



No.0040

**The 68th IMT Working Group Meeting of CJK**

CJK IMT Working Group Meeting is aiming to exchange information and views about the activities of IMT standardizations in ITU-R, APT, 3GPP and so on, among members of SDOs in China, Korea and Japan. Meetings are held three times a year.

◆ Outline of the meeting

Schedule	11 and 12 October 2023
Meeting	Online
Participants	CCSA (China) 50, TTA (Korea) 17, ARIB (Japan) 21

◆ Main results

- (1) The results of AWG-31, APG23-6, ITU-R SG5 WP5D #44, ITU-R SG5 #20 and the recent 3GPP meetings were shared.
- (2) The information was shared on the preparation status of each country for the ITU-R RA-23 and WRC-23 scheduled from November 2023, and the items for continued study and work content for the preparation of joint contributions were identified.
- (3) It was decided to continue the work on the proposed amendments to ITU-R Resolution 56 on the name of the IMT (mainly defining the new designation IMT-2030) and ITU-R Resolution 65 on the principles for the future development process of IMT-2020 and IMT-2030, with a view to preparing a joint contribution for approval at RA-23.
- (4) It was decided to continue the exchange of views toward WRC-23 on specific candidate frequencies related to the additional identification of IMT frequencies, which is being considered as a new agenda item for WRC-27, and the issue of using Mobile-satellite service on IMT frequencies (direct communication between IMT mobile terminals and IMT satellites).

◆ Next meeting schedule

The next CJK IMT Working Group Meeting is scheduled to be held in January 2024.

## "5G Special Day V" in CEATEC 2023

CEATEC 2023 was held at Makuhari Messe located in the suburbs of Tokyo in October. During CEATEC exhibition, the workshop titled "5G Special Day V" was organized on October 18th on-site as well as online.

532 participants attended there, and over 300 audience viewed the online distribution. The archive contents of workshop had been provided until the end of October.

### 1. Outline of the Event

Schedule	18 October 2023
Venue	Makuhari Messe, Chiba city, Japan (Online available)
Organizer	<p>[AM] The Local 5G Utilization 2023 Workshop</p> <ul style="list-style-type: none"> <li>- Local 5G Promotion Public-Private Coordination Committee</li> <li>- Communications and Information Network Association of Japan (CIAJ)</li> <li>- Association of Radio Industries and Businesses (ARIB)</li> <li>- 5th Generation Mobile Promotion Forum (5GMF)</li> </ul> <p>[PM] 5G Latest Trends 2023 International Workshop</p> <ul style="list-style-type: none"> <li>- Ministry of Internal Affairs and Communications (MIC)</li> <li>- 5GMF</li> <li>- ARIB</li> </ul>

### 2. Program

At the beginning, Prof. YOSHIDA Susumu, Chairman of 5GMF (Professor Emeritus of Kyoto University), gave an opening address on behalf of the organizers, followed by a guest speech by Mr. OGIHARA Naohiko, Director-General of the Radio Department, MIC as a guest of honor.

#### (1) The Local 5G Utilization 2023 Workshop (AM)

<b>Main Subject: Expansion of utilization, challenges, and future prospects</b>	
Title / Outline	Speaker
Opening Remarks	Mr. ISHII Yoshinori Executive Vice President, Communications and Information network Association of Japan
Japan's Efforts to Promote the Prevalence of "Local 5G"	Mr. UCHIDA Yuichiro Ministry of Internal Affairs and Communications Director of the Digital Economy Promotion Office, Regional Communications Development Division, MIC

Local 5G initiatives for autonomous airport buses	Mr. KADONO Takaaki Director, Advanced Technology Group, Solution Architect Department, Nippon Telegraph and Telephone East Corporation
Local 5G demonstration experiment on urban expressways	Mr. TAKAHASHI Yoshitaka Deputy Manager, Facility Engineering Division, Metropolitan Expressway Company
Local 5G for emergency medical resilience and physician's work style reforms	Mr. ASANO Tomokazu Senior Manager, Government Relations & Public Affairs Division, transcosmos inc.
Realizing smart security for thermal power plants using local 5G	Mr. NAKAGAWA Koushirou Information & communication division, Kyushu Electric Power Company, Incorporated
Efforts by small and micro enterprises to create smart factories using local 5G	Ms. NAKAMOTO Akane OHMORI CHROME CO., LTD
Panel Discussion: (Talking frankly about the status and prospects of Local 5G)	Ms. OHYAMA Rika (Moderator) President, ON BOARD Co., Ltd. Prof. MORIKAWA Hiroyuki (Commentator) Chairman of Strategy & Planning Committee, 5GMF (Professor of The University of Tokyo) Mr. UCHIDA Yuichiro Mr. KADONO Takaaki Mr. TAKAHASHI Yoshitaka Mr. ASANO Tomokazu Mr. NAKAGAWA Koushirou Ms. NAKAMOTO Akane
Closing Remarks	Mr. NISHIOKA Seiji Executive Director, ARIB



Panel Discussion at The Local 5G Utilization 2023 Workshop

(2) 5G Latest Trends 2023 International Workshop (PM)

Title / Outline	Speaker
Opening Remarks	Prof. YOSHIDA Susumu
Keynote Speech	Mr. OGAWA Hiroyuki Director of Land Mobile Communications Division, MIC
Overview of Millimeter Wave Promotion Ad Hoc White Paper	Mr. NAKAMURA Takehiro Chief examiner, Millimeter wave Promotion Ad Hoc, 5GMF (Chief Standardization Officer, NTT DOCOMO, INC.)
5G status and preparation for B5G in Korea	Prof. LEE Hyeon Woo Associate Professor, Mobile System Engineering Dept. (Professor at DanKook University)
5G-Advanced mmWave Opportunities and Challenges	Mr. Ozge Koymen Senior Director, Technology, Qualcomm, Inc.
mmW solutions and business opportunities	Mr. Christopher Price Director of Advanced Technology, Asia-Pacific, Ericsson
Millimeter-Wave Spectrum for Industrial 5G - Potentials and Challenges	Mr. Niels König Head of Department, Production Metrology Institut für Produktionstechnologie IPT, 5G-ACIA (Fraunhofer)
The Changing World Through 5G : The Current Landscape of MetaVerse and Web3 Service 'aU'	Mr. TATEBAYASHI Shunpei General Manager, KDDI CORPORATION

Panel Discussion: “Challenges and future prospects for millimeter wave utilization”	Mr. SEKIGUCHI Waichi (Moderator) President, MM Research Institute (former editorial writer and columnist for Nikkei Inc.) Mr. NAKAMURA Takehiro Prof. LEE Hyeon Woo Mr. Ozge Koymen Mr. Christopher Price Mr. Niels König Mr. TATEBAYASHI Shunpei
Closing Remarks	Mr. OHMURA Yoshinori Secretary General of 5GMF



Panel Discussion at 5G Latest Trends 2023 International Workshop

## The 29th ITS World Congress 2023 in Suzhou

The 29th ITS World Congress 2023 was held in Suzhou, China in October 2023.

### ◆ Overview of the Congress

Date	16 - 20 October 2023
Venue	Suzhou International Expo Center
Theme	“DRIVING TOWARDS INTELLIGENT SOCIETY – Quality Life”
Organizer	Suzhou Municipal People's Government Jiangsu Provincial Department of transport Research Institute of Highway, Ministry of Transport of P. R. China (Co-hosted by Suzhou Transportation Bureau, Suzhou Industrial Park Administration Committee and China ITS Industry Alliance)
Participants (Registered)	More than 4,900 (3 from ARIB)
Number of exhibitors	More than 134

◆ Sessions related to Japan

Session No.	<b>SIS(Special Interest Session)11 (held on 17 October)</b>
Title	National ITS Activities in Japan – Future Transport Society with DX
Speakers	Mr. BARADA Takehiko (Moderator) ITS Japan Mr. IKEUCHI Hisaaki National Police Agency, Japan Mr. MASHIKO Takanori Ministry of Internal Affairs and Communications, Japan Mr. KYOTO Yuta Ministry of Economy, Trade and Industry, Japan Mr. WAGA Masamitsu Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan Mr. HAYASHI Kenichi Road Transport Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan Mr. ISHIDA Haruo Cabinet Office, Japan Mr. ASAYAMA Kentaro Digital Agency, Japan
Highlights	Mr. MASHIKO gave a presentation entitled "MIC's Recent Activities on ITS", in which the domestic and international efforts for ITS were introduced. The presentation also included the allocation of frequencies for 5.9GHz V2X and the target launch date for applications using the 5.9GHz band.
Session No.	<b>SIS14 (held on 17 October)</b>
Title	Current and Future Spectrum Strategy for Cooperative Automated Vehicle
Speakers	Mr. YAMAMOTO Takeshi (Moderator) ITS Info-communication Forum, Japan Mr. KAKEGAWA Hirofumi, Ministry of Internal Affairs and Communications, Japan Mr. NIELS PETER SKOV ANDERSEN CAR 2 CAR Communication Consortium, Denmark Mr. RAM SHALLOM Autotalks Ltd., Israel Ms. SUZANNE MURTHA AECOM, United States
Highlights	In this session, speakers from governments and related organizations in Japan, U.S., Europe and China reported and discussed the status and future of V2X studies and frequency allocations in their respective regions. From Japan, Mr. KAKEGAWA gave a presentation on the status of studies at MIC and future issues for V2X in the 5.9 GHz band.
Session No.	<b>PL(Plenary Session)2 (held on 18 October)</b>
Title	Future Mobility and Transport Industry Driven by Innovation

Speakers	<p>MR. XIAOJING WANG (Moderator) Chairman of China ITS Industry Alliance, China</p> <p>Mr. KEQIANG LI Academician/Professor, The Chinese Academy of Engineering/Tsinghua University, China</p> <p>Dr. JÜRGEN UNSER President of Audi China, Audi, Germany</p> <p>Mr. CHENWEI YAN Senior Vice President, Qualcomm, United States</p> <p>Mr. OGIHARA Naohiko Director-General of the Radio Department, Telecommunications Bureau, Ministry of Internal Affairs and Communications, Japan</p>
Highlights	<p>Mr. OGIHARA appeared on video and made a presentation titled "The future mobility of Japan with ITS communications" including the government's target setting for V2X and the timing of the realization of 5.9GHz band V2X, which drew attention from other speakers.</p>

◆ Exhibitions

ITS Info-communications Forum (ITSF) had a booth exhibition at the Japan Pavilion, where the panels introducing the status of radio wave use in Japan and its standardization activities were exhibited, and booklets summarizing ITSF's achievements to date were provided. At the Toyota booth, an automated vehicle for China was on display for the first time in several years in collaboration with Pony.ai and others. In addition, the system configuration and remote monitoring of the Robot Taxi, which connects the world conference venue, nearby major hotels, and high-speed railway's Suzhou Park Station, were exhibited at the Denso booth and the Suzhou Park (SIP) booth.



Suzhou International Expo Center



Display by ITSF

The congress concluded with the announcement of the future ITS World Congress described below.

- The 30th: Dubai, UAE, 16 - 20 September 2024
- The 31st: Birmingham, UK, 2025
- The 32nd: Gangneung, Korea, 2026

## Result of the Elections to the Secretary General of Asia-Pacific Telecommunity (APT)

Mr. KONDO Masanori (Japan) was re-elected at the 16th General Assembly of Asia-Pacific Telecommunity (GA-16) held in Bangkok, Thailand on 6 and 7 November 2023 as Secretary General for his second three-year term (February 2024 - February 2027).

## Exhibition in Inter BEE 2023 by ARIB/DiBEG

The 59th Inter BEE (International Broadcast Equipment Exhibition) 2023 was held at the Makuhari Messe in the suburbs of Tokyo, which ARIB/DiBEG participated in.

### 1. Event outline

Inter BEE is Japan's largest broadcasting equipment exhibition, and this year was the 59th time. The conferences were held at the international conference hall and the open stage, with 1,005 exhibitors, 1,704 booths and 31,702 visitors based on the registration, according to the organizer's announcement. The number of exhibitors and visitors has recovered to 80% of the pre-corona crisis (2019).

Schedule:

- Real exhibition : 15 - 17 November 2023  
at Makuhari Messe (in the suburbs of Tokyo)
- Online exhibition : 6 November - 15 December 2023

Comparison of the scale of Inter BEE over the past four years

Year (Exhibition form)	Number of exhibitors	Number of booths	Number of registered visitors
2023 (Real, Online)	1,005	1,704	31,702
2022 (Real, Online)	810	1,391	26,901
2021 (Real, Online)	495	749	18,308
2020 (Online)	140	—	—
2019 (Real)	1,158	2,125	40,375

### 2. Real exhibition of ARIB/DiBEG

At the ARIB/DiBEG booth, explanations of the recent state of standardization in the broadcasting field, efforts toward next-generation broadcasting technology and the international expansion of ISDB-T by DiBEG were provided using the display panel and the brochures.



Visitors to the booth expressed interest in the fact that the many of the countries which have adopted ISDB-T located in Latin America, the latest information on competition of candidate systems for the introduction of the next-generation digital terrestrial television broadcasting system in Brazil, and the progress of standardization in Japan.

### 3. Seminar

At the "IP Pavilion Relay Seminar", Mr. TAKIGUCHI Yoshiro (NHK Science & Technology Research Laboratories), Chairman of the Studio equipment interface working group, Technical committee of ARIB, gave a lecture on domestic standardization and future prospects for the program production IP interface standardization at ARIB.



Display panel at the Exhibition booth of ARIB/DiBEG

## oneM2M Technical Plenary(TP) #62 and Open IoT Industry Day

oneM2M TP#62 and "Open IoT Industry Day" were held in December 2023.

1. Organizers: Co-hosted by ARIB and TTC (Telecommunication Technology Committee)
2. Date
  - TP#62: 4 - 8 December 2023
  - Open IoT Industry Day: 6 December 2023
3. Venue: Tokyo, Japan (Conference Room at TTC, online available)
4. Overview:
  - 【oneM2M TP#62】

The main purpose of this meeting was to review the work of Release 5 Stages 1 and 2, work program management, and to discuss the ad hoc groups related to academia. Notable topics included the approval of the Work Item on Digital Twin, and discussion of the liaison from GCF ("Global Certification Forum", which oversees certification work).

#### 【Open IoT Industry Day】

TP#62 participants gave a lecture on the latest progress in IoT platform development and introduced case studies of IoT systems based on oneM2M standard.

In panel discussion, interoperability frameworks were discussed, and there was a lively Q&A session among the conference participants (28 participants at the venue and 57 online).



Participants in the TP#62



Open IoT Industry Day



Association of **R**adio **I**ndustries and **B**usinesses

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