

Newsletter ARIB SEASON



No.0031

Topics

The 11th Annual General Assembly and the 33rd Board of Directors Meeting of ARIB

The 11th Annual General Assembly and the 33rd Board of Directors meeting of ARIB were held on 30 June 2021 at Hotel New Otani in Tokyo.

Business and financial reports of the fiscal year 2020 (from April 2020 to March 2021) along with the appointment of officers and Management Advisory Committee members were approved at the General Assembly. At the Board of Directors meeting held after the General Assembly, Mr. ENDO Nobuhiro was elected as a new chairman taking after Mr. NOMURA Katsuaki.



The 11th Annual General Meeting

The 32nd Radio Achievement Award

The 32nd Radio Achievement Award was released on 30 June 2021. This award is presented every year by the MIC and the Chairman of the Board of ARIB to individuals

and groups who have made a significant achievement relating to effective and proper use of radio wave.

The award ceremony which is held in late June every year on the same day with the Annual General Assembly of ARIB was cancelled due to the Coronavirus pandemic.

This year's winners are as follows.

1. The Award of the Minister of Internal Affairs and Communications

- (1) Carrier Aggregation of 5G Frequency Bands Realized by Open RAN
NTT DOCOMO, INC
- (2) Development and Demonstration of 5G V2V URLLC System for Truck Platooning
SoftBank Corp., Wireless City Planning Inc.

2. The Award of the Chairman of the Board of ARIB

- (1) Practical application of Wireless LAN for construction sites using 5GHz-band waveguide communication system
FURUNO ELECTRIC CO., LTD, TODA CORPORATION
- (2) Development of an optically transparent dual-band meta-surface reflector
KDDI Research, Inc., National Defense Academy,
Nihon Dengyo Kosaku, Co., LTD
- (3) Implementation of 5G system on 4G frequencies
KDDI CORPORATION, SoftBank Corp.
- (4) Completion of radio wave propagation measures in the tunnels of the Shinkansen bullet train nationwide
Japan Mobile Communications Infrastructure Association, SoftBank Corp.,
NTT DOCOMO, INC, KDDI CORPORATION
- (5) Providing of the "Mieru Denwa" service supporting users with hearing impairment
NTT DOCOMO, INC., DOCOMO Technology, Inc.

The Fiscal 2021 General Assembly of 5GMF

The fiscal 2021 General Assembly of the 5GMF (The Fifth Generation Mobile Communications Promotion Forum) was held online due to the pandemic on 7 July.

About 120 members from telecommunication operators, equipment vendors, research institutions such as universities and MIC (Ministry of Internal Affairs and Communications) participated.

The income and expenditure settlement for FY2020, the business plan and income and expenditure budget for FY2021, the dissolution of the "5G Demonstration Test Promotion Group" due to completion of its mission, and the appointment of officers, were approved as proposed.

The following plans were explained.

- (1) Conduct surveys through questionnaires, hearings, etc. to formulate measures to promote the spread of local 5G and revise existing documents.
- (2) Introduce nationwide trial cases using commercial 5G on the 5GMF web site.
- (3) The reserve budget for 2021 will be used for the invitation to Japan for the 9th

Global 5G Event scheduled for 2022.

At the end of the agenda, the current status of the "Local 5G Promotion Public-Private Liaison Committee", by which full scale activities are scheduled to begin in August this year, was reported.

Frequency Resource Development Symposium 2021

"Frequency Resource Development Symposium 2021" on the theme of "5G and Beyond - Next generation information and telecommunication society" was held in Akasaka, Tokyo on 9 July 2021. The event was co-organized by the Association of Radio Industries and Businesses (ARIB) and the National Institute of Information and Communications Technology (NICT), supported by the Ministry of Internal Affairs and Communications (MIC).

At the symposium, presentations were delivered on technologies, standardization trends, applications, policies by the specialists from government, industry and academia, focusing on wireless communication technologies that will lead to the use of these new frequencies.



◆ Program

Title	Presenter
(Opening address)	Dr. KADOWAKI Naoto Vice President, NICT
(Guest address)	Mr. NOZAKI Masatoshi Director-General of the Radio Department, MIC
Recent trend in radio policy	Mr. OGIHARA Naohiko Director of Radio Policy Division, MIC
Mobile communication systems for the Society 5.0 era	Dr. SAMPEI Seichi Professor, Osaka University
Deployment of Local 5G to society	Mr. GOTO Tomonori Senior Vice President, Fujitsu Limited
5G Evolution & 6G	Dr. NAKAMURA Takehiro Senior Vice President, NTT DOCOMO, INC.

6G - The Road Ahead	Dr. LATVA-AHO Matti Professor, University of Oulu
Development of 5G and the Wireless Emulator that supports it	Dr. MATSUMURA Takeshi Director of Wireless Systems Laboratory, NICT
(Closing address)	Mr. KODAMA Syunsuke Secretary General, ARIB

CJK the 62nd IMT Working Group Meeting

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

1. Outline of the meeting

Schedule	18 and 19 August 2021
Meeting	Online
Participants	ARIB (Japan) 17, CCSA (China) 37, TTA (Korea) 17

2. Main results

- (1) The results of the 38th ITU-R SG5 WP5D meeting and the recent 3GPP meeting were shared, views were exchanged on the future issues to be studied.
- (2) For the 39th WP5D meeting scheduled to be held from 4 October, it was decided that following issues were of high priority, on which discussion would be continued including possibility of joint contribution.
 - How to proceed with the discussion of IMT-2020 recommendation on unwanted emission
 - Development schedule on "IMT-2030 and beyond"
 - Update of the working document of C-V2X Report
- (3) Information on the progress of each country's study of Future Technology Trends report and of Vision recommendation for Beyond 5G standardization were shared, and discussion was held on what should be included in the report / recommendation and how to proceed with the future studies.
- (4) China and South Korea reported on 6G activities, where China (IMT-2030 PG) introduced the 6G white paper (*) released in June.
* http://www.caict.ac.cn/english/news/202106/t20210608_378637.html
- (5) Japan reported that the Subcommittee of the Beyond 5G Promotion Consortium started creating white papers in March and is planning to complete the Ver1.0 in March 2022.

3. Next meeting schedule

The next CJK IMT Working Group Meeting would be scheduled around January 2022.

The 28th Meeting of APT Wireless Group (AWG-28)

The 28th Meeting of APT Wireless Group (AWG-28) was held in September.

◆ About the APT Wireless Group (AWG)

APT (Asia-Pacific Telecommunity) Wireless Group, AWG, studies the harmonization and standardization of the frequency and technical matters aiming at enhancement and dissemination of Wireless telecommunication of wireless communication systems in the Asia-Pacific region. The meeting has been held usually about twice a year, and the experts of the wireless technology of each country in this region join the meeting, where Mr. Le Van Tuan (Vietnam) works as a chairperson.

◆ Outline of the Meeting

- Schedule: 6 - 14 September 2021
- Meeting: Online
- Participants: 520 people from administrations, private organizations and international organizations in the Asia-Pacific region, 77 people as the Japanese delegation headed by MIC including 5 from ARIB

◆ Main results

AWG has three working groups (WG: Frequency, Technology and Service/Application), in each of which sub working groups or task groups have been established for the issues.

The main results of the meeting from each WG were as follows.

(1) WG Spectrum Aspects

- The report " Mitigation measures to improve sharing and compatibility between 4G-LTE and 5G-NR systems and other systems operating in portions of 3300-4200 MHz" was completed.

(2) WG Technology Aspects

- The report "Current status and future plan of implementation and deployment of IMT-2020 (5G) in Asia-Pacific region" was completed.
- The report "Studies on implementation aspects of IMT-2020 in the frequency bands below 6GHz in Asia-Pacific region" was completed.

(3) ITS, Railway

- Regarding ITS, work for two kind of reports is underway. "CELLULAR BASED V2X FOR ITS APPLICATIONS IN APT COUNTRIES" was revised reflecting development of 3GPP Release17, and future expansion examples of road-to vehicle and road-to road network configuration were added to working report on "MILLIMETRE WAVE ITS APPLICATIONS IN APT COUNTRIES".

◆ Organization for study

Revision of the organization for study has been completed, and it will be applied from the next AWG meeting (Figure below).

Renewed Organization of AWG

Working Group on Harmonization (WG Harmonization)	Working Group on IMT (WG IMT)	Working Group on Terrestrial (WG Terrestrial)	Working Group on Space, Aeronautical and Maritime (WG SAM)
Sub Working Group on Spectrum Arrangement and Harmonization (Sub-WG SA&H)	Sub Working Group on IMT Spectrum (Sub-WG IMT Spectrum)	Task Group on Fixed Wireless and Ground-Based Radar Systems (TG FWS/GBRS)	Task Group on Satellite Systems (TG Satellite)
Sub Working Group on Sharing Studies (Sub-WG SS)	Sub Working Group on IMT Technologies (Sub-WG IMT Tech)	Task Group on Intelligent Transportation Systems (TG ITS)	Task Group on Aeronautical and Maritime (TG A&M)
Sub Working Group on Spectrum Monitoring (Sub-WG SM)	Task Group on Public Protection and Disaster Relief (TG PPDR)	Task Group on Wireless Power Transmission (TG WPT)	
	Task Group on High Altitude Platform Station (TG HAPS)	Task Group on Railway Radiocommunications (TG RR)	



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