

# Newsletter ARIB SEASON



No.0030

*Topics*



**Symposium to Promote Safe and Secure Radio Usage  
in Medical Institutions**

The Ministry of Internal Affairs and Communications (MIC) and the Electromagnetic Compatibility Conference Japan (EMCC), for which ARIB works as secretariat, held a Symposium to Promote Safe and Secure Radio Usage in Medical Institutions on 8 March 2021, and delivered it in an on-demand style.

In this symposium, MIC and EMCC introduced the possibility of using new radio wave applications, such as 5G, in medical institutions and usage examples of radio wave and ICT applications contributing to measures against novel coronavirus infections. At the same time, MIC and EMCC held a panel discussion on management systems for the safe and secure use of radio waves, including practical examples.

The symposium was participated by 1052 audiences, 54% of whom are engaged in medical care and 16% were involved in the manufacture of medical equipment.

The program of the Symposium was as follows.

Session	Speaker	Title
1. Opening	SHINTANI Masayoshi State Minister for Internal Affairs and Communications	
2. Organizer greetings	FUKUCHI Hajime Chairman of EMCC	
3. Lecture		
Session1	KONDO Katsuyuki Professor and Vice President, Akita University	Medical Safety Management related to Radio Wave Use

Session2	KANETA Satoshi NTT Data Institute of Management Consulting, Inc.	Possibility of New Use of Radio Waves in Medical Institutions
	HARIGUCHI Jiro XGP Forum, BB Backbone Co., Ltd.	
Session3	ENDO Tetsuo Taisei Corporation, Chief Investigator of the Environmental Engineering Committee and Electromagnetic Environment Steering Committee of the Architectural Institute of Japan	Consideration Status of Building Guidelines for Installing Medical Telemeters
	KAWABE Manabu Full-time Lecturer, School of Clinical Engineering, Saitama Medical University	Development of Medical Telemeter Inspection Tool
4. Panel discussion: "Safe Radio Wave Management for New Radio Wave Usage in Medical Institutions"		
Coordinator and Moderator	KANO Takashi Professor, Graduate School of Health Care Sciences, Jikei Institute	
	HANADA Eisuke Professor, Department of Information Science and Engineering, Saga University	
Presenters	TAKESHITA Kohei Assistant Professor, Jikei University School of Medicine	Use of Radio Waves and ICT that Contribute to Measures against Novel Coronavirus
	ISHIMARU Shigehide Deputy Chief, Department of Clinical Engineering, Tobata Kyoritsu Hospital	Practical Examples of Medical Safety Management related to the Use of Radio Waves
Panelists: OMICHI Michihiro (Vice President, Japan Hospital Association) KONDO Katsuyuki (Professor and Vice President, Akita University) NAGASHIMA Kimiyuki, (MD Executive Board member, Japan Medical Association)		

## The 27th Meeting of APT Wireless Group (AWG-27)

The 27th Meeting of APT Wireless Group (AWG-27) 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 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.

Mr. Le Van Tuan (Vietnam) served as a chairperson.

### ◆ Outline of the Meeting

- Schedule: 22 - 30 March 2021
- Meeting: Online
- Participants: 520 people from administrations, private organizations and international organizations in the Asia-Pacific region, 67 people as the Japanese delegation headed by Mr. SATO Tsukasa (Deputy Director of International Frequency Policy Office, MIC) including 5 from ARIB

### ◆ Main results

In AWG, three working groups (WG: Frequency, Technology and Service/Application) were set, 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

- Drafting Groups were created for two of the study items : ① Study of frequency sharing between IMT and MSS (Mobile-satellite service) in 1.5GHz and 2.1GHz band, ② Study of measures enabling frequency sharing between 4G-LTE and 5G-NR system in 3.3GHz and around 3.6GHz band, for which working documents were revised.

#### (2) WG Technology Aspects

- Test method under the OTA (Over the Air) condition was set as a new study item, and working plan was created.
- Work on the Report on Cellular V2X and Application of millimeter wave on ITS were undergoing respectively, the former of which reflected ITS technologies in 5.9GHz band and status in each member country, and the latter reflected the example of new application of millimeter wave radar with communications.

#### (3) WG Service and Applications

- The new report "Railway radio communication system for passenger access to information and internet services in some APT countries" was completed.

◆ **Future meeting schedule**

It was announced from APT secretariat that the next AWG-28 meeting would be planned in September and that probably be held online.

<b>The 2nd APG-23 (APG23-2) meeting</b>
---

APG-23 (Asia-Pacific Telecommunity Conference Preparatory Group for WRC-23) is responsible for preparing the APT Common Proposal towards the World Radiocommunication Conference to be held in 2023 (WRC-23). Dr. Kyu-Jin Wee (Korea) serves as a chairman.

The 2nd meeting of APG-23 was held in April.

◆ **Outline of the meeting**

- Schedule: 19 - 23 April 2021
- Meeting: Online
- Participants: 539 people from 25 APT member countries.  
97 people as the Japanese delegation headed by Mr. NAKAKOSHI Kazuaki (Director of International Frequency Policy Office, MIC) including 5 from ARIB.

◆ **Main results**

At this meeting, APT Preliminary Views were drafted, as base of APT Common Proposals for each Agenda Item (AI) in WRC-23. AIs under discussion were as follows.

- (1) AI 1.1: Revision of PFD (Power Flux Density) applied to IMT station in 4800 - 4990MHz band
- (2) AI 1.2: Study on identification of following frequency bands to IMT service 3300 - 3400MHz, 3600-3800MHz, 6425-7025MHz, 7025-7125MHz and 10.0-10.5GHz
- (3) AI 1.4: Use of HIBS (HAPS as IMT Base Stations) in IMT identified bands below 2.7GHz

◆ **Future meeting schedule**

Although details of the schedule have not be announced yet, next meeting is likely to set within the year 2021 for 6 - 7 days. Further, two meetings are planned in 2020.

(Study organization for APG23-2)

Chair	Dr. Kyu-Jin Wee (Korea)
Vice Chair	Mr. Muneo Abe (Japan) Ms. Zhu Keer (China)
Chair of Editorial Committee	Mr. Christopher Hose (Australia)
WP1: Fixed, Mobile and Broadcasting Issues	Dr. Hiroyuki Atarashi (Japan) Dr. Jae Woo Lim (Korea)
WP2: Aeronautical and Maritime Issues	Mr. Bui Ha Long (Viet Nam)
WP3: Science Issues	Mr. Wahyudi Hasbi (Indonesia)

WP4: Satellite Issues	Ms. Fenhong Cheng (China) Mr. Mrunmaya Pattanaik (India)
WP5: General Issues	Dr. Taghi Shafiee (Iran)

## CJK the 61st 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.

### 1. Outline of the meeting

Schedule	11 and 12 May 2021
Meeting	Online
Participants	ARIB (Japan) 18, CCSA (China) 41, TTA (Korea) 18

### 2. Main results

- (1) The results of ITU-R SG5 WP5D the 37th meeting held in March 2021 and the recent discussions at 3GPP were shared, and it was agreed on the issues to be studied.
- (2) Subjects under preparation in each country for ITU-R SG5 WP5D the 38th meeting were shared and drafting of Joint contribution was discussed.
- (3) Japan revealed the plan of proposing the report on Local / Private 5G, on which views were exchanged.
- (4) Japan introduced use cases on Local 5G in various sectors, China reported establishment of new WG in the IMT-2030 Promotion Group, and Korea provided information about 5G Network Sharing.

### 3. Next meeting schedule

The next CJK IMT Working Group Meeting would be scheduled in September 2021, provably online, and details of which would be decided in July.

## ARIB's Task Force was awarded by the ITU Association of Japan

On 17 May 2021, celebrating "World Telecommunication and Information Society Day", the awards were announced by the ITU Association of Japan (ITU-AJ). "Task Force for Next-generation Digital Terrestrial Television", existing as one of the task forces of DiBEG (Digital Broadcasting Experts Group) under ARIB, won the "Encouragement Award".

<Achievement>

The Task Force for Next-generation Digital Terrestrial Television has shared know-how gained in relation to the next-generation digital terrestrial television broadcasting being developed in Japan, with those countries that have adopted ISDB-T (Integrated Services Digital Broadcasting - Terrestrial, originally developed in Japan) system in order to assist them in the study of their next-generation systems. The group has contributed to strengthening technological collaboration between Japan and these countries as well as to development in the area of broadcasting in these countries, and the group's continued contributions are anticipated.

**Radio Day Memorial Lecture**

"Radio Day Memorial Lecture" was held online on 4 June 2021, organized by ARIB, co-sponsored by the Council for Info-Communications Promotion Month, and supported by the MIC. "Radio Day" had been originally 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. TAKEUCHI Yoshiaki: Director-General of the Telecommunications Bureau, MIC	Latest trends in radio policy
2	Mr. MIYAKAWA Junichi: President & CEO SoftBank Corp.	SoftBank's activities
3	Mr. ABE Daisuke: Managing Executive Officer Weathernews Inc.	Prospects for advancement of weather information and small weather radar to cope with intensifying weather
4	Mr. MIZUNO Shingo: Corporate Executive Officer, Vice Head of System Platform Business (in charge of Network Business) FUJITSU LIMITED	Approaches of Fujitsu to Beyond 5G/6G

**The 25th General Assembly of Electromagnetic Environment Committee**

The 25th General Assembly of Electromagnetic Environment Committee (EEC) was held online on 14 June 2021, where business / financial report was accepted and business / financial plan for fiscal 2021 was approved. Following the General Assembly, briefing

session on contracted researches from EEC was also held also online. The titles and reporters of the briefing were as follows.

	Contractor	Title of briefing
1	Prof. MASUCHI Ayumi: Hokkai-Gakuen University	Survey on risk awareness of electromagnetic wave in Japan
2	Prof. SAKURAI Tomonori: Gifu Pharmaceutical University	Assessment of the effects of radio exposure on Amyloid beta

### 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 Agencies, and secretariat of which is provided by ARIB. General Assembly of ITS Info-communications Forum was held online on 16 June 2021. About 80 members participated, where business / financial report was accepted, business / financial plan for fiscal 2021 was approved. Board members and Management Committee members for 2021 was selected as well.

Achievements in 2020 such as study of requirement on wireless communication for automated driving conducted in collaboration with SIP (Cross-ministerial Strategic Innovation Promotion Program) Task Force on V2X Communication for Cooperative Driving Automation, revision of ITU "Land Mobile Handbook – Vol. 4: ITS", and proposal to Question ITU-R 261/5 "Connected Automated Vehicles (CAV)", proposal to AWG on application of millimeter wave to ITS were reported.

As business plans for 2021, promotion of international standardization such as Question ITU-R 261/5, strengthening of cooperation with overseas ITS experts, acceleration of study on wireless communication technology related to Connected Automated Vehicles and ITS in collaboration with ministries and other related organizations, were presented.



**Association of Radio Industries and Businesses**

ARIB SEASON  
Publishing

1-4-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 JAPAN  
<https://www.arib.or.jp/english/>