSD New AT-commands for mobile terminated location request and disclosure Correct alignment of notes for +CEREG Addition of intermediate result code for +CPBW New AT-commands for administration of battery Corrections to +CEMODE Correction of direction of data for +CPOS Correction of usage of underscore (default values) for 27.007 Correction of outstanding Editor's note on +WS46

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-27.010	9.0.0		C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Automatic upgrade from previous Release
ARIB STD-T63-28.062	9.0.0		S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Automatic upgrade from previous Release
ARIB STD-T63-31.101	9.0.0		C6	UICC-Terminal Interface; Physical and Logical Characteristics	Automatic upgrade from previous Release
ARIB STD-T63-31.102	9.1.0		C6	Characteristics of the USIM Application	• Introduction of operator controlled CSG list for H(e)NB • Correction to application session termination • Correction of incorrect tag value • Correction of Allowed CSG list • Editorial correction on tables in NAF Key Centre tag and NAF Key Centre information
ARIB STD-T63-31.103	9.0.0		C6	Characteristics of the ISIM Application	• Correction to application session termination
ARIB STD-T63-31.111	9.0.0		C6	USIM Application Toolkit (USAT)	- Discovery of surrounding CSG cells • CSG cell selection event
ARIB STD-T63-31.115	9.0.0		C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• secured message structure for HTTP

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.116	9.0.0		C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	• Remote APDU over HTTP
ARIB STD-T63-31.120	9.0.0		C6	UICC-terminal interface; Physical, electrical and logical test specification	Automatic upgrade from previous Release
ARIB STD-T63-31.121	9.0.0		C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Automatic upgrade from previous Release
ARIB STD-T63-31.122	9.0.0		C6	USIM conformance test specification	Automatic upgrade from previous Release
ARIB STD-T63-31.124	9.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Automatic upgrade from previous Release
ARIB STD-T63-31.130	9.0.0		C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Automatic upgrade from previous Release
ARIB STD-T63-31.131	9.0.0		C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	Automatic upgrade from previous Release
ARIB STD-T63-31.133	9.0.0		C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	Automatic upgrade from previous Release
ARIB STD-T63-31.213	9.0.0		C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-31.220	9.0.0		C6	Characteristics of the Contact Manager for 3GPP UICC applications	Automatic upgrade from previous Release
ARIB STD-T63-31.221	9.0.0		C6	Contact Manager for 3GPP UICC applications - internal interface aspects	Automatic upgrade from previous Release
ARIB STD-T63-33.102	9.1.0		S3	3G security; Security architecture	Mandating integrity protection of reject messages that cause CSG list to be modified Replacing KDF definition with a reference
ARIB STD-T63-33.105	9.0.0		S3	Cryptographic algorithm requirements	Automatic upgrade from previous Release
ARIB STD-T63-33.106	9.0.0		S3	Lawful interception requirements	Automatic upgrade from previous Release
ARIB STD-T63-33.107	9.0.0		S3	3G security; Lawful interception architecture and functions	Automatic upgrade from previous Release
ARIB STD-T63-33.108	9.1.0		S3	3G security; Handover interface for Lawful Interception (LI)	Correction of misalignments for values of "initiator" parameter for EPS Missing TAU Failure Reason parameter mapping for MME interception Correction on LI correlation for S4-SGSN
ARIB STD-T63-33.110	9.0.0		S3	Key establishment between a UICC and a terminal	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.141	9.0.0		S3	Presence service; Security	Automatic upgrade from previous Release
ARIB STD-T63-33.203	9.3.0		S3	3G security; Access security for IP-based services	Removing editor's notes in Annex P Removal of editor's note on draft-ietf-sip-outbound Correction of erroneous interface name X.509 certificate profile alignment
ARIB STD-T63-33.210	9.0.0		S3	3G security; Network Domain Security (NDS); IP network layer security	Automatic upgrade from previous Release
ARIB STD-T63-33.220	9.2.0		S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	KDF clarification Ua security protocol identifier for IMS media plane security
ARIB STD-T63-33.221	9.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Automatic upgrade from previous Release
ARIB STD-T63-33.222	9.0.0		S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Automatic upgrade from previous Release
ARIB STD-T63-33.223	9.0.0		S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Registration of GPL capabilities
ARIB STD-T63-33.234	9.0.0		S3	3G security; Wireless Local Area Network (WLAN) interworking security	Addition of cipher suite for interworking WLAN

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-33.246	9.0.0		S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Impacts of EPS to MBMS security
ARIB STD-T63-33.259	9.0.0		S3	Key establishment between a UICC hosting device and a remote device	Automatic upgrade from previous Release
ARIB STD-T63-33.310	9.1.0		S3	Network domain security; Authentication framework (NDS/AF)	Some corrections for TS 33.310
ARIB STD-T63-33.320	9.0.0		S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Publication of SA approved version
ARIB STD-T63-33.328	9.0.0		S3	IP Multimedia Subsystem (IMS) media plane security	Issue of approved version
ARIB STD-T63-33.401	9.2.0		S3	3GPP System Architecture Evolution (SAE); Security architecture	selected algorithms forwarding to the target eNB in intra LTE handover Clarification of Current security context Security interworking between E-UTRAN and GERAN in 128-bit encryption Correction of protection of the NAS security mode reject message (Rel-9) EPS NAS security context storage Clarification of confidentiality protection in EC Authentication failure during emergency call Correction of ECM states Clarifications to context handling in idle mode procedures

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Clarifications to context handling in IRAT handover Correction to store security context to ME Corrections to state transition Clarification for algorithm selection during IRAT handover to EUTRAN Corrections for 33.401 Concurrency of inter-MME handovers and NAS downlink messages (Rel-9) Partial native EPS security context NAS COUNT value Clarification of NAS integrity protection activation Nas-token and key calculation at idle mobility from E-UTRAN to UTRAN/GERAN (Rel-9) Clarifying the calculation of KeNB when there is more than one NAS SMC (Rel-9) Behaviour for lost NAS SMC message when creating mapped context (Rel-9) Clarification of Authentication Data and transition to EMM-DEREGISTERED and Correction of text on authentication data transfer NCC Initialization in eNB at the Initial Connection Setup key replacement clarification Replacing KDF definition with a reference Correction of interworking between GERAN and E-UTRAN Correcting A.11

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Not resetting STARTPS to 0 in HO from EUTRAN to UTRAN and not resetting STARTCS to 0 in SRVCC (Rel-9). Security considerations for emergency sessions in SRVCC Delete the CK keys in the MSC server enhanced for SRVCC in case there is desynchronization of CS keys between the UE and the network in SRVCC NAS COUNT handling during IRAT handover Concurrency of inter-RAT handovers and NAS SMC procedure (Rel-9) Using P-TMSI signature when attaching to SGSN using a GUTI (Rel-9) Key-Chaining issue in I-RAT handover to UTRAN
ARIB STD-T63-33.402	9.2.0		S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction of CMIPv4 Key derivation and SPI calculation for WiMAX interworking Replacing KDF definition with a reference Deletion of erroneous notes relating to fast re-authentication
ARIB STD-T63-34.109	9.0.0		R2	Terminal logical test interface; Special conformance testing functions	Automatic upgrade from previous Release
ARIB STD-T63-34.124	9.1.0		R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Updated to Release 9 from previous Release and introduced new bands (Band XIX, XXI).
ARIB STD-T63-34.131	9.0.0		C6	Test specification for C-language binding for (U)SIM API	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-35.201	9.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Automatic upgrade from previous Release
ARIB STD-T63-35.202	9.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	Automatic upgrade from previous Release
ARIB STD-T63-35.203	9.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementers' test data	Automatic upgrade from previous Release
ARIB STD-T63-35.204	9.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Automatic upgrade from previous Release
ARIB STD-T63-35.215	9.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	Automatic upgrade from previous Release
ARIB STD-T63-35.216	9.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	Automatic upgrade from previous Release
ARIB STD-T63-35.217	9.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementers' test data	Automatic upgrade from previous Release
ARIB STD-T63-35.218	9.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Automatic upgrade from previous Release
ARIB STD-T63-36.101	9.2.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21) and MBMS feature.

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.104	9.2.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21) and Home eNB/Pico eNB feature. Correction of transmitter intermodulation was made.
ARIB STD-T63-36.113	9.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater Electro Magnetic Compatibility (EMC)	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21).
ARIB STD-T63-36.124	9.1.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21).
ARIB STD-T63-36.133	9.2.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21), new test cases for “Combined E-UTRAN interfrequency and GSM cell search”, “Measurement Accuracy of GSM RSSI, UTRAN FDD CPICH RSCP, FDD CPICH Ec/No and TDD P-CCPCH RSCP”. Modifications of test case of E-UTRA TDD intra-/ inter-frequency cell reselection were made.
ARIB STD-T63-36.141	9.2.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Updated to Release 9 from previous Release and introduced new bands (Band 18, 19, 20 and 21) and Home eNB/Pico eNB feature. Correction of transmitter intermodulation was made.
ARIB STD-T63-36.201	9.0.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE physical layer; General description	Automatic upgrade from the previous release (with editorial corrections).

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.211	9.0.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Upgrade from the previous release. Introduce positioning reference signals and define the PDSCH mapping in connection with positioning reference signals. Introduce precoding and reference signals for enhanced dual layer transmission.
ARIB STD-T63-36.212	9.0.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Upgrade from the previous release. Introduce additional feedback options and DCI format 2B to support enhanced dual layer transmission.
ARIB STD-T63-36.213	9.0.1		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Upgrade from the previous release. Introduce power control aspects of positioning reference signals, and interaction between positioning reference signals and system information and paging. Introduce additional feedback options and DCI format 2B to support enhanced dual layer transmission. Introduce Physical multicast channel related procedures. Add shorter scheduling request periodicity.
ARIB STD-T63-36.214	9.0.0		R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Upgrade from the previous release. Introduce new measurements to support LTE positioning.

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.300	9.2.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CR on the usage of Transparent Mode MAC Capturing HeNB inbound mobility agreements ETWS correction to 36.300 Inclusion of INTER RAT HANDOVER INFO at HO from UTRAN to GERAN MBMS Agreements Measurement Overview High level feature description of CMAS RACH optimization in 36.300 Correction on the precondition for cell reselection to HRPD Miscellaneous corrections to 36.300 (Rel-9) Renaming Allowed CSG List (36.300, Rel-9) The scope and method for HO negotiations Access control for handover procedures to LTE CSG/hybrid cells Admission Control in MCE Clarification on SFN Synchronization BMSC-MCE signaling synchronization in session start message CR on multiplexing decision and DSP length M3AP stage 2 M2AP stage 2 CR for Transportation support for LPPa Introduction of MBMS for LTE: C- and U-Plane synchronisation principles CR on Mechanism for Consecutive Packet Loss in 36.300 Overload reduction The scope and method for HO negotiations Introduction of MRO procedures in stage 2 MCE to MME session start response In order delivery of the multiple NAS PDUs
ARIB STD-T63-36.302	9.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	Addition of MBMS reception types Remove FFSS from RAN2 specifications Proposed CR to 36.302 on Introduction of CMAS

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.304	9.1.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification on Parameters for Cell Selection Clarifications on autonomous search function for CSG Correction of Treselection inconsistency regarding frequency groups CR to 36.304 - Handling of barring in case of priority based reselection Functions supported for the UE "limited service state" UE's behaviour when camping on cell supporting emergency call Stage3 CR for LTE hybrid cell Idle Mode Mobility Correction related to Location Registration in manual CSG ID selection procedure. Access Stratum support for manual CSG selection across PLMN (CR 36.304 Rel-9) Renaming Allowed CSG List (36.304 Rel-9) Proposed CR to 36.304 on Introduction of MBMS
ARIB STD-T63-36.305	9.1.0		R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Removal of UE-based OTDOA and ECID from LPP stage 2 Removal of capability storage at MME Transfer of LPPa PDU over S1
ARIB STD-T63-36.306	9.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Automatic upgrade from previous Release
ARIB STD-T63-36.314	9.0.0		R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	Automatic upgrade from previous Release
ARIB STD-T63-36.321	9.1.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Capturing MBMS agreements in MAC Clarification on BSR trigger Correction on HARQ Process ID for DL SPS and DRX RNTI for CCCH SR prohibit mechanism for UL SPS Clarification on monitoring of PDCCH Introduction of SR prohibit timer

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.322	9.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Capturing MBMS agreements in RLC
ARIB STD-T63-36.323	9.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification	Automatic upgrade from previous Release
ARIB STD-T63-36.331	9.1.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	(Rel-9)-clarification on the description of redirectedCarrierInfo Adding references to RRC processing delay for inter-RAT mobility messages Alignment of srs-Bandwidth with 36.211 Baseline CR capturing eMBMS agreements Capturing agreements on inbound mobility Clarification of preRegistrationZoneID/secondaryPreRegistrationZoneID Clarification on NCC for IRAT HO Clarification on P-max Clarification on the definition of maxCellMeas Correction of q-RxLevMin reference in SIB7 Correction on SPS-Config field descriptions correction on the definition of CellsTriggeredList Correction relating to CMAS UE capability Feature grouping bit for SRVCC handover Correction and completion of extension guidelines RACH optimization Stage-3 Stage 3 correction for CMAS SR prohibit mechanism for UL SPS Parameters used for enhanced 1xRTT CS fallback Correction on UTRAN UE Capability transfer Maximum number of CDMA2000 neighbors in SIB8 Introduction of UE Rx-Tx Time Difference measurement Introduction of SR prohibit timer Remove FFSS from RAN2 specifications Renaming Allowed CSG List (36.331 Rel-9) Re-introduction of message segment discard time Application of ASN.1 extension guidelines

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Support for Dual Radio 1xCSFB Shorter SR periodicity CR to 36.331 for Introduction of Dual Layer Transmission Draft CR to 36.331 on Network ordered SI reporting UE e1xcfb capabilities correction Clarification on coding of ETWS related IEs
ARIB STD-T63-36.355	9.0.0		R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	RAN #46 approval of TS 36.355
ARIB STD-T63-36.401	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Automatic upgrade from previous Release
ARIB STD-T63-36.410	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Transportation support for LPPa
ARIB STD-T63-36.411	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	Automatic upgrade from previous Release
ARIB STD-T63-36.412	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Automatic upgrade from previous Release
ARIB STD-T63-36.413	9.1.0		R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Rel-9 version is created based on v.8.7.0 Adding the RTD information in UPLINK CDMA2000 TUNNELING Handling of Emergency Calls in Limited Service Mode Emergency Calls Mobility Handling S1AP Kill procedure for cancellation of PWS warning messages S1AP Write-Replace Warning procedure for PWS/CMAS

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
					Support for paging optimization with CSG membership changes Inclusion of Access Mode and Subscription Status for UE prioritisation in LTE hybrid cells Handling of Multiple concurrent CMAS Warning Notifications CR for Transportation support for LPPa Introducing the "Data Forwarding Not Possible" indication to HANDOVER REQUEST ASN.1 correction for BroadcastCompleteAreaList Correction on abnormal handling of Subscriber Profile ID for RAT/Frequency priority IE Align IE's in Tabular for two messages with their ASN.1 for R9 Rejection Criteria for Overload Introduction of inbound LTE mobility Repetition Period for CMAS Correction of E-RAB Modify Clarification on handover restriction Correction of Transport Layer Address Missing reference and unclear handling of the CDMA2000 Sector ID
ARIB STD-T63-36.414	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Automatic upgrade from previous Release
ARIB STD-T63-36.420	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	Automatic upgrade from previous Release

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.421	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	Automatic upgrade from previous Release
ARIB STD-T63-36.422	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Automatic upgrade from previous Release
ARIB STD-T63-36.423	9.1.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Rel-9 version is created based on v.8.7.0 Handling of Emergency Calls in Limited Service Mode Emergency Calls Mobility Handling Introduction of signalling support for Composite Available Capacity with relative units Configuration adaptation for MLB on X2 Clarification on operational use of updated configuration data Automatic PRACH information exchange over X2 for SON Introduction of Radio Link Failure Indication procedure Introduction of Handover Report procedure Introduction of signalling support for Composite Available Capacity with relative units
ARIB STD-T63-36.424	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	Automatic upgrade from previous Release
ARIB STD-T63-36.440	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); General aspects and principles for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Approved at RAN#46

Added Standard Number	Version at ARIB STD-T12 Ver.8.00		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.441	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 1 for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Approved at RAN#46
ARIB STD-T63-36.442	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Signalling Transport for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Approved at RAN#46
ARIB STD-T63-36.443	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M2 Application Protocol (M2AP)	Approved at RAN#46
ARIB STD-T63-36.444	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	Approved at RAN#46
ARIB STD-T63-36.445	9.0.0		R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	Approved at RAN#46
ARIB STD-T63-36.455	9.0.0		R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Approved at RAN#46

7.2. Revised Standards

None

(Annex 39)

3GPP ARIB Change history List of Standards Ver. 8.10

15 July 2010

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-27.007	3.14.0	3.13.0	C1	AT command set for User Equipment (UE)	Removal of [,<pd1>[,...[,pdN]]] in +CGDCONT

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	4.16.0	4.15.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-27.007	4.7.0	4.6.0	C1	AT command set for User Equipment (UE)	Removal of [,<pd1>[,...[,pdN]]] in +CGDCONT

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	5.15.0	5.14.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-27.007	5.7.0	5.6.0	C1	AT command set for User Equipment (UE)	Illogical response in +CGDSCONT test command (REL 5)

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	6.12.0	6.11.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-27.007	6.10.0	6.9.0	C1	AT command set for User Equipment (UE)	Removal of [,<pd1>[,...[,<pdN>]]] in +CGDCONT

5. Release 7

5.1. Added Standards

None

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	7.17.0	7.16.0	R4	UE Radio transmission and reception (TDD)	Corrections on “ Maximum output power with multi-code”, “Demodulation of DCH in moving conditions for TDD” and “ Demodulation of DCH in birth-death conditions for TDD” are made.
ARIB STD-T63-25.105	7.14.0	7.13.0	R4	Base Station (BS) radio transmission and reception (TDD)	Correction of “E-DCH FRC3 for LCR TDD” is made.
ARIB STD-T63-25.123	7.11.0	7.10.0	R4	Requirements for support of radio resource management (TDD)	Corrections on “Addition of requirement Serving HS-DSCH cell change for 1,28 Mcps TDD”, “Addition of requirement 5ms TTI E-DCH E-TFC restriction for 1,28 Mcps TDD”, “Addition of requirement Random Access for 1,28 Mcps TDD”, “Cell re-selection to inter-band TDD cell”, “Addition of requirement UTRAN to GSM Cell Re-Selection: HCS with only UTRA level changed for 1,28 Mcps TDD”, “TDD/TDD Handovers for 1,28 Mcps”, “Addition of requirement Cell Re-selection in CELL_FACH: Cell Reselection to GSM for 1,28 Mcps TDD”, “1.28Mcps TDD P-CCPCH RSCP measurement test case” are made.
ARIB STD-T63-25.142	7.14.0	7.13.0	R4	Base station (BS) conformance testing (TDD)	Correction of E-DCH FRC3 for LCR TDD is made.
ARIB STD-T63-25.214	7.15.0	7.14.0	R1	Physical layer procedures (FDD)	Introduce a restriction to MIMO UEs in which the PCI reports can only indicate a subset of precoding vectors.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	7.8.0	7.7.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-25.321	7.16.0	7.15.0	R2	MAC protocol specification	Correction to MAC-ehs reset at Treset expiry
ARIB STD-T63-25.423	7.16.0	7.15.0	R3	UTRAN Iur interface RNSAP signalling	Indication of Precoding Weight Set Restriction preference
ARIB STD-T63-25.433	7.16.0	7.15.1	R3	UTRAN Iub interface NBAP signalling	Indication of Precoding Weight Set Restriction preference
ARIB STD-T63-26.114	7.11.0	7.10.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Alignment of AVP/AVPF support with MTSI deployments and H324M interworking procedures in decomposed MGCF and IM-MGW are added.
ARIB STD-T63-27.007	7.6.0	7.5.0	C1	AT command set for 3G User Equipment (UE)	Removal of [,<pd1>[,...[,<pdN>]]] in +CGDCONT
ARIB STD-T63-31.213	7.2.0	7.1.0	C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	Addition of Rel-7 tests References update and cleanup

6. Release 8

6.1. Added Standards

Added Standard Number	Version at ARIB STD-T12 Ver.8.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.307	8.0.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	The document specifies requirements on UEs supporting a frequency band that is independent of release. Some extra requirement required to a UE that confirms to the present release but also supports a band of operation specified in a later release are captured in this specification.

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-21.201	8.3.0	8.2.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Update list of specs
ARIB STD-T63-21.202	8.3.0	8.2.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Update list of specs
ARIB STD-T63-23.203	8.9.0	8.8.0	S2	Policy and charging control architecture	A note is added that in this Release the PCEF uses all SDF filters for the generation of traffic mapping information. The default IP-CAN bearer will always be established without traffic mapping information. If the PCEF receives PCC rules for the default IP-CAN bearer with SDF filters other than a match all filter, the PCEF is required to add the traffic mapping information to the default IP-CAN bearer subsequently.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.204	8.5.0	8.4.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	IMDN references updated.
ARIB STD-T63-23.228	8.12.0	8.11.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Clarifies that the MSC server enhanced for ICS/SRVCC can be connected via the IBCF.
ARIB STD-T63-25.101	8.10.0	8.9.0	R4	UE Radio transmission and reception (FDD)	Correction of H-Set 11 requirement for type 3 and type 3i receivers is made
ARIB STD-T63-25.104	8.10.0	8.9.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corrections on "Time alignment error requirements" and "Extended UMTS1500" are made.
ARIB STD-T63-25.133	8.10.0	8.9.0	R4	Requirements for support of radio resource management (FDD)	Corrections on "Cell search requirement for UTRA to E-UTRA HO to unknown target cell", "Cell Reselection Requirements", "Cell Reselection Requirements" and "RRM parameters for Bands XII, XIII, XIV" are made.
ARIB STD-T63-25.141	8.10.0	8.9.0	R4	Base Station (BS) conformance testing (FDD)	Corrections on "Home BS Output Power Conformance Testing", "Removal of testing for receiver diversity port" and "Time alignment error requirements" are made.
ARIB STD-T63-25.214	8.9.0	8.8.0	R1	Physical layer procedures (FDD)	Introduce a restriction to MIMO UEs in which the PCI reports can only indicate a subset of precoding vectors. Correct HS-DSCH and HS-SCCH reception in the URA_PCH and CELL_PCH states. Clarify when the HS-DPCCH coding scheme change takes place.
ARIB STD-T63-25.301	8.6.0	8.5.0	R2	Radio Interface Protocol Architecture	Correction of Protocol termination points for E-DCH for CCCH(R8)
ARIB STD-T63-25.302	8.6.0	8.5.0	R2	Services provided by the physical layer	Corrections to FDD DL physical channel combinations
ARIB STD-T63-25.304	8.9.0	8.8.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Reception of ETWS notification in limited service state Alternative clarification to priority based mobility Correction to Access Class handling for 'not barred' cells Handling MBSFN cluster selection in the case of 'reserved' cell status

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.307	8.6.0	8.5.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-25.308	8.8.0	8.7.0	R2	UTRA High Speed Downlink Packet Access (HSDPA); Overall	Correction of DRX definition for LCR TDD Corrections to stage 2 of DC-HSDPA Removal of FFSs about the support of E-FACH for 1.28Mcps TDD Correction to the enhanced serving cell change
ARIB STD-T63-25.319	8.9.0	8.8.0	R2	Enhanced uplink; Overall description; Stage 2	Error Detection instead of error correction in Enhanced Uplink in CELL_FACH Clarification on CRC Attachment for CCCH transmission in enhanced CELL_FACH state for 1.28 Mcps TDD
ARIB STD-T63-25.321	8.9.0	8.8.0	R2	MAC protocol specification	Clarification on Scheduling Information reporting for 1.28 Mcps TDD Correction of HS-SCCH Type 3 usage with MAC-ehs for LCR TDD Error Detection instead of error correction in Enhanced Uplink in CELL_FACH Correction to MAC-ehs reset at Treset expiry Start of timer for contention resolution Clarification on CRC Attachment for CCCH transmission in enhanced CELL_FACH state for 1.28 Mcps TDD Correction to HARQ procedure for HS-DSCH SPS operation for 1.28 Mcps TDD Modification on TB size for 1.28 Mcps TDD Correction to handling of equal priority flows in E-TFC selection
ARIB STD-T63-25.423	8.8.0	8.7.0	R3	UTRAN Iur interface RNSAP signalling	Addition of HS-DSCH physical layer category over Iur Allow reconfiguration of some IEs in RL Addition procedure Correction of DC-HSDPA Capability Report in Iur E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation Combining E-DCH Radio Links within the RLS

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Correction to state transition of Enhanced CELL_FACH UE for LCR TDD Synchronization detection window configuration in CPC for 1.28 Mcps TDD Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change Indication of Precoding Weight Set Restriction preference
ARIB STD-T63-25.425	8.5.0	8.4.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Clarification of eDRX Indication for 1.28Mcp TDD
ARIB STD-T63-25.433	8.8.0	8.7.1	R3	UTRAN Iub interface NBAP signalling	Allow reconfiguration of some IEs in RL Addition procedure Correction of E-DCH RACH Report E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH Clarification of HS-DSCH Paging System Information LCR Addition of power control and synchronization control configurations for enhanced CELL_FACH for 1.28Mcps TDD Correction of description for RSI procedure for 1.28Mcps TDD Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation Correction of the presence of Sixtyfour QAM DL and MIMO Combined Capability IE A missing IE in ASN.1 for 1.28 Mcps TDD Correction on the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE for 1.28Mcps TDD Corrections to the number of Non-HS-SCCH Associated HS-SICH for 1.28Mcps TDD Clarification of HS-SCCH TPC step size configuration Synchronization detection window configuration in CPC for 1.28 Mcps TDD Addition of Physical Channel ID in the common E-RNTI configuration for 1.28 Mcps TDD Addition of F-DPCH TX Power info in Common E-DCH System Information

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Removal of procedural text for DPC Mode IE in Common E-DCH System Information Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change Indication of Precoding Weight Set Restriction preference Correction of common E-DCH mac-d flow for CCCH transmission
ARIB STD-T63-25.435	8.5.0	8.4.0	R3	UTRAN Iuh interface user plane protocols for Common Transport Channel data streams	Clarification DCCH/DTCH transmission mechanism in enhanced CELL-PCH state Correction of the value range for RACH Measurement Result IE for 1.28Mcps TDD
ARIB STD-T63-25.446	8.2.0	8.1.0	R3	MBMS synchronisation protocol(SYNC)	Corrections on Packet Number
ARIB STD-T63-25.467	8.5.0	8.4.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Corrections on the non-CSG UEs registration and Iuh Disconnect Procedure
ARIB STD T63-25.468	8.2.0	8.1.0	R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Minor corrections for RUA
ARIB STD T63-25.469	8.5.0	8.4.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Minor corrections for HNBAP
ARIB STD-T63-26.102	8.4.0	8.3.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Corrections and clarifications of Nb frames are done.
ARIB STD-T63-26.114	8.5.0	8.4.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Alignment of AVP/AVPF support with MTSI deployments and H324M interworking procedures in decomposed MGCF and IM-MGW are carried out.
ARIB STD-T63-27.007	8.11.0	8.10.0	C1	AT command set for 3G User Equipment (UE)	Removal of [, <pd1>[,...[,pdN]]] in +CGDCONT Incorrect indication of AT commands as parameter commands Incorrect name for test command version of +CGTFTTRDP

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Correction of the packet domain event reporting +CGEV
ARIB STD-T63-31.121	8.4.0	8.3.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Rel-8 content replacement by reference to TS 31.121
ARIB STD-T63-31.124	8.5.0	8.4.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Rel-8 content replacement by reference to TS 31.124, Rel-9
ARIB STD-T63-31.213	8.1.0	8.0.0	C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	References update and cleanup Addition of Rel-7 tests
ARIB STD-T63-31.220	8.2.0	8.1.0	C6	Characteristics of the Contact Manager for 3GPP UICC applications	Correction of wrong reference pointer and clarification
ARIB STD-T63-33.102	8.6.0	8.5.0	S3	3G security; Security architecture	Correct Kc to Kc' when derived from CK'CS IK'CS Correction of IRAT mobility before UMTS AKA is run
ARIB STD-T63-33.108	8.10.0	8.9.0	S3	3G security; Handover interface for Lawful Interception (LI)	EPSLocation ULI length correction Correction on RAI coding inside "old user location information" parameter
ARIB STD-T63-33.223	8.6.0	8.5.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Correction of incorrect requirement for mandatory support of GBA Push for GBA aware MEs Correction of private identity exposure and delivery of GPI to USIM/ISIM
ARIB STD-T63-33.401	8.7.0	8.6.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Clarification of Identification procedure in MME Handling of EPS NAS security context in state transitions GPRS Kc handling Desynchronization of PS keys between the UE and the network in case of PS HO failure (Rel-8) Not resetting START to 0 in idle mode mobility (Rel-8). Correction of SRVCC failure

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-34.108	8.10.0	8.9.0	R5	Common test environments for User Equipment (UE); Conformance testing	Additions/Updates related to TDD, Enhanced CELL FACH,..etc. and some corrections.
ARIB STD-T63-34.121-1	8.10.0	8.9.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	Additions/Updates for E-UTRA HO/cell search, DC-HSDPA, ..etc.. and some corrections.
ARIB STD-T63-34.121-2	8.10.0	8.9.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Introduction of enhanced serving HS-DSCH cell change test case into TS 34.121-2(RP-100159) - Title change for test case in TC 8.3.5.4 in TS 34.121-2(RP-100139) - Updates to test applicability section of 34.121-2 related to DC-HSDPA type3i requirement (RP-100149) - CR to 34.121-2: Update baseline implementation capabilities with extended UMTS1500 operating bands (RP-100154) - Applicability corrections and additions for HSDPA test cases (RP-100140)
ARIB STD-T63-34.123-1	8.10.0	8.9.0	R5	UE conformance specification; Part 1: Protocol conformance specification	Additions for WLAN interworking, Enhanced CELL FACH, TDD, ..etc. and many corrections.
ARIB STD-T63-34.123-2	8.10.0	8.9.0	R5	UE conformance specification; Part 2: ICS proforma specification	Changes related to 34.123-1 change.
ARIB STD-T62-34.123-3	8.5.0	8.4.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Many LCR TDD test cases are added. And other corrections.
ARIB STD-T63-34.229-1	8.5.0	8.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Add references for SMS over IP (RP-100155) - Update message REGISTER for SMS (RP-100155) - Update test case 8.1 for SMS (RP-100155)

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					- Add new test case 18.2 for SMS (RP-100155) - Add default messages for SMS (RP-100155) - Addition of new SMS over IMS test case 18.1(RP-100155)
ARIB STD-T63-34.229-2	8.5.0	8.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Addition of applicability for new SMS over IMS test case (RP-100155) - Add capability for SMS over IP (RP-100155) - Add applicability for SMS test cases (RP-100155)
ARIB STD-T63-34.229-3	8.3.0	8.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- CR to 34.229-3 (prose) update to v830 (RP-100146) - Correction of IMS test model for XCAP-based SS test (RP-100155) - Add bearer information for E-UTRA (RP-100140)
ARIB STD-T63-36.101	8.9.0	8.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corrections on “UTRA ACLR measurement bandwidths for 1.4 and 3 MHz”, “Band 8 Coexistence Requirement Table Correction”, “Requirements for Band 14”, “Band 1- PHS coexistence”, “Fading CQI requirements for FDD mode”, “RI test”, “Reporting mode, Reporting Interval and corrections for demodulation requirements”, “1PRB PDSCH performance test in presence of MBSFN.”, “Descriptions of OCNG”, “OCNG configuration in DRS performance test”, “OCNG in CSI tests”, “CQI test configurations”, “CSI test parameters”, “TBS for RMC UL TDD 16QAM full allocation BW 1.4 MHz”, “RF requirements for UE in later releases” and “Modification of the spectral flatness requirement and some editorial corrections” are made.
ARIB STD-T63-36.104	8.9.0	8.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Corrections of “The frequency range for unwanted emissions limits (cat-B/option 2/BW 3MHz)”, “Band 4 and 10 co-existence requirement” and “Adding missing references” are made.
ARIB STD-T63-36.133	8.9.0	8.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio	Corrections on “Idle mode”, “UE measurement capability requirements in Idle and Connected”, “UE Measurement

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
				resource management	Capability Requirements in Idle Mode”, “Removal of activation time from interRAT handover requirements”, “UE Transmit Timing Requirements”, “E-UTRAN FDD inter frequency measurements”, “E-UTRAN TDD inter frequency measurements_R8”, “RSRP value in E-UTRAN FDDFDD Inter frequency reselection test”, “Addition of missing Es/Noc parameters in RRM test cases”, “RRC Re-establishment Test Case”, “UE transmit timing test case”, RLM Test Cases”, “General Corrections in TS36.133(Rel-8)” and “Extended UMTS1500” are make.
ARIB STD-T63-36.141	8.6.0	8.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corrections on “The frequency range for unwanted emissions limits (cat-B/option 2/BW 3MHz)” and “Band 4 and 10 co-existence requirement” are made.
ARIB STD-T63-36.300	8.12.0	8.11.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	Queue concurrent NAS messages if necessary for in seq delivery Support of X2 Inter-PLMN HO eNB/MME Status Transfer procedure
ARIB STD-T63-36.306	8.6.0	8.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Bounds to RoHC requirements for IMS capable UEs supporting voice
ARIB STD-T63-36.331	8.9.0	8.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Aligning the number of neighbor cells in SIB8 between Rel-8 and Rel-9 Clarification of CGI reporting Measurement Result CDMA2000 Cell Clarification on DRX StartOffset for TDD
ARIB STD-T63-36.413	8.9.0	8.8.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Correction of Path Switch Failure Crrection in DOWNLIN S1 CDMA2000 TUNNELING Procedure Rapporteur’s update for S1AP protocol Removing the restriction for Primary Notification CDMA2000 1xRTT RAND format Handling of CDMA2000 RAT and Sector ID

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Define meaning of 0 in Number of Broadcast Requested IE for ETWS
ARIB STD-T63-36.423	8.9.0	8.8.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Clarification on operational use of updated configuration data Correction to the Resource Status Reporting Initiation procedure Rapporteur's update of X2AP protocol
ARIB STD-T63-36.508	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Mainly corrections. Band 20 is added.
ARIB STD-T63-36.509	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	- Clarification of UL and DL PDCP SDU size (R5-100616)
ARIB STD-T63-36.521-1	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	Mainly corrections.
ARIB STD-T63-36.521-2	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- CR to 36.521-2 Rel-8 Introduction of Applicability for E-UTRAN FDD - FDD Intra Frequency Cell Search with DRX when L3 filtering is used (R5-100358) - CR to 36.521-2: Update baseline implementation capabilities with extended LTE1500 operating bands (R5-100561) - CSI: Following up corrections to tests titles and RI clause structure (R5-100872)
ARIB STD-T63-36.521-3	8.3.0	8.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Updates related to E-UTRA TDD multi cell, E-UTRA FDD – C3K HO, ..etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-36.523-1	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	DSMIPv6 test cases are added. Many GCF P1-4 test cases are updated.
ARIB STD-T63-36.523-2	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	Changes related to 36.523-1 changes.
ARIB STD-T63-36.523-3	8.2.0	8.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	GCF Wi 81, 82 test cases are added.

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T12 Ver.8.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-21.101	9.0.0		SP	Technical Specifications and Technical Reports for a UTRANbased 3GPP system	The document specifies requirements on UEs supporting a frequency band that is independent of release. Some extra requirement required to a UE that confirms to the present release but also supports a band of operation specified in a later release are captured in this specification.
ARIB STD-T63-21.201	9.0.0		SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	The present document identifies the 3GPP system specifications for Release 8. The specifications and reports of 3GPP Release 8 have a major version number 8 (i.e. 8.x.y). The listed Specifications are required to build a system based on the Evolved Packet System.
ARIB STD-T63-21.202	9.0.0		SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	The present document identifies the 3GPP Technical Specifications and Technical Reports specifically relating to the IP Multimedia Subsystem (IMS). and which are common to all systems based on IMS.
ARIB STD-T63-34.108	9.0.0		R5	Common test environments for User Equipment (UE); Conformance testing	upgraded with no technical change
ARIB STD-T63-34.114	9.0.0		R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	upgraded with no technical change
ARIB STD-T63-34.121-1	9.0.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	upgraded with no technical change

Added Standard Number	Version at ARIB STD-T12 Ver.8.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-34.121-2	9.0.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	upgraded with no technical change
ARIB STD-T63-34.123-1	9.0.0		R5	UE conformance specification; Part 1: Protocol conformance specification	upgraded with no technical change
ARIB STD-T63-34.123-2	9.0.0		R5	UE conformance specification; Part 2: ICS proforma specification	upgraded with no technical change
ARIB STD-T63-34.171	9.0.0		R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	This document specifies the measurement procedures for the conformance test of the minimum performance requirements for FDD mode of UTRA UE that supports A-GPS.
ARIB STD-T63-34.229-1	9.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	This document specifies the protocol conformance testing for the UE supporting the IP multimedia call control protocol based on SIP and SDP.
ARIB STD-T63-34.229-2	9.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation UE supporting the IP multimedia call control protocol based on SIP and SDP.
ARIB STD-T63-36.171	9.0.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Assisted Global Navigation Satellite System (A-GNSS)	The document establishes the minimum performance requirements for A-GNSS (including A-GPS) for FDD or TDD mode of E-UTRA for the User Equipment (UE).
ARIB STD-T63-36.307	9.0.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	The document specifies requirements on UEs supporting a frequency band that is independent of release. Some extra requirement required to a UE that confirms to the present release but also supports a band of operation specified in a later release are captured in this specification.

Added Standard Number	Version at ARIB STD-T12 Ver.8.10		3GPP WG	Title	New Document Summary
ARIB STD-T63-36.508	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	upgraded with no technical change
ARIB STD-T63-36.509	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	upgraded with no technical change
ARIB STD-T63-36.521-1	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	upgraded with no technical change
ARIB STD-T63-36.521-2	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	upgraded with no technical change
ARIB STD-T63-36.521-3	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	upgraded with no technical change
ARIB STD-T63-36.523-1	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	upgraded with no technical change
ARIB STD-T63-36.523-2	9.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	upgraded with no technical change

7.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-22.101	9.7.0	9.6.0	S1	Service aspects; Service principles	Removing the requirement for PSAP call back identification
ARIB STD-T63-22.220	9.4.0	9.3.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Removal of IMS HNB interworking Clarification of the interaction of the Operator and Allowed CSG lists
ARIB STD-T63-23.040	9.2.0	9.1.0	C1	Technical realization of Short Message Service (SMS)	SMS. Removal of obsolete reference to TS 43.047
ARIB STD-T63-23.041	9.3.0	9.2.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Corrections to the Cell Broadcast Service (CBS) for ETWS Correction of figure 4b Addition of Broadcast Message Type
ARIB STD-T63-23.203	9.4.0	9.3.0	S2	Policy and charging control architecture	1. Include the user CSG information in the the IP CAN Session Establishment, IP CAN Session Modification and PCRF initiated and GW Control session establishment. 2. Add the CSG event triggers to the Event-Trigger Table for 3GPP access. It is proposed to give the PCEF/BBERF explicit instructions about which of the SDF filters are to be used for the generation of traffic mapping information and which not. Each SDF filter of a dynamically provided or pre-defined PCC rule should be marked accordingly.
ARIB STD-T63-23.204	9.1.0	9.0.0	S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	IMDN references updated.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	9.3.0	9.2.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Clarifies that the MSC server enhanced for ICS/SRVCC can be connected via the IBCF. Removes statements around that Ix is not specified, and adds a correct reference to where it is specified. It is clarified that resource authorization is done per session and the totally allowed resources per subscription needs to be taken into account when authorizing additional resources. Clarified that Call Waiting require double resource authorization and reservation.
ARIB STD-T63-25.101	9.3.0	9.2.0	R4	UE Radio transmission and reception (FDD)	Addition to the corresponding changes in V8.10.0, corrections on "CQI requirements for DC_MIMO", "HS-SCCH requirements for TxAA fallback extension", "Tx-Rx frequency separation for DC-HSUPA" and "Rx core requirements for DC-HSUPA" are made. Also "Requirements for UMTS in 800 MHz for Europe" are introduced.
ARIB STD-T63-25.104	9.3.0	9.2.0	R4	Base Station (BS) radio transmission and reception (FDD)	Clarification of "Time alignment error requirements" (different from the changes in V8.10.0), corrections on "Extended UMTS1500 requirements" (different from the changes in V8.10.0), and "Tx-Rx frequency separation for DC-HSUPA" are made. Introduction of "Band XX" is made.
ARIB STD-T63-25.113	9.2.0	9.1.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Descriptions for "Band XX" are introduced.
ARIB STD-T63-25.133	9.3.0	9.2.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V8.10.0, corrections on "UL interruptime requirement for DC-HSUPA", "ETFC Restriction for DC-HSUPA" are made. "Requirements for UMTS in 800 MHz for Europe" and "Requirements for HNB inbound mobility" are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.141	9.3.0	9.2.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in V8.10.0 and corrections on “Time alignment error requirements” (different chang from V8.10.0), “ Extended UMTS1500 requirements” and “Tx-Rx frequency separation for DC-HSUPA” are made. Requirements for “Band XX” are introduces.
ARIB STD-T63-25.144	9.2.0	9.1.0	R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Correction on “DB-DC-HSDPA Configuration 2 REFSENS relaxation to OTA requirements” is made.
ARIB STD-T63-25.212	9.2.0	9.1.0	R1	Multiplexing and channel coding (FDD)	Clarify the coding of HS-SCCH orders in accordance with the MIMO configuration of the UE in cells.
ARIB STD-T63-25.214	9.2.0	9.1.0	R1	Physical layer procedures (FDD)	Introduce a restriction to MIMO UEs in which the PCI reports can only indicate a subset of precoding vectors. Correct HS-DSCH and HS-SCCH reception in the URA_PCH and CELL_PCH states. Clarify which type of HS-SCCH shall be used for MIMO configuration. Clalify when the HS-DPCCH coding scheme change takes place. Correct Applicability of CQI Mapping Table. Decrease DC-HSPA carrier activation application time to 18 slots.
ARIB STD-T63-25.215	9.2.0	9.1.0	R1	Physical layer; Measurements (FDD)	Idle, URA_PCH inter-RAT, and CELL_PCH inter-RAT are added to E-UTRA RSRQ applicability.
ARIB STD-T63-25.301	9.1.0	9.0.0	R2	Radio Interface Protocol Architecture	Correction of Protocol termination points for E-DCH for CCCH(R9)
ARIB STD-T63-25.302	9.1.0	9.0.0	R2	Services provided by the physical layer	Corrections to FDD DL physical channel combinations Clarification of FDD DL channel combination applicability for DC-HSUPA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.304	9.1.0	9.0.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Reception of ETWS notification in limited service state Alternative clarification to priority based mobility Correction to Access Class handling for 'not barred' cells Handling MBSFN cluster selection in the case of 'reserved' cell status Cell reselection enhancements
ARIB STD-T63-25.306	9.2.0	9.1.0	R2	UE Radio Access capabilities	Clarification of code rates limitation for category 25/27 Release 9 UE Capability: UTRA Home Node B Inbound Mobility related features UE cat17/18 and signalling of Single Stream MiMo capability dual band capability Bounds to RoHC requirements for UEs supporting IMS
ARIB STD-T63-25.307	9.2.0	9.1.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of band XX (800 MHz)
ARIB STD-T63-25.308	9.2.0	9.1.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Correction of DRX definition for LCR TDD Corrections to stage 2 of DC-HSDPA Removal of FFSS about the support of E-FACH for 1.28Mcps TDD Correction to the enhanced serving cell change
ARIB STD-T63-25.319	9.3.0	9.2.0	R2	Enhanced uplink; Overall description; Stage 2	Error Detection instead of error correction in Enhanced Uplink in CELL_FACH Corrections to DC-HSUPA operation Update of Stage 2 description for DC-HSUPA Clarification on CRC Attachment for CCCH transmission in enhanced CELL_FACH state for 1.28 Mcps TDD
ARIB STD-T63-25.321	9.2.0	9.1.0	R2	MAC protocol specification	Clarification on Scheduling Information reporting for 1.28 Mcps TDD Correction of HS-SCCH Type 3 usage with MAC-ehs for LCR TDD Error Detection instead of error correction in Enhanced Uplink in CELL_FACH Corrections for DC-HSUPA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Correction to MAC-ehs reset at Treset expiry Handling of SI timers at secondary carrier deactivation Start of timer for contention resolution Clarification on CRC Attachment for CCCH transmission in enhanced CELL_FACH state for 1.28 Mcps TDD Correction to HARQ procedure for HS-DSCH SPS operation for 1.28 Mcps TDD Modification on TB size for 1.28 Mcps TDD Clarification on E-TFC selection and happy bit procedures for DC-HSUPA Correction to handling of equal priority flows in E-TFC selection
ARIB STD-T63-25.367	9.3.0	9.2.0	R2	Mobility Procedures for Home Node B; Overall description; Stage 2	CR capturing HNB inbound mobility agreements
ARIB STD-T63-25.401	9.1.0	9.0.0	R3	UTRAN Overall Description	SPID description and implementation guidelines in UTRAN
ARIB STD-T63-25.423	9.2.0	9.1.0	R3	UTRAN Iur interface RNSAP signalling	Addition of HS-DSCH physical layer category over Iur E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH Allow reconfiguration of some IEs in RL Addition procedure Correction of DC-HSDPA Capability in Iur Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation Combining E-DCH Radio Links within the RLS Correction of Multi-cell Capability Report in Iur Introduction of HS-PDSCH resources on TS0 for 1.28Mcps TDD Correction to state transition of Enhanced CELL_FACH UE for LCR TDD Rel-9 Flexible cell combinations in DC-HSDPA Addition of DGNSS Validity Period in RNSAP

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Introduction of UE Aggregate Maximum Bit Rate Enforcement Indicator Synchronization detection window configuration in CPC for 1.28 Mcps TDD Measurement occasion configuration in CELL_DCH for 1.28Mcps TDD Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change Indication of Precoding Weight Set Restriction preference Rapporteur's update of RNSAP protocol Corrections to DC HSUPA Remove Cell Specific HARQ memory partitioning for DC HSDPA+MIMO and additional corrections for HS-DSCH preconfiguration Corrected a typo in ASN.1 to make it pass the syntax checker ToC updated Corrupted headers fixed
ARIB STD-T63-25.425	9.1.0	9.0.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Corrections to the TS0 enhancement for the UE in CELL_FACH state for 1.28Mcps TDD Clarification of eDRX Indication for 1.28Mcp TDD
ARIB STD-T63-25.433	9.2.0	9.1.1	R3	UTRAN Iub interface NBAP signalling	E-RNTI Allocation for UE moves to Cell_FACH from Cell_DCH Allow reconfiguration of some IEs in RL Addition procedure Clarification of HS-DSCH Paging System Information LCR Addition of power control and synchronization control configurations for enhanced CELL_FACH for 1.28Mcps TDD Correction of description for RSI procedure for 1.28Mcps TDD Correction for the description of E-DCH serving radio link IE for E-DCH semi-persistent operation Correction of the presence of Sixtyfour QAM DL and MIMO Combined Capability IE

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					A missing IE in ASN.1 for 1.28 Mcps TDD Correction on RTWP configutation in multiple frquencies cell 1.28Mcps TDD Correction on the PHYSICAL SHARED CHANNEL RECONFIGURATION FAILURE for 1.28Mcps TDD Introduction of HS-PDSCH resources on TS0 for 1.28Mcps TDD Corrections to the number of Non-HS-SCCH Associated HS-SICH for 1.28Mcps TDD Corrections from NBAP ASN.1 review Clarification of HS-SCCH TPC step size configuration Addition of DGNSS Validity Period in NBAP Introduction of UE Aggregate Maximum Bit Rate Enforcement Indicator Synchronization detection window configuration in CPC for 1.28 Mcps TDD Addition of Physical Channel ID in the common E-RNTI configuration for 1.28 Mcps TDD Measurement occasion configuration in CELL_DCH for 1.28Mcps TDD Addition of F-DPCH TX Power info in Common E-DCH System Information Small Correction/Improvements for DC-HSUPA Removal of procedural text for DPC Mode IE in Common E-DCH System Information Correction for Procedural Text on E-RNTI Allocation at E-DCH Serving Cell Change Indication of Precoding Weight Set Restriction preference Remove Cell Specific HARQ memory partitioning for DC HSDPA+MIMO Correction of E-DCH RACH Report Correction of common E-DCH mac-d flow for CCCH transmission

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-25.435	9.1.0	9.0.0	R3	UTRAN lub interface user plane protocols for Common Transport Channel data streams	Clarification DCCH/DTCH transmission mechanism in enhanced CELL-PCH state Correction of the value range for RACH Measurement Result IE for 1.28Mcps TDD Corrections to the TS0 enhancement for the UE in CELL_FACH state for 1.28Mcps TDD
ARIB STD-T63-25.446	9.1.0	9.0.0	R3	MBMS synchronisation protocol(SYNC)	Clarification on Total counter frame Update Description for LTE MBMS Multiple Consecutive Packet Loss Small Corrections/Improvements for SYNC Corrections on Packet Number
ARIB STD-T63-25.453	9.1.0	9.0.0	R3	UTRAN lupc interface Positioning Calculation Application Part (PCAP) signalling	Correction to OTDOA in SAS-centric mode Addition of DGNSS Validity Period in PCAP
ARIB STD-T63-25.467	9.2.0	9.1.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Clarification of HNB Definition Corrections on the non-CSG UEs registration and luh Disconnect Procedure Removal of incomplete material for intra-GW Handover Removal of FFS in Rel-9 stage 2 specification CSG expiry Handling PSC Split Clarification Clarifications on UE registration and mobility procedures
ARIB STD-T63-25.468	9.1.0	9.0.0	R3	UTRAN luh Interface RANAP User Adaption (RUA) signalling	Minor corrections for RUA
ARIB STD-T63-25.469	9.1.0	9.0.0	R3	UTRAN luh interface Home Node B Application Part (HNBAP) signalling	Minor corrections for HNBAP Extend ASRI for Release 9 Introduction of Support for CSG membership notification
ARIB STD-T63-26.102	9.1.0	9.0.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to lu, Uu and Nb	Corrections and clarifications of Nb frames are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-26.114	9.2.0	9.1.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	H324M interworking procedures in decomposed MGCF and IM-MGW and MTSI Client Global Text Telephony negotiation procedures are done.
ARIB STD-T63-26.131	9.3.0	9.2.0	S4	Terminal acoustic characteristics for telephony; Requirements	Correction of distortion measurements are done.
ARIB STD-T63-26.132	9.2.0	9.1.0	S4	Speech and video telephony terminal acoustic test specification	Correction of distortion measurements are done.
ARIB STD-T63-26.150	9.1.0	9.0.0	S4	Syndicated Feed Reception (SFR) within 3GPP environments; Protocols and codecs	Editorial Corrections to SFR Specification are carried out.
ARIB STD-T63-26.234	9.2.0	9.1.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	QoE Reporting for HTTP Streaming, Corrections to Content Protection extensions, Removal of obsolete DRM extensions annex K, clarification about Main Profile and Updates to Adaptive HTTP Streaming are carried out.
ARIB STD-T63-26.237	9.2.0	9.1.0	S4	IMS based PSS and MBMS User Service; Protocols	Corrections to Inter UE Session Transfer are done.
ARIB STD-T63-26.244	9.1.0	9.0.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	File Format updates for HTTP Streaming is done.
ARIB STD-T63-26.346	9.2.0	9.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	HTTP Streaming with MBMS is carried out.
ARIB STD-T63-26.430	9.0.0	1.0.0	S4	Timed graphics	Newly approved at TSG SA#47.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-27.007	9.3.0	9.2.0	C1	AT command set for 3G User Equipment (UE)	Correction of minor drafting rule issues for TS 27.007 Removal of [,<pd1>[,...[,pdN]]] in +CGDCONT Clarification of parameter type for +CCHO and +CCHC Incorrect indication of AT commands as parameter commands CGDEL – AT-command for deletion of non-active PDP contexts and associated parameters Incorrect name for test command version of +CGTFTDRDP Correction of the packet domain event reporting +CGEV The value range of <cid> for network initiated PDP contexts is clarified Addition of new AT-Command related to SSAC Correction of AT command for emergency bearer services Editorial cleanup by MCC
ARIB STD-T63-31.102	9.2.0	9.1.0	C6	Characteristics of the USIM Application	Correction to EF_ACSGL access condition Correction to informative Annex D Introduction of Indicator for Inhibition of Allowed CSG List Introduction of ICE (In Case of Emergency) graphics files
ARIB STD-T63-31.111	9.1.0	9.0.0	C6	USIM Application Toolkit (USAT)	Completion of implementation of CR 0227 (tag values) Correction of erroneous use of the "H(e)NB" term ETSI SCP references correction
ARIB STD-T63-31.121	9.1.0	9.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Editorial modifications about missing section numbers Introduction of Rel-9 applicability and applicability table corrections
ARIB STD-T63-31.124	9.1.0	9.0.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Introduction of BIP tests for E-UTRAN Introduction of Network Rejection Event tests Introduction of Provide Local Information tests for E-UTRAN Introduction of Event Download – Location Status tests for E-UTRAN Introduction of Rel-9 test case applicability

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Correction of typo error Dual Open Channel tests in TCP mode Open Channel tests for TCP mode and Default Bearer Correction of optional features table Correction of applicability for 'no alpha identifier presented' sequences Essential correction to the condition table
ARIB STD-T63-31.130	9.1.0	9.0.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Addition of missing constant values Supporting operator controlled CSG list for H(e)NB Support of CSG cell discovery and CSG selection event
ARIB STD-T63-31.213	9.1.0	9.0.0	C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	References update and cleanup Addition of Rel-7 tests
ARIB STD-T63-31.220	9.1.0	9.0.0	C6	Characteristics of the Contact Manager for 3GPP UICC applications	Correction of wrong reference pointer and clarification
ARIB STD-T63-33.102	9.2.0	9.1.0	S3	3G security; Security architecture	Correct Kc to Kc' when derived from CK'CS K'CS Correction of Kc derivation for Kc128 capable SGSNs Define the bits from the KDF output, assigned to key Kc128 Correction of IRAT mobility before UMTS AKA is run
ARIB STD-T63-33.108	9.2.0	9.1.0	S3	3G security; Handover interface for Lawful Interception (LI)	EPSLocation ULI length correction Correction on RAI coding inside "old user location information" parameter
ARIB STD-T63-33.223	9.1.0	9.0.0	S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Correction of incorrect requirement for mandatory support of GBA Push for GBA aware MEs Correction of private identity exposure and delivery of GPI to USIM/ISIM
ARIB STD-T63-33.234	9.1.0	9.0.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	Use of EAP Request/AKA Identity message

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-33.310	9.2.1	9.1.0	S3	Network domain security; Authentication framework (NDS/AF)	NDS enhancement to support backhaul security Alignment of TLS profile in NDS with TR-069 profile in H(e)NB Corrections of clause references in clause 9 and editorial corrections in Annex E.
ARIB STD-T63-33.320	9.1.0	9.0.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Fixing incorrect wording in section 8.3.1. Fixing call-flow parameters in Annex A.2 Removing Editor's Note in section 8.4 Addition security features to device mutual authentication in 5.2 Correction on components involving absolute time in TR-069 profiling Editorial changes to section 4.4.4 Correction of ambiguity in 8.4, Protection of SW Download A complement to location verification for different types of location information The necessary complement to verifying node for location verification Editor's Notes resolution and correction clarifications Correction of potential security risks relating to non CSG UE registration Correction on mandatory confidentiality on backhaul link Clarification of OCSP procedures for section 7.2
ARIB STD-T63-33.401	9.3.1	9.2.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	GPRS Kc128 handling Handling of SIM based EC handover to E-UTRAN Key derivations for unauthenticated Emergency call Clarification of SIM user handover from UTRAN to E-UTRAN Correction of text on terminal identities Clarification of Identification procedure in MME Handling of EPS NAS security context in state transitions Add the Replay protection implementation and Clarification of replay protection with integrity Clarification for NAS downlink COUNT handling in I-RAT

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					handover to UTRAN GPRS Kc handling Desynchronization of PS keys between the UE and the network in case of PS HO failure Correction of SRVCC failure Correction on mandatory implementation of IKE and IPsec for backhaul of eNBs Correction of Network Domain Control Plane protection Not resetting START to 0 in idle mode mobility (Rel-9). Certificate Enrolment use Correction of reference [27]
ARIB STD-T63-33.402	9.3.0	9.2.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Use of identities in EAP-AKA'
ARIB STD-T63-34.124	9.2.0	9.1.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Descriptions for "Band XX" are introduced.
ARIB STD-T63-36.101	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corresponding changes in V8.9.0, corrections on "PDSCH performance tests for low UE categories", "Band 19 REFSSENS", "Band 20 UE RF requirements", "A-MPR for Band 21", "LTE MBMS reference measurement channels" and "The definition of the Doppler shift for LTE MBSFN Channel Model" are made.
ARIB STD-T63-36.104	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Corresponding changes in V8.9.0, corrections on "Operating band unwanted emissions for Local Area BS", "Requirement for Pico NodeB", "DTT protection requirement", "Operating band unwanted emissions for Home BS", "Home BS operating band unwanted emission limits", "Additional spurious emissions and blocking requirements for HeNB", "Home BS Output Power for Adjacent Channel Protection", "Requirements for HARQ-ACK multiplexed on PUSCH for E-UTRA LA and Home BS", "CQI missed detection requirements for PUCCH format 2 for E-UTRA LA and Home

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					BS" and "The receiver intermodulation requirements" are made.
ARIB STD-T63-36.133	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corresponding changes in V8.9.0, corrections on "Enhanced GSM Requirements for CSFB", "Enhanced UTRA FDD Requirements for CSFB", "AOA and TA measurement report mappings", "Mapping of UE RxTx time difference measurement", "Home eNode B synchronization requirement" and "Minimum requirements on SI reading for HeNB inbound mobility" are made. "LTE in 800 MHz for Europe requirements" is introduced.
ARIB STD-T63-36.141	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corresponding changes in V8.6.0, corrections on "Dynamic range requirement for Local Area BS", "In-channel selectivity for Local Area BS", "ACS and narrow band blocking for Local Area BS", "Receiver intermodulation for Local Area BS", "Performance requirement for Local Area BS", "E-UTRA BS classification", "Maximum output power for Pico NodeB", "Frequency error requirement for Pico NodeB", "Reference sensitivity level requirement for Pico NodeB", "ACLR requirement for Pico NodeB", "Operating band unwanted emissions requirement for Pico NodeB", "Spurious emissions requirement for Local Area BS", "Blocking requirement for Pico NodeB", "DTT protection requirement", "Operating band unwanted emissions requirement for Home eNodeB", "Dynamic range requirement for Home eNodeB", "Additional spurious emissions and blocking requirements for HeNB", "Home BS Output Power Conformance Testing for Adjacent Channel Protection", "Requirements for HARQ-ACK multiplexed on PUSCH for E-UTRA LA and Home BS", "CQI missed detection requirements for PUCCH format 2 for E-UTRA LA and Home BS" and "The receiver intermodulation requirements" are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-36.201	9.1.0	9.0.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE physical layer; General description	Introduce the description "Physical multicast channel related procedures" in section 5.5 to reflect the updating of 36.213.
ARIB STD-T63-36.211	9.1.0	9.0.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation	Clarify MBSFN subframe definition. Clarify the CP length of the OFDM symbols when transmitting positioning reference signals.
ARIB STD-T63-36.212	9.1.0	9.0.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Introduce MCCH change notification using DCI format 1C. Add missing reference to DCI format 2B.
ARIB STD-T63-36.213	9.1.0	9.0.1	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Define the UE behavior when receiving notification of MCCH change. Clarify UE behavior when collision of antenna port 7/8 with PBCH or SCH happened and when distributed VRB is used with antenna port 7. Correction on PDSCH EPRE and UE-specific RS EPRE for Rel-9 enhanced DL transmissions.
ARIB STD-T63-36.214	9.1.0	9.0.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Idle, URA_PCH inter-RAT, and CELL_PCH inter-RAT are added to E-UTRA RSRQ applicability.
ARIB STD-T63-36.300	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	- Correction regarding support of multiple MBSFN areas - Correction to MBMS terminology - Corrections on eNB muting MBSFN transmission - Corrections on MBMS - HeNB inbound mobility agreements - Remove FFSS from RAN2 specifications - SIM based access for Emergency calls in LTE - RA for Positioning - Corrections on MBMS - Stage 2 update for Full Configuration Handover for handling earlier eNB releases - Handling Ksme mismatch for IMS Emergency calls - Correction to MTU endpoint - Stage 2 correction of Load Reporting for MLB - Allowed Range in Negotiation - Clarification of definitions of HO failure cases

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Clarification on the usage of the mechanism to transfer IRAT MLB information MBMS Session Update in M3AP stage 2 Correction on radio bearer configuration Correction to the MSAP occasion implied by SYNC timestamp MCCH related BCCH content MCCH update synchronization MBMS Session Update in M2AP stage 2 MBMS User Data flow synchronisation MBMS User Data flow synchronisation Packet dropping SYNC sequence duration configuration in MCE Adding the description of simultaneously change of SIB13 and MCCH Addition u-plane protocol stack for M1 Queue concurrent NAS messages if necessary for in seq delivery Support of X2 Inter-PLMN HO Clarifications on CSG process definition and mobility procedures Corrections of HeNB CSG expiry Handling eNB/MME Status Transfer procedure SPID implementation guidelines Handling of handover restriction for emergency call Some corrections for HeNB
ARIB STD-T63-36.302	9.1.0	9.0.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	Correction to RSRP and RSRQ definition with Receiver Diversity to align with TS 36.214
ARIB STD-T63-36.304	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification on RRC connection re-establishment for emergency calls Correction on reselection from non-CSG cell to CSG inter-RAT cell Miscellaneous correction on 36.304 Proposed CR to 36.304 on Addition of missing abbreviations related with MBMS

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Cell reselection enhancements CR for 36.304
ARIB STD-T63-36.305	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Clarification on E-CID parameters Clarification on positioning procedure Stage 2 updates to align with stage 3 Updates to LPP material in stage 2 Updates to LPPa material in stage 2 clarification on routing id Clarification of information transfer for OTDOA Add LPP procedures to align with 36.355 Clarification on Error Case Handling Transfer of LPPa PDUs over S1
ARIB STD-T63-36.306	9.1.0	9.0.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Optionality of Rel-9 UE features Introduction of power-limited device indication in UE capability. UE capability for enhanced 1xRTT CS fallback Bounds to RoHC requirements for IMS capable UEs supporting voice Redirection enhancements to UTRAN Redirection enhancements to GERAN
ARIB STD-T63-36.321	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Correction to MBMS scheduling terminology Corrections to TS 36.321 on MBMS Error handling for MBMS PDU Renaming CR as consequence of ASN.1 review
ARIB STD-T63-36.322	9.1.0	9.0.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Correction to RLC entity
ARIB STD-T63-36.331	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification of CGI reporting Clarification on MCCH change notification Clarification on measurement for serving cell only Clarification on proximity indication configuraiton in handover to E-UTRA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Clarification on radio resource configuration in handover to E-UTRA procedure Clarification on UE maximum transmission power Correction to field descriptions of UE-EUTRA-Capability Correction to MBMS scheduling terminology Corrections to SIB8 Unifying SI reading for ANR and inbound mobility 1xRTT pre-registration information in SIB8 corrections for MBMS CSG identity reporting Optionality of Rel-9 UE features Service Specific Acces Control (SSAC) Introduction of power-limited device indication in UE capability. Missing agreement in MCCH change notification. Corrections related to MCCH change notification and value ranges Prohibit timer for proximity indication Proximity Indication after handover and re-establishment Specifying the exact mapping of notificationIndicator in SIB13 to PDCCH bits Corrections out of ASN.1 review scope clarification of system information change Measurement Result CDMA2000 Cell Correction on the range of UE Rx-Tx time difference measurement result Small clarifications regarding MBMS Introduction of REL-9 indication within field accessStratumRelease Extending mobility description to cover inbound mobility Clarification regarding enhanced CSFB to 1XRTT Handling of dedicated RLF timers Clarification on UE's behavior of receiving MBMS service MBMS Service ID and Session ID Inclusion of non-MBSFN region length in SIB13 e1xCSFB access class barring parameters in SIB8 Multiple 1xRTT/HRPD target cells in

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					MobilityFromEUTRACommand Independent support indicators for Dual-Rx CSFB and S102 in SIB8 Clarification on DRX StartOffset for TDD Miscellaneous corrections from REL-9 ASN.1 review Need codes and missing conventions Introduction of Full Configuration Handover for handling earlier eNB releases Clarification to SFN reference in RRC RSRP and RSRQ based Thresholds Redirection enhancements to GERAN Cell reselection enhancements CR for 36.331 UE-originated RLFreporting for MRO SON use case Redirection enhancements to UTRAN Proximity status indication handling at mobility Upper layer aspect of MBSFN area id Redirection for enhanced 1xRTT CS fallback with concurrent PSHO Avoiding interleaving transmission of CMAS notifications Introduction of UE GERAN DTM capability indicator Introducing provisions for late ASN.1 corrections Correction/ alignment of REL-9 UE capability signalling
ARIB STD-T63-36.355	9.1.0	9.0.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Clarification on Position location Clarification on UE Rx-Tx time difference supporting capability Completion of LPP common material Completion of OTDOA in LPP Provision of Frame Drift Information in Network Time Clarification of measurement reference point GNSS-DifferentialCorrectionsSupport BSAlign Indication in GNSS Reference Time Changes to reflect LPP ASN.1 review Introduction of LPP reliability sublayer LPP error procedures and conditions Triggered Location Information Transfer due to Cell Change

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-36.401	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Support of time and frequency synchronization for HeNB
ARIB STD-T63-36.412	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Specification of Payload Identifier
ARIB STD-T63-36.413	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Correction of CSG Cell and Hybrid Cell Definition NCC Initialization in eNB at the Initial Connection Setup Inter RAT Mobility Load Balance on S1 Correction in DOWNLIN S1 CDMA2000 TUNNELING Procedure CSG expiry Handling CMAS and ETWS action if Number of Broadcasts Requested IE set to 0 Description of Transparent Container Encoding Rapporteur's update for S1AP protocol Removing the restriction for Primary Notification CDMA2000 1xRTT RAND format Handling of the CDMA2000 RAT and Sector ID Handling of CSG ID check failure in LTE hybrid cells Transfer Encoding of LPPa PDUs over S1 Correction of connection establishment Correction of S1 Release Creation of annex for SON Transfer and Cell Load Reporting RIM application. Support of time and frequency synchronization using network listening ToC updated Corrupted headers and ASN.1 fixed
ARIB STD-T63-36.422	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Specification of Payload Identifier

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
ARIB STD-T63-36.423	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Correction to the Resource Status Reporting Initiation procedure Addition of MBSFN information on X2 interface Cell pair identification for Mobility Settings Change procedure Addition of cause value for not admitted E-RAB Rapporteur's update of X2AP protocol RNL-based energy saving solution Inclusion of UE RLF Report in RLF INDICATION message
ARIB STD-T63-36.440	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); General aspects and principles for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Incorrect reference for SYNC spec
ARIB STD-T63-36.442	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Signalling Transport for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Editorial corrections
ARIB STD-T63-36.443	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M2 Application Protocol (M2AP)	Some minor description corrections for M2AP Removal of QoS information in MBMS Session Start message Clarification of MCCH Update Time Correct the descripton of Error Indication and misspelt of BIT STRING Some corrections to TS36.443 MBSFN subframe configuration MBSFN Area Configuration Miscellaneous corrections to TS36.443 Optional MBMS Session ID Remove the MBMS Session Duration IE from the MBMS Session Start Request message Misc corrections

Revised Standard Number	Version at ARIB STD-T63 Ver.8.10	Version at ARIB STD-T63 Ver.8.00	3GPP WG	Title	Change Summary
					Introduction of MBMS Session Update in M2AP Rapporteur's update for M2AP protocol
ARIB STD-T63-36.444	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	Corrections to TS36.444 Miscellaneous corrections to TS 36.444 Misc corrections Introduction of MBMS Session Update in M3AP Editorial Correction on TS 36.444 No support for E-RAB Pre-emption
ARIB STD-T63-36.445	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	Clean up of unicast related text
ARIB STD-T63-36.455	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Inclusion of Geographical Area and E-UTRAN Access Point Position information Introduction of new cause values in LPPa Introduction of EARFCN information in E-CID measurement results over LPPa Rapporteur's update of LPPa protocol

(Annex 40)

3GPP ARIB Change history List of Standards Ver. 8.20

5 November 2010

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

None

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

None

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-31.111	6.14.0	6.13.0	C6	USIM Application Toolkit (USAT)	- Update of the specification and of references to SCP specifications -Correction to security requirement references - Correction of TERMINAL RESPONSE

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.123	7.12.0	7.11.0	R4	Requirements for support of radio resource management (TDD)	Adding requirement of UE uplink synchronization control during handover for 1.28 Mcps TDD, Modification of requirement for Event 1H and 1I triggered reporting in AWGN propagation conditions for 1.28 Mcps TDD, Addition of requirement for UE uplink synchronization control for PRACH for 1.28 Mcps TDD, and addition of requirement Inter-RAT cell change order from UTRAN TDD to GSM(GPRS) for 1.28 Mcps TDD Option are made
ARIB STD-T63-25.225	7.5.0	7.4.0	R1	Physical layer; Measurements (TDD)	Correct the reference table number for nominal maximum output power for 1.28Mcps TDD.
ARIB STD-T63-25.301	7.5.0	7.4.0	R2	Radio Interface Protocol Architecture	Inconsistency in 'transparency' definition in 25.301 -Rel-7
ARIB STD-T63-25.321	7.17.0	7.16.0	R2	MAC protocol specification	Correction to Mac headers in CELL FACH, CELL PCH and URA PCH Reordering entity for each configured Queue ID at UE
ARIB STD-T63-26.114	7.12.0	7.11.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of AVP-AVPF negotiation procedure is dine.
ARIB STD-T63-31.101	7.2.0	7.1.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- TS Re-structuring

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-31.102	7.16.0	7.15.0	C6	Characteristics of the USIM Application	-ETSI SCP references correction
ARIB STD-T63-31.111	7.14.0	7.12.0	C6	USIM Application Toolkit (USAT)	- Correction to security requirement references - Update of the specification and of references to SCP specifications - Correction of TERMINAL RESPONSE

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.016	8.1.1	8.1.0	S1	International Mobile Equipment Identities (IMEI)	Correction to version shown on cover page
ARIB STD-T63-22.022	8.1.0	8.0.0	S1	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Correction of Reference
ARIB STD-T63-23.041	8.6.0	8.5.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Editor's note is removed, and text that most likely was intended as an editor's note is rephrased.
ARIB STD-T63-23.203	8.10.0	8.9.0	S2	Policy and charging control architecture	- Access Network Charging Correlation Information is added as a new event trigger over Gx. - Access Network Charging Correlation information is added as an event that the AF may instruct the PCRF to report. It is clarified that the PDN-GW provides interworking between EPC and Gn/Gp procedures when a UE is connected via Gn/Gp SGSN Removing obsolete editor's Notes from frozen specs.
ARIB STD-T63-25.101	8.11.0	8.10.0	R4	UE Radio transmission and reception (FDD)	Editorial correction of note in varying geometry testcases is made.
ARIB STD-T63-25.133	8.11.0	8.10.0	R4	Requirements for support of radio resource management (FDD)	Corrections on RRC procedure delay for UTRA to E-UTRA HO, UTRAN-E-UTRAN Cell Re-selection Requirements and unknown target cell search requirements for UTRA to E-UTRA HO test cases are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.301	8.7.0	8.6.0	R2	Radio Interface Protocol Architecture	Inconsistency in 'transparency' definition in 25.301 -Rel-8
ARIB STD-T63-25.304	8.10.0	8.9.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification of discontinuous reception for paging in enhanced CELL_FACH state for 1.28 Mcps TDD Clarifications on cell reselection to a CSG cell
ARIB STD-T63-25.319	8.10.0	8.9.0	R2	Enhanced uplink; Overall description; Stage 2	Corrections to CRC attachment entity in MAC-i/is Error correction on MAC-es PDU to MAC-is PDU
ARIB STD-T63-25.321	8.10.0	8.9.0	R2	MAC protocol specification	Clarification on HS-SCCH less operation when MAC-ehs is configured Clarification on power offset selection in enhanced CELL_FACH for LCR TDD Correction to the description of scheduler in enhanced CELL_FACH for 1.28Mcps TDD Corrections to MAC-i/is Scheduling Information transmission for Enhanced CELL_FACH Clarification of UE Id handling after collision resolution Clarification on the usage of Treset for 1.28 Mcps TDD Corrections to the usage of bit aligned TB size table of HS- DSCH for 1.28Mcps TDD Special MAC-hs and MAC-ehs PDU for 1.28Mbps TDD Clarification to the TB size table of MIMO for 1.28Mcps TDD Correction to Mac headers in CELL FACH, CELL PCH and URA PCH Reordering entity for each configured Queue ID at UE
ARIB STD-T63-25.423	8.9.0	8.8.0	R3	UTRAN Iur interface RNSAP signalling	Correction of procedure text that appears to be duplicated and mis-placed CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure Correction for Enhanced Serving Cell Change
ARIB STD-T63-25.433	8.9.0	8.8.0	R3	UTRAN Iub interface NBAP signalling	Correction to state transition of Enhanced CELL_FACH UE for LCR TDD Clarification on the usage of Treset for 1.28 Mcps TDD Correction of procedure text that appears to be duplicated

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					and mis-placed CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure Correction for Enhanced Serving Cell Change
ARIB STD-T63-26.114	8.6.0	8.5.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of AVP-AVPF negotiation procedure is done.
ARIB STD-T63-26.202	8.0.1	8.0.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb	Update of LTE logo and Copyright statement is done.
ARIB STD-T63-26.267	8.4.0	8.3.0	S4	AeCall data transfer; In-band modem solution; General description	Detector for handling PCM sample inversion in the network and Feedback signal modifications to increase robustness in the presence of network echo cancellers are carried out.
ARIB STD-T63-26.268	8.3.0	8.2.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of ACK detection conditions, Detector for handling PCM sample inversion in the network and Feedback signal modifications to increase robustness in the presence of network echo cancellers are carried out.
ARIB STD-T63-26.346	8.5.0	8.4.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Correcting the Access Bearer Identifier for different MBSFNs (IMB, TDD and FDD) is done.
ARIB STD-T63-27.007	8.12.0	8.11.0	C1	AT command set for 3G User Equipment (UE)	-Correction of unsolicited result codes for packet domain event reporting +CGCONTRDP, alignment of with +CGTFT and +CGTFTRDP -Description of handling a request to disconnect when only connected to a single PDN -Support for +CGPADDR returning both IPv4 and IPv6 addresses -Clarification of relationship between CREG, CERE and CGREG
ARIB STD-T63-31.101	8.2.0	8.1.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- TS Re-structuring
ARIB STD-T63-31.102	8.9.0	8.8.0	C6	Characteristics of the USIM Application	- ICE related procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-31.111	8.9.0	8.7.0	C6	USIM Application Toolkit (USAT)	- Correction to security requirement references - Update of the specification and of references to SCP specifications - Correction of TERMINAL RESPONSE
ARIB STD-T63-31.122	8.0.1	8.0.0	C6	USIM conformance test specification	- Update history
ARIB STD-T63-33.108	8.11.0	8.10.0	S3	3G security; Handover interface for Lawful Interception (LI)	ASN.1 Description of eps-sending-of-IRI Subdomain ID
ARIB STD-T63-33.310	8.4.0	8.3.0	S3	Network domain security; Authentication framework (NDS/AF)	Correction of SEG CA and TLS client/server CA certificate profiles
ARIB STD-T63-34.108	8.11.0	8.10.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Removal of technical content in 34.108 v8.10.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.114	8.4.0	8.3.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	- Removal of technical content in 34.114 v8.3.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.121-1	8.11.0	8.10.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1:	- Removal of technical content in 34.121-1 v8.10.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.121-2	8.11.0	8.10.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Removal of technical content in 34.121-2 v8.10.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.123-1	8.11.0	8.10.0	R5	UE conformance specification;Part 1: Protocol conformance specification	- Removal of technical content in 34.123-1 v8.10.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.123-2	8.11.0	8.10.0	R5	UE conformance specification;Part 2: ICS proforma specification	- Removal of technical content in 34.123-2 v8.10.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.123-3	8.6.0	8.5.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Some WI-114 test case were added. Others are corrections.
ARIB STD-T63-34.171	8.2.0	8.1.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency	- Removal of technical content in 34.171 v8.1.0 and substitution with pointer to the next Release (RP-100511)

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
				Division Duplex (FDD)	
ARIB STD-T63-34.229-1	8.6.0	8.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification	- Removal of technical content in 34.229-1 v8.5.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.229-2	8.6.0	8.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 2: Implementation Conformance Statement (ICS) specification	- Removal of technical content in 34.229-2 v8.5.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-34.229-3	8.4.0	8.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	- CR to 34.229-3 (prose) update to v840 (RP-100514) - Update IMS test model (RP-100511)
ARIB STD-T63-36.101	8.10.0	8.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corrections on the definition of PCMAX, UE coexistence requirement, transient time definition for EVM requirements, MIMO demodulation performance requirements, antenna configuration and beam-forming model for DRS, tables for Additional Spectrum Emission Mask, PDSCH demodulation requirements due to control channel errors, UE output power definition for RX tests, FRC for CQI index 0, Fading CQI requirements for TDD mode, CQI test configuration, UE Categories for CSI reporting test, CQI and PMI delay configuration description for TDD, Minimum requirements for Rank indicator reporting, FDD and TDD CSI test configurations are made.
ARIB STD-T63-36.104	8.10.0	8.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Corrections to the FRC for PUSCH 1.4M requirements, Clarification on narrowband blocking requirements and correction to spurious emissions limits and blocking requirements for coexistence with CDMA850 are made.
ARIB STD-T63-36.133	8.10.0	8.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corrections to RRM Test Cases, sections numbering on the test case of E-UTRAN FDD-FDD inter-frequency cell search requirements for L3 filtering, UE Measurement Capability

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					Requirements for CDMA2000 are made. Clarifications on radio link monitoring are made. Corrections to 36.133(Rel-8), TDD intrafrequency accuracy test case, value in E-UTRAN FDD and TDD Inter frequency RSRP tests and E-UTRAN Inter-frequency Cell Re-selection Requirements are made.
ARIB STD-T63-36.141	8.7.0	8.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corrections on spurious emissions limits and blocking requirements for coexistence with CDMA850 are made. Clarification on narrowband blocking requirements is made. Correction to the FRC for PUSCH 1.4M requirements is made.
ARIB STD-T63-36.306	8.7.0	8.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Correction on the definition of ue-SpecificRefSigsSupported
ARIB STD-T63-36.321	8.9.0	8.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Clarification on UE behaviour w.r.t DRX cycle change and onDurationTimer test (Procedural change) Processing of contention resolution message
ARIB STD-T63-36.322	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Correction of RLC VR(H) update
ARIB STD-T63-36.331	8.10.0	8.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Decoding of unknown future extensions Missing UTRA bands in IRAT-ParametersUTRA-FDD
ARIB STD-T63-36.401	8.8.0	8.7.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Handling of ETWS
ARIB STD-T63-36.410	8.3.0	8.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Clean-up of TS36.410 Handling of ETWS
ARIB STD-T63-36.413	8.10.0	8.9.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	E-UTRAN Trace ID Abnormal Conditions

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.508	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	- Removal of technical content in 36.508 v8.5.0 and substitution with pointer to the next Release (RP-100511)
ARIB STD-T63-36.521-1	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: conformance testing	- Removal of technical content in 36.521-1 v8.5.0 and substitution with pointer to the next Release (R5-103229)
ARIB STD-T63-36.521-2	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- Removal of technical content in 36.521-2 v8.4.0 and substitution with pointer to the next Release (R5-103229)
ARIB STD-T63-36.521-3	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	- Removal of technical content in 36.521-3 v8.3.0 and substitution with pointer to the next Release (R5-103229)
ARIB STD-T63-36.523-1	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- Removal of technical content in 36.523-1 v8.5.0 and substitution with pointer to the next Release (R5-103229)
ARIB STD-T63-36.523-2	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); User Equipment (UE) conformance specification; Part 2: ICS	- Removal of technical content in 36.523-2 v8.5.0 and substitution with pointer to the next Release (R5-103229)
ARIB STD-T63-36.523-3	8.3.0	8.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Many new WI 81 and WI 82 test cases and corrections. Baseline was upgraded to December-09 Rel8.

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.8.20		3GPP WG	Title	New Document Summary
ARIB STD-T63-37.113	9.0.0		R4	E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) Electromagnetic Compatibility (EMC)	(Not to be transposed)
ARIB STD-T63-37.141	9.0.0		R4	E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing	(Not to be transposed)

7.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-22.016	9.0.1	9.0.0	S1	International Mobile Equipment Identities (IMEI)	2010-04: correct history table
ARIB STD-T63-22.022	9.1.0	9.0.0	S1	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Correction of Reference
ARIB STD-T63-23.041	9.4.0	9.3.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Editor's note is removed, and text that most likely was intended as an editor's note is rephrased.
ARIB STD-T63-23.107	9.1.0	9.0.0	S2	Quality of Service (QoS) concept and architecture	The QoS parameters evolved ARP and APN-AMBR are added.
ARIB STD-T63-23.203	9.5.0	9.4.0	S2	Policy and charging control architecture	- Access Network Charging Correlation Information is added as a new event trigger over Gx. - Access Network Charging Correlation information is added as an event that the AF may instruct the PCRF to report. It is clarified that the PDN-GW provides interworking between EPC and Gn/Gp procedures when a UE is connected via Gn/Gp SGSN Removing obsolete editor's Notes from frozen specs. The GPRS specific Annex is updated regarding the control of the APN-AMBR. - The GPRS specific annex is updated to take Evolved ARP into account in the bearer binding. Subscribed Evolved ARP is also mentioned as an input parameter over Gx. - A note in the GTP-based EPC specific annex is updated to

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					clarify the difference when Evolved ARP is supported/not supported by the SGSN. Clarify that the set of traffic mapping information signalled with the UE shall be coherent with the PCC/QoS rules, while still allowing that PCC/QoS rules may further restrict what traffic is allowed. Make the requirement common for PCEF and BBERF.
ARIB STD-T63-25.A01	9.1.0	9.0.0	R4	The Low Power Repeaters for DS-CDMA/LTE	Introduced LTE repeater requirements.
ARIB STD-T63-25.101	9.4.0	9.3.0	R4	UE Radio transmission and reception (FDD)	Editorial correction of note in varying geometry testcases as made in V8.11.0 is made. Corrections of spurious emission requirements for DC-HSUPA in band XX, parameters for testing MIMO FRC H-Set11/11A are made. With regard to DC-MIMO-HSDPA, brackets on CQI Requirements are removed.
ARIB STD-T63-25.104	9.4.0	9.3.0	R4	Base Station (BS) radio transmission and reception (FDD)	Clarification on narrowband blocking requirements is made. Corrections of spurious emissions limits and blocking requirements for coexistence with CDMA850, the FRC for PUSCH 1.4M requirements are made. Clarification of applicability of requirements for multi-carrier BS is made. Correction of co-existence with services in adjacent frequency bands is made.
ARIB STD-T63-25.133	9.4.0	9.3.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V8.11.0 are made. iPhone NodeB test cases are introduced.
ARIB STD-T63-25.141	9.4.0	9.3.0	R4	Base Station (BS) conformance testing (FDD)	Clarification of applicability of requirements for multi-carrier BS is made. Corrections of blocking performance requirement when co-located with BS in other bands (Band 20), RACH message demodulation requirement definitions and co-existence requirements with services in adjacent frequency bands are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.301	9.2.0	9.1.0	R2	Radio Interface Protocol Architecture	Inconsistency in 'transparency' definition in 25.301 -Rel-9
ARIB STD-T63-25.304	9.2.0	9.1.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification of discontinuous reception for paging in enhanced CELL_FACH state for 1.28 Mcps TDD Corrections to cell reselection enhancements to E-UTRA CSG Cell Reselection testing Clarifications on cell reselection to a CSG cell
ARIB STD-T63-25.306	9.3.0	9.2.0	R2	UE Radio Access capabilities	Corrections to Inter-band measurement capability Support MAC-e-hs in Single Stream MIMO case
ARIB STD-T63-25.308	9.3.0	9.2.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Update to stage 2 description for DC-HSDPA with MIMO
ARIB STD-T63-25.319	9.4.0	9.3.0	R2	Enhanced uplink; Overall description; Stage 2	Corrections to CRC attachment entity in MAC-i/is Error correction on MAC-es PDU to MAC-is PDU
ARIB STD-T63-25.321	9.3.0	9.2.0	R2	MAC protocol specification	Clarification on HS-SCCH less operation when MAC-e-hs is configured Clarification on power offset selection in enhanced CELL_FACH for LCR TDD Correction to the description of scheduler in enhanced CELL_FACH for 1.28Mcps TDD Corrections to MAC-i/is Figure correction: UE side MAC architecture / MAC-is/i details (FDD) Scheduling Information transmission for Enhanced CELL_FACH Clarification of UE Id handling after collision resolution Clarification on the usage of Treset for 1.28 Mcps TDD Corrections to the usage of bit aligned TB size table of HS-DSCH for 1.28Mcps TDD Special MAC-hs and MAC-e-hs PDU for 1.28Mbps TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					Clarification to the TB size table of MIMO for 1.28Mcps TDD Correction to Mac headers in CELL FACH, CELL PCH and URA PCH Reordering entity for each configured Queue ID at UE
ARIB STD-T63-25.367	9.4.0	9.3.0	R2	Mobility Procedures for Home Node B; Overall description; Stage 2	Some corrections to 25.367
ARIB STD-T63-25.423	9.3.0	9.2.3	R3	UTRAN Iur interface RNSAP signalling	CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure Correction of procedure text that appears to be duplicated and mis-placed CQI Feedback Cycle k for DC-HSDPA and MIMO operation Correction when the power offset for S-CPICH for MIMO is zero Correction for Enhanced Serving Cell Change
ARIB STD-T63-25.433	9.3.0	9.2.0	R3	UTRAN Iub interface NBAP signalling	Correction to state transition of Enhanced CELL_FACH UE for LCR TDD Clarification on the usage of Treset for 1.28 Mcps TDD CPC parameters missing for serving HS-DSCH RL change in RL Addition procedure Correction of procedure text that appears to be duplicated and mis-placed CQI Feedback Cycle k for DC-HSDPA and MIMO operation Correction for IE Definition for HS-DSCH/E-DCH MAC PDU Size Capability Specify the HS-SCCH used for the BCCH specific H-RNTI at NBAP Correction for Enhanced Serving Cell Change
ARIB STD-T63-25.435	9.2.0	9.1.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of HS-DSCH DATA FRAME TYPE3

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-25.446	9.2.0	9.1.0	R3	MBMS synchronisation protocol(SYNC)	Correction to MBMS scheduling terminology
ARIB STD-T63-25.467	9.3.0	9.2.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Support of HNB GW functionalities Location information correction for Stage 2
ARIB STD T63-25.468	9.2.0	9.1.0	R3	UTRAN luh Interface RANAP User Adaption (RUA) signalling	Some Clarifications on RUA Direct Transfer
ARIB STD T63-25.469	9.2.0	9.1.0	R3	UTRAN luh interface Home Node B Application Part (HNBAP) signalling	UE Registration for Open and Hybrid cells
ARIB STD-T63-26.114	9.3.0	9.2.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction
ARIB STD-T63-26.234	9.3.0	9.2.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs
ARIB-STD-T63-26.237	9.3.0	9.2.0	S4	IMS based PSS and MBMS User Service; Protocols	IMS based PSS and MBMS User Service; Protocols
ARIB STD-T63-26.244	9.2.0	9.1.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)
ARIB STD-T63-26.267	9.1.0	9.0.0	S4	AeCall data transfer; In-band modem solution; General description	AeCall data transfer; In-band modem solution; General description

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-26.268	9.1.0	9.0.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	eCall data transfer; In-band modem solution; ANSI-C reference code
ARIB STD-T63-26.346	9.3.0	9.2.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs
ARIB STD-T63-27.007	9.4.0	9.3.0	C1	AT command set for 3G User Equipment (UE)	-Correction of unsolicited result codes for packet domain event reporting -+CGCONTRDP, alignment of with +CGTFT and +CGTFTRDP -Description of handling a request to disconnect when only connected to a single PDN -Support for +CGPADDR returning both IPv4 and IPv6 addresses -Clarification of relationship between CREG, CEREGR and CGREG -Removal of remaining [<pd1>[,...[<pdN>]]] in +CGDCONT Addition of missing parameter in +CNAP
ARIB STD-T63-31.101	9.1.0	9.0.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- TS Re-structuring
ARIB STD-T63-31.102	9.3.0	9.2.0	C6	Characteristics of the USIM Application	- ICE related procedure
ARIB STD-T63-31.103	9.0.1	9.0.0	C6	Characteristics of the ISIM Application	-repair damaged clause numbering
ARIB STD-T63-31.111	9.2.0	9.1.0	C6	USIM Application Toolkit (USAT)	- Correction to security requirement references - Update of the specification and of references to SCP specifications - Correction of TERMINAL RESPONSE

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-31.121	9.2.0	9.1.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction to applicability table - Essential correction of Unblock Universal PIN value description in 4.1.1.21 - Essential corrections on the initial conditions of E-UTRAN related test cases - Correction of inconsistent terminology for E-UTRAN-related elements
ARIB STD-T63-31.124	9.2.0	9.1.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction of table E.1 - Essential correction of 27.22.4.31.1 Seq. 1.5 - Introduction of Steering of Roaming test for E-UTRAN - Essential correction of 27.22.4.27.2 Seq 2.10 test case applicability - Essential correction of Table E.1 regarding Width reduction when in a menu - Correction to applicability table - Correction to TAC coding in Provide Local Information test - Network Search mode test - Event download, Network Search mode test
ARIB STD-T63-31.320	Withdrawn	9.0.0	C6	Contact Manager for 3GPP UICC applications test specifications	Withdrawn
ARIB STD-T63-31.321	Withdrawn	9.0.0	C6	Contact Manager API for Java™ Card test specification	Withdrawn
ARIB STD-T63-33.107	9.1.0	9.0.0	S3	3G security; Lawful interception architecture and functions	Correction in IMS Conference text
ARIB STD-T63-33.108	9.3.0	9.2.0	S3	3G security; Handover interface for Lawful Interception (LI)	ASN.1 Description of eps-sending-of-IRI Subdomain ID

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-33.203	9.4.0	9.3.0	S3	3G security; Access security for IP-based services	X.509 Certificate profile alignment Deprecation of SHA-1 and other changes to certificate and CRL profiles
ARIB STD-T63-33.210	9.1.0	9.0.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Correction of explanations of abbreviations CSCF and IKEvX
ARIB STD-T63-33.220	9.3.0	9.2.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Deprecation of SHA-1
ARIB STD-T63-33.221	9.1.0	9.0.0	S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Deprecation of SHA-1 and other changes to certificate and CRL profiles
ARIB STD-T63-33.222	9.1.0	9.0.0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Deprecation of SHA-1
ARIB STD-T63-33.234	9.2.0	9.1.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	Use of EAP Request/AKA Identity message Deprecation of SHA-1 and other changes to certificate, CRL and OCSP profiles
ARIB STD-T63-33.310	9.3.0	9.2.1	S3	Network domain security; Authentication framework (NDS/AF)	Correction of SEG CA and TLS client/server CA certificate profiles Deprecation of SHA-1 and other changes to certificate and CRL profiles
ARIB STD-T63-33.320	9.2.1	9.1.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	CR 33.320: Removal of location verification from MME/HeNB GW Addition of missing shut-down requirement on loss of backhaul connection Cleanup of unused references and abbreviations Correction to description of H(e)NB-GW Correction to access control mechanism for H(e)NB Sections 7.5.2.1 and 8.3.3.1 Editor's Note Resolution

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					Section 8.2.2 Editor's Note Resolution Section 4.1 Editor's Note Resolution Deprecation of SHA-1 and other changes to CRL and OCSP profiles Addition of missing trust relation requirement for CA issuing H(e)NB device certificate NOTE: SP-100427 erroneously indicates CR0028R2 on the cover sheet. Addition of Note in of CR history table to address wrong CR number in SP-100427
ARIB STD-T63-33.401	9.4.0	9.3.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	IMEI sending clarification Editorial Corrections Correction of text on emergency call handling Emergency Context Lifetime Clarifying the uplink NAS COUNT for derivation of KeNB Uplink and Downlink NAS COUNT increment for EIA0 Correction for Emergency Attach Correction of TAU procedure after IRAT Handover to E-UTRAN Correction on key sending in S1 HANDOVER REQUIRED message Correction of BEARER-ID to BEARER
ARIB STD-T63-33.402	9.4.0	9.3.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Addition of emergency call handling for non-3GPP access
ARIB STD-T63-34.108	9.1.0	9.0.0	R5	Common test environments for User Equipment (UE); Conformance testing	Changes related to LCR TDD, DC-HSDPA, ..etc.
ARIB STD-T63-34.121-1	9.1.0	9.0.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Band 20 test requirement additions and support for UMTS/LTE 800MHz for Europe. Other corrections and clarifications.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121-2	9.1.0	9.0.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Introduction of E-AI detection performance test case into TS 34.121-2 (RP-100519) - Including test cases 5.2C and 5.2D into TS 34.121-2 (RP-100507) - Support for UMTS/LTE 800 MHz for Europe in 34.121-2 (RP-100521)
ARIB STD-T63-34.123-1	9.1.0	9.0.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases for LCR TDD, DC-HSDPA, WLAN interworking, ..etc.
ARIB STD-T63-34.123-2	9.1.0	9.0.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1 changes.
ARIB STD-T63-34.229-1	9.1.0	9.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Update test cases and some corrections.
ARIB STD-T63-34.229-2	9.1.0	9.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	- Adding capabilities to TS 34.229-2 for VoLTE profile alignment (RP-100511)
ARIB STD-T63-36.101	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The following corrections aer made: - Corresponding changes in V8.10.0. - LTE MBMS performance requirements (FDD) - LTE MBMS performance requirements (TDD) - Performance requirements for dual-layer beamforming - Low Category CSI requirement - FRC reference and test case numbering - Carrier frequency and EARFCN of Band 21 for TS36.101

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					- Addition of PDSCH TDD DRS demodulation tests for Low UE categories - Specification of minimum performance requirements for low UE category - Addition of minimum performance requirements for low UE category TDD CRS single-antenna port tests - Introduction of sustained downlink data-rate performance requirements Band 20 Rx requirements
ARIB STD-T63-36.104	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Corresponding changes in V8.10.0 are made. Clarification of applicability of requirements for multi-carrier BS is made. Co-existence with services in adjacent frequency bands is corrected.
ARIB STD-T63-36.133	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The following corrections are made: - Corresponding changes in V8.10.0. - Absolute RSRP/RSRQ Definitions - E-UTRAN Inter-frequency Cell Re-selection Requirements - Idle mode requirements(Rel-9) - Editorial corrections to 36.133(Rel-9) - Correction to TDD intrafrequency accuracy test case - Io value in E-UTRAN FDD and TDD Inter frequency RSRP tests - CSG SI reading core requirement - RSRQ idle mode requirements - Test cases for R9 cell reselection enhancements - Missing E-UTRA - UTRA FDD DRX Requirements - Enhanced cell identification core requirement - Applicability of mobility requirements with inter-frequency RSTD measurements - UE Rx-Tx Time Difference Measurement Requirements for E-CID - UE RX-TX time-difference measurement requirement - RSTD Measurement Requirements for OTDOA RSTD Accuracy Requirements for OTDOA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.141	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corresponding changes in V8.7.0 are made. Clarification of applicability of requirements for multi-carrier BS is made. Co-existence with services in adjacent frequency bands is corrected.
ARIB STD-T63-36.171	9.1.0	9.0.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Assisted Global Navigation Satellite System (A-GNSS)	Corrections to signalling Information Elements in Annexes are made.
ARIB STD-T63-36.212	9.2.0	9.1.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Correct TBS determination for DCI format 1C.
ARIB STD-T63-36.213	9.2.0	9.1.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Clarification for TDD when ACK/NACK is transmitted together with SR or when ACK/NACK is transmitted together with either CQI/PMI or RI. Define the PRS EPRE constant across a PRS occasion.
ARIB STD-T63-36.214	9.2.0	9.1.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer - Measurements	Clarify RSTD measurement. Introduce additional descriptions to align with TS 36.355 and TS 36.455 for positioning purpose.
ARIB STD-T63-36.300	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CR to 36.300 for CSFB to 1xRTT Proposed CR to 36.322 on RLC re-establishment for MBMS Stage2 correction for HeNB inbound handover CR to 36.300 on MBMS terminology Add MOBILITY SETTINGS CHANGE Procedure to X2-CP Procedure section Introduction of trace functions and procedures in S1 sections of 36.300 (contact: Motorola) Correction of Synchronization Sequence (contact: Alcatel-Lucent Shanghai Bell, Alcatel-Lucent) Clarification of CSG / Hybrid cell definitions (contact: Ericsson) SON stage 2 clean up (contact: Samsung, Nokia Siemens Networks) Updating Stage-2 on R9 Automatic Neighbour Relation Function (contact: ETRI, Samsung) Adding of description in EUTRAN for IP Multicast (contact:

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					NEC) Correction of trace failure description in Stage 2 (contact: NEC, Motorola, Huawei) Correction of packet dropping (contact: Alcatel-Lucent Shanghai Bell, Alcatel-Lucent) Clarification of paging optimization (contact: Qualcomm)
ARIB STD-T63-36.302	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	Correction to RSRQ definition to align with TS 36.214
ARIB STD-T63-36.304	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification to cell reselection to E-UTRA enhancement
ARIB STD-T63-36.305	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Miscellaneous corrections to LPP stage 2 Correction on LPP session definition in LPP stage 2
ARIB STD-T63-36.306	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Clarification regarding / alignment of REL-9 UE capabilities Correction on the definition of ue-SpecificRefSigsSupported
ARIB STD-T63-36.314	9.1.0	9.0.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 2 - Measurements	Throughput Measurement
ARIB STD-T63-36.321	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Clarification on UE behaviour w.r.t DRX cycle change and onDurationTimer test (Procedural change) Correction to MBMS description Correction to PHR triggering Processing of contention resolution message
ARIB STD-T63-36.322	9.2.0	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Correction of RLC VR(H) update

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.331	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification for mapping between warning message and CB-data Clarification of radio link failure related actions Clarification on UE actions upon leaving RRC_CONNECTED Correction on CMAS system information Corrections to MBMS Decoding of unknown future extensions Miscellaneous small corrections and clarifications Prohibit timer for proximity indication RLF report for MRO correction Missing UTRA bands in IRAT-ParametersUTRA-FDD Correction on handling of dedicated RLF timers Protection of RRC messages Handling missing Essential system information Clarification on UMTS CSG detected cell reporting in LTE Introducing provisions for late corrections Clarification regarding / alignment of REL-9 UE capabilities
ARIB STD-T63-36.355	9.2.1	9.1.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Addition of need codes to optional LPP information elements Miscellaneous corrections to LPP stage 3 Small corrections to LPP specification Clarifications of OTDOA parameters Signalling support for PRS muting in OTDOA Two times capital R replaced by lower case r in "MeasuredResultsElement" (undoing not intended change)
ARIB STD-T63-36.401	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Handling of CMAS and ETWS Correction of support of eMBMS Updating the description of the Load Balancing and RIM functions
ARIB STD-T63-36.410	9.1.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Handling of CMAS and ETWS Clean-up of TS36.410
ARIB STD-T63-36.413	9.3.0	9.2.2	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	E-UTRAN Trace ID Abnormal Conditions Clarification on DTM and PS Handover Correction on UE Security Capability handling in UE Context Modification procedure

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
					Clarification on processing Extended Repetition Period IE List more apt cause in Interactions with E-RAB Management procedures section Missing ETWS action if Repetition period set to 0 Correction of shall to shall if supported Correction of no DTM support Correction of forbidden inter-RAT Rapporteur's update for S1AP protocol S1AP Transparent containers compatible maximum message size
ARIB STD-T63-36.423	9.3.0	9.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Correction of RLF INDICATION message Missing error cause for Not supported QCI on Handover Introduction of PLMN-related abnormal conditions during X2 handover in network sharing scenarios. Outcome of RAN3#68 review of X2AP Correction of forbidden inter-RAT
ARIB STD-T63-36.445	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	Correction and Completion of M1
ARIB STD-T63-36.455	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Clarification on E-CID MEASUREMENT INITIATION procedure Correction of signalling of E-UTRAN Access Point Position Addition of PRS Muting Configuration information to LPPa Access Point reporting for OTDOA
ARIB STD-T63-36.508	9.1.0	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Addition for WLAN test cell, DSMIPv6, Band 21, ..etc. Many corrections.
ARIB STD-T63-36.509	9.1.0	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	- Corrections and clarifications to TS 36.509 Rel-9 (R5-103164)

Revised Standard Number	Version at ARIB STD-T63 Ver.8.20	Version at ARIB STD-T63 Ver.8.10	3GPP WG	Title	Change Summary
ARIB STD-T63-36.521-1	9.1.0	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Many updates and corrections.
ARIB STD-T63-36.521-2	9.1.0	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- Adding band 20, 800MHZ in EU to TS36.521-2 (R5-103147) - Introduction of feature group indicator in applicability for RRM test cases (R5-103757)
ARIB STD-T63-36.521-3	9.1.0	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Addition of test tolerances and system uncertainties for FDD-FDD and TDD-TDD HO Some test cases were added. Many corrections.
ARIB STD-T63-36.523-1	9.1.1	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases for LTE-GSM InterRAT. (from GERAN) Many new test cases mainly in GCF P3 and P4 category. Many corrections and updates for existence test cases.
ARIB STD-T63-36.523-2	9.1.2	9.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes.

(Annex 41)

3GPP ARIB Change history List of Standards Ver. 8.30

28 March 2011

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

None

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

None

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

None

5. Release 7

5.1. Added Standards

None

5.2. Revised Standards

3GPP TSG #49 San Antonio, USA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	7.18.0	7.17.0	R4	UE Radio transmission and reception (FDD)	Corrections to CQI reporting requirements are made.
ARIB STD-T63-25.102	7.18.0	7.17.0	R4	UE Radio transmission and reception (TDD)	Correction of 1.28Mcps TDD spectrum emission mask requirement is made.
ARIB STD-T63-25.211	7.10.0	7.9.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify PICH/HS-SCCH timing relation.
ARIB STD-T63-25.214	7.16.0	7.15.0	R1	Physical layer procedures (FDD)	Clarify the CQI definition when the UE is configured in MIMO mode. Clarify HS-DSCH and HS-SCCH reception in CELL_FACH, CELL_PCH and URA_PCH states. Clarify E-AGCH/E-RGCH monitoring in a CM gap when DL_DRX_Active is TRUE.
ARIB STD-T63-25.302	7.9.0	7.8.0	R2	Services provided by the physical layer	Corrections to physical channel combinations for Enhanced CELL_FACH state for FDD
ARIB STD-T63-25.308	7.11.0	7.10.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Corrections to Enhanced CELL_FACH state for FDD

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	7.18.0	7.17.0	R2	MAC protocol specification	Corrections to Serving Grant Update procedure to support Absolute Grant value Zero_Grant State transition upon HS-DSCH reception in CELL_PCH state
ARIB STD-T63-31.111	7.15.0	7.14.0	C6	USIM Application Toolkit (USAT)	Reference update and restoration of the Terminal Profile's bytes with letter class

3GPP TSG #50 Istanbul, TURKEY

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.102	7.19.0	7.18.0	R4	UE Radio transmission and reception (TDD)	Introduction of new constant BLER test cases is made.
ARIB STD-T63-25.214	7.17.0	7.16.0	R1	Physical layer procedures (FDD)	Clarify "Number of PCCH transmissions". Clarify discontinuous uplink DPCCH transmission and compressed mode. Clarify E-AGCH/E-RGCH monitoring in CM gap when DL_DRX_Active is TRUE. Clarify E-DPCCH gain factor calculation in compressed mode. Correct the single stream CQI reporting in MIMO mode.
ARIB STD-T63-25.321	7.19.0	7.18.0	R2	MAC protocol specification	Clarification to the default SG in DTX Cycle 2 Correction to the IE name for determination of HS-DSCH retransmission number in Enhance CELL-FACH HARQ buffer upon H-RNTI switch in Enhanced CELL_FACH
ARIB STD-T63-26.114	7.13.0	7.12.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of AMR and AMR-WB codec mode adaptation in the beginning of the session

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.101	7.2.1	7.2.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: formatting of clause 13 header corrected
ARIB STD-T63-33.108	7.10.0	7.9.0	S3	3G security; Handover interface for Lawful Interception (LI)	Corrections to NEID and Serving System Report Message Required to meet US regulatory requirements Clarification added in the US Annex H on the requirement for UMTS LI Correlation Header (ULIC) version

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

3GPP TSG #49 San Antonio, USA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-23.203	8.11.0	8.10.0	S2	Policy and charging control architecture	Remove the reference to the proxy OCS which is not defined in 3GPP specifications.
ARIB STD-T63-25.101	8.12.0	8.11.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V7.18.0 is made.
ARIB STD-T63-25.104	8.11.0	8.10.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corrections on Home BS spurious emission limits for co-existence with Home BS operating in other bands
ARIB STD-T63-25.141	8.11.0	8.10.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding change in TS25.104(V8.11.0) and clarifications on Base Station transmit and receive configurations are made.
ARIB STD-T63-25.211	8.7.0	8.6.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify PICH/HS-SCCH timing relation.
ARIB STD-T63-25.214	8.10.0	8.9.0	R1	Physical layer procedures (FDD)	Clarify the CQI definition when the UE is configured in MIMO mode. Clarify HS-DSCH and HS-SCCH reception in CELL_FACH, CELL_PCH and URA_PCH states. Clarify E-AGCH/E-RGCH monitoring in a CM gap when DL_DRX_Active is TRUE.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.302	8.7.0	8.6.0	R2	Services provided by the physical layer	Corrections to physical channel combinations for Enhanced CELL_FACH state for FDD
ARIB STD-T63-25.304	8.11.0	8.10.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Triggering of absolute priority based reselection while common E-DCH allocated
ARIB STD-T63-25.306	8.10.0	8.9.0	R2	UE Radio Access capabilities	Clarification on the code rate restriction in HS-DSCH UE Categories 19
ARIB STD-T63-25.308	8.9.0	8.8.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Corrections to Enhanced CELL_FACH state for FDD
ARIB STD-T63-25.321	8.11.0	8.10.0	R2	MAC protocol specification	State transition upon HS-DSCH reception in CELL_PCH state
ARIB STD-T63-25.423	8.10.0	8.9.0	R3	UTRAN Iur interface RNSAP signalling	Clarification of 64 QAM usage at intra Node B serving HS-DSCH RL change Correction of procedure text for E-DCH SPS operation Addition of UE with enhanced HS-SCCH support indicator IE for Cell_FACH
ARIB STD-T63-25.433	8.10.0	8.9.0	R3	UTRAN Iub interface NBAP signalling	Incorrect message reference Clarification of 64 QAM usage at intra Node B serving HS-DSCH RL change Correction of procedure text for E-DCH SPS operation Corrections to the mismatch between tabular and ASN.1 for E-FACH 1.28Mcps TDD <i>Corrections to the range of Enabling Delay for CPC 1.28Mcps TDD</i>
ARIB STD-T63-25.435	8.6.0	8.5.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Addition of enhanced HS-SCCH support indicator in CELL_FACH HS-DSCH data transmission in enhanced CELL_FACH state and the relation to HS-DSCH physical layer category
ARIB-STD-T63-26.237	8.5.0	8.4.0	S4	IMS based PSS and MBMS User Service; Protocols	Correction on user service discovery is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.268	8.4.0	8.3.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of some errors in the eCall reference code and update of eCall test framework software to handle new in-band modem features are done.
ARIB STD-T63-26.269	8.2.0	8.1.0	S4	eCall data transfer; In-band modem solution; Conformance testing	Update of conformance testing reference sequences is done.
ARIB STD-T63-27.007	8.13.0	8.12.0	C1	AT command set for 3G User Equipment (UE)	-AT commands for eCall -Clarification of AcT parameter in CREG, CGREG and CERE
ARIB STD-T63-31.102	8.10.0	8.9.0	C6	Characteristics of the USIM Application	- Introduction of an ISIM EF to support Public Service Identity for SMS over IP - Update of reference to ETSI TS 102 483 Alignment of HNB and HeNB to the service requirements
ARIB STD-T63-31.103	8.3.0	8.2.0	C6	Characteristics of the ISIM Application	- Introduction of a DF_TELECOM EF to support Public Service Identity for SMS over IP
ARIB STD-T63-34.123-3	8.7.0	8.6.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	LCR TDD, WI-25, WI-70, WI-114, CS over HSPA test cases were added. Baseline upgrade of UTRA ATS to March-10 Rel-8
ARIB STD-T63-36.101	8.11.0	8.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The following changes (as either correction, clarification or introduction) are made: Reference sensitivity requirements for the 1.4 and 3 MHz bandwidths,,Band 13 and Band 14 spurious emission corrections, Missing note in Additional spurious emission test with NS_07, Downlink power for receiver tests, Correction of PDCCH content for PHICH test, Test configuration corrections to CQI reporting in AWGN, Throughput for multi-datastreams transmissions and Corrections to RF OCNG Pattern OP.1 and 2.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.133	8.11.0	8.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Introduction of RRC procedure delay requirements for UTRA to E-UTRA HO, Correction of UTRAN-E-UTRAN Cell Re-selection requirements, Introduction of unknown target cell search requirements for UTRA to E-UTRA HO test cases are made.
ARIB STD-T63-36.141	8.8.0	8.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Clarifications on Base Station transmit and receive configurations, Modification on testing of time mask of E-UTRA TDD base station in R8, Adding operating unwanted emissions test to tests applicable to Ancillary RF Amplifiers are made.
ARIB STD-T63-36.304	8.9.0	8.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Correct the PEMAX_H to PEMAX
ARIB STD-T63-36.307	8.1.0	8.0.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	LTE_TDD_2600_US spectrum band definition is introduced.
ARIB STD-T63-36.331	8.11.0	8.10.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Correction to 3GPP2 reference for interworking with cdma2000 1x Description of multi-user MIMO functionality in feature group indicator table Correct the PEMAX_H to PEMAX
ARIB STD-T63-36.523-3	8.4.0	8.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	- Addition of MMI command 'DISABLE EPS CAPABILITY' (R5-104197) - Add new verified and e-mail agreed TTCN test cases in the TC lists in 36.523-3 (prose), Annex A(RP-100826) Updated the lists of approved test cases for FDD and LCR TDD in Annex A to align with TTCN.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	8.13.0	8.12.0	R4	UE Radio transmission and reception (FDD)	Correction of the lower frequency limit for Band XII is made to channel arrangement, spurious emission limits and frequency ranges for blocking and Correction of Downlink Physical Channels is made to DC-HSDPA Tests.
ARIB STD-T63-25.104	8.12.0	8.11.0	R4	Base Station (BS) radio transmission and reception (FDD)	Correction of Band XII channel arrangement and Clarification of definition for time alignment error are made.
ARIB STD-T63-25.113	8.6.0	8.5.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Correction of Band XII channel arrangement is made and the definition of pass band for Repeaters is added.
ARIB STD-T63-25.133	8.12.0	8.11.0	R4	Requirements for support of radio resource management (FDD)	CSG inter-frequency and inter-RAT cell reselection requirements are introduced.
ARIB STD-T63-25.141	8.12.0	8.11.0	R4	Base Station (BS) conformance testing (FDD)	Correction of Band XII channel arrangement and Clarification of definition for time alignment error are made.
ARIB STD-T63-25.214	8.11.0	8.10.0	R1	Physical layer procedures (FDD)	Clarify "Number of PCCH transmissions". Clarify discontinuous uplink DPCH transmission and compressed mode. Clarify E-AGCH/E-RGCH monitoring in CM gap when DL_DRX_Active is TRUE. Clarify E-DPCH gain factor calculation in compressed mode. Correct the single stream CQI reporting in MIMO mode.
ARIB STD-T63-25.321	8.12.0	8.11.0	R2	MAC protocol specification	Clarification to the default SG in DTX Cycle 2 Correction in release of common E-DCH resources Correction to the IE name for determination of HS-DSCH retransmission number in Enhance CELL_FACH HARQ buffer upon H-RNTI switch in Enhanced CELL_FACH correction on equal priority in E-TFC selection for 1.28Mcps TDD
ARIB STD-T63-25.423	8.11.0	8.10.0	R3	UTRAN Iur interface RNSAP signalling	Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	8.11.0	8.10.0	R3	UTRAN lub interface NBAP signalling	Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD
ARIB STD-T63-25.467	8.6.0	8.5.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Correction on the Functional Split Table of MOC
ARIB STD-T63-26.114	8.7.0	8.6.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of AMR and AMR-WB codec mode adaptation in the beginning of the session is done.
ARIB STD-T63-26.267	8.5.0	8.4.0	S4	AeCall data transfer; In-band modem solution; General description	Correction of synchronization procedures in the eCall in-band modem and State machine corrections in the eCall in-band modem are done.
ARIB STD-T63-26.268	8.5.0	8.4.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	State machine corrections in the eCall in-band modem and Correction of the inversion detector are done.
ARIB STD-T63-26.269	8.3.0	8.2.0	S4	eCall data transfer; In-band modem solution; Conformance testing	Correction of eCall conformance test sequences is done.
ARIB STD-T63-27.010	8.1.0	8.0.0	C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	non-specific external references
ARIB STD-T63-31.101	8.2.1	8.2.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: formatting of clause 13 header corrected
ARIB STD-T63-31.102	8.11.0	8.10.0	C6	Characteristics of the USIM Application	Correction to Issuer specified PIN for ICE files Correction of EF_EPSNSC content description
ARIB STD-T63-31.111	8.10.0	8.9.0	C6	USIM Application Toolkit (USAT)	Reference update and restoration of the Terminal Profile's bytes with letter class Essential corrections to NMR and UTRAN/E-UTRAN Measurement Qualifier
ARIB STD-T63-33.107	8.11.0	8.10.0	S3	3G security; Lawful interception architecture and functions	IMSI based activation Corrections and Alignment for IMS Conferencing

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	8.12.0	8.11.0	S3	3G security; Handover interface for Lawful Interception (LI)	IMSI in event records Corrections to Serving System Report Message Required to meet US regulatory requirements Clarification added in the US Annex H on the requirement for UMTS LI Correlation Header (ULIC) version Corrections and Alignment for IMS Conferencing
ARIB STD-T63-34.123-3	8.8.0	8.7.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	WI-110 Enhanced Cell FACH test cases were added. WI-067 MiMo RAB test cases were added. Many corrections.
ARIB STD-T63-34.229-3	8.5.0	8.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	Routine maintenance of TS 34.229-3 (RP-101146)
ARIB STD-T63-36.101	8.12.0	8.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Correction on the statement of TB size and subband selection in CSI tests, Correction of Band 12 frequency range, Removal of square brackets from TDD Rank Indicator requirements, Corrections to Test configuration of CQI TDD reporting in AWGN, Correction of the PMI reporting in Multi-Layer Spatial Multiplexing performance test, Correction of Reference sensitivity QPSK PREFSENS, Definition of EVM window length for PRACH preamble, Removal of NS signalling from TDD REFSENS tests, are made.
ARIB STD-T63-36.104	8.11.0	8.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Correction of Band 12 channel arrangement and multi-user PUCCH test are made. And the definition for PUCCH format 2 performance is clarified.
ARIB STD-T63-36.113	8.3.0	8.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	Correction of Band 12 channel arrangement is made and the definition of pass band for Repeaters is added.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.124	8.2.0	8.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	Correction of Band 12 channel arrangement is made.
ARIB STD-T63-36.133	8.12.0	8.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Intra frequency cell identification time, Radio link monitoring test cases and Aggregation level for PDCCH RMC R.8 are corrected. MIMO correlation scenario for RLM test is clarified. HARQ retransmissions to the reference channels are added. Reselection from a non CSG to an inter-RAT CSG cell is introduced to complete CSG cell reselection requirements Removal of square brackets and Editorial corrections are made.
ARIB STD-T63-36.141	8.9.0	8.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Correction of Band 12 channel arrangement and multi-user PUCCH test are made. And the definition for PUCCH format 2 performance is clarified.
ARIB STD-T63-36.307	8.2.0	8.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Band 24(L-band), Band42 and 43 for UMTS/LTE 3500(TDD) are introduced.
ARIB STD-T63-36.331	8.12.0	8.11.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification on Meaning of FGI Bits Clarification regarding reconfiguration of the quantityConfig Clarification of FGI settings non ANR periodical measurement reporting (contact: NSN) Clarification regarding default configuration value N/A Restriction of AC barring parameter setting
ARIB STD-T63-36.523-3	8.5.0	8.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	WI-81, 82 test cases were added. LTE_TDD: WI-91, 92 test cases were added. Many corrections.

7. Release 9

7.1. Added Standards

None

7.2. Revised Standards

3GPP TSG #49 San Antonio, USA

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-22.071	9.1.0	9.0.0	S1	Location Services (LCS); Service description; Stage 1	Removal of references to 3GPP OSA
ARIB STD-T63-22.101	9.8.0	9.7.0	S1	Service aspects; Service principles	Removal of unfulfilled requirements
ARIB STD-T63-22.105	9.1.0	9.0.0	S1	Services & Service capabilities	Removal of references to 3GPP OSA
ARIB STD-T63-22.220	9.5.0	9.4.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Removal of requirement to inhibit Allowed CSG List
ARIB STD-T63-22.228	9.3.0	9.2.0	S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	Removal of references to 3GPP OSA
ARIB STD-T63-22.278	9.6.0	9.5.0	S1	Service requirements for the Evolved Packet System (EPS)	Removal of references to 3GPP OSA
ARIB STD-T63-23.040	9.3.0	9.2.0	C1	Technical realization of Short Message Service (SMS)	RP-OA modification in SMS Router
ARIB STD-T63-23.041	9.5.0	9.4.0	C1	Technical Realization of Cell Broadcast Service (CBS)	-Clarification of precedence for immediate display -Removal of CMAS reference to a ETWS capability
ARIB STD-T63-23.203	9.6.0	9.5.0	S2	Policy and charging control architecture	Remove the reference to the proxy OCS which is not defined in 3GPP specifications. Change misused "MS Info Change Reporting Action" IE to "CSG Information Reporting Action" IE .

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-23.228	9.4.0	9.3.0	S2	IP Multimedia Subsystem(IMS); Stage 2	It is mandated to place a distinct public user identity and a wildcarded identity set matching the same identity into the same implicit registration set. Added Mr' in relevant parts of the specification, and remove previously added change (session control) to Cr reference point. Update Figure 4.0. Update clause I.2.
ARIB STD-T63-25.101	9.5.0	9.4.0	R4	UE Radio transmission and reception (FDD)	Corresponding change in V9.12.0, Correction to Rx core requirements for DC-HSUPA, Clarification of primary uplink frequency and secondary uplink frequency are made.
ARIB STD-T63-25.104	9.5.0	9.4.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding change in V. 8.11.0 is made. Revision of Time Alignment Error requirement is made.
ARIB STD-T63-25.113	9.3.0	9.2.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	A note for clarification with regard to ETSI standard of radiated emissions requirement is introduced.
ARIB STD-T63-25.133	9.5.0	9.4.0	R4	Requirements for support of radio resource management (FDD)	Clarification of primary uplink frequency and secondary uplink frequency is made. Intrafrequency HNB test case is introduced.
ARIB STD-T63-25.141	9.5.0	9.4.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in V8.11.0 are made.
ARIB STD-T63-25.211	9.2.0	9.1.0	R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Clarify PICH/HS-SCCH timing relation.
ARIB STD-T63-25.212	9.3.0	9.2.0	R1	Multiplexing and channel coding (FDD)	Clarify the definitions of primary uplink frequency and secondary uplink frequency.
ARIB STD-T63-25.213	9.2.0	9.1.0	R1	Spreading and modulation (FDD)	Clarify the definitions of configured uplink frequency, primary uplink frequency and secondary uplink frequency.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.214	9.3.0	9.2.0	R1	Physical layer procedures (FDD)	Clarify the CQI definition when the UE is configured in MIMO mode. Clarify HS-DSCH and HS-SCCH reception in CELL_FACH, CELL_PCH and URA_PCH states. Clarify E-AGCH/E-RGCH monitoring in a CM gap when DL_DRX_Active is TRUE. Clarification on Secondary_EDCH_Cell_Active upon reception of redundant HS-SCCH order. Clarify the interruption time for DB-HSDPA due to HS-SCCH order (de)activation.
ARIB STD-T63-25.302	9.2.0	9.1.0	R2	Services provided by the physical layer	Corrections to physical channel combinations for Enhanced CELL_FACH state for FDD
ARIB STD-T63-25.304	9.3.0	9.2.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on CSG autonomous search Triggering of absolute priority based reselection while common E-DCH allocated Correction to EUTRA Qqualmin handling in reselection from UTRA
ARIB STD-T63-25.306	9.4.0	9.3.0	R2	UE Radio Access capabilities	Clarification on the code rate restriction in HS-DSCH UE Categories 19 Clarification on the code rate restriction in HS-DSCH UE Categories 25 and 27
ARIB STD-T63-25.308	9.4.0	9.3.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Corrections to Enhanced CELL_FACH state for FDD

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.321	9.4.0	9.3.0	R2	MAC protocol specification	Clarification of the TCTF field encoding for 3.84 Mcps TDD IMB MBSFN Clarification of primary uplink frequency and secondary uplink frequency Clarification on the DTX operation for DC-HSUPA Clarification to the CELL_DCH measurement occasion in MAC for 1.28Mcps TDD Corrections to Serving Grant Update procedure to support Absolute Grant value Zero_Grant Clarification on the use of timer T2 in Enhanced Uplink in CELL_FACH state and Idle mode for FDD Corrections for Enhanced Uplink in CELL_FACH state and idle mode State transition upon HS-DSCH reception in CELL_PCH state
ARIB STD-T63-25.420	9.1.0	9.0.0	R3	UTRAN Iur Interface: General Aspects and Principles	CS Data forwarding support for Iur interface
ARIB STD-T63-25.423	9.4.0	9.3.0	R3	UTRAN Iur interface RNSAP signalling	Clarification of 64 QAM usage at intra Node B serving HS-DSCH RL change Corrections to HSDPA secondary serving cell list handling Correction of procedure text for E-DCH SPS operation Addition of UE with enhanced HS-SCCH support indicator IE for Cell_FACH
ARIB STD-T63-25.433	9.4.0	9.3.0	R3	UTRAN Iub interface NBAP signalling	Best CELL Portions measurement report On Modification for 1.28Mcps TDD Correction of procedure text for E-DCH SPS operation Clarifications to the common measurement for 1.28Mcps TDD Corrections to the mismatch between tabular and ASN.1 for E-FACH 1.28Mcps TDD Corrections to the range of Enabling Delay for CPC 1.28Mcps TDD Corrections to HSDPA cell capability container

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.435	9.3.0	9.2.0	R3	UTRAN lub interface user plane protocols for Common Transport Channel data streams	Addition of enhanced HS-SCCH support indicator in CELL_FACH HS-DSCH data transmission in enhanced CELL_FACH state and the relation to HS-DSCH physical layer category
ARIB STD-T63-25.453	9.2.0	9.1.0	R3	UTRAN lupc interface Positioning Calculation Application Part (PCAP) signalling	DGANSS ASN.1 correction
ARIB STD T63-25.468	9.3.0	9.2.0	R3	UTRAN luh Interface RANAP User Adaption (RUA) signalling	Add missing cause value descriptions
ARIB STD T63-25.469	9.3.0	9.2.0	R3	UTRAN luh interface Home Node B Application Part (HNBAP) signalling	Add missing cause value descriptions
ARIB STD-T63-26.234	9.4.0	9.3.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections to 3GPP Adaptive HTTP Streaming, update to device capability profile, signalling of multiple content protection schemes for AHS, quality of Experience reporting corrections, essential correction of the backward compatibility for adaptive HTTP streaming and corrections in specification after replacement of Annex K by Annex R are done.
ARIB-STD-T63-26.237	9.4.0	9.3.0	S4	IMS based PSS and MBMS User Service; Protocols	Corrections to SDP attributes in UE-initiated MBMS session, removal of timer modification, clarifications for MBMS to PSS switching procedure and correction on User Service Discovery are done.
ARIB STD-T63-26.244	9.3.0	9.2.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Corrections for 3GP File Format to support Adaptive Streaming are done.
ARIB STD-T63-26.268	9.2.0	9.1.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of some errors in the eCall reference code is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-26.269	9.1.0	9.0.0	S4	eCall data transfer; In-band modem solution; Conformance testing	Update of conformance testing reference sequences is done.
ARIB STD-T63-26.346	9.4.0	9.3.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Update of conformance testing reference sequences is done.
ARIB STD-T63-27.007	9.5.0	9.4.0	C1	AT command set for 3G User Equipment (UE)	AT commands for eCall Clarification of AcT parameter in CREG, CGREG and CERE
ARIB STD-T63-31.102	9.4.0	9.3.0	C6	Characteristics of the USIM Application	- Introduction of an ISIM EF to support Public Service Identity for SMS over IP - Update of reference to ETSI TS 102 483 - Alignment of HNB and HeNB to the service requirements - Update reference to 3GPP2 specifications
ARIB STD-T63-31.103	9.1.0	9.0.1	C6	Characteristics of the ISIM Application	- Introduction of a DF_TELECOM EF to support Public Service Identity for SMS over IP
ARIB STD-T63-31.111	9.3.0	9.2.0	C6	USIM Application Toolkit (USAT)	- HNB name corrections
ARIB STD-T63-31.121	9.3.0	9.2.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Addition of CSG Type and Home NodeB Name display test - Essential corrections on E-UTRAN / EPC related test cases - Update of references
ARIB STD-T63-31.122	9.1.0	9.0.0	C6	USIM conformance test specification	- Essential correction of SET DATA, Delete Tag test case

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.124	9.3.0	9.2.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Essential correction to Open Channel 27.22.4.27.2 sequence 2.4 test - Update of references - Essential correction to test case applicability of letter class C features - Correction of 27.22.4.28.3. Seq 3.2 - Essential correction to SET UP CALL 27.22.4.13 sequence 1.1 - Addition of Access Technology change event download tests for E-UTRAN - Addition of Open Channel test related to E-UTRAN network - Addition of Call Control tests for E-UTRAN - Essential correction of test 27.22.4.9.3
ARIB STD-T63-33.102	9.3.0	9.2.0	S3	3G security; Security architecture	Derivation of the security context for CS domain because of SRVCC
ARIB STD-T63-33.107	9.2.0	9.1.0	S3	3G security; Lawful interception architecture and functions	Correction in IMS Conference Service X2 interface IMS Conference Service configuration for CC interception
ARIB STD-T63-33.108	9.4.0	9.3.0	S3	3G security; Handover interface for Lawful Interception (LI)	SCI correction IMS Conference Overview text modificatio
ARIB STD-T63-33.141	9.1.0	9.0.0	S3	Presence service; Security	Resolving editor's note on reference
ARIB STD-T63-33.203	9.5.0	9.4.0	S3	3G security; Access security for IP-based services	Correction of SIP digest credential wording in N.2.5

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.310	9.4.0	9.3.0	S3	Network domain security; Authentication framework (NDS/AF)	Correction about clause 9.5.1 and Annex G Correction of certificate profiles for vendor-provided base station certificates Correction to mandatory ciphersuites and compression method in TLS profile
ARIB STD-T63-33.320	9.3.0	9.2.1	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Certificate Renewal Clarification Correction of Authentication Call-flows in Annex A Adding missed abbreviation into TS33.320 and correction of heading of chapter 8.3 Corrections to the reference to OMA WAP OCSP profile Clarifying the access control for non-CSG case in HeNB Security aspects in H(e)NB mobility Certificate Renewal Clarification
ARIB STD-T63-33.401	9.5.0	9.4.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Corrections Emergency call corrections
ARIB STD-T63-33.402	9.5.0	9.4.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Adding reference to RFC5295
ARIB STD-T63-34.108	9.2.0	9.1.0	R5	Common test environments for User Equipment (UE); Conformance testing	Changes related to TDD, Enhanced CELL_FACH, DC-HSDPA, ..etc.
ARIB STD-T63-34.109	9.1.0	9.0.0	R2	Terminal logical test interface; Special conformance testing functions	Addition of RESET command for GNSS
ARIB STD-T63-34.121-1	9.2.0	9.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Addition of CQI fading test case for 64QAM UEs and other corrections/updates.
ARIB STD-T63-34.121-2	9.2.0	9.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes related to 34.121-1 changes

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-34.123-1	9.2.0	9.1.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of LCR TDD enhanced CELL_FACH test cases, UE-assisted A-GNSS test cases, ..etc. Many corrections.
ARIB STD-T63-34.123-2	9.2.0	9.1.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1 changes
ARIB STD-T63-34.229-1	9.2.0	9.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases for 15.X Communication Waiting, GIBA, ..etc.
ARIB STD-T63-34.229-2	9.2.0	9.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	- Introducing new MTSI test cases for CF and CW(RP-100985) - Add radio capabilities(RP-100986) - Update security scheme with GIBA(RP-100986) - Introducing new test cases for IMS emergency registration(RP-100838) ..etc.
ARIB STD-T63-36.101	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The following changes (as either correction, clarification or introduction) are made: Corresponding changes in V8.11.0, Adding OCNG to MBMS requirements, Beamforming model for transmission on antenna port 7/8, Correction of full correlation in frequency-selective CQI test, Correction on single-antenna transmission fixed reference channel, Down link sustained data rate test, Correction of references in section 10 (MBMS performance requirements), Rx Requirements, Clarification on DL-BF simulation assumptions, Introduction of additional Rel-9 scenarios, Correction to band 20 ue to ue Co-existence table, Corrections to RF OCNG Pattern OP.1 and 2, Editorial corrections of 36.101, Addition of minimum performance requirements for low UE category TDD tests, OCNG use and power in beamforming tests,

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.104	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	UL Timing Adjustment: Stationary UE propagation channel clarification is made.
ARIB STD-T63-36.113	9.2.0	9.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	A note for clarification with regard to ETSI standard of radiated emissions requirement is introduced.
ARIB STD-T63-36.133	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The following changes (as either correction, clarification or introduction) are made: Cell identity change time in RRM Test cases, A clarification text in the RSTD intra-frequency accuracy requirements, Correction of drx-RetransmissionTimer parameters, Correction of Io value in RSRP FDD and TDD Intra frequency test, Editorial corrections, Alignment of REFSENS between 36.101 and 36.133(R9) , Correction of Time to Trigger unit for 36.133(R9), Miscelineous corrections, E-UTRAN FDD Intra Frequency RSTD Measurement Accuracy test case, Correction to Enhanced BSIC Verification Requirements, Enhanced CSFB Requirements with DRX , Correction to E-CID Requirements, Addition of UTRA and GSM enhanced cell identification test cases, E-UTRAN FDD UE Rx – Tx Time Difference Measurement Accuracy test case, Scrambling code change time in RRM Test cases, Introduction of CSG cell reselection requirements, correction of redundant Hysteresis(Hys) , Test case for TDD UE Rx-Tx time difference measurement, Clarification of Radio link monitoring test cases, Test case for E-UTRA TDD event triggered reporting when L3 filtering is used in R9, E-UTRA TDD - UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority in R9, Test case for E-UTRAN TDD in the existence of non-allowed CSG cell, PDCCH Aggregation level for RRM tests, Correction of ES/lot value in E-UTRAN RSRQ FDD intra frequency test, Corrections to RRM OCNG Patterns, RRC timer accuracy requirement, Correction of OCNG

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.141	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Clarifications on Base Station transmit and receive configurations, UL Timing Adjustment: Stationary UE propagation channel clarification, Modification on testing of time mask of E-UTRA TDD base station in R9, Adding operating unwanted emissions test to tests applicable to Ancillary RF Amplifiers are made.
ARIB STD-T63-36.212	9.3.0	9.2.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Clarify soft buffer size determination.
ARIB STD-T63-36.213	9.3.0	9.2.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	Clarify that only Normal CP for downlink is supported in conjunction with transmission mode 8.
ARIB STD-T63-36.300	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	CSFB summary Keeping neighbouring eNBs up-to-date with complete list of served cells (contact: NSN) Description of Energy Saving mechanisms (contact: Ericsson) MBMS Session Update procedure (contact: Motorola) CS Fallback Indication and Handover Restriction List (contact: NEC)
ARIB STD-T63-36.304	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification on CSG autonomous search Clarifications Regarding Redirection from LTE Correct the PEMAX_H to PEMAX Clarification on the use of RSRQ for cell reselection towards GERAN or CDMA
ARIB STD-T63-36.305	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Corrections on LPP session identifier in Stage 2 Clarifications to LPP transferred information
ARIB STD-T63-36.306	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Clarification of MBMS UE capability

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.307	9.1.1	9.0.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Corresponding changes in V8.1.0,introduction of LTE_TDD_2600_US spectrum band definition is made. Correction of section numbering is made.
ARIB STD-T63-36.322	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification	Miscellaneous corrections to RLC
ARIB STD-T63-36.331	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Correction to 3GPP2 reference for interworking with cdma2000 1x Clarification on UL handover preparation transfer Clarifications regarding fullConfiguration Clarifications regarding handover to E-UTRAN Correction on the table of conditionally mandatory Release 9 features Corrections to TS36.331 on MeasConfig IE CR to 36.331 on clarification for MBMS PTM RBs Introduction of late corrections container for E-UTRA UE capabilities Renaming of containers for late non-critical extensions Clarifications Regarding Redirection from LTE Description of multi-user MIMO functionality in feature group indicator table Correct the PEMAX_H to PEMAX Clarification for feature group indicator bit 11 Clarification of FGI setting for inter-RAT features not supported by the UE FGI settings in Rel-9

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.335	9.3.0	9.2.1	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Addition of an EPDU to an LPP Error and LPP Abort Division of LPP into Separate ASN.1 Modules with a Global Identifier Proposed Corrections to LPP Reliable Transport Proposed Corrections to the PeriodicalReportingCriteria in LPP Various corrections and clarifications to LPP Support of functional components for LPP reliable transport Introduction of EPDU ID requested by OMA LOC Several corrections in LPP Clarification to Assistance Data Transfer Procedure
ARIB STD-T63-36.413	9.4.0	9.3.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Explicit PLMN coding in Trace IEs Cause value for UE context release during CSFB CS Fallback Indication and Handover Restriction List Correction of Repetition Period Notification of Location Reporting Failure Correction of UE AMBR Simultaneous Rekeying and CSFB Delete references to 23.041 in Tabular
ARIB STD-T63-36.423	9.4.0	9.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Explicit PLMN coding in Trace IEs The corrections for Last Visited Cell Information Handover Restriction List Complete list of served cells to be provided in X2 SETUP and eNB Configuration Update messages
ARIB STD-T63-36.443	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M2 Application Protocol (M2AP)	Alignment of tabulars to agreed notation for TS36.413 and TS36.423
ARIB STD-T63-36.444	9.2.0	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	MBMS Session Update procedure Alignment of tabulars to agreed notation for TS36.413 and TS36.423

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.455	9.3.0	9.2.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Rapporteur's update
ARIB STD-T63-36.508	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Mainly corrections and updates.
ARIB STD-T63-36.509	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	Addition of RESET command for LCS(R5-104118)
ARIB STD-T63-36.521-1	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Introduction of new test cases related to PUCCH-EVM, TDD CQI/RI Reporting, ..etc.
ARIB STD-T63-36.521-2	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- CR to 36.521-2 on Correction to cell search (R5-104246) - Addition of applicability for new RRM test cases(R5-104264) - Update of Applicability for Demodulation test cases and UE implementation Types for UTRA TDD(R5-104372) - Applicability of a new Rel-9 downlink sustained data rate performance test cases(R5-105056) ..etc.
ARIB STD-T63-36.521-3	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	New RRM test cases for E-UTRAN TDD – UTRAN FDD. Many other changes.
ARIB STD-T63-36.523-1	9.2.0	9.1.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases related to InterRAT cell selection/reselection, redirection, CS fallback, ..etc. Many corrections to existence test cases.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.523-2	9.2.0	9.1.2	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes

3GPP TSG #50 Istanbul, TURKEY

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-21.202	9.1.0	9.0.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Clarification of scope to indicate use of complete set of TSs/TRs is not obligatory in all IMS implementations
ARIB STD-T63-23.041	9.6.0	9.5.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction to CMAS Alert levels
ARIB STD-T63-23.203	9.7.0	9.6.0	S2	Policy and charging control architecture	The GGSN shall not bind PCC Rules with different Evolved ARP to the same PDP context. This will allow a modification of the PDP context to assign the Evolved ARP value without reevaluating the binding and the service assigned to the PDP context after relocation from a SGSN that does not support the Evolved ARP to a SGSN that supports the Evolved ARP.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.101	9.6.0	9.5.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in V8.13.0, Correction of the lower frequency limit for Band XII and Downlink Physical Channels are made. Relaxation of Maximum Output Power/Reference Sensitivity for DB-DC-HSDPA with bands II/IV combination and Clarification of carrier spacing for DC-HSDPA with MIMO are made.
ARIB STD-T63-25.104	9.6.0	9.5.0	R4	Base Station (BS) radio transmission and reception (FDD)	Corresponding changes in V8.12.0, Correction of Band XII channel arrangement is made.
ARIB STD-T63-25.113	9.4.0	9.3.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Corresponding changes in V8.6.0, Correction of Band XII channel arrangement and adding definition of pass band for Repeaters are made.
ARIB STD-T63-25.133	9.6.0	9.5.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes in V8.12.0, Introduction of CSG inter-frequency and inter-RAT cell reselection requirements are made.
ARIB STD-T63-25.141	9.6.0	9.5.0	R4	Base Station (BS) conformance testing (FDD)	Corresponding changes in V8.12.0, Correction of Band XII channel arrangement and Clarification of definition for time alignment error are made.
ARIB STD-T63-25.144	9.3.0	9.2.0	R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Introduction of TRP and TRS requirements for GSM 850, GSM 900, DCS 1800 and PCS 1900 are made.
ARIB STD-T63-25.212	9.4.0	9.3.0	R1	Multiplexing and channel coding (FDD)	Clarify HARQ-ACK encoding for DC-HSDPA with MIMO.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.214	9.4.0	9.3.0	R1	Physical layer procedures (FDD)	Clarify "Number of PCCH transmissions". Clarify discontinuous uplink DPCCH transmission and compressed mode. Clarify E-AGCH/E-RGCH monitoring in CM gap when DL_DRX_Active is TRUE. Clarify E-DPCCH gain factor calculation in compressed mode. Correct the single stream CQI reporting in MIMO mode. Correct number of received HS-DSCH in DC-HSDPA-MIMO.
ARIB STD-T63-25.306	9.5.0	9.4.0	R2	UE Radio Access capabilities	Correction for value range of total RLC AM, MAC-hs and MAC-ehs buffer size Introduction of REL-9 access stratum release indicator
ARIB STD-T63-25.321	9.5.0	9.4.0	R2	MAC protocol specification	Clarification to the default SG in DTX Cycle 2 Correction in release of common E-DCH resources Correction to the IE name for determination of HS-DSCH retransmission number in Enhance CELL-FACH HARQ buffer upon H-RNTI switch in Enhanced CELL_FACH correction on equal priority in E-TFC selection for 1.28Mcps TDD
ARIB STD-T63-25.367	9.5.0	9.4.0	R2	Mobility Procedures for Home Node B; Overall description; Stage 2	Correction to the limitation of SI acquisition
ARIB STD-T63-25.423	9.5.0	9.4.0	R3	UTRAN Iur interface RNSAP signalling	Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD Power Offset For S-CPICH for MIMO of secondary cell

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-25.433	9.5.0	9.4.0	R3	UTRAN Iub interface NBAP signalling	Adding abnormal conditions to Enhanced Cell/URA_PCH Corrections to E-DCH MAC-d Flow Multiplexing for 1.28Mcps TDD Correction of Inactivity Threshold for UE DRX Cycle for 1.28Mcps TDD Adaptive Special Burst Power for 1.28Mcps TDD
ARIB STD-T63-25.467	9.4.0	9.3.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	PPI value for SABP in Iuh Clarification on Inbound Mobility to HNB
ARIB STD-T63-26.114	9.4.0	9.3.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of AMR and AMR-WB codec mode adaptation in the beginning of the session and removal of ECN Nonce are carried out.
ARIB STD-T63-26.234	9.5.0	9.4.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Minor Bugfixes and Clarifications for Adaptive HTTP Streaming are done.
ARIB STD-T63-26.267	9.2.0	9.1.0	S4	eCall data transfer; In-band modem solution; General description	Correction of synchronization procedures in the eCall in-band modem and state machine corrections in the eCall in-band modem are done.
ARIB STD-T63-26.268	9.3.0	9.2.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of synchronization procedures in the eCall in-band modem state machine corrections in the eCall in-band modem and correction of the inversion detector are done.
ARIB STD-T63-26.269	9.2.0	9.1.0	S4	eCall data transfer; In-band modem solution; Conformance testing	Correction of eCall conformance test sequences is done.
ARIB STD-T63-27.007	9.6.0	9.5.0	C1	AT command set for 3G User Equipment (UE)	Correction of Table 8.58-1 for +CMTLRA +CGDCONT syntax

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-27.010	9.1.0	9.0.0	C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Correcting non-specific external references
ARIB STD-T63-31.101	9.1.1	9.1.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: formatting of clause 13 header corrected
ARIB STD-T63-31.102	9.5.0	9.4.0	C6	Characteristics of the USIM Application	- Correction to Issuer specified PIN for ICE files - Allocation of File ID for EF_ICE-graphics - ETSI SCP specification reference update - Correction of EF_EPSNSC content description -
ARIB STD-T63-31.111	9.4.0	9.3.0	C6	USIM Application Toolkit (USAT)	- Clarification on EVENT DOWNLOAD - CSG cell selection - Reference update and restoration of the Terminal Profile's bytes with letter class - Essential corrections to NMR and UTRAN/E-UTRAN Measurement Qualifier -
ARIB STD-T63-31.121	9.4.0	9.3.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Correction of incorrect Expected IMSI value in TC 5.1.8 acceptance criteria - Addition of LTE-related services to EF_UST in LTE test cases - Definition of E-UTRAN/EPC ISIM-UICC for ISIM related testing -
ARIB STD-T63-31.122	9.2.0	9.1.0	C6	USIM conformance test specification	- Correction to RETRIEVE DATA test sequence

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-31.124	9.4.0	9.3.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Addition of Provide local information test , discovery of surrounding CSG cell - Clarification of 'ELSE' parts in Table E.1 - Correction of TCP/UDP referencing errors in Table E.1 - LTE test cases - specifying that default E-UTRAN UICC should be used - Correction of SET UP CALL sequence 1.1 - Definition of E-UTRAN/EPC ISIM-UICC for ISIM related testing - Correction of references to non-existent data items in CLOSE CHANNEL(E-UTRAN/EPC) -
ARIB STD-T63-31.124	9.4.1	9.3.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Correction of errors in implementation of CR 234 (MCC).
ARIB STD-T63-31.130	9.2.0	9.1.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Spec reissued as v9.1.1 due to a bad version number on the cover sheet (9.1.1) - Update reference to "Java Card 3.0.1 Classic" reference
ARIB STD-T63-31.133	9.1.0	9.0.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	- Update reference to TS 102 241 v9.0.0 reference
ARIB STD-T63-31.221	9.1.0	9.0.0	C6	Contact Manager for 3GPP UICC applications - internal interface aspects	- Update reference to "Java Card 3.0.1 Classic" reference
ARIB STD-T63-33.102	9.4.0	9.3.0	S3	3G security; Security architecture	Authentication Failure Handling
ARIB STD-T63-33.107	9.3.0	9.2.0	S3	3G security; Lawful interception architecture and functions	IMSI based activation Corrections and Alignment for IMS Conferencing

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-33.108	9.5.0	9.4.0	S3	3G security; Handover interface for Lawful Interception (LI)	IMSI in event records Corrections to Serving System Report Message Required to meet US regulatory requirements Add a Reference to the ATIS LI VoIP specification for US regulatory requirements Clarification added in the US Annex H on the requirement for UMTS LI Correlation Header (ULIC) version Corrections and Alignment for IMS Conferencing
ARIB STD-T63-33.310	9.5.0	9.4.0	S3	Network domain security; Authentication framework (NDS/AF)	NDS corrections
ARIB STD-T63-33.320	9.4.0	9.3.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Certificate Renewal Clarification Correction of Figure A.2 H(e)NB correction (rel-9)
ARIB STD-T63-33.401	9.6.0	9.5.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Emergency call corrections Authentication Failure Handling Correction of algorithm selection Clarification for EIA0 selection during IRAT handover to EUTRAN
ARIB STD-T63-33.402	9.6.0	9.5.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction of reference draft-ietf-dime-mip6-split to point to RFC 5778
ARIB STD-T63-34.108	9.3.0	9.2.0	R5	Common test environments for User Equipment (UE); Conformance testing	Additions related to PPAC, LCR TDD two S-CCPCH or two PRACH, HS-DSCH. Other corrections.
ARIB STD-T63-34.121-1	9.3.0	9.2.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	- Adding Band XII, XIII, XIV operation info - Addition of cell mapping table to Type 3i test. and other corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-34.121-2	9.3.0	9.2.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Applicability change to TC 9.3.7A and 9.3.7B in TS 34.121-2 (R5-106415) - Update of applicability of legacy HSDPA performance test cases for UE HS-DSCH Physical Layer category 25 to 28 (R5-106838)
ARIB STD-T63-34.123-1	9.3.0	9.2.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases related to PPAC, ..etc. Many corrections.
ARIB STD-T63-34.123-2	9.3.1	9.2.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1
ARIB STD-T63-34.229-1	9.3.0	9.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases related to emergency call, barring while roaming, ..etc.
ARIB STD-T63-34.229-2	9.3.1	9.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Changes related to 34.22901
ARIB STD-T63-35.216	9.1.0	9.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	Correction of reference

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.101	9.6.0	9.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corresponding changes in V8.12.0, Correction on the statement of TB size and subband selection in CSI tests, Correction of Band 12 frequency range, Removal of square wave patterns from TDD Rank Indicator requirements, Corrections to Test configuration of CQI TDD reporting in AWGN, Correction of the PMI reporting in Multi-Layer Spatial Multiplexing performance test, Correction of Reference sensitivity QPSK PREFSENS, Definition of EVM window length for PRACH preamble, Removal of NS signalling from TDD REFSENS tests, are made. Demodulation performance requirements for dual-layer beamforming are introduced. 20RB Uplink Reference Measurement Channel, the antenna configuration in CQI test case, additional blocking case for Band 12 are added. And also Clarifications for the Sustained Downlink Data Rate Test and Correction on MBMS performance requirements are made.
ARIB STD-T63-36.104	9.6.0	9.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Corresponding changes in V8.11.0, Correction of Band 12 channel arrangement and multi-user PUCCH test and Clarification of definition for PUCCH format 2 performance are made. Clarification of the derivation of equaliser coefficients for EVM and editorial correction are made.
ARIB STD-T63-36.113	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	Corresponding changes in V8.3.0, Correction of Band 12 channel arrangement and adding definition of pass band for Repeaters are made.
ARIB STD-T63-36.124	9.2.0	9.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	Corresponding change in V8.2.0, Correction of Band 12 channel arrangement is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.133	9.6.0	9.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corresponding changes in V8.12.0, Correction of Intra frequency cell identification time, Corrections of Radio link monitoring test cases, Correction of Aggregation level for PDCCH RMC R.8, Clarification of MIMO correlation scenario for RLM test, Adding HARQ retransmissions to the reference channels, Introduction of Reselection from a non CSG to an inter-RAT CSG cell, Removal of square brackets and Editorial corrections, are made. E-UTRAN TDD Intra Frequency RSTD Measurement Accuracy test case, and E-UTRAN intra-frequency RSTD measurement reporting delay test case are introduced. Enhanced GSM Cell Identification Requirements, Enhanced UTRA FDD Cell Identification Requirements, Reselection requirement for UTRAN FDD cells, and Measurements of inter-RAT cells are corrected. Measurements requirements for HRPD and cdma2000 1x are clarified. Band 18, 19 and 21 into UE Rx - Tx time difference requirements are added.
ARIB STD-T63-36.141	9.6.0	9.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corresponding changes in V8.9.0, Correction of Band 12 channel arrangement and multi-user PUCCH test and Clarification of definition for PUCCH format 2 performance are made. Clarification of the derivation of equaliser coefficients for EVM and editorial correction are made.
ARIB STD-T63-36.300	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	36300_CRxxx_Handover for Hybrid Cells Correction on MAC padding on MCH
ARIB STD-T63-36.304	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Cell selection in case of redirection based CSFB procedure
ARIB STD-T63-36.305	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Alignment of LPPa descriptions to stage 3

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.307	9.2.0	9.1.1	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Corresponding changes in V8.2.0, Introduction of Band 24(L-band), Band42 and 43 for UMTS/LTE 3500(TDD) are made.
ARIB STD-T63-36.331	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification on Meaning of FGI Bits Clarification regarding reconfiguration of the quantityConfig Corrections to the presence of IE regarding DRX and CQI The field descriptions of MeasObjectEUTRA Clarification of FGI settings non ANR periodical measurement reporting Corrections to RLF Report T321 timer fix Restriction of AC barring parameter setting Removal of SEQUENCE OF SEQUENCE in UEInformationResponse Clarification regarding default configuration value N/A Splitting FGI bit 3
ARIB STD-T63-36.355	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Correction of reliable transport terminology in description of LPP-Message One cell with known SFN in OTDOA assistance data UE frequency capability for LPP Correction to LPP reliable transport Correction to LPP Error procedure Addition of missing reference to LPPe Correction to the OTDOA assistance data

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.413	9.5.1	9.4.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Handling of CDMA2000 HO Required Indication Correction of E-RAB Data Forwarding in HANDOVER COMMAND and DOWNLINK S1 CDMA2000 TUNNELING Clarification on Handover Restriction List Multiple PLMNs Selection in eNodeB for CS fallback Clarification on SRVCC procedure in case of PS handover failure Correction of GBR and MBR Clarification on the overload action only accepting emergency and MT sessions Editorial change: highlighting removed
ARIB STD-T63-36.423	9.5.0	9.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Clarification on Handover Restriction List Correction of semantics description
ARIB STD-T63-36.444	9.3.0	9.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	Correction of ASN1 in M3AP
ARIB STD-T63-36.455	9.4.0	9.3.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Object ID for LPPa modules
ARIB STD-T63-36.508	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Additon of test frequency for LTE-C2k interworking test cases, ..etc.
ARIB STD-T63-36.509	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	Correction to the section 5.4.2.3 of TS36.509 (R5-106154)
ARIB STD-T63-36.521-1	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Introduction of test uncertainties and tolerances for TDD, ..etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.8.30	Version at ARIB STD-T63 Ver.8.20	3GPP WG	Title	Change Summary
ARIB STD-T63-36.521-2	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	CR to 36.521-2: Update baseline implementation capabilities for EUTRA TDD LTE band 41 (R5-106118)
ARIB STD-T63-36.521-3	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Changes related to 36.521-1 changes and other corrections.
ARIB STD-T63-36.523-1	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Test cases were added to P3 and lower priority. Many corrections to P1-P4 test cases.
ARIB STD-T63-36.523-2	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes

(Annex 42)

3GPP ARIB Change history List of Standards Ver. 9.00

7 July 2011

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

None

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.102	5.15.0	5.14.0	R4	UE Radio transmission and reception (TDD)	Correction of Maximum Input Level Test for HS-PDSCH Transmission for 1.28Mcps TDD is made.

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.102	6.13.0	6.12.0	R4	UE Radio transmission and reception (TDD)	Corresponding change in V5.14.0 is made.

5. Release 7

5.1. Added Standards

None

5.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.102	7.20.0	7.19.0	R4	UE Radio transmission and reception (TDD)	Corresponding change in V6.13.0 with proper modification for release 7 is made. New DL power control TC, wind up effects for 1.28Mcps TDD is introduced.
25.123	7.13.0	7.12.0	R4	Requirements for support of radio resource management (TDD)	Modifications of inter-band handover for 1.28 Mcps TDD (Scenario 2 and 3) are made.
25.306	7.11.0	7.10.0	R2	UE Radio Access capabilities	Clarification to the carrier capability in Multi-Carrier HSDPA for 1.28Mcps TDD
25.308	7.12.0	7.11.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Stage 2 correction on the number of PCCH transmissions
31.111	7.16.0	7.15.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223
31.133	7.4.0	7.3.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	uicc.isim.access package version update
34.109	7.4.0	7.3.0	R2	Terminal logical test interface; Special conformance testing functions	Introduction of UE test loop mode 4 for testing of network initiated secondary PDP context

6. Release 8

6.1. Added Standards

None

6.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.101	8.14.0	8.13.0	R4	UE Radio transmission and reception (FDD)	Correction to Downlink Physical Channels in DC-HSDPA receiver sensitivity, Correction of UARFCN range for Band XII, Correction of Out of Band interferer frequency ranges for Band XII, modification of the UE relative code domain power accuracy are made.
25.133	8.13.0	8.12.0	R4	Requirements for support of radio resource management (FDD)	Corrections to Rel-8 UE RRM requirements to align with Rel-10 specification, Corrections to Cell identity change time and rearrangement of Time periods for UTRA-EUTRA reselection Test case A.4.5.1, are made.
25.141	8.13.0	8.12.0	R4	Base Station (BS) conformance testing (FDD)	Clarification of ambiguity in Test Model 5 is made.
25.306	8.11.0	8.10.0	R2	UE Radio Access capabilities	Correction of buffer sizes for 64QAM+MIMO, DC-HSDPA categories Clarification to the carrier capability in Multi-Carrier HSDPA for 1.28Mcps TDD
25.308	8.10.0	8.9.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Stage 2 correction on the number of PCCH transmissions

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.319	8.11.0	8.10.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification of 16QAM support for Enhanced Uplink in CELL_FACH state and Idle mode Correction to MAC-is PDU data structure
26.102	8.5.0	8.4.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Correction of reference for GSM-HR payload format was done.
26.103	8.2.0	8.1.0	S4	Speech codec list for GSM and UMTS	Correction of reference for GSM-HR payload format was done.
26.131	8.3.0	8.2.0	S4	Terminal acoustic characteristics for telephony; Requirements	Correction of WB send and receive distortion requirements was done.
26.267	8.6.0	8.5.0	S4	AeCall data transfer; In-band modem solution; General description	Correction of downlink message encoding table was done.
26.268	8.6.0	8.5.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of synchronization algorithm for the eCall in-band modem and Correction of signal inversion operation and callback message event set were done.
31.103	8.4.0	8.3.0	C6	Characteristics of the ISIM Application	Introduction of Data Download via SMS-PP service indication in EF IST
31.111	8.11.0	8.10.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223
31.133	8.2.0	8.1.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	uicc.isim.access package version update
33.107	8.12.0	8.11.0	S3	3G security; Lawful interception architecture and functions	Dual stack PDP address reporting from S4 SGSN IMS Conf LI 33.107

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
33.108	8.13.0	8.12.0	S3	3G security; Handover interface for Lawful Interception (LI)	IMSI in event record S4-SGSN address in the Serving System Report Mistake in the implementation of CR 0139 MME address in Serving System report PMIP parameters condition Reporting of Dual Stack PDP address from the S4 SGSN IMS Conf LI 33.108
34.109	8.1.0	8.0.0	R2	Terminal logical test interface; Special conformance testing functions	Introduction of UE test loop mode 4 for testing of network initiated secondary PDP context
34.123-3	8.9.0	8.8.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Addition of WI-104/WI-110/WI-114HSPA7_ENH test cases
34.229-3	8.6.0	8.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	-Mapping of some PIXIT parameters to ISIM EFs - 3 IMPU(RP-110165) -CR to 34.229-3 (prose) update to v860(RP-110169)
36.101	8.13.1	8.12.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	OCNG and power settings for PDCCH and PHICH performance, Spurious emissions measurement uncertainty, Power settings and precoding granularity for PMI performance are corrected. Clarification to LTE relative power tolerance table is made. As editorial change from V8.13.0 to V8.13.1, title of the specification is corrected as removing "Draft".

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.133	8.13.0	8.12.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Correction to E-UTRAN TDD in-sync test requirements, Modification on test case of E-UTRA TDD to UTRA TDD cell reselection(R8), Correction to value of MS_TXPWR_MAX_CCH for EUTRA-GSM reselection test cases A.4.4.x, Rearrangement of Time periods for EUTRA-UTRA reselection test case A.4.3.1.1, Removal of "Force to Cell 2" during initialisation for EUTRA-UTRA reselection test case A.4.3.1.2, correction to SNR for RRM A.8.x test cases using ETU70, Correction to test cases of E-UTRA to UTRA cell reselection when UE is in idle state, Modification on Test Requirements in E-UTRA - UTRA TDD SON Test Case (A.8.7.3) (R8), Correction of RLM evaluation period in DRX, Correction of inter-frequency measurement accuracy test cases, Modification on Test Requirements in E-UTRA GSM cell reselection Test Case (A.4.4) (R8) are made.
36.141	8.10.0	8.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Correction to Power off test tolerance and correction to Receiver spurious emissions reference correction are made.
36.331	8.13.0	8.12.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification of band indicator in handover from E-UTRAN to GERAN
36.401	8.8.0	8.8.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Changed ARIB -> TTC
36.410	8.3.0	8.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Changed ARIB -> TTC
36.411	8.1.0	8.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	Changed ARIB -> TTC
36.412	8.6.0	8.6.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Changed ARIB -> TTC

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.413	8.10.0	8.10.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Changed ARIB -> TTC
36.414	8.4.0	8.4.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Changed ARIB -> TTC
36.420	8.1.0	8.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	Changed ARIB -> TTC
36.421	8.0.0	8.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	Changed ARIB -> TTC
36.422	8.6.0	8.6.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Changed ARIB -> TTC
36.423	8.9.0	8.9.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Changed ARIB -> TTC
36.424	8.5.0	8.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	Changed ARIB -> TTC
36.509	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	-Corrections and clarifications to TS 36.509 Rel-8(R5-110221)
36.523-3	8.6.0	8.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of GCF WI-81/WI-82 and Priority3 test cases. Addition of GCF WI-91/WI-92 test cases.(LTE-TDD)

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.317	9.0.0		R2	Services provided by the physical layer	New created

7.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
21.101	9.0.1	9.0.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction of Release 8 to Release 9 in Scope clause
21.201	9.0.1	9.0.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Correction of Release 8 to Release 9 in Scope clause
22.220	9.6.0	9.5.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Hosting Party Identity Module
22.233	9.1.0	9.0.0	S1	Transparent end-to-end packet-switched streaming service; Stage1	Removal of the outdated reference to TS 21.133

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
23.203	9.8.0	9.7.0	S2	Policy and charging control architecture	When an IP-CAN bearer is deleted due to SRVCC the PCEF shall notify the PCRF and include a SRVCC cause. The PCRF shall also notify the AF when a service has been handed over the the CS domain. The race can then be solved in the P-CSCF.
25.101	9.7.0	9.6.0	R4	UE Radio transmission and reception (FDD)	Corresponding changes in V8.14.0 are made. Correction to DC-HSUPA Rx core requirements for DB-DC-HSDPA capable UEs, Correction to Tx core requirements for DB-DC-HSDPA for I/VIII and I/V band combinations, correction to DC-HSUPA Rx core requirements for band XI and band XXI, correction of out of band blocking for DB-DC-HSDPA configuration 3 (Rel-9), introduction of demodulation performance for DB-DC-HSDPA (rel-9), correction to Spurious Emission requirement extension due to EN spec change are made.
25.113	9.5.0	9.4.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Correction to applicability of EMC requirements is made.
25.133	9.7.0	9.6.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in V8.13.0 for Cell identity change tim and reselection test case in A.4.5.1 is made. Correction to Rel-9 UE RRM requirements for align with Rel-10 specification, correction of inter-frequency measurement accuracy test cases are made.
25.141	9.7.0	9.6.0	R4	Base Station (BS) conformance testing (FDD)	The corresponding change made in V8.13.0 is done.
25.214	9.5.0	9.4.0	R1	Physical layer procedures (FDD)	Correct CPC procedure for DC-HSUPA.
25.304	9.4.0	9.3.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	25.304 correction on manual CSG selection

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.306	9.6.0	9.5.0	R2	UE Radio Access capabilities	Correction of buffer sizes for 64QAM+MIMO, DC-HSDPA categories Clarification to the carrier capability in Multi-Carrier HSDPA for 1.28Mcps TDD
25.308	9.5.0	9.4.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Stage 2 correction on the number of PCCH transmissions
25.319	9.5.0	9.4.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification of 16QAM support for Enhanced Uplink in CELL_FACH state and Idle mode Correction to MAC-is PDU data structure
25.401	9.1.1	9.1.0	R3	UTRAN Overall Description	Clarification on the use of References (TS 21.801 CR#0030)
25.402	9.0.1	9.0.0	R3	Synchronisation in UTRAN Stage 2	Clarification on the use of References (TS 21.801 CR#0030)
25.420	9.1.1	9.1.0	R3	UTRAN Iur Interface: General Aspects and Principles	Clarification on the use of References (TS 21.801 CR#0030)
25.421	9.0.1	9.0.0	R3	UTRAN Iur interface Layer 1	Clarification on the use of References (TS 21.801 CR#0030)
25.422	9.0.1	9.0.0	R3	UTRAN Iur interface signalling transport	Clarification on the use of References (TS 21.801 CR#0030)
25.423	9.6.0	9.5.0	R3	UTRAN Iur interface RNSAP signalling	Clarification on the use of References (TS 21.801 CR#0030) Addition of Measurement Power Offset in ESCC procedure over Iur
25.424	9.0.1	9.0.0	R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030)

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.425	9.1.1	9.1.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.426	9.0.1	9.0.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.427	9.0.1	9.0.0	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.430	9.0.1	9.0.0	R3	UTRAN Iub Interface: General Aspects and Principles	Clarification on the use of References (TS 21.801 CR#0030)
25.431	9.0.1	9.0.0	R3	UTRAN Iub interface Layer 1	Clarification on the use of References (TS 21.801 CR#0030)
25.432	9.0.1	9.0.0	R3	UTRAN Iub interface signalling transport	Clarification on the use of References (TS 21.801 CR#0030)
25.433	9.6.0	9.5.0	R3	UTRAN Iub interface NBAP signalling	Clarification on the use of References (TS 21.801 CR#0030) Changed values for a sub-IE in "Common E-DCH Information for E-DCH" IE Inclusion of "Additional E-DCH Transmission Back Off" in "Common E-DCH Information"
25.434	9.0.1	9.0.0	R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.435	9.3.1	9.3.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.442	9.0.1	9.0.0	R3	UTRAN Implementation Specific O&M Transport	Clarification on the use of References (TS 21.801 CR#0030)
25.444	9.0.3	9.0.2	R3	Iuh data transport	Clarification on the use of References (TS 21.801 CR#0030)
25.446	9.2.1	9.2.0	R3	MBMS synchronisation protocol(SYNC)	Clarification on the use of References (TS 21.801 CR#0030)

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
25.450	9.0.1	9.0.0	R3	UTRAN Iupc interface general aspects and principles	Clarification on the use of References (TS 21.801 CR#0030)
25.452	9.0.1	9.0.0	R3	UTRAN Iupc interface signalling transport	Clarification on the use of References (TS 21.801 CR#0030)
25.453	9.2.1	9.2.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Clarification on the use of References (TS 21.801 CR#0030)
25.467	9.4.1	9.4.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Clarification on the use of References (TS 21.801 CR#0030)
26.102	9.2.0	9.1.0	S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Correction of reference for GSM-HR payload format was done.
26.103	9.1.0	9.0.0	S4	Speech codec list for GSM and UMTS	Correction of reference for GSM-HR payload format was done.
26.114	9.5.0	9.4.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Corrections for ECN for speech, Improved interoperability with non-MTSI AVP AMR clients, corrections related to MTSI gateway with split architecture, ECN corrections related to MTSI gateway with split architecture and correction of adaptation examples were done.
26.131	9.4.0	9.3.0	S4	Terminal acoustic characteristics for telephony; Requirements	Correction of WB receive distortion requirements was done.
26.234	9.6.0	9.5.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Removing repetition of the "sourceURL" attribute when segments are from the same file and other XML corrections, AHS Fixes for MPEG Alignment and secure transport over HTTP were done.
26.237	9.5.0	9.4.0	S4	IMS based PSS and MBMS User Service; Protocols	Modification of XML schema for nBookmark was done.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
26.244	9.4.0	9.3.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	AHS Fixes for MPEG Alignment (Segment Indexing) was done.
26.267	9.3.0	9.2.0	S4	AeCall data transfer; In-band modem solution; General description	Correction of downlink message encoding table was done.
26.268	9.4.0	9.3.0	S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Correction of synchronization algorithm for the eCall in-band modem was done.
26.346	9.4.1	9.4.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Inclusion of LTE logo was done.
31.102	9.6.0	9.5.0	C6	Characteristics of the USIM Application	CSG lists display Control
31.103	9.2.0	9.1.0	C6	Characteristics of the ISIM Application	Introduction of Data Download via SMS-PP service indication in EF IST
31.111	9.5.0	9.4.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223 Essential corrections to the CSG cell selection status event and command PROVIDE LOCAL INFORMATION related to CSG
31.121	9.5.0	9.4.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Split of test 8.2.1 for independent verification of correct 'Class 2 SM storage on the USIM' and 'SM memory capacity exceeded handling' support Introduction of ISIM related SMS tests Introduction of ISIM and USIM related SMS reading test Essential correction on TC 5.1.10

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
31.124	9.5.0	9.4.1	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Addition of Provide Local Information tests for multiple access technologies Introduction ISIM related SMS-PP Data Download tests Introduction ISIM related Send Short Message tests Optimization of SEND SMS test cases Optimization of SMS PP Download test case Introduction of Polling Off test for E-UTRAN Essential correction on BIP TCs for E-UTRAN/EPC
31.133	9.2.0	9.1.0	C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	uicc.isim.access package version update
33.107	9.4.0	9.3.0	S3	3G security; Lawful interception architecture and functions	Dual stack PDP address reporting from S4 SGSN IMS Conf LI 33.107
33.108	9.6.0	9.5.0	S3	3G security; Handover interface for Lawful Interception (LI)	IMSI in event record S4-SGSN address in the Serving System Report Mistake in the implementation of CR 0139 MME address in Serving System report PMIP parameters condition Reporting of Dual Stack PDP address from the S4 SGSN IMS Conf LI 33.108

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
33.320	9.5.0	9.4.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Correction of implementation error of S3-100612 [Rel-9]
34.108	9.4.0	9.3.0	R5	Common test environments for User Equipment (UE); Conformance testing	-Correction Physical channel parameters of downlink 128kbps PS RAB for LCR TDD in 34.108(RP-110153) -Correction UARFCN and Frequency of band e for LCR TDD in 34.108(RP-110153) -Reduce the channel code for HS-SCCH and HS-SICH, and adjust channel code of E-AGCH and E-HICH for LCR TDD BADIO BEARER SETUP(RP-110165) -Reduce the channel code for HS-SCCH and HS-SICH for LCRTDD SIB5(RP-110154) -Addition of comments for Rel-8 UE behaviour in section 7.2.4 (session setup)(RP-110165) -Update of the default RADIO BEARER SETUP message (FDD) for support of combination of DC-HSDPA with MIMO(RP-110177)
34.109	9.2.0	9.1.0	R2	Terminal logical test interface; Special conformance testing functions	Introduction of UE test loop mode 4 for testing of network initiated secondary PDP context
34.114	9.1.0	9.0.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	-OTA FDD Band 4 and 5 Mid Test Channel Change(RP-110166) -CR to 34.114 : Addition of the GSM OTA requirements and recommended values(RP-110166)
34.121-1	9.4.0	9.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Addition of MIMO Performance test case.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
34.121-2	9.4.0	9.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	-Correction to the conditions on C_RF28 and C_RF33 to include category 7 of HSUPA(RP-110155) -Clarification of CQI reporting requirement applicability(RP-110155) -Update to 34.121-2(RP-110177) -Change the reference document of item A.7/18 for "Support of F-DPCH".(RP-110155) -Applicability for features not supported in all supporter bands(RP-110155)
34.123-1	9.4.0	9.3.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases for PDP, CBS, DC-HSDPA, MIMO, ..etc.
34.123-2	9.4.0	9.3.1	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1 changes
34.171	9.1.0	9.0.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	-Clarification of Scope and ICS(RP-110173)
34.229-1	9.4.0	9.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Introducing emergency call related test cases.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
34.229-2	9.4.0	9.3.1	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Changes related to 34.229-1 changes
36.101	9.7.1	9.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corresponding changes in V8.13.1, Introducing UE-selected subband CQI tests, corrections to Minimum requirements for the additional Rel-9 scenarios, Corrections to power settings for Single layer beamforming with simultaneous transmission, Verification framework for PUSCH 2-2 and PUCCH 2-1 reporting, Removing the square bracket for TS36.101, Removal of square brackets for dual-layer beamforming demodulation performance requirements, correction to UE category coverage for dual-layer beamforming, clarifications for the Sustained Downlink Data Rate Test, Removal of square brackets in sustained data rate tests are made.
36.104	9.7.0	9.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Operating band unwanted emissions for Band 1, 33 and 34 is introduced.
36.113	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	Applicability of EMC requirements is corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.133	9.7.0	9.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corresponding changes made in V8.13.0 are made. RSTCorrection to RMC and OCNG patterns for D requirements, Modification on test case of E-UTRA TDD to UTRA TDD cell reselection(R9), Corrections to RSTD measurement for Rel-9, Addition of test cases for FDD intra-frequency SI reading using autonomous gaps with both non DRX and DRX for Rel-9, Addition of test cases for FDD inter-frequency SI reading using autonomous gaps with both non DRX and DRX for Rel-9, Modification on Test Requirements in E-UTRA - UTRA TDD SON Test Case (A.8.7.3) (R9), Correction to requirements for reporting criteria with positioning measurements, Correction of RLM evaluation period in DRX, Correction of inter-frequency measurement accuracy test cases, Modification on Test Requirements in E-UTRA GSM cell reselection Test Case (A.4.4) (R9), Correction on FDD Intra Frequency RSTD Measurement Accuracy test case, correctgions to RSTD test case, Correction of serving cell performance requirements for autonomous SI acquisition are made.
36.141	9.7.0	9.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Corresponding changes in V8.10.0 are made. Correction to Operating band unwanted emissions for Band 1, 33 and 34 (TS 36.141) is made.
36.171	9.2.0	9.1.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for Support of Assisted Global Navigation Satellite System (A-GNSS)	Addition of missing values and references is made.
36.300	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	Correction to usage of Handover Report for MRO Correction on MBMS Reset procedure CSFB to GERAN

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.302	9.3.0	9.2.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer	Corrections to TS36.302 on MBMS
36.304	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	correction on manual CSG selection
36.305	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Alignment of LPPa descriptions to Stage 3
36.331	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Presence condition for cellSelectionInfo-v920 in SIB1 Correction to cs-fallbackIndicator field description Clarification of band indicator in handover from E-UTRAN to GERAN Minor ASN.1 corrections for the UEInformationResponse message Small corrections to ETWS & CMAS system information Updates to FGI settings

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.355	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Editorial corrections to 36.355 Removal of FFS for retransmission timer in LPP Correction to code phase encoding in GNSS acquisition assistance Clarification on SFN provided with OTDOA measurement Small corrections in 36.355 Further corrections to the OTDOA assistance data
36.401	9.2.1	9.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	Changed ARIB -> TTC
36.410	9.1.1	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	Changed ARIB -> TTC
36.411	9.0.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	Changed ARIB -> TTC
36.412	9.1.1	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	Changed ARIB -> TTC
36.413	9.6.0	9.5.1	R3	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	Changed ARIB -> TTC
36.414	9.0.1	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	Changed ARIB -> TTC
36.420	9.0.1	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	Changed ARIB -> TTC

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.421	9.0.2	9.0.1	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	Changed ARIB -> TTC
36.422	9.1.1	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	Changed ARIB -> TTC
36.423	9.6.0	9.5.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	Changed ARIB -> TTC
36.424	9.0.1	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	Changed ARIB -> TTC
36.440	9.1.1	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); General aspects and principles for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Changed ARIB -> TTC
36.441	9.0.0	9.0.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 1 for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Changed ARIB -> TTC
36.442	9.1.1	9.1.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Signalling Transport for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	Changed ARIB -> TTC
36.443	9.3.0	9.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M2 Application Protocol (M2AP)	Changed ARIB -> TTC

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.444	9.4.0	9.3.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	Changed ARIB -> TTC
36.445	9.2.1	9.2.0	R3	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	Changed ARIB -> TTC
36.455	9.4.1	9.4.0	R3	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	Changed ARIB -> TTC
36.508	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Addition of message contents for CDMA2000, SMS over SGs, IMS, ..etc. Test frequencies for bands 42, 43 were also introduced.
36.521-1	9.4.1	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Addition of 3500MHz TDD bands. Other corrections.
36.521-2	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	-Defining new bands 42 and 43 (3500MHz)(R5-110536) -CR to 36.521-2: General update to add, remove, and correct applicability of RRM TCs(R5-110955)
36.521-3	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Changes related to 36.521-1 changes and other corrections.
36.523-1	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Some new test cases about InterRAT, emergency call, ..etc., were introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.00	Version at ARIB STD-T63 Ver.8.30	3GPP WG	Title	Change Summary
36.523-2	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes

8. Release 10

8.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
21.101	10.0.0		SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Automatic upgrade from previous Release version 9.0.0
21.111	10.0.0		C6	USIM and IC card requirements	Automatic upgrade from previous Release version 9.0.0
21.201	10.0.0		SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Automatic upgrade from previous Release version 9.0.0
21.202	10.0.0		SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Automatic upgrade from previous Release version 9.1.0
22.001	10.0.0		S1	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	Automatic upgrade from previous Release version 9.0.0
22.002	10.0.0		S1	Circuit Bearer Services Supported by a PLMN	Automatic upgrade from previous Release version 9.0.0
22.003	10.0.0		S1	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	Automatic upgrade from previous Release version 9.0.0
22.016	10.0.0		S1	International Mobile Equipment Identities (IMEI)	Automatic upgrade from previous Release version 9.0.1
22.022	10.0.0		S1	Personalization of Mobile Equipment (ME) Mobile Functionality Specification	Automatic upgrade from previous Release version 9.1.0
22.030	10.0.0		S1	Man-Machine Interface (MMI) of the User Equipment (UE)	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
22.031	10.0.0		S3	Fraud Information Gathering System (FIGS); Service description; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.032	10.0.0		S3	Immediate Service Termination (IST); Service description; Stage1	Automatic upgrade from previous Release version 9.0.0
22.034	10.0.0		S1	High Speed Circuit Switched Data (HSCSD) ; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.038	10.0.1		S1	USIM Application Toolkit (USAT/SAT);Service descrption; Stage 1	LTE logo changed into LTE Advanced logo
22.053	10.0.0		S4	Tandem Free Operation(TFO);Service description;Stage1	Automatic upgrade from previous Release version 9.0.0
22.057	10.0.0		S1	Mobile Execution Environment (MExE); Service descrption; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.067	10.0.0		S1	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) ; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.071	10.0.0		S1	Location Services (LCS); Service description; Stage 1	Automatic upgrade from previous Release version 9.1.0
22.076	10.0.0		S4	Noise Suppression for the AMR Codec; Service description; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.101	10.5.1		S1	Service aspects; Service principles	LTE logo changed into LTE Advanced logo
22.105	10.0.0		S1	Services & Service capabilities	Automatic upgrade from previous Release version 9.1.0
22.140	10.0.0		S1	Multimedia Messaging Service (MMS); Stage 1	Automatic upgrade from previous Release version 9.0.0
22.141	10.0.0		S1	Presence service; Stage 1	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
22.146	10.0.0		S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	Automatic upgrade from previous Release version 9.0.0
22.153	10.1.0		S1	Multimedia priority service	Priority for data bearer services
22.174	10.0.0		S1	Push service; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.182	10.0.0		S1	Customized Alerting Tones (CAT) Requirements; Stage 1	Automatic upgrade from previous Release version 9.2.0
22.220	10.6.0		S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Hosting Party Identity Module
22.228	10.4.1		S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	LTE logo changed into LTE Advanced logo
22.233	10.0.0		S1	Transparent end-to-end packet-switched streaming service; Stage1	Automatic upgrade from previous Release version 9.1.0
22.242	10.0.0		S1	Digital Rights Management (DRM); Stage 1	Automatic upgrade from previous Release version 9.0.0
22.246	10.0.0		S1	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	Automatic upgrade from previous Release version 9.0.0
22.259	10.0.0		S1	Service requirements for Personal Network Management (PNM); Stage 1	Automatic upgrade from previous Release version 9.2.0
22.268	10.0.0		S1	Public Warning System (PWS) requirements	Automatic upgrade from previous Release version 9.2.1
22.278	10.2.0		S1	Service requirements for the Evolved Packet System (EPS)	Removal of references to 3GPP OSA
22.368	10.4.0		S1	Service requirements for Machine-Type Communications (MTC); Stage 1	Clarification of EAB

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
23.035	10.0.0		S3	Immediate Service Termination (IST); Stage2	Automatic upgrade from previous Release version 9.0.0
23.038	10.0.0		C1	Alphabets and Language-specific information	Automatic upgrade from previous Release version 9.1.1
23.040	10.0.0		C1	Technical realization of Short Message Service (SMS)	MS recovery from SMS memory full situation
23.041	10.1.0		C1	Technical Realization of Cell Broadcast Service (CBS)	Correction to CMAS Alert levels
23.042	10.0.0		C1	Compression algorithm for SMS	Automatic upgrade from previous Release version 9.0.0
23.053	10.0.0		S4	Tandem Free Operation (TFO); Service description; Stage 2	Automatic upgrade from previous Release version 9.0.0
23.057	10.0.0		S2	Mobile Execution Environment (MexE) Functional description Stage 2	Automatic upgrade from previous Release version 9.0.0
23.107	10.0.0		S2	Quality of Service (QoS) concept and architecture	Automatic upgrade from previous Release version 9.1.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
23.203	10.3.0		S2	Policy and charging control architecture	When an IP-CAN bearer is deleted due to SRVCC the PCEF shall notify the PCRF and include a SRVCC cause. The PCRF shall also notify the AF when a service has been handed over to the CS domain. The race can then be solved in the P-CSCF. Clarified that if Gxx applies, once PCRF receives mobility routing rules from the PCEF, the PCRF must process such rules and install applicable QoS rules to the applicable BBERF Including the Sponsor Identities and list of applications per Application Service Provider as the subscription information of SPR If the PCRF notifies the event that threshold is reached, the AF determines whether usage monitoring continues for the sponsored data connectivity. If desired, the AF provides new threshold values in the response to the PCRF. If the AF determines not to continue usage monitoring for the sponsored data connectivity, the AF does not provide a new threshold in the response to the PCRF Introduce a new indicator that is used for PCEF to notify Maximum MBR/APN-AMBR to the PCRF, thus allowing PCRF to authorize acceptable rates for the UE.
23.204	10.2.0		S2	Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2	Note in 6.1 is corrected to indicate that pre-configured IP-SM-GW may not exist. Note in 6.3 deleted.
23.207	10.0.0		S2	End to end quality of service (QoS) concept and architecture	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
23.228	10.4.0		S2	IP Multimedia Subsystem(IMS); Stage 2	Correction of clause 5.6.5.1 with regard to the use of this terminology Aligns SA2 specification with SA1 and SA5, clarifying that IARI is provided over the charging related interfaces. Modification of Note in I.3.3.1 to make it specific to proactive transcoding.
23.236	10.2.1		S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	Update of LTE logo to LTE-Advanced logo.
25.101	10.1.0		R4	UE Radio transmission and reception (FDD)	Release 10 version was created based on V9.6.0. Since then, Introduction of frequency bands for 4C-HSDPA, introduction of Tx Core Requirements for DB-DC-HSDPA and dual band 4C-HSDPA with bands II/IV combination, introduction of Rx core requirements for 4C-HSDPA, Introduction of protection requirements of E-UTRA Band 24 etc. have been made.
25.104	10.1.0		R4	Base Station (BS) radio transmission and reception (FDD)	Release 10 version was created based on V9.6.0. Since then, introduction of New band combinations for DB-DC-HSDPA etc. have been made.
25.111	10.0.0		R4	Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN	Automatic upgrade from previous Release version 9.0.0
25.113	10.0.0		R4	Base station and Repeater electromagnetic compatibility (EMC)	Automatic upgrade from previous Release version 9.5.0
25.133	10.1.0		R4	Requirements for support of radio resource management (FDD)	Release 10 version was created based on V9.6.0. Since then, in addition to the necessary changes corresponds to the changes in previous releases and introduction of requirements for Minimization of Drive Tests (MDT) in UMTS etc. have been made.

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.141	10.1.0		R4	Base Station (BS) conformance testing (FDD)	Release 10 version was created based on V9.6.0. Since then, in addition to the corresponding changes made in the previous releases, introduction of frequency bands for 4C-HSDPA, Revision of Time Alignment Error requirement testing, correction of protection requirements of E-UTRA Band 24, introduction of DB-DC-HSDPA: New band combinations etc. have been made.
25.144	10.0.0		R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Automatic upgrade from previous Release version 9.3.0
25.171	10.0.0		R4	Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Automatic upgrade from previous Release version 9.0.0
25.172	10.2.0		R4	Requirements for support of Assisted Galileo and Additional Navigation Satellite Systems (A-GANSS) Frequency Division Duplex (FDD)	This specification establishes the minimum performance requirements for A-GANSS for FDD mode of UTRA for the User Equipment (UE) that supports A-GANSS. It includes the minimum performance requirements for both UE based and UE assisted A GANSS. The minimum performance requirements also include combinations of A-GPS and A-GANSS.
25.201	10.0.0		R1	Physical layer -General Description	Automatic upgrade from previous Release version 9.0.0
25.211	10.0.0		R1	Physical channels and mapping of transport channels onto physical channels (FDD)	Introduction of 4C-HSDPA.
25.212	10.1.0		R1	Multiplexing and channel coding (FDD)	Introduction of 4C-HSDPA.
25.213	10.0.0		R1	Spreading and modulation (FDD)	Introduction of 4C-HSDPA.
25.214	10.2.0		R1	Physical layer procedures (FDD)	Introduction of 4C-HSDPA.
25.215	10.0.0		R1	Physical layer; Measurements (FDD)	Automatic upgrade from previous Release version 9.2.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.301	10.0.0		R2	Radio Interface Protocol Architecture	Automatic upgrade from previous Release version 9.2.0
25.302	10.1.0		R2	Services provided by the physical layer	Introduction of MC-HSUPA for 1.28Mcps TDD Introduction of 4C-HSDPA definitions
25.303	10.0.0		R2	Inter-layer Procedures in Connected Mode	Automatic upgrade from previous Release version 9.0.0
25.304	10.0.0		R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Introduction of Minimization of Drive Tests
25.305	10.0.0		R2	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	Support of RF Pattern Matching in UTRAN
25.306	10.2.0		R2	UE Radio Access capabilities	Correction of buffer sizes for 64QAM+MIMO, DC-HSDPA categories Extend the carrier capability for Multi-Carrier HSDPA for 1.28Mcps TDD Clarification to the carrier capability in Multi-Carrier HSDPA for 1.28Mcps TDD Counter proposal to R2-110749 on UE capabilities for MDT Combination of DB-HSDPA and MIMO
25.307	10.0.0		R2	Requirements on UE supporting a release-independent frequency band	Automatic upgrade from previous Release version 9.2.0
25.308	10.4.0		R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Stage 2 correction on the number of PCCH transmissions Combination of DB-HSDPA and MIMO

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.317	10.0.0		R2	Services provided by the physical layer	Automatic upgrade from previous Release version 9.0.0
25.319	10.4.0		R2	Enhanced uplink; Overall description; Stage 2	Clarification of 16QAM support for Enhanced Uplink in CELL_FACH state and Idle mode Correction of MAC architecture for Multi-Carrier E-DCH of 1.28 Mcps TDD Correction to MAC-is PDU data structure
25.321	10.2.0		R2	MAC protocol specification	Correction of MAC architecture for Multi-Carrier E-DCH of 1.28 Mcps TDD
25.367	10.0.0		R2	Mobility Procedures for Home Node B; Overall description; Stage 2	Automatic upgrade from previous Release version 9.5.0
25.401	10.1.0		R3	UTRAN Overall Description	Clarification on the use of References (TS 21.801 CR#0030) Support for MDT
25.402	10.0.0		R3	Synchronisation in UTRAN Stage 2	Automatic upgrade from previous Release version 9.0.0
25.420	10.0.0		R3	UTRAN Iur Interface: General Aspects and Principles	Automatic upgrade from previous Release version 9.1.0
25.421	10.0.0		R3	UTRAN Iur interface Layer 1	Automatic upgrade from previous Release version 9.0.0
25.422	10.0.0		R3	UTRAN Iur interface signalling transport	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.423	10.2.0		R3	UTRAN Iur interface RNSAP signalling	Clarification on the use of References (TS 21.801 CR#0030) Addition of Measurement Power Offset in ESCC procedure over Iur Addition of Multi-Carrier E-DCH capability IEs for MC-HSUPA to RNSAP Correction related to "Power Offset For S-CPICH for MIMO" Correction of SNPL carrier group indicator for 1.28 Mcps TDD Multi-Carrier E-DCH Battery optimization - tabular/ASN.1 mismatch cleanup Introduction of MDT Extension of maximum number neighbouring RNCs
25.424	10.0.0		R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Automatic upgrade from previous Release version 9.0.0
25.425	10.0.1		R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.426	10.0.0		R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Automatic upgrade from previous Release version 9.0.0
25.427	10.0.1		R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Clarification on the use of References (TS 21.801 CR#0030)
25.430	10.0.0		R3	UTRAN Iub Interface: General Aspects and Principles	Automatic upgrade from previous Release version 9.0.0
25.431	10.0.0		R3	UTRAN Iub interface Layer 1	Automatic upgrade from previous Release version 9.0.0
25.432	10.0.0		R3	UTRAN Iub interface signalling transport	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.433	10.2.0		R3	UTRAN Iub interface NBAP signalling	Clarification on the use of References (TS 21.801 CR#0030) Correction of Extended E-HICH ID TDD for 1.28 Mcps TDD Multi-Carrier E-DCH Changed values for a sub-IE in "Common E-DCH Information for E-DCH" IE Addition of Multi-Carrier E-DCH capability IEs for MC-HSUPA to NBAP Correction of SNPL carrier group indicator for 1.28 Mcps TDD Multi-Carrier E-DCH Battery optimization - tabular/ASN.1 mismatch cleanup Introduction of Common H-RNTI List for Common HS-DSCH SRB1 Transmission Inclusion of "Additional E-DCH Transmission Back Off" in "Common E-DCH Information" Add T312 and N312 for 1.28Mcps TDD Introduction of independent HSUPA schedule based on cell portion Addition of CLASS 1 procedure for Common E-DCH resource release Corrections on HS-DSCH Transmission without UE category
25.434	10.0.0		R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Automatic upgrade from previous Release version 9.0.0
25.435	10.1.0		R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Clarification on the use of References (TS 21.801 CR#0030) Correction of propagation delay handling for E-DCH Data Frame
25.442	10.0.0		R3	UTRAN Implementation Specific O&M Transport	Automatic upgrade from previous Release version 9.0.0
25.444	10.0.0		R3	Iuh data transport	Automatic upgrade from previous Release version 9.0.2

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
25.446	10.0.0		R3	MBMS synchronisation protocol(SYNC)	Automatic upgrade from previous Release version 9.2.0
25.450	10.0.0		R3	UTRAN Iupc interface general aspects and principles	Automatic upgrade from previous Release version 9.0.0
25.451	10.0.0		R3	UTRAN Iupc interface layer1	Automatic upgrade from previous Release version 9.0.0
25.452	10.0.0		R3	UTRAN Iupc interface signalling transport	Automatic upgrade from previous Release version 9.0.0
25.453	10.2.0		R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	Clarification on the use of References (TS 21.801 CR#0030) PCAP ASN.1 Cleanup Adding of IMSI and IMEI to PERFORM LOCATION REQUEST message
25.467	10.1.0		R3	UTRAN architecture for 3G Home NodeB; Stage 2	Clarification on the use of References (TS 21.801 CR#0030) Correction on UE De-Registration for Enhanced H2H Mobility Completion of LIPA feature Correction to definition of HNB enhanced mobility
25.468	10.0.0		R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Clarification on the use of References (TS 21.801 CR#0030) RUA Connect Message for Enhanced H2H Mobility
25.469	10.0.0		R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Clarification on the use of References (TS 21.801 CR#0030) Correct definition of Cell-ID Additional messages to support direct HNB-HNB HO in HNBAP Identifying the Cell Identity
26.071	10.0.0		S4	AMR speech Codec; General description	Automatic upgrade from previous Release version 9.0.0
26.073	10.0.0		S4	AMR speech Codec; C-source code	Automatic upgrade from previous Release version 9.0.0
26.074	10.0.0		S4	AMR speech Codec; Test sequences	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.077	10.0.0		S4	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	Automatic upgrade from previous Release version 9.0.0
26.090	10.0.0		S4	AMR speech Codec; Transcoding Functions	Automatic upgrade from previous Release version 9.0.0
26.091	10.0.0		S4	AMR speech Codec; Error concealment of lost frames	Automatic upgrade from previous Release version 9.0.0
26.092	10.0.0		S4	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	Automatic upgrade from previous Release version 9.0.0
26.093	10.0.0		S4	Mandatory speech codec speech processing functions;AMR speech Codec; Source Controlled Rate operation	Automatic upgrade from previous Release version 9.0.0
26.094	10.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	Automatic upgrade from previous Release version 9.0.0
26.101	10.0.0		S4	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	Automatic upgrade from previous Release version 9.0.0
26.102	10.0.0		S4	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	Automatic upgrade from previous Release version 9.2.0
26.103	10.0.0		S4	Speech codec list for GSM and UMTS	Automatic upgrade from previous Release version 9.1.0
26.104	10.0.0		S4	ANSI-C code for the floating-point AMR speech codec	Automatic upgrade from previous Release version 9.0.0
26.110	10.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; General Description	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.111	10.0.0		S4	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	Automatic upgrade from previous Release version 9.0.0
26.114	10.0.0		S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Video Adaptation Parameters for ECN, introduction of ECN for speech in HSPA/UTRA and for video in UTRA/HSPA/E-UTRA, QoS profiles for MBR>GBR bearers and Video coding enhancements in MTSI were done.
26.115	10.0.0		S4	Echo Control for Speech and Multi-media Services	Automatic upgrade from previous Release version 9.0.0
26.131	10.1.0		S4	Terminal acoustic characteristics for telephony; Requirements	Alignment of 3GPP Audio Test Requirements and correction of WB receive distortion requirements were done.
26.132	10.0.0		S4	Speech and video telephony terminal acoustic test specification	Alignment of 3GPP Audio Test Case Specification was done.
26.140	10.0.0		S4	Multimedia Messaging Service (MMS); Media formats and codes	Automatic upgrade from previous Release version 9.0.0
26.141	10.0.0		S4	IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs	Automatic upgrade from previous Release version 9.0.0
26.142	10.0.0		S4	Dynamic and Interactive Multimedia Scenes (DIMS)	Automatic upgrade from previous Release version 9.0.0
26.150	10.0.0		S4	Syndicated Feed Reception (SFR) within 3GPP environments; Protocols and codecs	Automatic upgrade from previous Release version 9.1.0
26.171	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	Automatic upgrade from previous Release version 9.0.0
26.173	10.0.0		S4	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.174	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	Automatic upgrade from previous Release version 9.0.0
26.177	10.0.0		S4	Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences	Automatic upgrade from previous Release version 9.0.0
26.190	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	Automatic upgrade from previous Release version 9.0.0
26.191	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	Automatic upgrade from previous Release version 9.0.0
26.192	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	Automatic upgrade from previous Release version 9.0.0
26.193	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	Automatic upgrade from previous Release version 9.0.0
26.194	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	Automatic upgrade from previous Release version 9.0.0
26.201	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	Automatic upgrade from previous Release version 9.0.0
26.202	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to lu, Uu and Nb	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.204	10.0.0		S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	Automatic upgrade from previous Release version 9.0.0
26.226	10.0.0		S4	Cellular Text telephone Modem General Description	Automatic upgrade from previous Release version 9.0.0
26.230	10.0.0		S4	Cellular Text Telephone Modem transmitter Bit Exact C-code	Automatic upgrade from previous Release version 9.0.0
26.231	10.0.0		S4	Cellular Text telephone Modem; Minimum performance requirements	Automatic upgrade from previous Release version 9.0.0
26.233	10.0.0		S4	End-to-end transparent streaming service; General description	Automatic upgrade from previous Release version 9.0.0
26.234	10.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Session Update for PSS Sessions and PSS bookmarking were done.
26.235	10.0.0		S4	Packet switched conversational multimedia application; Default codecs	Automatic upgrade from previous Release version 9.0.0
26.236	10.0.0		S4	Packet switched conversational multimedia applications; Transport protocols	Automatic upgrade from previous Release version 9.0.0
26.237	10.1.0		S4	IMS based PSS and MBMS User Service; Protocols	Content report configuration, replication for Inter-UE-session transfer in Push Mode, Inter-UE-session transfer in Pull Mode, parental control service, forced playout constraints, IMS based HTTP streaming, modification of XML schema for nBookmark, network personal video recording service and content referral service were done.
26.243	10.0.0		S4	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.244	10.0.0		S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Automatic upgrade from previous Release version 9.4.0
26.245	10.0.0		S4	Transparent end-to-end Packet witted Streaming Service (PSS); Timed text format	Automatic upgrade from previous Release version 9.0.0
26.246	10.0.0		S4	Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile	Automatic upgrade from previous Release version 9.0.0
26.267	10.0.0		S4	AeCall data transfer; In-band modem solution; General description	Automatic upgrade from previous Release version 9.3.0
26.268	10.0.0		S4	eCall data transfer; In-band modem solution; ANSI-C reference code	Automatic upgrade from previous Release version 9.4.0
26.269	10.0.0		S4	eCall data transfer; In-band modem solution; Conformance testing	Automatic upgrade from previous Release version 9.2.0
26.273	10.0.0		S4	ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec	Automatic upgrade from previous Release version 9.0.0
26.274	10.0.0		S4	Speech codec speech processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing	Automatic upgrade from previous Release version 9.0.0
26.290	10.0.0		S4	Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions	Automatic upgrade from previous Release version 9.0.0
26.304	10.0.0		S4	Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.346	10.0.0		S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Automatic upgrade from previous Release version 9.4.1
26.401	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description	Automatic upgrade from previous Release version 9.0.0
26.402	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools	Automatic upgrade from previous Release version 9.0.0
26.403	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part	Automatic upgrade from previous Release version 9.0.0
26.404	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Spectral Band Replication (SBR) part	Automatic upgrade from previous Release version 9.0.0
26.405	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Parametric stereo part	Automatic upgrade from previous Release version 9.0.0
26.406	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing	Automatic upgrade from previous Release version 9.0.0
26.410	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
26.411	10.0.0		S4	General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code	Automatic upgrade from previous Release version 9.0.0
26.412	10.0.0		S4	General audio codec audio processing functions; Source code for 3GP file format	Automatic upgrade from previous Release version 9.0.0
26.430	10.0.0		S4	Timed graphics	Automatic upgrade from previous Release version 9.0.0
27.005	10.0.0		C1	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Conditions for supporting SMS related AT commands

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
27.007	10.3.0		C1	AT command set for 3G User Equipment (UE)	Enhancement of +CPOS and +CPOSR for LPP, capability request and velocity request, GLONASS and SBAS Enhancement and alignment of +CLIP, +CCWA and +CLCC when CLI is not available Support of AT commands for voice Correction of USAT profile activation Detection of currently active SIM or USIM Modification of default profiles and write response Correction of USAT event response Clarification of relationship between CREG, CERE and CGREG. Introduction of registration for EPS and non-EPS services for 'SMS only' in CREG. +CAVIMS, availability for voice calls with the IMS Addition of registration status to CREG,CGREG, CERE command for emergency attached UE +CESQ, new AT-command on extended signal quality
27.010	10.0.0		C3	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	Automatic upgrade from previous Release version 9.1.0
28.062	10.0.0		S4	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	Automatic upgrade from previous Release version 9.0.0
31.101	10.0.0		C6	UICC-Terminal Interface; Physical and Logical Characteristics	Automatic upgrade from previous Release version 9.1.1 Introduction of Secure Channel for relay nodes

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
31.102	10.1.0		C6	Characteristics of the USIM Application	Automatic upgrade from previous Release version 9.5.0 Communication control for IMS procedures in USIM Introduction of Smart Card Web Server launch functionality Addition of an EF for USAT facility control Addition of 'Extended Terminal Application' support in EF_UST Correction to coding of EF_MMSICP CSG lists display Control Introduction of the IARI list in the USIM Non-Access Stratum (NAS) configuration parameters Procedures for Relay Node USIM
31.103	10.1.0		C6	Characteristics of the ISIM Application	Automatic upgrade from previous Release version 9.1.0 Addition of CALL CONTROL indicator in the IST Introduction of Data Download via SMS-PP service indication in EF IST Introduction of the IARI list in the ISIM

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
31.111	10.2.0		C6	USIM Application Toolkit (USAT)	Rules for multiple entities providing USAT facilities Addition of Direct Communication Channel for BIP terminal server mode Introduction of the IARI based Incoming IMS Data event Introduction of ME behaviour during a REFRESH of EF_UICCIARI Introduction of the IARI based IMS Registration event Introduction the IARI based Open Channel command Enable Re-assignment of tag values Essential corrections to the CSG cell selection status event and command PROVIDE LOCAL INFORMATION related to CSG
31.115	10.0.0		C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Automatic upgrade from previous Release version 9.0.0
31.116	10.0.0		C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Automatic upgrade from previous Release version 9.0.0
31.120	10.0.0		C6	UICC-terminal interface; Physical, electrical and logical test specification	Automatic upgrade from previous Release version 9.0.0
31.121	10.0.0		C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Automatic upgrade from previous Release version 9.5.0
31.122	10.0.0		C6	USIM conformance test specification	Automatic upgrade from previous Release version 9.2.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
31.124	10.0.0		C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Automatic upgrade from previous Release version 9.5.0
31.130	10.0.0		C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Automatic upgrade from previous Release version 9.2.0
31.131	10.0.0		C6	C-language binding for (Universal) Subscriber Identity Module ((U)SIM) API	Automatic upgrade from previous Release version 9.0.0
31.133	10.0.0		C6	IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™	Automatic upgrade from previous Release version 9.2.0
31.213	10.0.0		C6	Test specification for subscriber (U)SIM; Application Programming Interface (API) for Java Card™	Automatic upgrade from previous Release version 9.1.0
31.220	10.0.0		C6	Characteristics of the Contact Manager for 3GPP UICC applications	Automatic upgrade from previous Release version 9.1.0
31.221	10.0.0		C6	Contact Manager for 3GPP UICC applications - internal interface aspects	Automatic upgrade from previous Release version 9.1.0
33.102	10.0.0		S3	3G security; Security architecture	Note regarding GERAN security functions, e.g., the usage of Kc128, can be found in the TS 43.020
33.105	10.0.0		S3	Cryptographic algorithm requirements	Automatic upgrade from previous Release version 9.0.0

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
33.106	10.0.0		S3	Lawful interception requirements	Encryption Requirements CAT LI Support CRS LI Support H(e)NB LI Support
33.107	10.3.0		S3	3G security; Lawful interception architecture and functions	Location information from trusted non-3GPP access Security requirements for LI in KMS based IMS media security Initiator parameter definition IMS Conf LI 33.107
33.108	10.3.0		S3	3G security; Handover interface for Lawful Interception (LI)	S4-SGSN address in the Serving System Report Propagation of mistake in the implementation of CR 0139 (rel-9) on rel-10 MME address in Serving System report Location information for PMIP events Security requirements for the LI Handover Interface in KMS based IMS media security Revocation trigger PMIP parameters condition Mixed delivery indication for IMS Conference HI3 IMS Conf LI 33.108

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
33.110	10.0.0		S3	Key establishment between a UICC and a terminal	Automatic upgrade from previous Release version 9.0.0
33.141	10.0.0		S3	Presence service; Security	Adaptation of TS 33.141 to TLS profiling in TS 33.222
33.203	10.2.0		S3	3G security; Access security for IP-based services	Clarification of GIBA restrictions
33.210	10.2.0		S3	3G security; Network Domain Security (NDS); IP network layer security	Correction of lur security
33.220	10.0.0		S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Unification of TLS and certificate references in TS 33.220 with TS 33.310
33.221	10.0.0		S3	Generic Authentication Architecture (GAA); Support for subscriber certificates	Automatic upgrade from previous Release version 9.1.0
33.222	10.0.0		S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Adaptation of TS 33.141 to TLS profiling in TS 33.222
33.223	10.0.0		S3	Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function	Automatic upgrade from previous Release version 9.1.0
33.234	10.0.0		S3	3G security; Wireless Local Area Network (WLAN) interworking security	IPsec alignment Unification of certificate and CRL profiles in TS 33.234 with TS 33.310, clause 6.1
33.246	10.0.0		S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Correction of references

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
33.259	10.0.0		S3	Key establishment between a UICC hosting device and a remote device	Automatic upgrade from previous Release version 9.0.0
33.310	10.2.0		S3	Network domain security; Authentication framework (NDS/AF)	NDS corrections
33.320	10.2.0		S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Correction of implementation error of S3-100612
33.401	10.0.0		S3	3GPP System Architecture Evolution (SAE); Security architecture	Correction for handover from UTRAN to E-UTRAN PDCP integrity for relay node security Solution for relay node security
33.402	10.0.0		S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Enhanced Security support for DS-MIPv6
34.109	10.0.0		R2	Terminal logical test interface; Special conformance testing functions	Automatic upgrade from previous Release version 9.2.0
34.124	10.0.0		R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Automatic upgrade from previous Release version 9.2.0
34.131	10.0.0		C6	Test specification for C-language binding for (U)SIM API	Automatic upgrade from previous Release version 9.0.0
34.172	10.0.0		R5	Terminal conformance specification; Assisted Global Navigation Satellite Systems (A-GNSS); Frequency Division Duplex (FDD)	This document specifies the measurement procedures for the conformance test of the minimum performance requirements for FDD mode of UTRA user equipment (UE) that supports Assisted Global Navigation Satellite Systems (A-GNSS).

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
35.201	10.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	Automatic upgrade from previous Release version 9.0.0
35.202	10.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	Automatic upgrade from previous Release version 9.0.0
35.203	10.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	Automatic upgrade from previous Release version 9.0.0
35.204	10.0.0		S3	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	Automatic upgrade from previous Release version 9.0.0
35.215	10.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications	Automatic upgrade from previous Release version 9.0.0
35.216	10.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification	Automatic upgrade from previous Release version 9.1.0
35.217	10.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Automatic upgrade from previous Release version 9.0.0
35.218	10.0.0		S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Automatic upgrade from previous Release version 9.0.0
36.141	10.2.0		R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Rel-10 version was created based on V9.5.0. Since then, correction to DL RS Power, Correction of the test port description, correction to Band 42 and 43 co-existence for UMTS/LTE 3500 (TDD) etc. are made.

Added Standard Number	Version at ARIB STD-T63 Ver.9.00		3GPP WG	Title	New Document Summary
37.320	10.1.0		R2	Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); Radio measurement collection for Minimization of Drive Tests (MDT); Overall description; Stage 2	Clarifications on MDT initiation Clear MDT configuration and logs when the UE is not registered MDT stage 2 clarifications On memory size limitation for Logged MDT UE Capabilities for MDT Validity time for location information in Immediate MDT Correction to include CDMA2000 reporting for neighbouring cells Small Clarifications and Corrections to 37.320 Trace parameters for MDT configuration
ARIB STD-T63-25.A01	10.0.0		R4	The Low Power Repeaters for DS-CDMA/LTE	Automatic upgrade from previous Release version

8. 2. Revised Standards

None

(Annex 43)

3GPP ARIB Change history List of Standards Ver. 9.10

16 September 2011

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.307	4.17.0	4.16.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.307	5.16.0	5.15.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.307	6.13.0	6.12.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.307	7.9.0	7.8.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307
31.101	7.2.2	7.2.1	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: Unnumbered reference corrected

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
21.101	8.3.0	8.2.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Correction to list of specs
21.201	8.4.0	8.3.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Correction to list of specifications
21.202	8.4.0	8.3.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Correction to list of specifications
23.107	8.1.0	8.0.0	S2	Quality of Service (QoS) concept and architecture	Clarification that when the UE has enabled SRVCC, the conversation class and SSD set to speech, can only be used for IMS speech sessions subject to SRVCC.
23.203	8.12.0	8.11.0	S2	Policy and charging control architecture	Clarification that when the UE has enabled SRVCC, the QCI=1 / traffic-class conversation, can only be used for IMS speech sessions subject to SRVCC.
25.104	8.13.0	8.12.0	R4	Base Station (BS) radio transmission and reception (FDD)	Modifications to Band 3 to allow LTE Band 3 operation in Japan are made.
25.133	8.14.0	8.13.0	R4	Requirements for support of radio resource management (FDD)	Correction to Requirements on Reporting Criteria for Inter-RAT Measurements is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.141	8.14.0	8.13.0	R4	Base Station (BS) conformance testing (FDD)	Modifications to Band 3 to allow LTE Band 3 operation in Japan are made.
25.304	8.12.0	8.11.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	CR to align NAS and AS for handling of CSG cells
25.306	8.12.0	8.11.0	R2	UE Radio Access capabilities	Addition of the missing Total RLC and MAC-hs parameters in UE HS-DSCH categories for 1.28Mcps TDD Correction to HS-DSCH physical layer categories for 1.28 Mcps TDD
25.307	8.7.0	8.6.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307
25.308	8.11.0	8.10.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Modification on Measurement Occasion of HS-DSCH reception in CELL_FACH state (1.28Mcps TDD only)
25.321	8.13.0	8.12.0	R2	MAC protocol specification	Scheduling Information corrections for CELL_FACH and Idle mode
25.423	8.12.0	8.11.0	R3	UTRAN Iur interface RNSAP signalling	Misalignment between message tabular and ASN.1 for Idle Interval Information IE UE support indicator for DL secondary HS-DSCH activation state according to RRC Rel-9
25.425	8.6.0	8.5.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of Logical Channel ID range used in Enhanced Cell-FACH
25.433	8.12.0	8.11.0	R3	UTRAN Iub interface NBAP signalling	Correction to the MIMO capability for 1.28Mcps TDD Correction to the number of E-RNTI per group for 1.28Mcps TDD UE Support Indicator for DL secondary HS-DSCH Activation state according to RRC Rel-9
25.435	8.7.0	8.6.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of Logical Channel ID range used in Enhanced Cell-FACH

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
27.007	8.14.0	8.13.0	C1	AT command set for 3G User Equipment (UE)	+CGDATA, correction of syntax
31.101	8.2.2	8.2.1	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: Unnumbered reference corrected
31.102	8.12.0	8.11.0	C6	Characteristics of the USIM Application	- Essential correction to EPS NAS security context update
33.401	8.8.0	8.7.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Modification of security context storage rate
34.109	8.2.0	8.1.0	R2	Terminal logical test interface; Special conformance testing functions	Conditionally mandate the support of test loop mode 4 for the UEs supporting UTRA only
34.123-3	8.10.0	8.9.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS)	Removal of technical content in 34.123-3 v8.9.0 and substitution with pointer to the next Release
34.229-3	8.7.0	8.6.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 3: Abstract test suite (ATS)	Removal of technical content in 34.229-3 v8.6.0 and substitution with pointer to the next Release
36.101	8.14.0	8.13.1	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corrections for UE to UE co-existence requirements of Band 3, Correction on CQI mapping index of RI test, and Corrections to DL-RMC-s for Maximum input level are made.
36.104	8.12.0	8.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Modifications to Band 3 to allow LTE Band 3 operation in Japan, and Clarification of correlation matrix for eNB receiver are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
36.133	8.14.0	8.13.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Rearrangement of Time periods for EUTRA-UTRA reselection test case A.4.3.4.1, Clarification of Radio link monitoring test requirements, Correction of Inter-RAT cell identification time in DRX, Correction of Identification time of UTRA FDD cell for SON in DRX, Correction of Requirements of E-UTRAN TDDUTRAN TDD measurements for SON when DRX is used, Addition of missing EsNoc parameters in E-UTRAN TDD UTRAN TDD Measurements test cases are made. And also "Force to Cell 2" during initialisation for EUTRA - UTRA reselection test cases is removed.
36.141	8.11.0	8.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Modifications to Band 3 to allow LTE Band 3 operation in Japan, and Correction of parameters on BS OBW conformance test are made.
36.304	8.10.0	8.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	CR to align NAS and AS for handling of CSG cells
36.306	8.8.0	8.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Clarification of optionality of UE features without capability
36.307	8.3.0	8.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	2GHz S-Band (Band 23) and Expanded 1900 MHz Band (Band 25) are added.
36.331	8.14.0	8.13.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	CR to remove linking of primary PLMN to CSG Correction for SR-VCC and QCI usage Introduction of UE capability for handover between FDD and TDD
36.509	8.7.0	8.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing function for User Equipment (UE)	Corrections to TS 36.509 Rel-8

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
36.523-3	8.7.0	8.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Removal of technical content in 36.523-3 v8.6.0 and substitution with pointer to the next Release

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.10		3GPP WG	Title	New Document Summary
34.123-3	9.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Uu interface. This document is the 3rd part of a multi-part test specification, 3GPP TS 34.123.
34.229-3	9.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	This document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Gm interface. This document is the 3rd part of a multi-part test specification, 3GPP TS 34.229.
36523-3	9.0.1		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	This document specifies the protocol and signalling conformance testing in TTCN-3 for the 3GPP UE at the UE E-UTRAN radio interface. This document is part 3 of a multi-part conformance test specification for the 3GPP evolved User Equipment (UE).

7.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
21.101	9.1.0	9.0.1	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
21.201	9.1.0	9.0.1	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Correction to list of specifications
21.202	9.2.0	9.1.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Correction to list of specifications
22.101	9.9.0	9.8.0	S1	Service aspects; Service principles	IMS emergency calls
22.220	9.7.0	9.6.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Correction to the admission control for the H(e)NB
23.107	9.2.0	9.1.0	S2	Quality of Service (QoS) concept and architecture	Clarification that when the UE has enabled SRVCC, the conversation class and SSD set to speech, can only be used for IMS speech sessions subject to SRVCC.
23.203	9.9.0	9.8.0	S2	Policy and charging control architecture	Clarification that when the UE has enabled SRVCC, the QCI=1 / traffic-class conversation, can only be used for IMS speech sessions subject to SRVCC. It is proposed to clarify that all IP-CAN sessions between a UE and a PDN over the cdma200 HRPD access have the same bearer establishment mode.
25.104	9.7.0	9.6.0	R4	Base Station (BS) radio transmission and reception (FDD)	The corresponding change made in V8.13.0 is done.
25.133	9.8.0	9.7.0	R4	Requirements for support of radio resource management (FDD)	Measurement Reporting Criteria Requirements in CELL_DCH and Inter-RAT E-UTRAN cell SI acquisition requirements are introduced.
25.141	9.8.0	9.7.0	R4	Base Station (BS) conformance testing (FDD)	The corresponding change made in V8.14.0 is done.
25.214	9.6.0	9.5.0	R1	Physical layer procedures (FDD)	Clarification of activation status when Secondary_Cell_Enabled is changed from 0 to 1.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.304	9.5.0	9.4.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	CR to align NAS and AS for handling of CSG cells
25.306	9.7.0	9.6.0	R2	UE Radio Access capabilities	Addition of the missing Total RLC and MAC-hs parameters in UE HS-DSCH categories for 1.28Mcps TDD Correction to HS-DSCH physical layer categories for 1.28 Mcps TDD Introduction of measurement ID extension
25.307	9.3.0	9.2.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307
25.308	9.6.0	9.5.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Modification on Measurement Occasion of HS-DSCH reception in CELL_FACH state (1.28Mcps TDD only)
25.319	9.6.0	9.5.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification on the Dedicated Measurement of Secondary E-DCH Cell
25.321	9.6.0	9.5.0	R2	MAC protocol specification	Scheduling Information corrections for CELL_FACH and Idle mode
25.423	9.7.0	9.6.0	R3	UTRAN Iur interface RNSAP signalling	Misalignment between message tabular and ASN.1 for Idle Interval Information IE UE support indicator for DL secondary HS-DSCH activation state according to RRC Rel-9
25.425	9.2.0	9.1.1	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of Logical Channel ID range used in Enhanced Cell-FACH
25.433	9.7.0	9.6.0	R3	UTRAN Iub interface NBAP signalling	Correction to the MIMO capability for 1.28Mcps TDD Correction to the number of E-RNTI per group for 1.28Mcps TDD UE Support Indicator for DL secondary HS-DSCH Activation state according to RRC Rel-9

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.435	9.4.0	9.3.1	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Special value for HS-DSCH DATA FRAME TYPE 2 RACH Measurement Result Correction of Logical Channel ID range used in Enhanced Cell-FACH
26.233	9.1.0	9.0.0	S4	End-to-end transparent streaming service; General description	Inclusion of LTE/EPC and Rel-7 to Rel-9 features in PSS General Description was done.
26.237	9.6.0	9.5.0	S4	IMS based PSS and MBMS User Service; Protocols	Definition of MIME type for bookmarking was done.
27.007	9.7.0	9.6.0	C1	AT command set for 3G User Equipment (UE)	+CGDATA, correction of syntax
31.101	9.1.2	9.1.1	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: Unnumbered reference corrected
31.102	9.7.0	9.6.0	C6	Characteristics of the USIM Application	- Essential correction to EPS NAS security context update
31.111	9.6.0	9.5.0	C6	USIM Application Toolkit (USAT)	- Removal of the mandatory Home eNodeB name support in USAT
31.121	9.6.0	9.5.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Rel-9 content replacement by reference to TS 31.121, Rel-10
31.124	9.6.0	9.5.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Rel-9 content replacement by reference to TS 31.124, Rel-10
33.110	9.1.0	9.0.0	S3	Key establishment between a UICC and a terminal	Description in normative Annex A of the key to be used in KDF
33.310	9.6.0	9.5.0	S3	Network domain security; Authentication framework (NDS/AF)	Removal of mandatory support for HTTPS in CMP transport
33.320	9.6.0	9.5.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Security mechanism for H(e)NB no-IPsec usage option

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
33.401	9.7.0	9.6.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Modification of security context storage rate
34.108	9.5.0	9.4.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Corrections to RRC Connection Setup message default contents for conditions A4 and A6(RP-110642) - Correction to RB setup message for DC-HSDPA(RP-110651) - Addition of DB-DC-HSDPA into 34.108(RP-110667)
34.121-1	9.5.0	9.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Added DB-DC-HSDPA test cases.
34.121-2	9.5.0	9.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	- Correction to Band XII frequency range in 34.121-2(RP-110652) - Applicability changes to TC 8.7.10 - 8.7.13(RP-110643) - Addition of DB-DC-HSDPA into 34.121-2(RP-110667) - Reduction of duplicated tests for DC-HSDPA capable UE's in 34.121-2(RP-110638)
34.123-1	9.5.0	9.4.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases such as multi-frequency test cases for LCR TDD, R9 HNB test cases.
34.123-2	9.5.0	9.4.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1.
34.171	9.2.0	9.1.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Removal of lower humidity limit

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
34.229-1	9.5.0	9.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases related to emergency call.
34.229-2	9.5.0	9.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	- New IMS emergency TCs 19.5.7, 19.5.8, 19.5.9, (RP-110660)19.5.10(RP-110660) - Add applicability for new test case 19.4.1 - Applicability for IMS TCs updated or added to Rel-8(RP-110651) - Introduction of applicability conditions for new test cases for CT1 aspects of IMS emergency call over GPRS and EPS(RP-110660)
36.101	9.8.0	9.7.1	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The corresponding change made in V8.14.0 is done. Modifications for Band 19 A-MPR and MBMS performance requirements, Correction for In-band blocking table, Correction for TDD category 1 DRS and DMRS RMCs, Correction on 2-X PMI test, and Correction for OCNG and power settings for PDCCH/PHICH performance are made. And also performance requirements for PUCCH 2-0, PUCCH 2-1, PUSCH2-2 and dual-layer beamforming category 1 UE are added.
36.104	9.8.0	9.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	The corresponding change made in V8.12.0 is done.
36.133	9.8.0	9.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The corresponding change made in V8.14.0 is done. Cell re-selection requirements, Side conditions for TDD inter-frequency CGI identification, RSTD measurements, and Test cases for E-UTRAN RSTD intra-frequency are corrected. And also test cases for TDD intra/inter-frequency SI reading using autonomous gaps with both non DRX and DRX.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
36.141	9.8.0	9.7.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	The corresponding change made in V8.11.0 is done.
36.304	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	CR to align NAS and AS for handling of CSG cells
36.305	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Corrections to Align Stage2 with Stage3 Corrections to the LPP protocol layering
36.306	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Clarification of optionality of UE features without capability Options for CSFB to GSM
36.307	9.3.0	9.2.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	The corresponding change made in V8.3.0 is done.
36.331	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Add pre Rel-10 procedures to processing delay requirement for RRC procedure Section 11.2 Clarification of optionality of UE features without capability FGI bit for handover between LTE FDD/TDD Correction for SR-VCC and QCI usage Radio frame alignment of CSA and MSP Default value of extensions introduced from REL-9
36.355	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Clarifications to description of OTDOA positioning fields
36.508	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Add emergency bearer support. Band 24 addition. Introduction of UE Test Loop Mode C for LTE MBMS testing.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
36.509	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	Corrections to TS 36.509 Rel-9(R5-112700)
36.521-1	9.5.0	9.4.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Adding Band 24. Addition of new test cases for TDD/FDD MBMS performance, ..etc.
36.521-2	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes related to 36.521-1
36.521-3	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Addition of new RRM TDD test cases. Addition of Band 24.
36.523-1	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases related to InterRAT cell reselection, Multi-layer procedures, emergency, ..etc.
36.523-2	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes.

8. Release 10

8.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.10		3GPP WG	Title	New Document Summary
26.247	10.0.0		S4	Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	Version 10.0.0 approved at TSG SA#52

8. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
21.101	10.1.0	10.0.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
21.201	10.1.0	10.0.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Correction to list of specifications
21.202	10.1.0	10.0.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Correction to list of specifications
22.101	10.6.0	10.5.1	S1	Service aspects; Service principles	IMS emergency calls
22.220	10.7.0	10.6.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Correction to the admission control for the H(e)NB

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
22.233	10.1.0	10.0.0	S1	Transparent end-to-end packet-switched streaming service; Stage1	Alignment of the Transparent end-to-end packet-switched streaming service
22.368	10.5.0	10.4.0	S1	Service requirements for Machine-Type Communications (MTC); Stage 1	Correction of NIMTC requirements to define the precedence for NAS configuration parameters in case they are defined in the device and in the USIM
23.107	10.1.0	10.0.0	S2	Quality of Service (QoS) concept and architecture	Clarification that when the UE has enabled SRVCC, the conversation class and SSD set to speech, can only be used for IMS speech sessions subject to SRVCC.
23.203	10.4.0	10.3.0	S2	Policy and charging control architecture	Clarified that if Gxx applies, once PCRF receives mobility routing rules from the PCEF, the PCRF must process such rules and install applicable QoS rules to the applicable BBERF Including the Sponsor Identities and list of applications per Application Service Provider as the subscription information of SPR It is proposed that when an IP-CAN bearer is deleted due to SRVCC the PCEF shall notify the PCRF and include a SRVCC cause. The PCRF shall also notify the AF when a service has been handed over to the CS domain. The race can then be solved in the P-CSCF. If the PCRF notifies the event that threshold is reached, the AF determines whether usage monitoring continues for the sponsored data connectivity. If desired, the AF provides new threshold values in the response to the PCRF. If the AF determines not to continue usage monitoring for the sponsored data connectivity, the AF does not provide a new threshold in the response to the PCRF.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
23.228	10.5.0	10.4.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Charging records are to include an indication if the IP realm of the user plane is different from the IP realm of the control plane on either the incoming or outgoing side of the IMS-ALG. Charging records are also to include an indication if transcoding is offered and inserted by the IMS-ALG. The IP realm matching procedure is clarified to indicate a "match" between IP realms when they allow direct routing between addresses in the matching realms. The text also points out that each IMS-ALG must provision which IP realms are a match for IP realms to which its TrGWs have access. Modify IETF references mentioned in Reason for change to the latest ones. That is, update [13], [14], [16a], [45] and [46]
25.101	10.2.0	10.1.0	R4	UE Radio transmission and reception (FDD)	Core requirements for Band combinations II-V and I-XI, Requirements for expanded 1900 MHz band, Spurious emission requirements to protect E-UTRA band 23 and band 24, and HSDPA MIMO CQI reporting requirements due to asymmetric P-CPICH/S-CPICH power settings are introduced. Additional Spurious requirement extension due to EN spec change and Clarification on retransmission for MIMO workaround re made.
25.104	10.2.0	10.1.0	R4	Base Station (BS) radio transmission and reception (FDD)	The corresponding change made in V9.7.0 is done. Requirements for 2GHz S-Band, Coexistence requirements for expanded 1900MHz band and S-CPICH power offset accuracy requirement are introduced.
25.113	10.1.0	10.0.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Expanded 1900MHz band is added.
25.133	10.2.0	10.1.0	R4	Requirements for support of radio resource management (FDD)	The corresponding change made in V9.8.0 is done. Requirements of expanded 1900 MHz band and Timestamp accuracy requirements for MDT are introduced. Clarification of cell reselection requirements for Higher Priority Layer and Simplification of frequency dependent requirements are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.141	10.2.0	10.1.0	R4	Base Station (BS) conformance testing (FDD)	The corresponding change made in V9.8.0 is done. Requirements for 2GHz S-Band, Coexistence requirements for expanded 1900MHz band and Definition of Virtual Antenna Mapping (VAM) and applicability of S-CPICH power accuracy requirement are introduced.
25.214	10.3.0	10.2.0	R1	Physical layer procedures (FDD)	Clarification of activation status when Secondary_Cell_Enabled is changed from 0 to a value not equal to 0.
25.304	10.1.0	10.0.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	CR to align NAS and AS for handling of CSG cells Correction for definition of MDT PLMN Introduction of UTRAN Automatic Neighbor Relation
25.306	10.3.0	10.2.0	R2	UE Radio Access capabilities	Removing RoHC discrepancy Addition of the missing Total RLC and MAC-hs parameters in UE HS-DSCH categories for 1.28Mcps TDD Addition of the missing Total RLC and MAC-hs parameters in UE dual-carrier HS-DSCH categories for 1.28Mcps TDD Correction to UE capability Support of MIMO with dual cell dual band operation Correction to HS-DSCH physical layer categories for 1.28 Mcps TDD Introduction of measurement ID extension
25.307	10.1.0	10.0.0	R2	Requirements on UE supporting a release-independent frequency band	Add Expanded 1900 MHz Band for UTRA and LTE to TS25.307
25.308	10.5.0	10.4.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Modification on Measurement Occasion of HS-DSCH reception in CELL_FACH state (1.28Mcps TDD only) Removal of open issues related to 4C-HSDPA
25.317	10.1.0	10.0.0	R2	Services provided by the physical layer	Remove DB-DC-HSDPA configurations 4 and 5
25.319	10.5.0	10.4.0	R2	Enhanced uplink; Overall description; Stage 2	Clarification on the Dedicated Measurement of Secondary E-DCH Cell

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.321	10.3.0	10.2.0	R2	MAC protocol specification	Scheduling Information corrections for CELL_FACH and Idle mode
25.401	10.2.0	10.1.0	R3	UTRAN Overall Description	Correction of references Introduction of Enhancements of Iur-g Interface
25.402	10.1.0	10.0.0	R3	Synchronisation in UTRAN Stage 2	Correction related to the References and clean-up of 25.402
25.420	10.1.0	10.0.0	R3	UTRAN Iur Interface: General Aspects and Principles	Correction of references Introduction of Enhancements of Iur-g Interface
25.421	10.1.0	10.0.0	R3	UTRAN Iur interface Layer 1	Correction of references
25.422	10.1.0	10.0.0	R3	UTRAN Iur interface signalling transport	Correction of references

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.423	10.3.0	10.2.0	R3	UTRAN Iur interface RNSAP signalling	Clarification on the Range of Possible Secondary Serving Cell List Misalignment between message tabular and ASN.1 for Idle Interval Information IE Extend the Number of Supported Carriers for Multi-Carrier HSDPA for 1.28Mcps TDD Introduction of Enhancements of Iur-g Interface Correction of the dependency of RNSAP to a specific signalling transport network layer Introduction of information transfer control for UTRAN ANR related information UE support indicator for DL secondary HS-DSCH activation state according to RRC Rel-9 Correction of abnormal condition text Rapporteur's proposal following review of TS 25.423 ANR Report Distribution using Direct Information Transfer procedure ANR Neighbour cell configuration supported by Information Exchange Initiation procedure Reference review outcome in TS 25.423
25.424	10.1.0	10.0.0	R3	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	Correction of references
25.425	10.1.0	10.0.1	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Correction of references Correction of Logical Channel ID range used in Enhanced Cell-FACH Correction to mapping of MAC-is SDU to MAC-d PDU
25.426	10.1.0	10.0.0	R3	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	Correction related to the References and clean-up of 25.426
25.427	10.1.0	10.0.1	R3	UTRAN Iur and Iub interface user plane protocols for DCH data streams	Correction to mapping of MAC-is SDU to MAC-d PDU Correction related to the References and clean-up of 25.427

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.430	10.1.0	10.0.0	R3	UTRAN Iub Interface: General Aspects and Principles	Correction to the References
25.431	10.1.0	10.0.0	R3	UTRAN Iub interface Layer 1	Correction to the References
25.432	10.1.0	10.0.0	R3	UTRAN Iub interface signalling transport	Correction to the References
25.433	10.3.0	10.2.0	R3	UTRAN Iub interface NBAP signalling	Clarification on the Range of Possible Secondary Serving Cell List Correction of references ASN.1 Corrections and Tabular alignment Review Corrections Extend the Number of Supported Carriers for Multi-Carrier HSDPA for 1.28Mcps TDD Addition of AOA measurement in distributed antenna scenarios for 1.28Mcps TDD Correction to the MIMO capability for 1.28Mcps TDD Correction to the number of E-RNTI per group for 1.28Mcps TDD Introduction of cell portion based RTWP control for 1.28Mcps TDD UE Support Indicator for DL secondary HS-DSCH Activation state according to RRC Rel-9 Correction of abnormal condition text
25.434	10.1.0	10.0.0	R3	UTRAN Iub interface data transport & transport signalling for Common Transport Channel data streams	Correction of References in TS 25.434 Update of References in TS 25.434

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.435	10.2.0	10.1.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Introduction of NodeB Operation for Common HS-DSCH SRB1 Transmission Correction to mapping of MAC-is SDU to MAC-d PDU Special value for HS-DSCH DATA FRAME TYPE 2 RACH Measurement Result Correction to the References in 25.435 Correction of Logical Channel ID range used in Enhanced Cell-FACH
25.442	10.1.0	10.0.0	R3	UTRAN Implementation Specific O&M Transport	Removal of unused references
25.444	10.1.0	10.0.0	R3	Iuh data transport	Correction of references
25.446	10.1.0	10.0.0	R3	MBMS synchronisation protocol(SYNC)	Specification Cleanup for Rel-10
25.450	10.1.0	10.0.0	R3	UTRAN Iupc interface general aspects and principles	References cleanup (25.450)
25.452	10.1.0	10.0.0	R3	UTRAN Iupc interface signalling transport	References cleanup (25.452)
25.453	10.3.0	10.2.0	R3	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	ASN.1 corrections and cleanup of 25.453 References cleanup (25.453)
25.467	10.2.0	10.1.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Removal of double-numbering from 3 sub-clauses Removal of Access Query Procedure for Intra-CSG Handover Cleanup and small corrections of 25.467 before Rel-10 closure Final specification of the provision of Iurh-connectivity related TNL addresses

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
25.468	10.1.0	10.0.0	R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Correction of References IDNNS usage in the CONNECT message Clarification of usage of RUA DISCONNECT
25.469	10.1.0	10.0.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Removal of Access Query Procedure for Intra-CSG Handover Correction of References ASN.1 Corrections and Tabular alignment Review Changes Final specification of the provision of Iurh-connectivity related TNL addresses
26.131	10.2.0	10.1.0	S4	Terminal acoustic characteristics for telephony; Requirements	Remaining modifications to EAAT WI was done.
26.132	10.1.0	10.0.0	S4	Speech and video telephony terminal acoustic test specification	Remaining modifications to EAAT WI was done.
26.233	10.1.0	10.0.0	S4	End-to-end transparent streaming service; General description	Inclusion of LTE/EPC and Rel-7 to Rel-9 features in PSS General Description was done.
26.234	10.1.0	10.0.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Removal of Progressive Download and Dynamic Adaptive Streaming over HTTP for Release 10 was done.
26.237	10.2.0	10.1.0	S4	IMS based PSS and MBMS User Service; Protocols	Definition of MIME type for bookmarking and file naming convention for XML schemas were done.
26.244	10.1.0	10.0.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Removal of Progressive Download and Dynamic Adaptive Streaming over HTTP for Release 10 and additional metadata properties for industry alignment were done.
27.007	10.4.0	10.3.0	C1	AT command set for 3G User Equipment (UE)	CREG, CERE and CGREG: clarification for 'out of coverage'
31.101	10.0.1	10.0.0	C6	UICC-Terminal Interface; Physical and Logical Characteristics	- Editorial release: Unnumbered reference corrected

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
31.102	10.2.0	10.1.0	C6	Characteristics of the USIM Application	- Essential correction to EPS NAS security context update - Priority for NAS configuration parameters
31.111	10.3.0	10.2.0	C6	USIM Application Toolkit (USAT)	- Essential correction on the length size for the IMS Registration Event envelope command - Correction to IMS Registration event letter class - Reservation of a bit in Terminal profile for Open Channel for IMS - Removal of the mandatory Home eNodeB name support in USAT
31.121	10.1.0	10.0.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Removal of tel URI in EF_IMPU of the default configuration of a E-UTRAN/EPC ISIM UICC - Essential correction of test 11.1 regarding EF EPSNSC updates
31.124	10.1.0	10.0.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	- Addition of Event download test, CSG cell Selection - Introduction ISIM related SMS-PP Data Download tests - Introduction ISIM related Send Short Message tests
31.130	10.1.0	10.0.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	- Addition of events and reservation of constant values for Java API
33.107	10.4.0	10.3.0	S3	3G security; Lawful interception architecture and functions	TLS and IPsec profiling for Xk interface
33.108	10.4.0	10.3.0	S3	3G security; Handover interface for Lawful Interception (LI)	TLS profiling for HI2 interface for KMS based IMS media security
33.110	10.1.0	10.0.0	S3	Key establishment between a UICC and a terminal	Description in normative Annex A of the key to be used in KDF
33.210	10.3.0	10.2.0	S3	3G security; Network Domain Security (NDS); IP network layer security	Correction of luh/lurh security

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
33.310	10.3.0	10.2.0	S3	Network domain security; Authentication framework (NDS/AF)	Removal of mandatory support for HTTPS in CMP transport-R10 Correction of reference for key usage bit in TLS certificate and some editorials Correction on CRL distribution point for vendor root CA certificates
33.320	10.3.0	10.2.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	Security mechanism for H(e)NB no-IPsec usage option
33.401	10.1.1	10.0.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Corrective text for undefined wording - autonomous validation of RN platform Detailed binding of RN and UICC Clarification on initial attach procedure for PSK case Clarification of certificate and subscription handling Resolution of Editor's Notes for PDPC integrity for Relay Nodes Specification of secure channel profiles and certificates used for Relay nodes (RNs) and UICC (USIM-RN) Resolution of Editor's Notes for Relay Node security procedures Corrections and Clarifications for Relay Node security procedures Correction on communication outside secure channel for Relay Node security procedures Modification of security context storage rate Corrections to communication between MME and DeNB for relay nodes Corrections to CR implementation
34.124	10.1.0	10.0.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Requirements for expanded 1900 MHz band for UTRA and LTE are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.10	Version at ARIB STD-T63 Ver.9.00	3GPP WG	Title	Change Summary
34.172	10.1.0	10.0.0	R5	Terminal conformance specification; Assisted Global Navigation Satellite Systems (A-GNSS); Frequency Division Duplex (FDD)	-Corrections to clause references(RP-110659) -Removal of lower humidity limit(RP-110659)
37.320	10.2.0	10.1.0	R2	Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); Radio measurement collection for Minimization of Drive Tests (MDT); Overall description; Stage 2	Clarification for logged MDT measurement configuration effectiveness Correction of log availability reporting Immediate MDT context handling during inter-PLMN handover MDT UL network measurements Signalling based Immediate MDT initiation with area scope configuration TCE ID parameter for logged MDT Miscellaneous corrections to 37.320 MDT Stage-2 Cleanup Introduction of the User consent CR to 37.320 to clean up description of RLF Reporting

(Annex 44)

3GPP ARIB Change history List of Standards Ver. 9.20

6 December 2011

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.307	4.18.0	4.17.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.307	5.17.0	5.16.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.307	6.14.0	6.13.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.102	7.21.0	7.20.0	R4	UE Radio transmission and reception (TDD)	A new DL power control test case for initial convergence for 1.28Mcps TDD is introduced.
25.307	7.10.0	7.9.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)
26.114	7.14.0	7.13.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Resolving reference to IETF Internet Draft is done.

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.101	8.15.0	8.14.0	R4	UE Radio transmission and reception (FDD)	UTRA Absolute Radio Frequency Channel Number (UARFCN) are corrected.
25.133	8.15.0	8.14.0	R4	Requirements for support of radio resource management (FDD)	Corrections for Thresholds and margins for reporting of neighbour cells in RRM tests A.8.6.1, A.8.6.2, A.8.7.1, A.8.7.2, A.5.4a, A.5.4b are made. Editorial corrections and introduction of Es/Noc in RRM tests A 4.5.1 and A 4.5.2, as well as correction to inter-RAT signal levels for band 17 are made.
25.214	8.12.0	8.11.0	R1	Physical layer procedures (FDD)	Clarify UE behavior when UE transitions from CELL_FACH to CELL_DCH.
25.307	8.8.0	8.7.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)
25.321	8.14.0	8.13.0	R2	MAC protocol specification	Corrections to Scheduling Information reporting
26.114	8.8.0	8.7.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of the reference to the “a=imageattr” attribute, Resolving reference to IETF Internet Draft and Clarification on SDP negotiation for video are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
26.237	8.6.0	8.5.0	S4	IMS based PSS and MBMS User Service; Protocols	On Resolving IETF dependencies is done.
31.102	8.13.0	8.12.0	C6	Characteristics of the USIM Application	– Clarification of ACL in EPS Network
36.101	8.15.0	8.14.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Unnecessary channel bandwidths from REFSENS tables is removed. Clarification on BS precoding information field for the RI FDD test is made. Requirements for Band 14 receiver is introduced. Correction on the accuracy test of CQI, CQI mapping index of TDD RI test , code block numbers for some RMCs (Reference Measurement Channels), uplink RMC for FDD and TDD are made. Codebook subset restriction for single layer closed-loop spatial multiplexing test: is introduced.
36.133	8.15.0	8.14.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Thresholds and margins for reporting of neighbour cells in RRM test A.8.9.1, for RRM tests A.5.2.1 and A.5.2.2, for RRM tests A.5.2.4 and A.5.2.5 are corrected. Condition of UTRA TDD measurement report delay requirements is added. Square brackets on some requirements in section 8.1.2.2.2.2 are removed. Clarification on time points and time duration for RLM tests A.7.3.x is made. Correction of references is made. Missing RSRQ in Intra-frequency measurement requirements are introduced as correction.
36.307	8.4.0	8.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Band 22 requirements for LTE/UMTS 3500 (FDD) is added.
36.321	8.10.0	8.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	CSI/SRS reporting during DRX

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
36.331	8.15.0	8.14.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	GERAN SI format for cell change order&PS handover to GERAN

7. Release 9

7.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.20		3GPP WG	Title	New Document Summary
37.571-5	9.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC): User Equipment (UE) conformance specification for UE positioning, Part 5: Test scenarios and assistance data	This document specifies the test scenarios and assistance data required for the conformance test for FDD or TDD mode of UTRA and E-UTRA for the User Equipment (UE) that supports one or more of the defined positioning methods.

7.2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.101	9.8.0	9.7.0	R4	UE Radio transmission and reception (FDD)	Correction as a clarification of ACLR requirements for DC-HSUPA is made. Clarification of spectrum emission mask requirements is made. Correction of UE Relative code domain power accuracy requirements are made. UTRA Absolute Radio Frequency Channel Number (UARFCN) are corrected.
25.133	9.9.0	9.8.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes made in version 8.15.0 are also made.
25.214	9.7.0	9.6.0	R1	Physical layer procedures (FDD)	Clarify UE behavior when UE transitions from CELL_FACH to CELL_DCH.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.304	9.6.0	9.5.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Lifetime of dedicated priorities
25.306	9.8.0	9.7.0	R2	UE Radio Access capabilities	Clarification on DCHSUPA dependence on MAC-i/is Correction to UE capability parameters for handover to CSG cell
25.307	9.4.0	9.3.0	R2	Requirements on UE supporting a release-independent frequency band	Removal of System Information Block Type 5bis for release independent band XXV Add Band XXII for LTE/UMTS 3500 (FDD)
25.321	9.7.0	9.6.0	R2	MAC protocol specification	Corrections to Scheduling Information reporting
25.467	9.5.0	9.4.1	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Remaining UE Context Issue during Mobility
25.468	9.4.0	9.3.0	R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Remaining UE Context Issue during Mobility
26.090	9.1.0	9.0.0	S4	AMR speech Codec; Transcoding Functions	Correction of equation for pitch sharpening is done.
26.114	9.6.0	9.5.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of the reference to the "a=imageattr" attribute and clarification on SDP negotiation for video are done.
26.237	9.7.0	9.6.0	S4	IMS based PSS and MBMS User Service; Protocols	On Resolving IETF dependencies is done.
31.102	9.8.0	9.7.0	C6	Characteristics of the USIM Application	Clarification of ACL in EPS Network
33.310	9.7.0	9.6.0	S3	Network domain security; Authentication framework (NDS/AF)	Correction of the signature algorithm used for CMP message protection

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
34.108	9.6.0	9.5.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Adding RF procedure for DC-HSUPA tests - Removal of A-GPS Assistance Data - Addition of the default RADIO BEARER SETUP message (FDD) for support of 16QAM+MIMO for HSDPA. And other corrections.
34.114	9.2.0	9.1.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Update on abbreviation list in section 3.2
34.121-1	9.6.0	9.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	New test cases for DC-HSUPA and Rel-9 RRM test cases are introduced.
34.121-2	9.6.0	9.5.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes are related to 34.121-1 changes.
34.123-1	9.6.0	9.5.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	New test cases such as emergency bearer service over IMS are introduced.
34.123-2	9.6.0	9.5.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes are related 34.123-1 changes.
34.123-3	9.1.0	9.0.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Addition of GCF WI-070/110/118/129 test cases.
34.171	9.3.0	9.2.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Transfer of A-GPS Assistance Data to TS 37.571-5

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
34.229-1	9.6.0	9.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	- Update generic procedure for MTSI MO speech - Update generic procedures for IMS emergency call - Update test case 19.4.1 - Addition of new test case 12.18 - Addition of new test case 12.20
34.229-2	9.6.0	9.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	- Applicability of new test cases for SSAC
34.229-3	9.1.0	9.0.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	- CR to 34.229-3 (prose) update to v910
36.101	9.9.0	9.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corresponding changes made in version 8.15.0 are captured. ACK/NACK feedback mode for sustained data rate test is corrected. MBSFN FDD requirements is corrected. TDD MBMS performance requirements for 64QAM mode is corrected. Dual-layer beamforming demodulation requirements is corrected for the purpose of clarification.
36.104	9.9.0	9.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Necessary changes for Band 3/III operation in Japan are made.
36.133	9.9.0	9.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Coosponding changes in version 8.15.0 are made. Requirements for RRC Connection Release with Redirection for TDD are introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
36.141	9.9.0	9.8.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Necessary corrections for Band 3/III operation in Japan is made.
36.212	9.4.0	9.3.0	R1	Evolved Universal Terrestrial Radio Access (E-UTRA); Multiplexing and channel coding	Correction on ACK/NACK mapping.
36.300	9.8.0	9.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	RLC/MAC synchronization for MBSFN
36.304	9.8.0	9.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Correction of inter-frequency or inter-RAT cell reselection criteria for UTRA TDD case
36.305	9.8.0	9.7.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Clarification on E-CID method
36.306	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Correction to UE capability parameters for handover to CSG cell
36.307	9.4.0	9.3.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Corresponding change made in ver.8.4.0 (introducing band 22) is made.
36.321	9.4.0	9.3.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Clarifications on MCH reception and Stop MTCH CSI/SRS reporting during DRX
36.331	9.8.0	9.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Correction to Subframe Allocation End in PMCH-Info 36.331 correction on CSG identity validity to allow introduction of CSG RAN sharing Clarification on for which subframes signalling MCS applies GERAN SI format for cell change order&PS handover&enhanced redirection to GERAN

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
36.355	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Various corrections to LPP Mandatory support of PRS for OTDOA measurements
36.508	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	- Addition of the 'Expanded 1900 MHz band' as operating band 25 to TS 36.508 - Band 24 Details for Signalling part of 36.508 - Add new SI combination - Update of HRPD/1xRTT test frequencies, pre-registration procedures and message contents - Addition of default GERAN message PS HANDOVER COMMAND - Combined parallel procedures between EUTRA/EPC and IMS emergency call - RF/RRM State 3A-RF: Editors note
36.509	9.5.0	9.4.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	- Update of IP PDU handling when in CDMA2000 mode - Update of LTE MBMS test function
36.521-1	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Introduction of Band25. Addition of PDSCH performance test.
36.521-2	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes are related to 36.521-1 changes.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
36.521-3	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Changes are related to 36.521-1 changes. New TCs - inter/intra frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX – are added.
36.523-1	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases for 1xCSFB. Addition of new eMBMS test cases.
36.523-2	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes are related to 36.523-1 changes. Addition of band 25
36.523-3	9.1.0	9.0.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of GCF WI-81/82/86/87/88/91 test cases.

8. Release 10

8.1. Added Standards

Added Standard Number	Version at ARIB STD-T63 Ver.9.20		3GPP WG	Title	New Document Summary
34.114	10.0.0		R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	This document describes test procedure for the radiated performances measurements of the 3G/2G user equipment/mobile stations (UE/MS) in active mode in both the up- and the downlink.
34.121-1	10.0.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	This document specifies the UTRA measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements in addition to requirements for support of RRM (Radio Resource Management) in FDD mode.
34.121-2	10.0.0		R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation User Equipment (UE), in compliance with the relevant requirements,

8. 2. Revised Standards

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
22.101	10.7.0	10.6.0	S1	Service aspects; Service principles	SIPTO in the Mobile Operator Network and Local Residential/Enterprise Network

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
22.268	10.1.0	10.0.0	S1	Public Warning System (PWS) requirements	Korean Public Alert System specific requirements
23.228	10.6.0	10.5.0	S2	IP Multimedia Subsystem(IMS); Stage 2	Mention of the IMS-AGW is added.
25.101	10.3.0	10.2.0	R4	UE Radio transmission and reception (FDD)	As corresponding changes made in version 9.8.0, correction of UE Relative code domain power accuracy requirements, clarification of spectrum emission mask requirements and clarification of ACLR requirements for DC-HSUPA are made. As further changes, addtition of Band XXII for LTE/UMTS 3500 (FDD) , correcton of UTRA Absolute Radio Frequency Channel Number (UARFCN), UE core requirements for Band XXV, completion of UE demodulation performance requirements for 4C-HSDPA and introduction of UE CQI reporting requirements for 4C-HSDPA are made.
25.104	10.3.0	10.2.0	R4	Base Station (BS) radio transmission and reception (FDD)	Requirements for Band 42 and 43 (LTE 3500 (TDD)), Band 22/XXII (LTE/UMTS 3500 (FDD)) are introduced. Co-existence requirements are corrected. Updating BS Coexistence table for Band 23 and introduction of HS-DPCCH detection requirements for 4C-HSDPA are made.
25.113	10.2.0	10.1.0	R4	Base station and Repeater electromagnetic compatibility (EMC)	Requirements for Band 22/XXII (LTE/UMTS 3500 (FDD)) are introduced.
25.133	10.3.0	10.2.0	R4	Requirements for support of radio resource management (FDD)	Corresponding changes made in version 9.8.0 are also made. Requirements for Band XXII for LTE/UMTS 3500 (FDD), Band 42/43 for LTE/UMTS 3500 (TDD) are added. Correction to cell reselection requirements for higher priority layer and correction to measurement reporting requirements are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.141	10.3.0	10.2.0	R4	Base Station (BS) conformance testing (FDD)	Requirements for Band 42 and 43 (LTE 3500 (TDD)), Band 22/XXII (LTE/UMTS 3500 (FDD)) are introduced. Co-existence requirements are corrected. Updating BS Coexistence table for Band 23 and introduction of S-CPICH power offset accuracy test are made.
25.214	10.4.0	10.3.0	R1	Physical layer procedures (FDD)	Clarify UE behavior when UE transitions from CELL_FACH to CELL_DCH.
25.302	10.2.0	10.1.0	R2	Services provided by the physical layer	Correction to the model of physical layer for 1.28Mcps TDD multi-carrier HSDPA
25.304	10.2.0	10.1.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	25.304 CR including ePLMN support for ANR Lifetime of dedicated priorities Clean up MDT text
25.306	10.4.0	10.3.0	R2	UE Radio Access capabilities	Introduction of optional Rel-10 features Clarification on DCHSUPA dependence on MAC-i/is Correction to UE capability parameters for handover to CSG cell
25.307	10.2.0	10.1.0	R2	Requirements on UE supporting a release-independent frequency band	Add Band XXII for LTE/UMTS 3500 (FDD)
25.319	10.6.0	10.5.0	R2	Enhanced uplink; Overall description; Stage 2	Corrections to Scheduling Information reporting
25.321	10.4.0	10.3.0	R2	MAC protocol specification	Corrections to Scheduling Information reporting

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
25.423	10.4.0	10.3.0	R3	UTRAN Iur interface RNSAP signalling	Corrections to UMTS ANR Clarification on M1 and M2 in MDT Configuration over Iur Clarification on MDT Recording Session Reference in MDT Configuration Area scope RAI list in MDT configuration Correction of Frequency Band Indicator, adding Band XXV Rapporteur corrections Correction of some generic references to dated references Correction of the CELL_DCH Measurement Occasion Information for 1.28Mcps TDD
25.433	10.4.0	10.3.0	R3	UTRAN Iub interface NBAP signalling	Correction of some generic references to dated references Correction of the CELL_DCH Measurement Occasion Information for 1.28Mcps TDD
25.435	10.3.0	10.2.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Addition of Cell Portion ID in the FACH DATA FRAME for 1.28Mcps TDD
25.467	10.3.0	10.2.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Corrections on Partial Failure During Enhanced H2H Mobility Access Control for Soft Handover between HNBs Stage 2 clean-up for HNB mobility Remaining UE Context Issue during Mobility Correction to protocol stack SHO for different Iurh Connectivity Security Mechanism for H(e)NB "no-IPsec" usage option
25.468	10.2.0	10.1.0	R3	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	Remaining UE Context Issue during Mobility
26.090	10.1.0	10.0.0	S4	AMR speech Codec; Transcoding Functions	Correction of equation for pitch sharpening is done.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
26.114	10.1.0	10.0.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction of the reference to the “a=imageattr” attribute, corrections related to unsupported video codecs, correction of functional requirements for jitter buffer management, clarification on SDP negotiation for video, example configurations for H.264 AVC Level 1.2 and signalling applicable AMR/AMR-WB mode set in SDP answer are done.
26.131	10.3.0	10.2.0	S4	Terminal acoustic characteristics for telephony; Requirements	Note on applicability of WB sidetone delay is carried out.
26.132	10.2.0	10.1.0	S4	Speech and video telephony terminal acoustic test specification	Correction to Acoustic Echo Control is done.
26.234	10.2.0	10.1.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	High Profile 3.1 Support for DASH is done.
26.237	10.3.0	10.2.0	S4	IMS based PSS and MBMS User Service; Protocols	Definition of MIME type for bookmarking, file naming convention for XML schemas and on Resolving IETF dependencies are carried out.
26.346	10.1.0	10.0.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Time Synchronisation between UE and BM-SC, clarification of the TMGI Format, missing QoE Attributes for FLUTE Transport and on counting clarifications are carried out.
27.007	10.5.0	10.4.0	C1	AT command set for 3G User Equipment (UE)	– +CGDATA, correction of syntax – Cleanups for WI AT_UICC – CREG, CREG and CGREG: clarification for ‘out of coverage’ – Clarifying the indication of availability for voice calls in the IMS and in the PS

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
31.102	10.3.0	10.2.0	C6	Characteristics of the USIM Application	– Clarification of ACL in EPS Network 10.3.0 – Correction to NAS configuration parameters coding
31.111	10.4.0	10.3.0	C6	USIM Application Toolkit (USAT)	- Corrections to IMS Registration Event and Open Channel for IMS USAT commands
31.121	10.2.1	10.1.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	- Essential correction of tests 11.2 and 11.3 - Essential correction of test 5.2.2 - Correction of formatting of table 5-2
31.124	10.2.0	10.1.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	– Essential correction of the Terminal Profile entries in table E.1] – Essential correction of Send Short message tests – Essential correction of Data Destination Address settings in BIP and Launch Browser tests – Essential Correction to Tag length in Provide Local Information test – Essential Correction to Network Rejection Event test
33.234	10.1.0	10.0.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	Removal of last step in tunnel authentications
33.310	10.4.0	10.3.0	S3	Network domain security; Authentication framework (NDS/AF)	CMPv2 profile Correction of the signature algorithm used for CMP message protection

Revised Standard Number	Version at ARIB STD-T63 Ver.9.20	Version at ARIB STD-T63 Ver.9.10	3GPP WG	Title	Change Summary
33.401	10.2.0	10.1.1	S3	3GPP System Architecture Evolution (SAE); Security architecture	Clarification on PDCP integrity requirement for Un interface Correction on eNB management connection security Correction on RN management connection security Specification of profile and revocation handling for UICC certificates with relay nodes Clarification of integrity protection for relay nodes Corrections on RN start-up security procedures
33.402	10.1.0	10.0.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Removal of last step in tunnel authentications
34.124	10.2.0	10.1.0	R4	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	Requirements for Band 22/XXII (LTE/UMTS 3500 (FDD)) are introduced.
37.320	10.3.0	10.2.0	R2	Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E- UTRA); Radio measurement collection for Minimization of Drive Tests (MDT); Overall description; Stage 2	Immediate MDT context handling during inter-PLMN handover Miscellaneous corrections to 37.320 Editorial corrections

(Annex 45)

3GPP ARIB Change history List of Standards Ver. 9.30

3 July 2012

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

3GPP TSG #55 Xiamen , Chaina

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.307	4.19.0	4.18.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

3GPP TSG #55 Xiamen , China

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.307	5.18.0	5.17.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

3GPP TSG #55 Xiamen , China

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.307	6.15.0	6.14.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307
26.346	6.14.0	6.13.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Clarification of the TMGI format is done
31.111	6.15.0	6-14.0	C6	USIM Application Toolkit (USAT)	Correction of MMS transfer status and MMS notification conditions

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

3GPP TSG #54 Berlin , Germany

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.221	7.12.0	7.11.0	R1	Physical channels and mapping of transport channels onto physical channels(TDD)	Clarify the mapping relationship between the TPC commands on the non-scheduled E-PUCH and the DL timeslot and CCTrCH pairs for LCR TDD

3GPP TSG #55 Xiamen , Chaina

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
23.203	7.13.0	7.12.0	S2	Policy and charging control architecture	Clarified the usage of deferred mode operations for PCC-rules
25.307	7.11.0	7.10.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307
26.114	7.16.0	7.15.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correcting order of SDP lines is done.
26.346	7.11.0	7.10.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Clarification of the TMGI format is done.
31.111	7.17.0	7.16.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

3GPP TSG #54 Berlin , Germany

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
23.041	8.7.0	8.6.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction to UE warning message indication with regards to “digital signature” and “timestamp”
23.107	8.2.0	8.1.0	S2	I Quality of Service (QoS) concept and architecture	It is clarified that when mapping R'99 QoS SDU Error Ratio to R'97/98 QoS reliability class, the reliability class is set to 3 instead of 2 when SDU Error Ratio is $\leq 10^{-5}$.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.319	8.12.0	8.11.0	R2	Enhanced uplink; Overall description; Stage 2	Cleanup corrections for enhanced uplink operation with MAC-i
26.114	8.9.0	8.8.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction to H.264 RTP Payload Format Reference and alignment of SDP Capneg usage with MTSI deployments are done
26.237	8.7.0	8.6.0	S4	IMS based PSS and MBMS User Service; Protocols	On Resolving IETF dependencies.
26.346	8.6.0	8.5.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	AlternativeUnicastDelivery and Time Synchronisation between UE and BM-SC are done.
27.007	8.15.0	8.14.0	C1	AT command set for 3G User Equipment (UE)	Correcting syntax of +CMER Corrections to +CGCONTRDP
31.102	8.14.0	8.13.0	C6	Characteristics of the USIM Application	Correction to Allowed CSG List coding
36.101	8.16.0	8.15.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Clarification of emission requirements with respect to out-of-band emissions and spurious emissions domains, the expected TE behaviour during rank switching, and UE category for reference measurement channels, are made. And also some reference measurement channels, and spurious emission requirements for FDD-TDD coexistence case, are added.
36.133	8.16.0	8.15.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corrections of inter-frequency measurement accuracy RSRP test cases, the identification time in DRX for UTRA TDD, and E-UTRAN TDD-TDD inter frequency handover test case are made. And also thresholds and margins for RRM tests (A.8.11.3 and A.8.11.4) are changed.
36.321	8.11.0	8.10.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	CSI/SRS reporting at DRX state transitions

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.331	8.16.0	8.15.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification on SPS intervals Clarification of the event B1 and ANR related FGI bits Clarification on parallel message transmission upon connection re-establishment 36.331 CR SPS reconfiguration

6. 2. Revised Standards

3GPP TSG #55 Xiamen , China

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
21.101	8.4.0	8.3.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Changes to list of Specs: UTRAN systems
21.201	8.5.0	8.4.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Changes to list of Specs: LTE systems
21.202	8.5.0	8.4.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Changes to list of Specs: common IMS
22.168	8.2.0	8.1.0	S1	Earthquake and Tsunami Warning System (ETWS) requirements; Stage 1	Security requirement correction
23.041	8.8.0	8.7.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Redocumentation and alignment of the public warning system
23.203	8.13.0	8.12.0	S2	Policy and charging control architecture	Clarified the usage of deferred mode operations for PCC-rules Adding description that the PCRF shall provide SDF filters in the PCC rule as received in the packet filter information from the PCEF. And the PCRF shall provide the QCI/ARP in the PCC rule as the received packet filters when it receives Resource Modification Request event trigger.
25.212	8.7.0	8.6.0	R1	Multiplexing and channel coding (FDD)	In 4.6C.1 and 4.6C.2.2.1 it is clarified that target cell HS-SCCH order shall be transmitted using HS-SCCH type 1 only.
25.214	8.13.0	8.12.0	R1	Physical layer procedures (FDD)	Clarification of when to use synchronization procedure A when UE transitions from CELL_FACH to CELL_DCH (4.3.2.1).

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.307	8.9.0	8.8.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307
25.423	8.13.0	8.12.0	R3	UTRAN Iur interface RNSAP signalling	The role of RNC in RNSAP Reset procedure
26.114	8.10.0	8.9.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correcting order of SDP lines, and SDP examples without SDPCapNeg are done.
26.346	8.7.0	8.6.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Clarification of the TMGI Format is done.
31.111	8.12.0	8.11.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223
31.115	8.2.0	8.1.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 225 reference
31.116	8.2.0	8.1.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 226 reference
33.220	8.9.0	8.8.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Correction of misimplementation of Change Requests on KDF FC value allocations
33.402	8.7.0	8.6.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction to length of MIP-RK
36.101	8.17.0	8.16.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Annexes related to reference measurement channels are corrected. UE spurious emission requirements for Band 7 and Band 38 coexistence are partially corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.133	8.17.0	8.16.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Thresholds and margins for E-UTRAN to C2K RRM, reselection test cases, Thresholds and margins in RRM test case A.8.11.4, TDD PRACH Test cases value of PRACH Configuration Index and first preamble power, PDSCH and OCNG pattern in PRACH Test cases A.6.2.1 and A.6.2.3 are corrected.
36.307	8.5.0	8.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	A new section for Band 26/XXVI as release 8 Band 26/XXVI is introduced.
36.321	8.12.0	8.11.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Correction to multiplexing and assembly

7. Release 9

7.1. Added Standards

3GPP TSG #54 Berlin , Germany

Added Standard Number	Version at ARIB STD-T63 Ver.9.30		3GPP WG	Title	New Document Summary
37.571-1	9.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	This document specifies the procedures for the conformance test of the measurement requirements for FDD mode of UTRA and FDD or TDD mode of E-UTRA for the User Equipment (UE) that supports one or more of the defined positioning methods. - For UTRA: A-GPS, A-GNSS - For E-UTRA: A-GNSS, OTDOA, ECID
37.571-2	9.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	This document specifies the protocol conformance testing for the 3rd Generation UTRAN and E-UTRAN User Equipment (UE) supporting UE positioning. This is the second part of a multi-part test specification.
37.571-3	9.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation UTRAN and E-UTRAN User Equipment (UE) supporting UE positioning, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 and ISO/IEC 9646-7.

7.2. Revised Standards

3GPP TSG #54 Berlin , Germany

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
23.041	9.7.0	9.6.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction to UE warning message indication with regards to "digital signature" and "timestamp"
23.107	9.3.0	9.2.0	S2	Quality of Service (QoS) concept and architecture	It is clarified that when mapping R'99 QoS SDU Error Ratio to R'97/98 QoS Reliability class the reliability class is set to 3 instead of 2 when SDU Error Ration is $\leq 10^{-5}$.
25.133	9.10.0	9.9.0	R4	Requirements for support of radio resource management (FDD)	Missing bands for test cases are added.
25.304	9.7.0	9.6.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	CR to 25.304 on Clarification of inter-RAT cell reselection enhancements Clarification to absolute priority based criteria
25.319	9.7.0	9.6.0	R2	Enhanced uplink; Overall description; Stage 2	Cleanup corrections for enhanced uplink operation with MAC-i
25.423	9.8.0	9.7.0	R3	UTRAN Iur interface RNSAP signalling	Support of dynamic HS-SCCH order for DTXDRX
25.425	9.3.0	9.2.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Indicator for DTXDRX HS-SCCH order
25.433	9.8.0	9.7.0	R3	UTRAN Iub interface NBAP signalling	Correct missing SPI reference in tabular Support of dynamic HS-SCCH order for DTXDRX
25.435	9.5.0	9.4.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Indicator for DTXDRX HS-SCCH order
25.467	9.6.0	9.5.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Correction of Emergency Call

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
26.114	9.7.0	9.6.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction to H.264 RTP Payload Format Reference, Correction in ECN-related nodes of MTSIMA, Correction in the usage of mode-set with MTSIMA and Update of reference for ECN are done.
26.234	9.7.0	9.6.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Alignment with 3GP-DASH and MPEG DASH, clarification on profile signaling and clarification on PSS capability Exchange for Peripheral Device Support are done.
26.237	9.8.0	9.7.0	S4	IMS based PSS and MBMS User Service; Protocols	On Resolving IETF dependencies.
26.244	9.5.0	9.4.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Alignment with 3GP-DASH and MPEG DASH is done.
26.346	9.5.0	9.4.1	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	QoE Changes to support FLUTE, alternativeUnicastDelivery, Time Synchronisation between UE and BM-SC, clarification of QoE applicability, correction to MBMS Session Identity and EPS support and File Repair Error Code are done.
27.007	9.8.0	9.7.0	C1	AT command set for 3G User Equipment (UE)	Correcting syntax of +CMER Corrections to +CGCONTRDP
31.102	9.9.0	9.8.0	C6	Characteristics of the USIM Application	Correction to Allowed CSG list and Operator CSG list coding
31.116	9.1.0	9.0.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Update of reference to ETSI TS 102 226
31.130	9.3.0	9.2.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Correction to TAG_CSG_SELECTION_STATUS Correction to constant value in TerminalProfile.java

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
34.108	9.7.0	9.6.0	R5	Common test environments for User Equipment (UE); Conformance testing	- Add new SIB scheduling for long SIB5/SIB5bis - Adding band XXII (3500MHz) to 34.108 - Correction the TFCI code word / radio frame for downlink in 6.11.5.4.14 for LCR TDD - Use of IPv4 in session setup procedure - Introduction of reference radio bearer combination for NISPC testing
34.114	9.3.0	9.2.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Removal of technical content in 34.114 v9.2.0 and substitution with pointer to the next Release
34.121-1	9.7.0	9.6.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Removal of technical content in 34.121-1 v9.6.0 and substitution with pointer to the next Release
34.121-2	9.7.0	9.6.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Removal of technical content in 34.121-2 v9.6.0 and substitution with pointer to the next Release
34.123-1	9.7.0	9.6.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of test cases related to LCR TDD, DC-HSUPA and CSG cell. Adding Band XXII.
34.123-2	9.7.0	9.6.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1 changes.
34.123-3	9.2.0	9.1.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Addition of WI-118/129/130 test cases.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
34.229-1	9.7.0	9.6.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Update test cases.
34.229-2	9.7.0	9.6.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	- Correction to applicability for test case 19.5.9 and 19.5.10 - Update test case numbering
34.229-3	9.2.0	9.1.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Routine maintenance and updates for IMS ASP
36.101	9.10.0	9.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The corresponding changes made in V8.16.0 are done. Definition of scrambling identities for TDD MU-MIMO test case, correction of TM8 power allocation setting, removal of square brackets for all PUCCH 2-1 and PUSCH 2-2 PMI requirements, and updating parameters for TDD SDR conformance test are made.
36.104	9.10.0	9.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Editorial correction to ambiguous note is made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.133	9.10.0	9.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The corresponding changes made in V8.16.0 are done. Expected RSTD and Expected RSTD uncertainty in RSTD test cases, RSTD test cases, and PRS bandwidth are clarified. Test case for enhanced UTRA TDD cell identification, test case for E-UTRAN FDD - UTRAN TDD enhanced cell identification, test case for RRC connection release with redirection to UTRAN FDD, test case for RRC connection release with redirection to UTRAN TDD, test case for RRC connection release with redirection to GERAN, and Band XX are added. And also Removing square brackets in TDD CSFB requirements and editor's note in RSTD requirements, and Changing thresholds and margins in RRM test cases (A.8.11.5 and A.8.11.6) are made.
36.300	9.9.0	9.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	Correction of Emergency call
36.304	9.9.0	9.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Clarification of inter-RAT cell reselection enhancements
36.306	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Optionality of SR Masking Optionality of UE Rx-Tx time difference report
36.321	9.5.0	9.4.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	CSI/SRS reporting at DRX state transitions

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.331	9.9.0	9.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification on SPS intervals Clarification of the event B1 and ANR related FGI bits 36.331 CR SPS reconfiguration Clarification on parallel message transmission upon connection re-establishment
36.355	9.8.0	9.7.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Clarification of packed encoding rules of LPP Clarification of first bit in BIT STRING definitions
36.508	9.7.0	9.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Adding Band 22. Update for 1xRTT registration.
36.521-1	9.7.0	9.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Support for band 22, 42, and 43.
36.521-2	9.7.0	9.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	- Correction the content of A.4.4-1_16 in 36.521-2 - Correction to the test case condition of C12 in 3GPP TS 36.521-2 - Adding band 22 (3500MHz FDD) to 36.521-2 - Requirement change in UE spurious emissions for Band 7 and 38 co-existence (Rel-8 only) - Update of FGI bit table in 36.521-2 - RF: Update of the applicability list

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.521-3	9.7.0	9.6.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Adding band 22. Test cases update.
36.523-1	9.7.0	9.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Adding new test cases.
36.523-2	9.7.0	9.6.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes.
36.523-3	9.2.0	9.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of WI-81/82/86/87/88/91/95/97 test cases.
37.571-5	9.1.0	9.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning, Part 5: Test scenarios and assistance data	- Removal of editor's notes on OTDOA values - Correction of references

3GPP TSG #55 Xiamen , Chaina

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
21.101	9.2.0	9.1.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Changes to list of Specs: UTRAN systems
21.201	9.2.0	9.1.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Changes to list of Specs: LTE systems
21.202	9.3.0	9.2.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Changes to list of Specs: common IMS
22.268	9.4.0	9.3.0	S1	Public Warning System (PWS) requirements	PWS Security requirement correction
23.041	9.8.0	9.7.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Redocumentation and alignment of the public warning system
23.203	9.11.0	9.10.0	S2	Policy and charging control architecture	Clarified the usage of deferred mode operations for PCC-rules Adding description that the PCRF shall provide SDF filters in the PCC rule as received in the packet filter information from the PCEF. And the PCRF shall provide the QCI/ARP in the PCC rule as the received packet filters when it receives Resource Modification Request event trigger. It is clarified that the PCRF shall not remove the Usage report event trigger while usage monitoring is still active in the PCEF. Remove the obsolete NOTE.
25.133	9.11.0	9.10.0	R4	Requirements for support of radio resource management (FDD)	SCH_RP levels for Inter-RAT E-UTRA TDD SI Reading is corrected. (No corresponding change in release 10 is required since the level has already been corrected in Rel-10).
25.212	9.5.0	9.4.0	R1	Multiplexing and channel coding (FDD)	In 4.6C.1 and 4.6C.2.2.1 it is clarified that target cell HS-SCCH order shall be transmitted using HS-SCCH type 1 only.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.214	9.8.0	9.7.0	R1	Physical layer procedures (FDD)	Clarification of when to use synchronization procedure A when UE transitions from CELL_FACH to CELL_DCH (4.3.2.1).
25.307	9.5.0	9.4.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307
25.423	9.9.0	9.8.0	R3	UTRAN Iur interface RNSAP signalling	The role of RNC in RNSAP Reset procedure
26.114	9.8.0	9.7.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correcting order of SDP lines is done.
26.234	9.8.0	9.7.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections and further recommendations on PSS vocabulary for broader device type support is done.
26.346	9.6.0	9.5.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Clarification of the TMGI format, addition of complete FDT & USD schema, correction of StaR-only sample percentage, backoff timer initialisation and RACK timer initialisation in MBMS reception reporting mechanism, clarification on 3GPP file format support for MBMS, correction of USD bundle extension, specification of AHS layer QOE operation, reference to approved RFC for IANA registration of SDP identifiers for source and repair packets , MBMS scheduling information, and aligning security parameters in Service Protection Description with SA3 MBMS TS are done.
31.111	9.7.0	9.6.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223
31.115	9.1.0	9.0.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 225 reference
31.116	9.2.0	9.1.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 226 reference
31.130	9.4.0	9.3.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Correction to TAG_CSG_SELECTION_STATUS Correction to constant value in TerminalProfile.java Update the reference to ETSI TS 102 241

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
33.220	9.4.0	9.3.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Correction of misimplementation of Change Requests on KDF FC value allocations
33.402	9.7.0	9.6.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction to length of MIP-RK
34.108	9.8.0	9.7.0	R5	Common test environments for User Equipment (UE); Conformance testing	Removal of technical content in 34.108 v9.7.0 and substitution with pointer to the next Release
34.123-1	9.8.0	9.7.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Adding new test case 8.2.2.72, 8.3.11.17, 13.4.6, 13.4.7, 13.4.8, 14.7.3b/c. Other corrections.
34.123-2	9.8.0	9.7.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	Changes related to 34.123-1 changes.
34.123-3	9.3.0	9.2.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Addition of test case 7.1.7.1, 8.3.4.15a, 8.3.4.16, 8.3.4.16a, 13.3.1.4, 14.6.1e, 14.6.6d Other corrections.
34.171	9.4.0	9.3.0	R5	Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)	Void technical contents
34.229-1	9.8.0	9.7.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of test case 12.19 Other corrections and updates.
34.229-2	9.8.0	9.7.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Changes related to 34.229-1 changes

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
34.229-3	9.3.0	9.2.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	CR to 34.229-3 (prose) update to v930
36.101	9.11.0	9.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Corresponding changes in V8.17.0 as well as editorial corrections for RF requirements are made.
36.104	9.11.0	9.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Expression of BS output power requirements is corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.133	9.11.0	9.10.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Corresponding changes in V8.17.0 are made. RSTD signalling is modified. Test cases for E-UTRA TDD/FDD RRC connection release redirection to UTRA TDD without SI are corrected. E-UTRAN TDD-HRPD Cell Reselection: HRPD is of Lower Priority test case, E-UTRAN TDD-cdma2000 1X Cell Reselection: cdma2000 1X is of Lower Priority test case, E-UTRAN TDD-HRPD Handover test case, E-UTRAN TDD-cdma2000 1X Handover test case, E-UTRAN FDD-TDD inter frequency RSRQ measurement accuracy test case, E-UTRAN FDD-TDD Inter frequency cell reselection test case, E-UTRAN TDD-FDD Inter frequency cell reselection test case, E-UTRAN FDD-TDD Inter frequency handover test case, E-UTRAN TDD-FDD Inter frequency handover test case, E-UTRAN TDD-FDD Inter-frequency event triggered reporting under fading propagation conditions in asynchronous cells test case, E-UTRAN FDD-TDD Inter-frequency event triggered reporting under fading propagation conditions in asynchronous cells test case, E-UTRAN FDD-TDD inter frequency measurement accuracy test case are introduced. TDD PRACH Test cases value of PRACH Configuration Index and first preamble power , PRS BW definition for RSTD measurements, RSTD accuracy test cases for TDD are corrected.
36.304	9.10.0	9.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	MBMS Multibands Cell Selection and Reselection
36.307	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	A new section for Band 26/XXVI as release 9 Band 26/XXVI is introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.321	9.6.0	9.5.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification	Correction to multiplexing and assembly
36.331	9.10.0	9.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	CR to 36.331 on cdma2000 band classes and references Introducing means to signal different FDD/TDD Capabilities/FGIs for Dual-xDD UE
36.508	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Introduction of generic test procedure for SRVCC call handover to UTRA Other corrections and updates
36.521-1	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Removal of technical content in 36.521-1 v9.7.0 and substitution with pointer to the next Release
36.521-2	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Removal of technical content in 36.521-2 v9.7.0 and substitution with pointer to the next Release
36.521-3	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Addition of some EUTRA FDD<->TDD test cases. Uncertainties and Test Tolerance for EUTRA TDD test cases and EUTRA to HRPD test cases. Other corrections and updates
36.523-1	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases such as EUTRA FDD<->TDD, LTE-CDMA2000 HRPD, ..etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
36.523-2	9.8.0	9.7.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes
36.523-3	9.3.0	9.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of GCF WI-81/82/86/87/88/91 test cases.
37.571-1	9.1.0	9.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	Modify OTDOA procedures and ECID procedures.
37.571-2	9.1.0	9.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	Addition of test cases 7.3.4.1, 7.3.4.2, 7.3.4.3, 7.3.4.4 Other corrections.
37.571-3	9.1.0	9.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	Addition of missing test case applicability for test cases 7.3.4.1, 7.3.4.2, 7.3.4.3, and 7.3.4.4 Remove redundant mnemonics
37.571-5	9.2.0	9.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning, Part 5: Test scenarios and assistance data	OTDOA reference corrections Update references

8. Release 10

8.1. Added Standards

3GPP TSG #54 Berlin , Germany

Added Standard Number	Version at ARIB STD-T63 Ver.9.30		3GPP WG	Title	New Document Summary
34.108	10.0.0		R2	Common test environments for User Equipment (UE); Conformance testing	promoted from Rel-9 without change
36.521-1	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	This document specifies the measurement procedures for the conformance test of the user equipment (UE) that contain transmitting characteristics, receiving characteristics and performance requirements as part of the 3G Long Term Evolution (3G LTE).
36.521-2	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	This document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 and ISO/IEC 9646-7

8. Release 10

8.1. Added Standards

3GPP TSG #55 Xiamen , China

Added Standard Number	Version at ARIB STD-T63 Ver.9.30		3GPP WG	Title	New Document Summary
36.508	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	This document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in conformance tests for the 3rd Generation E-UTRAN UE.
36.521-3	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	This document specifies the measurement procedures for the conformance test of the UE that contain requirements for support of RRM as part of the 3G LTE.
36.523-1	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	This document is the first part of a multi-part conformance specification valid for 3GPP Release 8.
36.523-2	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	This document provides the Implementation Conformance Statement (ICS) proforma for 3GPP UE.

8. 2. Revised Standards

3GPP TSG #54 Berlin , Germany

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
22.146	10.1.0	10.0.0	S1	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	MBMS reception
23.220	10.8.0	10.7.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	H(e)NB emergency call support MBMS not supported for HeNB
22.268	10.2.0	10.1.0	S1	Public Warning System (PWS) requirements	CMAS Support in E-UTRAN Updates on Korean Public Alert System specific requirements
23.041	10.2.0	10.1.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction on Message Identifier for Korean Public Alert System Correction to UE warning message indication with regards to "digital signature" and "timestamp"
23.107	10.2.0	10.1.0	S2	Quality of Service (QoS) concept and architecture	It is clarified that when mapping R'99 QoS SDU Error Ratio to R'97/98 QoS Reliability class the reliability class is set to 3 instead of 2 when SDU Error Ration is $\leq 10^{-5}$.
23.203	10.5.0	10.4.0	S2	Policy and charging control architecture	Removal of Service Data Flow Based Credit Control Function, use OCS in its place. S4-SGSN change reporting is removed from EPC architecture.
23.228	10.7.0	10.6.0	S2	IP Multimedia Subsystem(IMS); Stage 2	ECN requirements for IMS-ALG/IMS-AGW are extended to support ECN endpoint
25.101	10.4.0	10.3.0	R4	UE Radio transmission and reception (FDD)	Re-defining the UARFCN numbers and alignment of spurious emissions requirements with TS 36.101 are made. And ACS case2 requirement for single band 4C-HSDPA is introduced.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.104	10.4.0	10.3.0	R4	Base Station (BS) radio transmission and reception (FDD)	Clarification of general blocking requirements for co-existence and the receiver requirements applied with the transmitter ON are made. And also correction of Band 42 and 43 is done.
25.133	10.4.0	10.3.0	R4	Requirements for support of radio resource management (FDD)	The corresponding change made in V9.10.0 is done. Identifying a new detectable cell in the inter frequency detected set without compressed mode, measurements on inter frequency detected set, "Enhanced inter-frequency measurements without compressed mode", and optional shorter value of TmeasureFDD and TmeasureE-UTRA for higher priority cells were introduced.
25.141	10.4.0	10.3.0	R4	Base Station (BS) conformance testing (FDD)	Clarification of general blocking requirements for co-existence, the receiver requirements applied with the transmitter ON, and S-CPICH power offset test are made. And also correction of Band 42 and 43 is done. HS-DPCCH demodulation performance testing for 4C-HSDPA is introduced.
25.214	10.5.0	10.4.0	R1	Physical layer procedures (FDD)	Clarify what CQI value the UE should report on a carrier currently experiencing a compressed mode gap.
25.304	10.3.0	10.2.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	CR to 25.304 on Clarification of inter-RAT cell reselection enhancements Clarification to absolute priority based criteria
25.306	10.5.0	10.4.0	R2	UE Radio Access capabilities	Correction of capability table Addition of the missing value ranges for 1.28Mbps TDD capabilities Introduction of the frequency specific compressed mode
25.308	10.6.0	10.5.0	R2	High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2	Downlink related corrections in TS 25.308 for LCR TDD

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.319	10.7.0	10.6.0	R2	Enhanced uplink; Overall description; Stage 2	Cleanup corrections for enhanced uplink operation with MAC-i Uplink related corrections in TS 25.319 for LCR TDD
25.321	10.5.0	10.4.0	R2	MAC protocol specification	Correction on Multi-frequency HS-DSCH Transport Block Sizes for 1.28 Mcps TDD MC-HSUPA related HARQ operation in UE for LCR TDD E-AGCH ECSN for Multi-carrier HSUPA for LCR TDD
25.423	10.5.0	10.4.0	R3	UTRAN Iur interface RNSAP signalling	Addition of TCE IP in IUR INVOKE TRACE Support for frequency specific compressed mode Support of dynamic HS-SCCH order for DTXDRX
25.425	10.2.0	10.1.0	R3	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	Indicator for DTXDRX HS-SCCH order
25.433	10.5.0	10.4.0	R3	UTRAN Iub interface NBAP signalling	Correct missing SPI reference in tabular Introduction of frequency specific compressed mode Support of dynamic HS-SCCH order for DTXDRX
25.435	10.4.0	10.3.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Indicator for DTXDRX HS-SCCH order
25.446	10.2.0	10.1.0	R3	MBMS synchronisation protocol(SYNC)	Correction on the Length of Spare Extension Correction on the Spare Extension
25.467	10.4.0	10.3.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Rapporteur update on specification references Access Control in RNSAP Relocation between HNBs Measurement configuration for Inbound Mobility Corrections on UE Registration Procedure Correction of Emergency Call

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
26.114	10.2.0	10.1.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Clarification of the methods to compute b=AS for speech, correction to H.264 RTP Payload Format Reference, correction in ECN-related nodes of MTSIMA, correction in the usage of mode-set with MTSIMA, Correction of Sequence Parameter Set NAL unit values in the examples of SDP offers and answers for H.264 video, on correction to H.264 frame reordering usage and Update of reference for ECN are done.
26.131	10.4.0	10.3.0	S4	Terminal acoustic characteristics for telephony; Requirements	Correction of sending idle channel noise requirement and corrections to volume control setting are done.
26.132	10.3.0	10.2.0	S4	Speech and video telephony terminal acoustic test specification	Correction to Ambient Noise Rejection Test Procedure and clarification of Stability loss test signal are done.
26.234	10.3.0	10.2.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections on QoE Support in PSS Vocabulary and profile signaling and Clarification on PSS Capability Exchange for Peripheral Device Support are done.
26.237	10.4.0	10.3.0	S4	IMS based PSS and MBMS User Service; Protocols	On Resolving IETF dependencies and registration of Content Reporting Configuration Info Package are done.
26.244	10.2.0	10.1.0	S4	Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)	Alignment with MPEG DASH is done.
26.247	10.1.1	10.0.0	S4	Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	Alignment with MPEG DASH, QoE Updates for Correction, clarification and MPEG DASH Alignment and QoS Support for 3GP-DASH Services are done
26.346	10.2.0	10.1.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Initialisation Segment incorporation in DASH over MBMS, alternativeUnicastDelivery, clarification of QoE applicability, correction to MBMS Session Identity and EPS support and File Repair Error Code are done.
27.007	10.6.0	10.5.0	C1	AT command set for 3G User Equipment (UE)	Correcting syntax of +CMER Corrections to +CGCONTRDP

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
31.102	10.4.0	10.3.0	C6	Characteristics of the USIM Application	Correction to Allowed CSG list and Operator CSG list coding Correction to EF_UICCIARI section number
31.116	10.1.0	10.0.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Update of reference to ETSI TS 102 226
32.121	10.3.0	10.2.1	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Essential correction of the phonebook and MMS tests applicability Deletion of test 9.1.6 (Access Point Name Control List handling for terminals not supporting ACL connected to E-UTRAN/EPC)
31.124	10.3.0	10.2.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification	Essential correction of SMS-PP Data Download test cases Essential correction to Channel Status After Link Dropped in E-UTRA Correction to test sequence content 4.3 and 4.4 for test case 27.22.4.1 of Table B.1 Essential correction to Steering of Roaming test case Essential correction to SMS-CB Applicability Essential correction to SMS-CB Applicability Essential correction to Play Tone test Correction of incorrect implementation of CR 255r3
31.130	10.2.0	10.1.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Correction to TAG_CSG_SELECTION_STATUS Correction to constant value in TerminalProfile.java
33.222	10.0.1	10..0	S3	Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)	Editorial correction of change history
33.310	10.5.0	10.4.0	S3	Network domain security; Authentication framework (NDS/AF)	CMPv2 profile

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
33.320	10.4.0	10.3.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	H(e)NB-LGW IP Address Assignment
33.402	10.2.0	10.1.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Authentication with external networks over S2b
34.109	10.1.0	10.0.0	R2	Terminal logical test interface; Special conformance testing functions	Corrections to UE test loop mode 4
34.114	10.1.1	10.0.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	- Introduction of alternative measurement procedure in TS 34.114 - Added missing changes of R5-115890 from Annex B onwards.
34.121-1	10.1.0	10.0.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Adding band 22. New DB-DC-HSDPA test cases.
34.121-2	10.1.0	10.0.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes related to 34.121-1 changes.
37.320	10.4.0	10.3.0	R2	Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); Radio measurement collection for Minimization of Drive Tests (MDT); Overall description; Stage 2	CR to 37.320 on Immediate MDT handling at handover Small Corrections to 37.320

3GPP TSG #55 Xiamen , Chaina

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
21.101	10.2.0	10.1.0	SP	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	Corrections to list of specifications
21.201	10.2.0	10.1.0	SP	Technical Specifications and Technical Reports relating to an Evolved Packet System (EPS) based 3GPP system	Changes to list of Specs: LTE systems
21.202	10.2.0	10.1.0	SP	Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS)	Changes to list of Specs: common IMS
22.268	10.3.0	10.2.0	S1	Public Warning System (PWS) requirements	PWS Security requirement correction
23.041	10.3.0.	10.2.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Redocumentation and alignment of the public warning system
23.203	10.6.0	10.5.0	S2	Policy and charging control architecture	Clarified the usage of deferred mode operations for PCC-rules Adding description that the PCRF shall provide SDF filters in the PCC rule as received in the packet filter information from the PCEF. And the PCRF shall provide the QCI/ARP in the PCC rule as the received packet filters when it receives Resource Modification Request event trigger. It is clarified that the PCRF shall not remove the Usage report event trigger while usage monitoring is still active in the PCEF. Remove the obsolete NOTE. Correct the P-CSCF to the PCRF
23.236	10.3.0	10.2.1	S2	Intra-domain connection of Radio Access Network(RAN) nodes to multiple Core Network (CN) nodes	The phrase "MSs configured for MTC" is replaced with the phrase "MSs configured for low access priority"

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
23.261	10.2.0	10.1.0	S2	IP flow mobility and seamless Wireless Local Area Network (WLAN) offload; Stage 2	Update the referred IETF document in the reference list and the related sub-clauses in TS 23.261.
25.101	10.5.0	10.4.0	R4	UE Radio transmission and reception (FDD)	Expression of upper range spurious emission requirements is corrected.(Upper range of the requirements is changed from "19GHz" to "5 th harmonics").
25.104	10.5.0	10.4.0	R4	Base Station (BS) radio transmission and reception (FDD)	Expression of upper range spurious emission requirements is corrected.(Upper range of the requirements is changed from "19GHz" to "5 th harmonics"). Band 23 HeNB specifications is added.
25.133	10.5.0	10.4.0	R4	Requirements for support of radio resource management (FDD)	Correction of Inter-RAT E-UTRA RSRP, RSRQ Test cases band dependency is made.
25.141	10.5.0	10.4.0	R4	Base Station (BS) conformance testing (FDD)	Expression of upper range spurious emission requirements is corrected.(Upper range of the requirements is changed from "19GHz" to "5 th harmonics"). Band 23 HeNB specifications is added. (These are the corresponding changes in the core specification, TS36.104).
25.144	10.1.0	10.0.0	R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	TRP and TRS requirements for UMTS band XIX is introduced.
25.212	10.2.0	10.1.0	R1	Multiplexing and channel coding (FDD)	In 4.6C.1 and 4.6C.2.2.1 it is clarified that target cell HS-SCCH order shall be transmitted using HS-SCCH type 1 only. Correction to 4C-HSDPA CQI report mapping scenarios table, Table 15C.4 in 4.7.4.2.
25.214	10.6.0	10.5.0	R1	Physical layer procedures (FDD)	Clarification of when to use synchronization procedure A when UE transitions from CELL_FACH to CELL_DCH (4.3.2.1). Clarification of UL DPCCH slot format when DPC_MODE is 1 and CPC is not enabled (5.2.1.2.1).
25.304	10.4.0	10.3.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification on the black listed cells for cell reselection to E-UTRA (Rel-10)
25.306	10.6.0	10.5.0	R2	UE Radio Access capabilities	Add up several missing optional capabilities Additional value for Total RLC AM Buffer Size value range

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
25.307	10.3.0	10.2.0	R2	Requirements on UE supporting a release-independent frequency band	Add Extending 850 MHz Upper Band (814 - 849 MHz) to TS25.307
25.423	10.6.0	10.5.0	R3	UTRAN Iur interface RNSAP signalling	The role of RNC in RNSAP Reset procedure Correction of placement of Power Offset For S-CPICH for MIMO Request Indicator I
26.114	10.3.0	10.2.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correcting order of SDP lines, correction of figure for RTP media and session set-up signaling paths , increasing optional codec level of H.264, and clarifying the usage of "a=imageattr" are done.
26.132	10.4.0	10.3.0	S4	Speech and video telephony terminal acoustic test specification	Correction of receiving distortion Is done
26.234	10.4.0	10.3.0	S4	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	Corrections and further recommendations on PSS vocabulary for broader device type support is done.
26.346	10.3.0	10.2.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Addition of complete FDT & USD schema, correction of StaR-only sample percentage, backoff timer initialisation and RACK timer initialisation in MBMS reception reporting mechanism, correction of USD bundle extension, specification of AHS layer QOE operation, reference to approved RFC for IANA registration of SDP identifiers for source and repair packets , MBMS scheduling information, aligning security parameters in Service Protection Description with SA3 MBMS TS, DASH layer QoE, TMGI & mbms-counting-indication correction, and clarification on 3GPP file format support for MBMS are done.
27.007	10.7.0	10.6.0	C1	AT command set for 3G User Equipment (UE)	+CESQ=?, removal of non-existing parameter <rep> +CESQ, alignment of parameters with value ranges in 3GPP TSs Correction of +CSUS
31.102	10.5.0	10.4.0	C6	Characteristics of the USIM Application	Correction of EF_ICON references in EF_LAUNCH_SCWS Update of reference to ETSI TS 102 484 FID allocation and other corrections to USIM for Relay Nodes

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
31.111	10.6.0	10.5.0	C6	USIM Application Toolkit (USAT)	Update of reference to ETSI TS 102 223 Correction to channel status data object
31.115	10.1.0	10.0.0	C6	Secured packet structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 225 reference
31.116	10.2.0	10.1.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Correction to ETSI TS 102 226 reference
31.121	10.4.0	10.3.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Essential correction of 5.2.2
31.124	10.4.0	10.3.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Test applicability correction of Open Channel with user rejection tests Essential correction to test 27.22.4.15 Seq. 1.15 Introduction of REFRESH with AID test
31.130	10.3.0	10.2.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Correction to TAG_CSG_SELECTION_STATUS Correction to constant value in TerminalProfile.java Update the reference to ETSI TS 102 241
33.220	10.1.0	10.0.0	S3	Generic Authentication Architecture (GAA); Generic bootstrapping architecture	Correction of misimplementation of Change Requests on KDF FC value allocations
33.234	10.2.0	10.1.0	S3	3G security; Wireless Local Area Network (WLAN) interworking security	The identity of the UICC-less UE in emergency call Corrections to IKEv2 procedure
33.402	10.3.0	10.2.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Corrections to IKEv2 procedure Correction to length of MIP-RK
34.108	10.1.0	10.0.0	R5	Common test environments for User Equipment (UE); Conformance testing	Removal of technical content in 34.108 v10.0.0 and substitution with pointer to the next Release

Revised Standard Number	Version at ARIB STD-T63 Ver.9.30	Version at ARIB STD-T63 Ver.9.20	3GPP WG	Title	Change Summary
34.114	10.2.0	10.1.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Added missing changes of R5-115890 from Annex B onwards. Correction to TRP and TRS Tests
34.121-1	10.2.1	10.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Adding band XXII Added new test cases such as new spurious emissions for DC-HSUPA. Other corrections.
34.121-2	10.2.0	10.1.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes related to 34121-1 changes.
34.172	10.2.0	10.1.0	R5	Terminal conformance specification; Assisted Global Navigation Satellite Systems (A-GNSS); Frequency Division Duplex (FDD)	Void technical contents
36.521-1	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Introduction of some test cases related to CA. ..etc.
36.521-2	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes related to 36.521-1 changes.

(Annex 46)

3GPP ARIB Change history List of Standards Ver. 9.40

September 25 2012

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

None

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

None

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

None

5. Release 7

5.1. Added Standards

None

5. 2. Revised Standards

3GPP TSG #56 Ljubljana

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
23.203	7.14.1	7.13.0	S2	Policy and charging control architecture	Clarified the meaning of complete PCC rule for deferred mode operations for PCC rules
26.114	7.17.0	7.16.0	S4	Correction to H.264 RTP Payload Format References	Correction to H.264 RTP Payload Format References (MTSI-MHI)

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

3GPP TSG #56 Ljubljana

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
23.041	8.9.0	8.8.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Alignment and correction of aspects for public warning system for GERAN
23.203	8.14.0	8.13.0	S2	Policy and charging control architecture	Clarified the meaning of complete PCC rule for deferred mode operations for PCC rules
25.101	8.16.0	8.15.0	R4	UE Radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.104	8.14.0	8.13.0	R4	Base Station (BS) radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.133	8.16.0	8.15.0	R4	Requirements for support of radio resource management (FDD)	Correction on idle state RSRP filter requirement on inter-RAT measurement from UTRAN to E-UTRAN is made.
25.141	8.15.0	8.14.0	R4	Base Station (BS) conformance testing (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.321	8.15.0	8.14.0	R2	MAC protocol specification	SI attachment during DCCH/DTCH EUL transmission in CELL_FACH state Total E-DCH buffer size in case of CCCH transmission
26.114	8.11.0	8.10.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correction to H.264 RTP Payload Format References

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
31.111	8.13.0	8.12.0	C6	USIM Application Toolkit (USAT)	Correction of bearer parameters for E-UTRAN / mapped UTRAN packet service
36.101	8.18.0	8.17.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	無線設備規則と齟齬があるため、トランスポートしない
36.104	8.13.0	8.12.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	無線設備規則と齟齬があるため、トランスポートしない
36.133	8.18.0	8.17.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Correction of a timer period in inter-frequency measurement tests, Correction of UL Transmit Timing Requirements, Clarifications of OCNG patterns and Editorial corrections are made. And also sr-ConfigIndex in TDD DRX test cases is changed.
36.141	8.12.0	8.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	無線設備規則と齟齬があるため、トランスポートしない
36.307	8.6.0	8.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	APAC700 (FDD), APAC700 (TDD), and Band 27 are introduced. And correction of references is made.
36.331	8.17.0	8.16.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	SPS Reconfiguration Change in Scheduling Information for ETWS Introduction of multiple frequency band indicator

7. Release 9

7.1. Added Standards

3GPP TSG #56 Ljubljana

Added Standard Number	Version at ARIB STD-T63 Ver.9.40		3GPP WG	Title	New Document Summary
37.571-4	9.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites	This document is part 4 of a multi-part conformance test specification. The specification contains a TTCN design frame work and the detailed test specifications in TTCN for the UE: - A-GPS at the UTRA Uu interface in TTCN-2; - A-GNSS at the UTRA Uu interface in TTCN-3; - LTE positioning at the LTE-Uu interface in TTCN-3.

7.2. Revised Standards

3GPP TSG #56 Ljubljana

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
22.101	9.10.0	9.9.0	S1	Service aspects; Service principles	Emergency calls from non CSG members in CSG cells
22.220	9.9.0	9.8.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Clarification on emergency calls from CSG cell by non-CSG member
23.041	9.9.0	9.8.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Alignment and correction of aspects for public warning system for GERAN
23.203	9.12.0	9.11.0	S2	Policy and charging control architecture	Clarified the meaning of complete PCC rule for deferred mode operations for PCC rules
25.101	9.9.0	9.8.0	R4	UE Radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.104	9.8.0	9.7.0	R4	Base Station (BS) radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.133	9.12.0	9.11.0	R4	Requirements for support of radio resource management (FDD)	The corresponding changes made in V8.16.0 are done. Requirements for transport format combination selection in DC-HSDPA are corrected and Radio conditions for SI acquisition in UTRA FDD are clarified.
25.141	9.9.0	9.8.0	R4	Base Station (BS) conformance testing (FDD)	無線設備規則と齟齬があるため、トランスポートしない
25.321	9.8.0	9.7.0	R2	MAC protocol specification	SI attachment during DCCH/DTCH EUL transmission in CELL_FACH state Total E-DCH buffer size in case of CCCH transmission
26.114	9.9.0	9.8.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	IP Version Node for 3GPP MTSINP MO Bandwidth information for T.140 real-time text Correction to H.264 RTP Payload Format References

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
26.346	9.7.0	9.6.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	Reception reporting corrections MBMS USD Schema correction MBMS Schedule Info corrections Initialisation Segment incorporation in AHS over MBMS MBMS Schema Compatibility Correction MBMS Metadata Envelope Correction
31.102	9.10.0	9.9.0	C6	Characteristics of the USIM Application	MBMS Schedule Info corrections
31.111	9.8.0	9.7.0	C6	USIM Application Toolkit (USAT)	Initialisation Segment incorporation in AHS over MBMS
34.123-1	9.9.0	9.8.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	MBMS Schema Compatibility Correction
34.123-2	9.9.0	9.8.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	MBMS Metadata Envelope Correction
34.123-3	9.4.0	9.3.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	MBMS Metadata Envelope Correction
34.229-1	9.9.0	9.8.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test case - MO MTSI Video Call/MT MTSI Video Call/Non-UE detectable emergency call Other corrections.
34.229-2	9.9.0	9.8.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Changes related to 34.229-1 changes

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
34.229-3	9.4.0	9.3.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Routine maintenance and updates Correction to IMS CC test cases / IPv6 address handling
36.101	9.12.0	9.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	無線設備規則と齟齬があるため、トランスポートしない
36.104	9.12.0	9.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	無線設備規則と齟齬があるため、トランスポートしない
36.113	9.5.0	9.4.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)	It is clarified E-UTRA BS or UTRA BS should conform to Applicability of EMC requirement.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
36.133	9.12.0	9.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The corresponding changes made in V8.18.0 are done. Corrections to FDD-TDD Inter-freq RSRP measurement accuracy test case parameters, Addition of E-UTRAN FDD-TDD/TDD-FDD Inter-frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells test case, Addition of E-UTRAN FDD – TDD/TDD-FDD Inter-frequency identification of a new CGI of E-UTRA cell using autonomous gaps test case, Addition of E-UTRAN TDD-HRPD event triggered reporting under fading propagation conditions test, Addition of E-UTRAN TDD-CDMA2000 1X event triggered reporting under fading propagation conditions test case, Editorial corrections on the test cases of RRC connection release with redirection to UTRAN FDD, Finalization of Rel.9 cell reselection enhancement related test cases, Correction to E-UTRAN FDD/TDD - UTRAN FDD /TDD enhanced cell identification test case, Correction to E-UTRAN TDD redirection to UTRAN FDD test configuration, and Removal of PDSCH Reference Measurement channel for cell 2 in test cases are made. RRC connection release with redirection from E-UTRAN FDD/TDD to GERAN without System Information, E-UTRA TDD RRC connection release redirection to UTRA FDD test without SI provided, and E-UTRAN FDD to UTRAN FDD RRC connection release with redirection test case when SI is not provided are introduced.
36.141	9.10.0	9.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	無線設備規則と齟齬があるため、トランスポートしない
36.304	9.11.0	9.10.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode	Avoiding unexpected UE prioritization for MBMS where MBMS is not deployed
36.307	9.6.0	9.5.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	The corresponding changes made in V8.6.0 are done

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
36.331	9.11.0	9.10.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	SPS Reconfiguration Change in Scheduling Information for ETWS Clarification of mch-SchedulingPeriod configuration Change in Scheduling Information for CMAS T321 value for UTRA SI acquisition Introduction of multiple frequency band indicator
36.508	9.9.0	9.8.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Removal of technical content in 36.508 v9.8.0 and substitution with pointer to the next Release
36.521-3	9.9.0	9.8.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Removal of technical content in 36.521-3 v9.8.0 and substitution with pointer to the next Release
36.523-1	9.9.0	9.8.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Removal of technical content in 36.523-1 v9.8.0 and substitution with pointer to the next Release
36.523-2	9.9.0	9.8.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Removal of technical content in 36.523-2 v9.8.0 and substitution with pointer to the next Release
36.523-3	9.4.0	9.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Baseline upgrade of LTE ATS to March-12 in Rel-10 Addition of GCF WI-081/082/086/087/091/092/097 test cases Other corrections

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
37.571-1	9.2.1	9.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	Adding operating band 26 Other corrections
37.571-2	9.2.0	9.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	Changes related to 37.571-1 changes.
37.571-5	9.3.0	9.2.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning, Part 5: Test scenarios and assistance data	Corrections/Additions to GNSS/GPS data.

8. Release 10

8.1. Added Standards

3GPP TSG #56 Ljubljana

Added Standard Number	Version at ARIB STD-T63 Ver.9.40		3GPP WG	Title	New Document Summary
34.123-1	10.1.0		R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	This document specifies the protocol conformance testing for the 3rd Generation UE. The following information can be found in this part: - the overall test structure; - the test configurations; - the conformance requirement and reference to the core specifications; - the test purposes; and - a brief description of the test procedure, the specific test requirements and short message exchange table.
34.123-2	10.1.0		R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) proforma specification	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation UE. This document also specifies a recommended applicability statement for the test cases included in TS 34.123-1. These applicability statements are based on the features implemented in the UE.
34.123-3	10.0.0		R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	This document specifies the protocol conformance testing in TTCN for the 3GPP UE at the Uu interface.
36.523-3	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	This document specifies the protocol and signalling conformance testing in TTCN-3 for the 3GPP UE at the UE E-UTRAN radio interface.
37.571-1	10.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet	This document specifies the procedures for the conformance test of the measurement requirements for FDD mode of

Added Standard Number	Version at ARIB STD-T63 Ver.9.40		3GPP WG	Title	New Document Summary
				Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	UTRA and FDD or TDD mode of E-UTRA for the UE that supports one or more of the defined positioning methods.
37.571-2	10.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	This document specifies the protocol conformance testing for the 3rd Generation UTRAN and E-UTRAN UE supporting UE positioning.
37.571-3	10.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	This document provides the Implementation Conformance Statement (ICS) proforma for 3rd Generation UTRAN and E-UTRAN UE supporting UE positioning.
37.571-4	10.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites	This document specifies the protocol and signalling conformance testing in TTCN for the UE: - A-GPS at the UTRA Uu interface; - LTE positioning at the LTE-Uu interface; - A-GNSS at the UTRA Uu interface.
37.571-5	10.0.0		R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data	This document specifies the test scenarios and assistance data required for the conformance test for FDD or TDD mode of UTRA and E-UTRA for the UE that supports one or more of the defined positioning methods.

8. 2. Revised Standards

3GPP TSG #56 Ljubljana

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
22.101	10.8.0	10.7.0	S1	Service aspects; Service principles	Removing the requirement for PSAP call back identification Emergency calls from non CSG members in CSG cells
22.220	10.9.0	10.8.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Clarification on emergency calls from CSG cell by non-CSG member
23.041	10.4.0	10.3.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Alignment and correction of aspects for public warning system for GERAN
23.203	10.7.0	10.6.0	S2	Policy and charging control architecture	Clarified the meaning of complete PCC rule for deferred mode operations for PCC rules
25.101	10.6.0	10.5.0	R4	UE Radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
<u>25.104</u>	10.6.0	10.5.0	R4	Base Station (BS) radio transmission and reception (FDD)	無線設備規則と齟齬があるため、トランスポートしない
<u>25.133</u>	10.6.0	10.5.0	R4	Requirements for support of radio resource management (FDD)	The corresponding changes made in V9.12.0 are done. Inter-RAT E-UTRA RSRP, RSRQ band 41 side conditions is changed and Requirements for transport format combination selection in 3/4C-HSDPA are corrected.
<u>25.141</u>	10.6.0	10.5.0	R4	Base Station (BS) conformance testing (FDD)	無線設備規則と齟齬があるため、トランスポートしない
<u>25.144</u>	10.2.0	10.1.0	R4	User Equipment (UE) and Mobile Station (MS) over the air performance requirements	Introduction of Band XIX requirements and Clarification of TRS requirements for Roaming bands are made.
<u>25.304</u>	10.5.0	10.4.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification for HCS and absolute priority based cell reselection
<u>25.306</u>	10.7.0	10.6.0	R2	UE Radio Access capabilities	Correction to definition of enhanced inter-frequency measurements without CM Extend the carrier capability for two-carrier HSDPA for 1.28Mcps TDD
<u>25.321</u>	10.6.0	10.5.0	R2	MAC protocol specification	SI attachment during DCCH/DTCH EUL transmission in CELL_FACH state Total E-DCH buffer size in case of CCCH transmission

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
<u>25.423</u>	10.7.0	10.6.0	R3	UTRAN Iur interface RNSAP signalling	Clarification of the carrier capability for two-carrier HSDPA for 1.28Mcps TDD Clarification of the enhanced TS0 capability for 1.28Mcps TDD
<u>25.433</u>	10.6.0	10.5.0	R3	UTRAN Iub interface NBAP signalling	Clarification of the carrier capability for two-carrier HSDPA for 1.28Mcps TDD Clarification of the enhanced TS0 capability for 1.28Mcps TDD
<u>25.467</u>	10.5.0	10.4.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Correction of emergency call handling during Inbound mobility
<u>26.114</u>	10.4.0	10.3.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	- Correction to H.264 RTP Payload Format References (MTSI-MHI) - Managing MTSI Media Adaptation (M3A) - Enabling Coder Selection and Rate Adaptation for UTRAN and E-UTRAN for Load Adaptive Applications (ECSRA_LAA)
<u>26.202</u>	10.1.0	10.0.0	S4	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb	Correction of Example Text Regarding Number of Class A and B bits and RAB sub flows (TEI10)
<u>26.237</u>	10.5.0	10.4.0	S4	IMS based PSS and MBMS User Service; Protocols	Corrections on ContentReport Info Package (OPT_IMS_PSS_MBMS_US)
<u>26.247</u>	10.2.0	10.1.0	S4	Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	HTTP-based Streaming and Download Services (HTTP_SDS)
26.346	10.4.0	10.3.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	PSS and MBMS Aspects (PMA-MBS_Ext)
31.102	10.6.0	10.5.0	C6	Characteristics of the USIM Application	Correction to reference for CSG Type in EFCSGT
31.111	10.7.0	10.6.0	C6	USIM Application Toolkit (USAT)	Correction of bearer parameters for E-UTRAN / mapped UTRAN packet service
31.121	10.5.0	10.4.0	C6	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	Correction of test 6.1.16 Test case applicability modification of test 8.2.3 for terminals with large SMS storage capabilities Changes in test sequences for ACL in E-UTRAN

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
31.124	10.5.0	10.4.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Test applicability correction for terminals operating in PS mode Correction of expected Terminal Reponse for unsuccessful Open Channel commands Essential corrections to the Network Rejection Event test cases Introduction of test cases for Send Short Message and SMS PP data download over SGs (E-UTRAN) Essential correction of Open Channel with Bearer type 0B tests Test modification for Provide Local Information IMEI and IMEISV testing
31.130	10.4.0	10.3.0	C6	(U)SIM Application Programming Interface (API); (U)SIM API for Java Card™	Correct implementation of CR 0059 for TAG_CSG_SELECTION_STATUS_N Adding a constant value in USATTerminalProfile.java for the indication of IMS support Adding constant values in USIMConstants.java for missing file identifiers
33.203	10.3.0	10.2.0	S3	3G security; Access security for IP-based services	Cleanup of miss-implemented CRs
33.310	10.6.0	10.5.0	S3	Network domain security; Authentication framework (NDS/AF)	Update of reference to CMP transport draft in IETF
33.320	10.5.0	10.4.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	H(e)NB Air Interface Activation Requirement
33.401	10.3.0	10.2.0	S3	3GPP System Architecture Evolution (SAE); Security architecture	Addition of confidentiality requirement for interfaces carrying subscriber specific sensitive data Miscellaneous corrections with respect to relay nodes

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
34.114	10.3.0	10.2.0	R5	User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing	Removal of technical content in 34.114 v10.2.0 and substitution with pointer to the next Release
34.121-1	10.3.0	10.2.1	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Adding band XXV and XXII(forRRM test cases). Addition of some new test cases.
34.121-2	10.3.0	10.2.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes related to 34.121-1 changes.
36.508	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Changes related to 36.521/36.523 changes.
36.521-1	10.2.0	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Introduction of Band 26 in section 5,6,7. Addition of new test cases for UL-MIMO. ..etc.
36.521-2	10.2.0	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes related to 36.521-1 changes.
36.521-3	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Addition of new test cases for redirection. Adding operating band 26. ..etc.
36.523-1	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of new test cases related to PWS, Rel.10 CA, e1xCSFB Rel-9, MDT, ..etc.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.40	Version at ARIB STD-T63 Ver.9.30	3GPP WG	Title	Change Summary
36.523-2	10.1.1	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes.

(Annex 47)

3GPP ARIB Change history List of Standards Ver. 9.50

December 18 2012

1. Release 99

1.1. Added Standards

None

1.2. Revised Standards

None

2. Release 4

2.1. Added Standards

None

2.2. Revised Standards

None

3. Release 5

3.1. Added Standards

None

3.2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
31.102	5.15.0	5.14.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification

4. Release 6

4.1. Added Standards

None

4.2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
31.102	6.22.0	6.21.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification

5. Release 7

5.1. Added Standards

None

5.2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
31.102	7.16.0	7.15.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification

6. Release 8

6.1. Added Standards

None

6. 2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
22.101	8.15.0	8.14.0	S1	Service aspects; Service principles	Adding E-UTRAN radio interface as mandatory UE features. Adding ISIM as optional UE features
23.041	8.10.0	8.9.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction of Warning Message Delivery Procedure in GSM Correction to Figure 3.3-1
25.A01	8.2.0	8.1.0	R4	The Low Power Repeaters for DS-CDMA	Updated PHS protection and editorial corrections are made.
25.101	8.16.0	8.15.0	R4	UE Radio Transmission and Reception (FDD)	- Correction to H-Set 8 - Correction to numbers of HS-SCCH for DC-HSDPA - Correction of PHS protection requirements
25.104	8.14.0	8.13.0	R4	Base Station (BS) Radio Transmission and Reception (FDD)	- Correction of PHS protection requirements
25.133	8.17.0	8.16.0	R4	Requirements for support of radio resource management (FDD)	Duration of Time period T1 in Test Cases A.8.7.1 and A.8.7.2 is corrected..
25.141	8.15.0	8.14.0	R4	Base station (BS) conformance testing (FDD)	- Correction of PHS protection requirements
25.321	8.16.0	8.15.0	R2	MAC protocol specification	Clarification of CRC parity bits appended to MAC-c PDUs

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
26.114	8.12.0	8.11.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correct the maximum allowable RR and RS values for an MTSI session Clarify procedures for b=RS and b=RR negotiation via SDP Clarify procedures for setting b=RR greater than zero when on-hold or using real-time text Correct the RR and RS values in the SDP example Remove recommendations that imply AVPF support may be limited to only early mode.
31.102	8.15.0	8.14.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification
33.108	8.14.0	8.13.0	S3	3G security; Handover interface for Lawful Interception (LI)	ePSLocationOfTheTarget in EPS-PMIP-SpecificParameters
33.402	8.8.0	8.7.0	S3	3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses	Correction of reference
36.101	8.19.0	8.17.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	(V8.17.0->V8.18.0) FDD TDD co-existence requirement and PHS protection requirements are corrected. (V8.18.0->V8.19.0) Transport Block size in 9RB 16QAM Uplink Reference Measurement Channel and Random precoding granularity in PMI tests are corrected.
36.104	8.13.0	8.12.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Correction of PHS protection requirements
36.133	8.19.0	8.18.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The brackets for Tq of Uplink Transmit Timing are removed. RSRQ accuracy test cases and Modification of Handover Delay Requirement and Test Cases from E-UTRAN to cdma2000 1x.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
36.141	8.12.0	8.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Correction of PHS protection requirements
36.307	8.7.0	8.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Relation between EARFCN for overlapping bands with multiple FBI indication (Introducing Informative Annex A)

7. Release 9

7.1. Added Standards

None

7.2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
22.101	9.11.0	9.10.0	S1	Service aspects; Service principles	Adding E-UTRAN radio interface as mandatory UE features. Adding ISIM as optional UE features
22.220	9.10.0	9.9.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Adding following requirement: "When the H(e)NB Hosting Party identification and authentication is required by the MNO, the H(e)NB shall not activate the air-interface unless the identification and authentication of the H(e)NB Hosting Party has been performed successfully."
23.041	9.10.0	9.9.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction of Warning Message Delivery Procedure in GSM Correction to Figure 3.3-1
25.A01	9.2.0	9.1.0	R4	The Low Power Repeaters for DS-CDMA/LTE	The corresponding changes made in V8.2.0 are done.
25.101	9.10.0	9.8.0	R4	UE Radio transmission and reception (FDD)	(V9.8.0->V9.9.0) - Correction to H-Set 8(*2) - Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII - Correction to numbers of HS-SCCH for DC-HSDPA (*2) - Correction of PHS protection requirements (As a corresponding change made in V8.16.0) (V9.9.0->V9.10.0) Correction of DC-HSUPA core requirements

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
25.104	9.8.0	9.7.0	R4	Base Station (BS) Radio Transmission and Reception (FDD)	- Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII. - Correction of PHS protection requirements as a corresponding change made in V8.14.0
25.133	9.13.0	9.12.0	R4	Requirements for support of radio resource management (FDD)	Corresponding change in V8.17.0 is made as a mirror change.
25.141	9.10.0	9.8.0	R4	Base Station (BS) conformance testing (FDD)	(V9.8.0->V9.9.0) Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII (R9) Correction of PHS protection requirements. (V9.9.0->V9.10.0) Corrections of Band VIII ACLR
25.304	9.8.0	9.7.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Support of cell reselection to EUTRA using Criterion-5 for 1.28Mcps TDD
25.306	9.9.0	9.8.0	R2	UE Radio Access capabilities	Voice support Capabilities
25.321	9.9.0	9.8.0	R2	MAC protocol specification	Clarification of E-TFC selection for 1.28Mcps TDD Clarification of CRC parity bits appended to MAC-c PDUs
26.114	9.10.0	9.9.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correct the maximum allowable RR and RS values for an MTSI session Clarify procedures for b=RS and b=RR negotiation via SDP Clarify procedures for setting b=RR greater than zero when on-hold or using real-time text Correct the RR and RS values in the SDP example Remove recommendations that imply AVPF support may be limited to only early mode. The reference to the Internet Draft is replaced with a reference to the RFC

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
26.346	9.8.0	9.7.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	The specification main FDT schema in clause 7.2.10.1 need to include all 3GPP extensions specified in clauses 7.2.10.5, 7.2.14 and 7.2.15. The “redefine” XML schema instruction in the current main schema causes schema validation error if an element from another namespace is included, such as the Cache-Control element specified in clause 7.2.10.5. For this reason, the main FDT schema starting with Release 9 is proposed to be defined without the use of “redefine” instruction. Mecanisms for forward and backward compatibility are proposed, similar to what has been agreed for the USD and Schedule Description fragment in S4-120838. The schema extensions in clauses 7.2.14 and 7.2.15 are corrected to be valid schema by removing the “use” from globally defined attributes. The “use” is instead added in the main schema of clause 7.2.10.1 for these attributes. Other schema syntax also corrected. FDT instantiation according to this proposed schema have been verified to validate against Rel-6 FDT schema. It has also been verified that the instantiation validates against Rel-7 and Rel-8 schemas (though Rel-7 and Rel-8 schemas do not validate due to reasons explained in second bullet above). Reception Reporting schema has types “doubleVectorType”, “unsignedLongVectorType”, and “unsignedLongVectorType” are wrongly refered to as “xs:doubleVectorType”, “xs:unsignedLongVectorType”, and “xs:unsignedLongVectorType” in many places in the schema. The “xs:” need to be removed, to have a valid schema. Reception Reporting schema has 1 wrong occurrence of “xs:fileUriType”. This is corrected to “fileUriType” Reception Report example is clause 9.5.3.2 is not a valid instantiation, and is corrected. USD Release 7 extension is invalid. Globally declared

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
					The target namespace of the FDT Instance ID schema of clause 7.4.3 has an extra “urn “ that should be removed. Furthermore the elements defined in the schema have the “use=required” attribute, but this is wrong. It should be expressed using minOccurs and maxOccurs. Here we proposed that it should be minOccurs=1 and maxOccurs=1, which we assume was the intent with “use=required”. Since the default value for both minOccurs and maxOccurs is 1 when not present, we do not need to include minOccurs and maxOccurs.elements can not have attribute “minOccurs” nor “maxOccurs”. Globally declared attributes can not have “use” attribute. These are removed from Release 7 USD schema extension. There is also an opening curly quote before serviceGroupType, and that is replaced by a straight quote. USD main schema has the following instructions: <pre><xs:element ref="r9:availabilityInfo minOccurs="0"/>.</pre> There is a missing quote (") after availabilityInfo element. Removal of definition of MBMS FEC scheme in TS26.346 and referencing to the relevant IETF documents. The ambiguity is resolved that Payload Format ID A is used for MBMS. Some additional editorial corrections are done. Modification of text in clause 11.2.1.2 regarding relationship between service area and frequency information associated with an MBMS user service for semantic alignment with latest RAN specs.
31.102	9.11.0	9.10.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
31.111	9.9.0	9.8.0	C6	USIM Application Toolkit (USAT)	Correction of bearer parameters for E-UTRAN / mapped UTRAN packet service Correction of length of CSG ID Correction of CSG ID list identifier Changes in ENVELOPE (EVENT DOWNLOAD - CSG Cell Selection)
31.116	9.3.0	9.2.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Update of references to ETSI 102 226
33.108	9.7.0	9.6.0	S3	3G security; Handover interface for Lawful Interception (LI)	ePSLocationOfTheTarget in EPS-PMIP-SpecificParameters
36.101	9.13.0	9.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	(V9.11.0->V9.12.0) Deleting square brackets in Reference Measurement Channels, Addition of ETU30 channel model are made. As the corresponding change in V8.18.0, correction of PHS protection requirements is also made. (V9.12.0->V9.13.0) Transport Block size in 9RB 16QAM Uplink Reference Measurement Channel, Missleading note-references in test parameters for transmission mode 8 and Random precoding granularity in PMI tests are corrected. RB allocation for DRS demodulation tests is corrected as clarification. Japanese Regulatory Requirements to LTE Band 8 is introduced.
36.104	9.13.0	9.11.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	(V9.11.0->V9.12.0) Correction of PHS protection requirements. (V9.12.0->V9.13.0) Introduction of Japanese regulatory requirements for LTE band 8 in 36.104 R9

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
36.133	9.13.0	9.12.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	As corresponding changes in V8.19.0, Handover Delay Requirement and Test Cases from E-UTRAN to cdma2000 1x is modified and RSRQ accuracy test cases is corrected. Additionally the following changes are made: - Identification of Cell 3 in RRM Test cases A.4.2.7 and A.4.2.8 - Making FDD-TDD Inter-freq RSRQ measurement accuracy test case band-agnostic - Correction for E-UTRA TDD RRC connection release redirection to UTRA TDD test case. - Correction to E-UTRAN TDD-FDD Inter-frequency event triggered reporting test case/ - Radio conditions for PBCH reading in E-UTRA Several editorial corrections.
36.141	9.11.0	9.9.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	(V9.9.0->V9.10.0) - Editorial corrections in Home BS output power tests - Correction of PHS protection requirements (V9.10.0->V9.11.0) Introduction of Japanese regulatory requirements for LTE band 8 in 36.141 R9
36.305	9.9.0	9.8.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Clarification on the case that the eNB functions as an LCS client
36.306	9.7.0	9.6.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities	Voice support Capabilities

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
36.307	9.7.0	9.6.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements on User Equipments (UEs) supporting a release-independent frequency band	Corresponding change to V8.7.0 is made.
36.331	9.12.0	9.11.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Voice support Capabilities Differentiating UTRAN modes in FGIs Rules for including featureGroupIndRel9Add in Rel-9
36.509	9.6.0	9.5.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	Clarification of DL IP Header
34.123-3	9.5.0	9.4.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Removal of technical content in 34.123-3 v9.4.0 and substitution with pointer to the next Release
34.229-1	9.10.0	9.9.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	-IMS MTSI message content correction -Update to test case 12.19 -Update generic procedure C.21, C.25, C.26 -Update the default messages for IMS video -Updates to 17.1 - MO Speech, add video remove video -Updates to 17.2 - MT Speech, add video remove video
34.229-2	9.10.0	9.9.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Update to ICS proforma table for Additional information

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
34.229-3	9.5.0	9.4.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	-TTCN IMS correction -Addition of GCF WI-031 IMS test case 8.10, 8.12, 8.13 -Addition of GCF WI-128 IMS test case 18.1, 18.2 -Addition of GCF WI-103 IMS test case 16.1,16.2 -CR to 34.229-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.229-3 (prose), Annex A
36.521-2	9.9.0	9.8.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Update of References in 36.521-2 v980 (pointer)
36.521-3	9.10.0	9.9.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Update of References in 36.521-3 v990 (pointer)
36.523-2	9.10.0	9.9.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Update of References to specs and Releases in 36.523-2 v990 (pointer)

8. Release 10

8.1. Added Standards

3GPP TSG #57 Chicago

Added Standard Number	Version at ARIB STD-T63 Ver.9.50		3GPP WG	Title	New Document Summary
36.509	10.0.0		R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Special conformance testing functions for User Equipment (UE)	This document defines for User Equipment (UE) in E-UTRA FDD or TDD mode those special functions and their activation/deactivation methods that are required in UE for conformance testing purposes.

8. 2. Revised Standards

3GPP TSG #57 Chicago

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
22.101	10.9.0	10.8.0	S1	Service aspects; Service principles	Adding E-UTRAN radio interface as mandatory UE features. Adding ISIM as optional UE features
22.220	10.10.0	10.9.0	S1	Service requirements for Home Node B (HNB) and Home eNode B (HeNB)	Align with Stage3 work on the H(e)NB UICC authentication, according to information received from SA3 in S3-120522/S1-122306
23.041	10.5.0	10.4.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correction of Warning Message Delivery Procedure in GSM Correction to Figure 3.3-1
23.203	10.8.0	10.7.0	S2	Policy and charging control architecture	Removes signaling of Maximum MBR/APN-AMBR from the specification. Aligns solutions of the issue of Pre-Rel-7 UEs not capable of handling bitrates higher than 16 MBit/s with the Rel-9 solution for this issue.
25.A01	10.1.0	10.0.0	R4	The Low Power Repeaters for DS-CDMA/LTE	The corresponding changes made in V9.2.0 are done. And new UTRA band (Band VIII) and new LTE bands (Ban6/8/9/11/18/19/21) are introduced

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
<u>25.101</u>	10.7.0	10.5.0	R4	UE Radio Transmission and Reception (FDD)	(V10.5.0->V10.6.0) - Correction to H-Set 8 - Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII (R10) - Correction of TX power step size tolerance for HS-DPCCH - Correction to numbers of HS-SCCH for DC-HSDPA - Correction of PHS protection requirements (V10.6.0->V10.7.0) - Corrections of spurious emission band UE co-existence applicable in Japan - Missing allowed de-sensitization for single band 4C-HSDPA - On missing index of Band XXII - Correction of DC-HSUPA core requirements DC-HSUPA for Band XXII
<u>25.104</u>	10.7.0	10.5.0	R4	Base Station (BS) radio transmission and reception (FDD)	(V10.5.0->V10.6.0) - Update to Regional Requirements table in 25.104 - Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII (As a corresponding change made in V.9.8.0 in June 2012) - Correction of PHS protection requirements (As a corresponding change made in V.9.8.0 in June 2012) (V10.6.0->V10.7.0) - Correction of PHS protection requirements (As a corresponding change made in V.9.8.0 in June 2012) Modifications of frequency ranges on spurious emission requirements for Band 6, 18, 19
<u>25.133</u>	10.7.0	10.6.0	R4	Requirements for support of radio resource management (FDD)	Addition to the corresponding change in V9.13.0., the radio conditions for PBCH reading requirement in Inter-RAT E-UTRA FDD, Handover Requirements for UTRA FDD to E-UTRA and a typo in reference are corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
<u>25.141</u>	10.7.0	10.5.0	R4	Base Station (BS) conformance testing (FDD)	(V10.5.0->V10.6.0) - Update to Regional Requirements table - The following corresponding changes in V9.9.0) - Introduction of Japanese Regulatory Requirements to W-CDMA Band VIII - Correction of PHS protection requirements (V10.6.0->V10.7.0) - Modifications of frequency ranges on spurious emission requirements for Band 6, 18, 19 - The following corresponding changes in V9.10.0) - Band VIII ACLR BS test uncertainties above 3 GHz
<u>25.212</u>	10.3.0.	10.2.0	R1	Multiplexing and channel coding (FDD)	Correction of the number of CQI information bits for MC-HSDPA (section 4.7.1).
<u>25.304</u>	10.6.0	10.5.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Support of cell reselection to EUTRA using Criterion-5 for 1.28Mcps TDD
<u>25.306</u>	10.8.0	10.7.0	R2	UE Radio Access capabilities	Correction on the carrier capability for two-carrier HSDPA for 1.28Mcps TDD Voice support Capabilities
<u>25.321</u>	10.7.0	10.6.0	R2	MAC protocol specification	Clarification of E-TFC selection for 1.28Mcps TDD Clarification of CRC parity bits appended to MAC-c PDUs
<u>25.423</u>	10.8.0	10.7.0	R3	UTRAN Iur interface RNSAP signalling	Corrections on Multicell E-DCH Restriction of Secondary cell list
<u>25.433</u>	10.7.0	10.6.0	R3	UTRAN Iub interface NBAP signalling	Corrections on Multicell E-DCH Restriction of Possible Secondary cell list
<u>25.467</u>	10.6.0	10.5.0	R3	UTRAN architecture for 3G Home NodeB; Stage 2	Corrections on Iurh Setup
<u>25.469</u>	10.2.0	10.1.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Corrections on the provision of TNL address for direct Iurh-connectivity

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
<u>26.114</u>	10.5.0	10.4.0	S4	IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction	Correct the maximum allowable RR and RS values for an MTSI session Clarify procedures for b=RS and b=RR negotiation via SDP Clarify procedures for setting b=RR greater than zero when on-hold or using real-time text Correct the RR and RS values in the SDP example Remove recommendations that imply AVPF support may be limited to only early mode. The reference to the Internet Draft is replaced with a reference to the RFC eNodeB in the paragraph is replaced with (e)NodeB to cover UTRAN too. Clause 10.3 is referred for the information on video adaptation using ECN. Definition of QCI is introduced in References and Abbreviations. A sentence explaining SA2's clarification is included. Depending on the context, PDP context is complemented with EPS bearer, PDP context activation is replaced with resource reservation. Two sentences including PDP context in the QoS mapping table are removed.
<u>26.132</u>	10.5.0	10.4.0	S4	Speech and video telephony terminal acoustic test specification	Frequencies consistent with IEC 1260 and and interpolated values are added for information.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
<u>26.346</u>	10.5.0	10.4.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	The specification main FDT schema in clause 7.2.10.1 need to include all 3GPP extensions specified in clauses 7.2.10.5, 7.2.14 and 7.2.15. The “redefine” XML schema instruction in the current main schema causes schema validation error if an element from another namespace is included, such as the Cache-Control element specified in clause 7.2.10.5. For this reason, the main FDT schema starting with Release 9 is proposed to be defined without the use of “redefine” instruction. Mecanisms for forward and backward compatibility are proposed, similar to what has been agreed for the USD and Schedule Description fragment in S4-120839. The schema extensions in clauses 7.2.14 and 7.2.15 are corrected to be valid schema by removing the “use” from globally defined attributes. The “use” is instead added in the main schema of clause 7.2.10.1 for these attributes. Other schema syntax also corrected. FDT instantiation according to this proposed schema have been verified to validate against Rel-6 FDT schema. It has also been verified that the instantiation validates against Rel-7 and Rel-8 schemas (though Rel-7 and Rel-8 schemas do not validate due to reasons explained in second bullet above). Reception Reporting schema has types “doubleVectorType”, “unsignedLongVectorType”, and “unsignedLongVectorType” are wrongly refered to as “xs:doubleVectorType”, “xs:unsignedLongVectorType”, and “xs:unsignedLongVectorType” in many places in the schema. The “xs:” need to be removed, to have a valid schema. Reception Reporting schema has 1 wrong occurrence of “xs:fileUriType”. This is corrected to “fileUriType” Reception Report example is clause 9.5.3.2 is not a valid instantiation, and is corrected.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
					USD Release 7 extension is invalid. Globally declared elements can not have attribute “minOccurs” nor “maxOccurs”. Globally declared attributes can not have “use” attribute. These attributes are removed from Release 7 extension. There is also an opening curly quote before serviceGroupType, and that is replaced by a straight quote. USD main schema has the following instruction: <pre><xs:element ref="r9:availabilityInfo minOccurs="0"/>.</pre> There is a missing quote (") after availabilityInfo, so it should show as: <pre><xs:element ref="r9:availabilityInfo" minOccurs="0"/>.</pre> USD main schema has the following instruction: <pre><xs:element name="r7:serviceGroup" minOccurs="0"/>.</pre> but for an element from another namespace, we need to have "ref" instead on "name" for the element: <pre><xs:element ref="r7:serviceGroup" minOccurs="0"/></pre> The target namespace of the FDT Instance ID schema of clause 7.4.3 has an extra “urn “ that should be removed. Furthermore the elements defined in the schema have the “use=required” attribute, but this is wrong. It should be expressed using minOccurs and maxOccurs. Here we proposed that it should be minOccurs=1 and maxOccurs=1, which we assume was the intent with “use=required”. Since the default value for both minOccurs and maxOccurs is 1 when not present, we do not need to include minOccurs and maxOccurs. Removal of definition of MBMS FEC scheme in TS26.346 and referencing to the relevant IETF documents. The ambiguity is resolved that Payload Format ID A is used for MBMS. Some additional editorial corrections are done.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
					Modification of text in clause 11.2.1.2 regarding relationship between service area and frequency information associated with an MBMS user service for semantic alignment with latest RAN specs.
31.102	10.7.0	10.6.0	C6	Characteristics of the USIM Application	Update of reference to ASN.1 coding specification
31.111	10.8.0	10.7.0	C6	USIM Application Toolkit (USAT)	Correction of length of CSG ID Correction of CSG ID list identifier Changes in ENVELOPE (EVENT DOWNLOAD - CSG Cell Selection) Clarification of the use of the Incoming IMS Data even
31.116	10.3.0	10.2.0	C6	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	Update of references to ETSI 102 226
31.124	10.6.0	10.5.0	C6	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	Essential correction of Launch Browser tests Correction of Terminal Profile entries in table E.1 Correction of test sequence for PROVIDE LOCAL INFORMATION, Discovery of surrounding CSG cells Corrections to test sequence 27.22.7.18.1 for CSG Cell Selection Correction of network simulator dependencies of the tests in 27.22.7.4 Addition of UICC Access to IMS tests
33.108	10.5.0	10.4.0	S3	3G security; Handover interface for Lawful Interception (LI)	- ePSLocationOfTheTarget in EPS-PMIP-SpecificParameters -EPS Location ASN.1 Parameter Correction
34.121-1	10.4.0	10.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	Addition of new test cases: 9.2.1KC, 9.2.1KD, 9.2.1LC, 9.2.1LD. Adding band XXVI and XXII. Other corrections

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
34.121-2	10.4.0	10.3.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	-Adding band XXVI into ICS proforma tables -Applicability changes for test case 9.2.1LC and 9.2.1LD -Specifying redundant test cases in 34.121-2
34.123-1	10.2.0	10.1.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	-Adding band XXVI into ICS proforma tables -Applicability changes for test case 9.2.1LC and 9.2.1LD -Specifying redundant test cases in 34.121-2
34.123-2	10.2.0	10.1.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) proforma specification	Changes related to 34.123-1 changes.
34.123-3	10.1.0	10.0.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	-Addition of ETWS test case 8.1.1.13 to HSPA8_ENH ATS -Addition of CS Voice over HSPA test case 7.3.7.2, 8.3.1.48 to HSPA8 ATS -Addition of GCF WI-130 Improved L2 UL MAC test case 7.1.7.3 to HSPA8_ENH ATS
36.508	10.2.0	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	-Some addition of default value , diagram and so on. -Extension of cell configurations for Carrier Aggregation -Maximum number of cells simultaneously used in Carrier Aggregation test cases Other corrections and updates.
36.521-1	10.3.0	10.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Changes related to UL-MIMO, eDL-MIMO and so on.
36.521-2	10.3.0.	10.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes related to TS36.521-1 changes.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
36.521-3	10.2.1	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Mainly, addition of new test cases related to TDD-C2K, EUTRA-GERAN, FDD-TDD interwork.
36.523-1	10.2.0	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Mainly, addition of new test cases related to TDD-C2K, EUTRA-GERAN, FDD-TDD interwork.
36.523-2	10.2.0	10.1.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Changes related to 36.523-1 changes.
36.523-3	10.1.0	10.0.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	-Addition of GCF WI-082/086/087/088/089/091/096/097 test cases. -Addition of EUTRA<>CDMA2000 test cases. Other updates and corrections.
37.571-1	10.1.0	10.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	-Correction to RSTD Measurement Accuracy Tests 9.1.3 and 9.1.4 -Addition of RRM Test Case 9.8.4 TDD inter-frequency RSTD Accuracy
37.571-2	10.1.0	10.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	-Removal of FFS for Sub-test-7 -Addition of RESET command to EPC MO-LR tests Other corrections.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.50	Version at ARIB STD-T63 Ver.9.40	3GPP WG	Title	Change Summary
37.571-3	10.1.1	10.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	-Correction of sub-test names and PICS names -Addition of missing sub test cases name change
37.571-4	10.1.0	10.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites	Routine maintenance and updates
37.571-5	10.1.0	10.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data	-Addition of missing Assistance Data -Addition of Rel-10 Information Elements -Addition of missing Assistance Data

(Annex 48)

3GPP ARIB Change history List of Standards Ver. 9.60

March 19 2013

1. Release 4

1.1. Added Standards

None

1.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.307	4.20.0	4.19.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator

2. Release 5

2.1. Added Standards

None

2.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.307	5.19.0	5.18.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
31.103	5.14.0	5.13.1	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66

3. Release 6

3.1. Added Standards

None

3.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.307	6.16.0	6.15.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
31.102	6.23.0	6.22.0	C6	Characteristics of the USIM Application	Correction of update activity for EF_MSK
31.103	6.14.0	6.13.0	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66

4. Release 7

4.1. Added Standards

None

4.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.307	7.12.0	7.11.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
31.102	7.17.0	7.16.0	C6	Characteristics of the USIM Application	Correction of update activity for EF_MSK HPLMN or RPLMN selection clarification
31.103	7.7.0	7.6.0	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66
35.217	7.1.0	7.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Correction to UIA2 test vector
35.218	7.1.0	7.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Update of URL to 3GPP algorithms page

5. Release 8

5.1. Added Standards

None

5.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
22.168	8.3.0	8.2.0	S1	Earthquake and Tsunami Warning System (ETWS) requirements; Stage 1	Clarify that UEs without security protection are allowed to present Warning Notifications in limited state
22.228	8.7.0	8.6.0	S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	The requirement for operator initiated IMS registration, which has never been implemented in stage 2 and 3, is removed from the specification as there is no urgent need to fulfil this requirement and the underlying problem can be solved by other means
23.041	8.11.0	8.10.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correcting handling of unused security parameters for warning messages. Correction of reference to GSMA document "Coding of Cell Broadcast Functions".
25.133	8.18.0	8.17.0	R4	Requirements for support of radio resource management (FDD)	Correction to inter-RAT E-UTRA measurement requirements was made.
25.307	8.10.0	8.9.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
25.321	8.17.0	8.16.0	R2	MAC protocol specification	Clarification for standalone periodic SI when TEBS=0

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.433	8.13.0	8.12.0	R3	UTRAN Iub interface NBAP signalling	Introduction of Common E-DCH Implicit Release Timer Correction to DL control channel power control for E-DCH in Cell_FACH
31.102	8.16.0	8.15.0	C6	Characteristics of the USIM Application	Correction of update activity for EF_MSK HPLMN or RPLMN selection clarification
31.103	8.5.0	8.4.0	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66
31.111	8.14.0	8.13.0	C6	USIM Application Toolkit (USAT)	Essential correction on NMR in E-UTRAN
35.217	8.1.0	8.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Correction to UIA2 test vector
35.218	8.1.0	8.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Update of URL to 3GPP algorithms page
36.101	8.20.0	8.19.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	Introduction of UL RB restrictions for the 20 MHz channel in 1920-1940 MHz and the 15 MHz channel in 1925-1940 MHz, Correction of spurious emission requirements for Band 1 and Band 33 and Band 39 coexistence, and Clarification of the requirements implied risk of harmful interference are made. The parameter for PCFICH_RA setting is deleted.
36.133	8.20.0	8.19.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	Correction on test requirement for handover to UTRAN TDD and Clarification for CSG reselection requirements, were made. And the inconsistency between inter-RAT UTRA measurements and requirements was corrected.
36.331	8.18.0	8.17.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	- Clarification on Multiple Frequency Band Indicator - RRC procedure delay for Carrier Aggregation FGI correction

6. Release 9

6.1. Added Standards

None

6.2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
22.228	9.4.0	9.3.0	S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	The requirement for operator initiated IMS registration, which has never been implemented in stage 2 and 3, is removed from the specification as there is no urgent need to fulfil this requirement and the underlying problem can be solved by other means
22.268	9.5.0	9.4.0	S1	Public Warning System (PWS) requirements	Clarify that UEs without security protection are allowed to present Warning Notifications in limited state
23.041	9.11.0	9.10.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correcting handling of unused security parameters for warning messages. Correction of reference to GSMA document "Coding of Cell Broadcast Functions".
25.101	9.11.0	9.10.0	R4	UE Radio transmission and reception (FDD)	Adding protection requirements for frequency range of Band VI, XI, XIX, XXI, PHS and relevant limitations in Band III, modification of Frequency ranges of protection requirements in Band I, VI, IX, XI, XIX and XXI to protect the additional frequency bands, are made. And Alignment of inconsistent Rx core requirements with dual uplinks is done.
25.104	9.9.0	9.8.0	R4	Base Station (BS) radio transmission and reception (FDD)	Adding Japan specific note of ACLR and Transmitter intermodulation for Band III, adding TDD (2010-2025MHz) protection from Band III, and Correction of notes in additional spurious emission requirement for co-existence with UTRA Band IX or E-UTRA Band 9 BS, are made.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.133	9.14.0	9.13.0	R4	Requirements for support of radio resource management (FDD)	Correction to inter-RAT E-UTRA measurement requirements, and Adding UTRAN CSG Proximity Indication Requirement and Test Case, were made.
25.141	9.11.0	9.10.0	R4	Base Station (BS) conformance testing (FDD)	Adding Japan specific note of ACLR and Transmitter intermodulation for Band III, adding TDD (2010-2025MHz) protection from Band III, and Correction of notes in additional spurious emission requirement for co-existence with UTRA Band IX or E-UTRA Band 9 BS, are made.
25.306	9.10.0	9.9.0	R2	UE Radio Access capabilities	Adding the capability of supporting MAC-ehs window size extension
25.307	9.6.0	9.5.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
25.321	9.10.0	9.9.0	R2	MAC protocol specification	Clarification for standalone periodic SI when TEBS=0
25.433	9.9.0	9.8.0	R3	UTRAN Iub interface NBAP signalling	Introduction of Common E-DCH Implicit Release Timer Correction to DL control channel power control for E-DCH in Cell_FACH
26.237	9.9.0.	9.8.0	S4	IMS based PSS and MBMS User Service; Protocols	The corrections to fix the syntax errors in the nBookmark schema and add the schema version.
26.346	9.9.0.	9.8.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	The addition of AHS into the Feature Requirements table. The supplement of the specification text of UTRAN cellID with the E-UTRAN ECGI which shall be used when reporting an E-UTRAN cell. The FDT schema has a wrong namespace for one of its import instruction, as namespaces are case sensitive. The current namespace is urn:3GPP:metadata:2009:MBMS:schemaVersion, but it should be urn:3gpp:metadata:2009:MBMS:schemaVersion. The addition of new section that provides Schedule fragment instantiation examples. The Addition of SNTP Unicast as a way for the UE to acquire UTC time synchronization. The modification of the SNTP request frequency to once per day.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
31.102	9.12.0	9.11.0	C6	Characteristics of the USIM Application	Correction of update activity for EF_MSK HPLMN or RPLMN selection clarification Clarification for CSG Display Control during manual selection
31.103	9.3.0	9.2.0	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66
31.111	9.10.0	9.9.0	C6	USIM Application Toolkit (USAT)	Essential correction on NMR in E-UTRAN Call control for emergency PDN Correction of padding for ECI in Location Information Essential correction on CSG reselection
33.246	9.1.0	9.0.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Support for multiple BM-SCs MIKEY-RAND in MTK messages
33.310	9.8.0	9.7.0	S3	Network domain security; Authentication framework (NDS/AF)	Update CMP Reference
33.320	9.7.0	9.6.0	S3	Security of Home Node B (HNB) / Home evolved Node B (HeNB)	CR-H(e)NB Air Interface Activation Requirement
35.217	9.1.0	9.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	CR-H(e)NB Air Interface Activation Requirement
35.218	9.1.0	9.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	CR-H(e)NB Air Interface Activation Requirement
36.101	9.14.0	9.13.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception	The corresponding changes made in V8.20.0 are done. Definition of OCN patterns for Sustained Data rate testing, and Adding references to the appropriate beamforming model are made. Frequency ranges of spurious emissions requirements in Band 1, 9, 11, 18, 19, 21 and 34 are modified to introduce Band 3 into Japan.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
36.133	9.14.0	9.13.0	R4	Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management	The corresponding changes made in V8.20.0 are done. Removal of square brackets from the probability of reselection from Cell 2 to Cell 1 during T3, Updating OCNG Patterns for the FDD and TDD UE Rx – Tx Time Difference Test Cases, Clarification on inter-frequency RSTD measurement accuracy requirement, and Adding E-UTRAN CSG Proximity Indication requirement were made.
36.300	9.10.0	9.9.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRAN); Overall description; Stage 2	Correction to padding on RLC UM PDU corresponding to MTCH/MCCH correction for Inter-RAT ANR
36.305	9.10.0	9.9.0	R2	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Stage 2 functional specification of User Equipment (UE) positioning in E-UTRAN	Addition of Network Triggered Service Request for LPP and LPPa Positioning Editorial clean up
36.331	9.13.0	9.12.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification	Clarification on Multiple Frequency Band Indicator Clarification on Multiple Frequency Band Indicator FGI correction
36.355	9.9.0	9.8.0	R2	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)	Correcting the referencing of QoS parameters Correction to missing field description in GNSS AcquisitionAssistance IE
34.229-1	9.11.0	9.10.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Location stimulus clarification for Emergency Services test cases IMS extend IMS_CC test case 8.1 for LTE IMS Default content of ACK Other corrections and updates.
34.229-2	9.11.0	9.10.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	Update applicability for emergency test cases

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
34.229-3	9.6.0	9.5.0	R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Addition of GCF WI-103 IMS test case 12.12, 12.13, 15.8, 15.11, 15.12, 15.27 and 15.28
37.571-1	9.3.0	9.2.1	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	Removal of technical content in 37.571-1 v9.2.1 and substitution with pointer to the next Release
37.571-2	9.3.0	9.2.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance	Removal of technical content in 37.571-2 v9.2.0 and substitution with pointer to the next Release
37.571-3	9.2.0	9.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	Removal of technical content in 37.571-3 v9.1.0 and substitution with pointer to the next Release
37.571-4	9.1.0	9.0.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites	Removal of technical content in 37.571-4 v9.0.0 and substitution with pointer to the next Release

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
37.571-5	9.4.0	9.3.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC): User Equipment (UE) conformance specification for UE positioning, Part 5: Test scenarios and assistance data	Removal of technical content in 37.571-5 v9.3.0 and substitution with pointer to the next Release

7. Release 10

7.1. Added Standards

3GPP TSG #58 Barcelona

Added Standard Number	Version at ARIB STD-T63 Ver.9.60		3GPP WG	Title	New Document Summary
34.229-1	10.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	This document specifies the protocol conformance testing for the UE supporting the IP multimedia call control protocol based on SIP and SDP.
34.229-2	10.0.0		R5	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification	This document provides the ICS proforma for 3rd Generation UE supporting the IP multimedia call control protocol based on SIP and SDP.

7. 2. Revised Standards

3GPP TSG #58 Barcelona

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
22.101	10.10.0	10.9.0	S1	Service aspects; Service principles	Clarify the requirement is per APN in order to align with SA2 Replace “defined IP network” by “APN” for the rest of text of this section to align terminologies
22.228	10.5.0	10.4.1	S1	Service requirements for the IP multimedia core network subsystem (IMS); Stage1	The requirement for operator initiated IMS registration, which has never been implemented in stage 2 and 3, is removed from the specification as there is no urgent need to fulfil this requirement and the underlying problem can be solved by other means
22.268	10.4.0	10.3.0	S1	Public Warning System (PWS) requirements	Clarify that UEs without security protection are allowed to present Warning Notifications in limited state
23.041	10.6.0	10.5.0	C1	Technical Realization of Cell Broadcast Service (CBS)	Correcting handling of unused security parameters for warning messages. Correction of reference to GSMA document "Coding of Cell Broadcast Functions".
25.101	10.8.0	10.7.0	R4	UE Radio transmission and reception (FDD)	The corresponding changes made in V9.11.0 are done. Modification of the frequency range for 800 MHz protection from 860-895 MHz to 860-890 MHz and 1.5 GHz protection from 1475.9-1500.9 MHz to 1475.9-1510.9 for Band I, VI, IX, XI and XIX, and Cleaning of Performance sections were made.
25.104	10.8.0	10.7.0	R4	Base Station (BS) radio transmission and reception (FDD)	The corresponding changes made in V9.9.0 are done
25.133	10.8.0	10.7.0	R4	Requirements for support of radio resource management (FDD)	The corresponding changes made in V9.14.0 are done. Addition of Annexes A.6.4.1.2 and A.6.4.2.2 considering CS+PS RAB combination parameters for “Transport format combination selection in UE” requirement, and Editorial correction were made.
25.141	10.8.0	10.7.0	R4	Base Station (BS) conformance testing (FDD)	The corresponding changes made in V9.11.0 are done.
25.212	10.4.0	10.3.0	R1	Multiplexing and channel coding (FDD)	Clarification of HS-SCCH order for MC-HSPA.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
25.304	10.7.0	10.6.0	R2	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	Clarification to measurement rules for inter-Freq&RAT layers without absolute priority being assigned
25.306	10.9.0	10.8.0	R2	UE Radio Access capabilities	Adding the capability of supporting MAC-ehs window size extension Introduction of UM RLC re-establishment via reconfiguration Introduction of Multiple Frequency Band Indicators capability
25.307	10.4.0	10.3.0	R2	Requirements on UE supporting a release-independent frequency band	Introduction of Multiple Frequency Band indicator
25.321	10.8.0	10.7.0	R2	MAC protocol specification	Clarification for standalone periodic SI when TEBS=0
25.433	10.8.0	10.7.0	R3	UTRAN Iub interface NBAP signalling	Introduction of Common E-DCH Implicit Release Timer Correction to DL control channel power control for E-DCH in Cell_FACH
25.435	10.5.0	10.4.0	R3	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	Correction of missing EI in Figure 2B of HS-DSCH DATA FRAME TYPE 2
25.469	10.3.0	10.2.0	R3	UTRAN Iuh interface Home Node B Application Part (HNBAP) signalling	Add missing cause values for Iurh Support
26.237	10.6.0	10.5.0	S4	IMS based PSS and MBMS User Service; Protocols	The corrections to fix the syntax errors in the nBookmark schema and add the schema version.
26.346	10.6.0	10.5.0	S4	Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs	The supplement of the specification text of UTRAN cellID with the E-UTRAN ECGI which shall be used when reporting an E-UTRAN cell. The FDT schema has a wrong namespace for one of its import instruction, as namespaces are case sensitive. The current namespace is urn:3GPP:metadata:2009:MBMS:schemaVersion, but it should be urn:3gpp:metadata:2009:MBMS:schemaVersion. The addition of new section that provides Schedule fragment instantiation examples. The Addition of SNTP Unicast as a way for the UE to acquire UTC time synchronization. The modification of the SNTP request frequency to once per day.
31.102	10.8.0	10.7.0	C6	Characteristics of the USIM Application	Correction of update activity for EF_MSK HPLMN or RPLMN selection clarification Clarification for CSG Display Control during manual selection
31.103	10.2.0	10.1.0	C6	Characteristics of the ISIM Application	Update of reference to ASN.1 coding specification Sanity check according to C6-120554 agreed at C6 #66

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
31.111	10.9.0	10.8.0	C6	USIM Application Toolkit (USAT)	Essential correction on NMR in E-UTRAN Call control for emergency PDN Correction of padding for ECI in Location Information Essential correction on CSG reselection
33.246	10.1.0	10.0.0	S3	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	Support for multiple BM-SCs MIKEY-RAND in MTK messages
33.310	10.7.0	10.6.0	S3	Network domain security; Authentication framework (NDS/AF)	Update CMP Reference
34.121-1	10.5.0	10.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification	This document provides the ICS proforma for 3rd Generation UE supporting the IP multimedia call control protocol based on SIP and SDP.
34.121-2	10.5.0	10.4.0	R5	User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)	Changes related to 34.121-1 changes.
34.123-1	10.3.1	10.2.0	R5	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Addition of UTRAN ANR test cases. Addition of UTRAN ANR GERAN Inter-RAT test cases. Addition of MDT test cases. Other modifications and updates.
34.123-2	10.3.0	10.2.0	R5	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) proforma specification	Changes related to 34.123-1 changes
34.123-3	10.2.0	10.1.0	R5	User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)	Introduction of PIXIT parameter for ANR measurement and logging wait time Addition of GCF WI-112 UTRA test cases. Other modifications and updates.
35.217	10.1.0	10.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data	Correction to UIA2 test vector
35.218	10.1.0	10.0.0	S3	Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data	Update of URL to 3GPP algorithms page

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
36.508	10.3.0	10.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common test environments for User Equipment (UE) conformance testing	Addition of Band 28 definition Introduction of Band 27. Other modifications and clarifications
36.521-1	10.4.0	10.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing	Addition of Band 28 definition Introduction of Band 27. Other modifications and clarifications
36.521-2	10.4.0	10.3.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Implementation Conformance Statement (ICS)	Changes related to 36.521-1 changes.
36.521-3	10.3.0	10.2.1	R5	Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Radio Resource Management (RRM) conformance testing	Introduction of Band 27. New test cases for CA, eICIC, non-MBSFN ABS, ..etc. Other modifications and updates.
36.523-1	10.3.1	10.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	Removal of technical content in 36.523-1 v10.2.0 and substitution with pointer to the next Release
36.523-2	10.3.0	10.2.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification	Removal of technical content in 36.523-2 v10.2.0 and substitution with pointer to the next Release
36.523-3	10.2.0	10.1.0	R5	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 3: Test suites	Addition of GCF WI-081, WI-086, WI-087, WI-091, WI-092, WI-096, WI-097, WI-150 and WI-151 test cases. Other modifications and updates.

Revised Standard Number	Version at ARIB STD-T63 Ver.9.60	Version at ARIB STD-T63 Ver.9.50	3GPP WG	Title	Change Summary
37.571-1	10.2.0	10.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification	Addition of bands 28 and 44. New test cases for CA. Other corrections.
37.571-3	10.2.0	10.1.1	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS)	Changes related to 37.571-1 changes.
37.571-5	10.2.0	10.1.0	R5	Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data	New test cases for CA. Other corrections.