

# Newsletter ARIB SEASON



No.0034

*Topics*



## The 29th Meeting of APT Wireless Group (AWG-29)

The 29th Meeting of APT Wireless Group (AWG-29) was held online in March.

### ◆ 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 communication systems in the Asia-Pacific region. The meeting has been held usually twice a year, and the experts in the wireless technology of each country in this region join the meeting.

Mr. Le Van Tuan (Vietnam) chaired the meeting.

### ◆ Outline of the Meeting

- Schedule : 21 - 29 March 2022
- Meeting : Online
- Participants: 491 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

#### 1. Formation for study

This time, formation for study was restructured into four WGs (Harmonization, IMT, Terrestrial and SAM (Space, Aeronautical and Maritime)) and AFIS (APT Frequency Information System) Ad Hoc. Chairperson of each WG was elected.

#### 2. IMT

##### (1) WG Spectrum Aspects

- A new ITU-R Report "RELEVANT INFORMATION FOR CONSIDERATIONS ON THE POSSIBLE IMPLEMENTATION OF IMT IN THE FREQUENCY BAND 1427

- 1518 MHz" related to frequency arrangement has been completed.
- Drafting of a new ITU-R Report on the method of sharing 1980 - 2010 MHz and 2170 - 2200 MHz band was finished. A final agreement was carried over to the next meeting in order to take time to check the document.

(2) WG Technology Aspects

- The draft new report on the introduction of 5G at frequency band above 24.25GHz was revised.
- Regarding the draft new report on OTA (Over The Air) measurement, expansion of the scope of study to include technical information and progress in specification work in 3GPP was decided.
- It was newly proposed to prepare a report summarizing the issues and solutions related to area development for various 5G use cases, and it was agreed to start this work.

3. ITS

- Regarding the draft new report of Cellular V2X, the description of the appendix detailing the related technology has been updated and will be completed at the next meeting.
- For the draft new report of the millimeter-wave application on ITS, the positioning method that predicts the shielded area and its verification results were added. It was decided that completion of the draft would be postponed to the meeting to be held on Fall 2023.

◆ **Future meeting schedule**

The next AWG-30 meeting will be held in Bangkok from 5 to 9 September 2022, in combination with a web conference.

**CJK the 64th 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, 3GPPs, and so on, among members of SDOs in China, Korea and Japan.

◆ **Outline of the meeting**

Schedule	12 and 13 May 2022
Meeting	Online
Participants	CCSA (China) 45, TTA (Korea) 17, ARIB (Japan) 18

◆ Main results

- (1) The results of AWG-29 (March 2022), ITU-R SG5 WP5D the 40th (February), the WP5D WG Spectrum Interim (April) and the recent 3GPP meetings were shared. The issues to be studied were also agreed on.
- (2) For the 41st WP5D meeting scheduled to be held from 13 June 2022, preparation status of each country was reported, and discussions were held on joint contributions. Items to be continuously examined and work items were identified there.
- (3) Information on the status and ideas of each country's preparation for Future Technology Trends report and Vision recommendation leading to Beyond 5G standardization was exchanged. The contents to be included in each report / recommendation and how to proceed with future studies were discussed. Furthermore, for the Future Technology Trends report, it was decided that exchange of opinions by e-mail would be continued toward preparing a joint contribution regarding the policy for organizing the document contents, aiming at the finalization at the next meeting.
- (4) As a result of discussions based on Korea's proposal at the previous meeting to actively deal with difficult issues in order to take advantage of the opportunities of CJK IMT WG, it was agreed that the joint contribution on "IMT plan for 2030 and beyond" would be prepared.

◆ Next meeting schedule

The next CJK IMT Working Group Meeting is scheduled to be held around September 2022.

<b>Radio Day Memorial Lecture</b>
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"Radio Day Memorial Lecture" was held on 3 June 2022, organized by ARIB, co-sponsored by the Council for Info-Communications Promotion Month, and supported by the MIC. This is the first time in three years to welcome the audience to the venue, IINO HALL in Tokyo. The lecture was also streamed for audience across the nation.

"Radio Day" was established in 1951 memorizing the enforcement of the laws related to radio wave regulations on 1 June 1950 in Japan.

Main theme of the Lecture was "Current status and future prospects of radio wave usage".

Program

	Lecturer	Title
1	Mr. NINOMIYA Seiji: Director-General of the Telecommunications Bureau, MIC	Radio policy in the age of digital transformation
2	Mr. NAKAMURA Takehiro: Senior Vice President NTT DOCOMO, INC.	5G Evolution and 6G

3	Mr. FUKUOKA Toru: Senior Executive Vice President SKY Perfect JSAT Group	Satellite business in the future
4	Mr. KAWAMURA Atsuo: Executive Vice President NEC Corporation	NEC's new challenge for the Beyond 5G era

### The 26th General Assembly of Electromagnetic Environment Committee

The 26th General Assembly of Electromagnetic Environment Committee (EEC) was held on 13 June 2022, where business report and financial statements for FY 2021 as well as business plan and budget for FY 2022 were approved. Following the General Assembly, the briefing session was also held attended by 43 EEC members. The titles and reporters of the briefing were as follows.

	Contractor	Title of briefing
1	Prof. MASUCHI Ayumi: Hokkai-Gakuen University	Survey on awareness of risk caused by 5G mobile phones and base station radio waves
2	Prof. SAKURAI Tomonori: Gifu Pharmaceutical University	Assessment of the effects of radio wave exposure in mobile phone frequency bands on amyloid $\beta$ deposition in the brain
3	Prof. UGAWA Yoshikazu: Fukushima Medical University  Assistant Prof. Setsu Enomoto: Teikyo Heisei University	Assessment of the effect of high-frequency electromagnetic fields on eye strain when using smartphones

### The 12th Annual General Assembly and the 37th Board of Directors Meeting of ARIB

The 12th Annual General Assembly and the 37th Board of Directors meeting of ARIB were held on 28 June 2022 at Hotel New Otani in Tokyo.

Business and financial reports of the fiscal year 2021 (from April 2021 to March 2022) along with the appointment of board members and Management Advisory Committee members were approved. At the Board of Directors meeting held right after the General Assembly, new board members and revision of articles were approved, and Mr. URUMA Kei was elected as a new chairman taking over from Mr. ENDO Nobuhiro.



The 12th Annual General Meeting

### The 33rd Radio Achievement Award

The 33rd Radio Achievement Award ceremony was held on 28 June 2022, after the 12th Annual General Assembly of ARIB. 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.

This year's winners are as follows.

- ◆ The Award of the Minister of Internal Affairs and Communications
  - (1) 5G SA System Development and Service Application  
NTT DOCOMO, INC., KDDI CORPORATION, SoftBank Corp.
  - (2) Demonstration and Implementation of dynamic spectrum access system at 2.3GHz band  
The University of Electro-Communications, Kyoto University, National Institute of Information and Communications Technology, KDDI Research, Inc., Mitsubishi Research Institute, Inc., Sony Group Corporation, IBM Japan Ltd
  - (3) Development of 8K Wireless Camera System using Millimeter - Wave Band  
NHK (Japan Broadcasting Corporation)
- ◆ The Award of the Chairman of the Board of ARIB
  - (1) Contribution to ITU-R's "HAPS Radiowave Propagation Prediction Method" Global Standard  
SoftBank Corp.
  - (2) Development of international standard computational models of children and their contribution to the revision of the guidelines for limiting exposure to radio-frequency electromagnetic fields  
National Institute of Information and Communications Technology

- (3) Commercial use of infrastructure sharing  
KDDI CORPORATION
- (4) Practical development of VHF band Fixed wireless system  
NIPPON TELEGRAPH AND TELEPHONE CORPORATION,  
NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION  
NTT FIELDTECHNO CORPORATION
- (5) Promotion and Formulation of IEEE 802.19.3 Standardization for Wireless  
Coexistence in the Sub-1 GHz Band  
Mitsubishi Electric Corporation, Mitsubishi Electric Research Laboratories,  
Muroran Institute of Technology,  
Advanced Telecommunications Research Institute International
- (6) Contributions to the overseas diffusion of the Japanese digital TV system, ISDB-T  
and its emergency warning function, EWBS  
Japan Telecommunications Engineering and Consulting Service



Commemorative photo with awarded members

### General Assembly of ITS Info-communications Forum

The ITS Info-communications Forum was established to promote evolution of the roadway, transportation and automotive fields using highly advanced intelligent transport systems (ITS), with a special focus placed on research and development and standardization of information - communications technologies. This Forum consists of nearly 100 members from industrial and governmental sectors, and ARIB serves as a secretariat for the forum. General Assembly of ITS Info-communications Forum was held on 27 June 2022 at Meiji Kinenkan in Tokyo, as around 50 members participated. Business report and financial statements for FY 2021 as well as business plan and budget for FY 2022 were approved. Board members and Management Committee members for 2022 were selected as well.

As for activities in fiscal year 2021, the examination of communication requirements and communication scenarios in cooperation with SIP-adus Task force on V2X communication for Cooperative Driving Automation, as well as the examination of “message set” for bicycle / pedestrian accident prevention support system were reported. Also, study about limitation on 76-77GHz band radar output power was mentioned. In addition, as international standardization activities, proposals to ITU-R report "ITU-R M.[CAV] --Connected Automated Vehicles", and “Millimeter-wave ITS applications in APT member countries” at AWG were reported. In terms of international cooperation and dissemination activities, a panel exhibition at the ITS World Congress 2021 Hamburg and VSC online seminar which contained five lectures and panel discussion were also introduced.

Regarding a business plan for fiscal year 2022, technical studies and proposal of standards in collaboration with related parties for Cooperative Driving Automation and accident prevention support, along with promotion of international standardization for wireless communications system related to ITS and automated driving, and strengthening cooperation with ITS experts were explained.



ITS Info-communications Forum General Assembly



**Association of Radio Industries and Businesses**

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