

Newsletter ARIB SEASON



No.0041

ITU-R WRC-23

World Radiocommunication Conferences (WRC) are held every three to four years by ITU-R to review, and, if necessary, revise the Radio Regulations, the international treaty governing the use of the radio-frequency spectrum and the geostationary-satellite and non-geostationary-satellite orbits. Recent WRC (WRC-23) was held from November to December 2023 in Dubai, UAE, where H.E. Eng. Mohammed Al Ramsi from UAE chaired.

1. Outline of the Meeting

- Schedule : 20 November - 15 December 2023
- Venue : Dubai, United Arab Emirates
- Participants : 3,985 participants (Administration, Telecommunication Operators, Vendors), 112 participants from Japan (3 participants from ARIB)

2. Main results associated with Land mobile service

- (1) Agenda Item 1.2 --- Identification of the frequency bands 3300-3400 MHz, 3600-3800 MHz, 6425-7025 MHz, 7025-7125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile:
The following frequency bands were agreed to be identified for IMT in each Region.

6425-7025 MHz in the Region1, Part of Region2, Part of Region3

7025-7125 MHz in the Region1, Part of Region2, Region3

- (2) Agenda Item 1.4 --- The use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level:

The following frequency bands had been under discussion.

694-960 MHz, 1710-1885 MHz, 2500-2690 MHz (Newly added frequency bands)

1885-1980 MHz, 2010-2025 MHz, 2110-2170 MHz (Frequency bands for which requirements were revised)

694-960 MHz band has been identified for HIBS in Region1 and 2, and in 14 countries stated in the footnote in Region 3. All the other frequency bands have been identified for HIBS in all Regions.

- (3) Agenda Item for WRC-27 --- Additional identification of frequency bands for IMT and Use of IMT identified bands for MSS (Mobile-Satellite Service):

The following frequency bands were agreed to be studied as candidate for IMT identification.

4400-4800 MHz, 7125-8400 MHz, 14.8-15.35 GHz

It was decided that 694/698 MHz-2.7 GHz band which had been identified for IMT would be studied to be used for MSS, which enable direct communication between mobile terminals and satellites.

3. Future plan

Studies will be conducted through each SGs (Study Group) and WPs (Working Party) which act under SG in ITU-R, and through Asia-Pacific Telecommunity.

The 69th IMT Working Group Meeting of CJK

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 SDOs in China, Korea, and Japan, and also to work on joint contributions to the ITU-R SG5 WP5D.

1. Outline of the meeting

- Date : 10 and 11 January 2024
- Format : Online meeting
- Participants : CCSA 52 participants, TTA 18 participants, ARIB 22 participants

2. Main results

- (1) The results of the RA-23, WRC-23, CPM27-1 and the recent 3GPP meeting were shared, and the participant views were exchanged on the future issues to be studied.
- (2) For the 45th WP5D meeting scheduled to be held from 31 January, the progress of the preparation in each country was shared, a joint contribution was discussed, and items for further study and work contents were identified.
- (3) Since the next 45th WP5D meeting would be the first time in the new study period of 2024-2027 in ITU-R, it was decided to discuss the need to improve the structure of WGs, etc. of WP5D and continue the exchange of opinions.

- (4) Regarding the report on the technical performance requirements for the IMT-2030 radio interface, which will be prepared as the next step after the IMT-2030 Framework Recommendation was approved at RA-23, information was shared on the study status and ideas of each country. The possibility of preparing a joint contribution was also decided to continue to be discussed.
- (5) Regarding the identification of frequency for IMT which had been set in WRC-27 AI 1.7, it was decided to continue discussing the parameters necessary for study of frequency sharing.

3. Next meeting schedule

The next CJK IMT Working Group Meeting will be held in Beijing in May 2024.

MSC (Mobility & Safety Communications) Seminar in Tokyo

ITS Info-communications Forum (ITSF) for which ARIB acts as a secretariat held "Mobility & Safety Communications (MSC) Seminar" at Meiji Kinenkan hall in Tokyo on 22 January 2024. About 80 participants from ITS-related ministries/organizations and member companies of ITSF attended the Seminar.

The program of the Seminar was as follows.

Session	Title	Speaker
	(Moderator)	Mr. YAMAMOTO Takeshi Chairman of International Relations Committee, ITSF (Autotalks Ltd.)
	Opening Remarks	OGAWA Hiroyuki Director of the Land Mobile Communications Division, MIC
[Report 1] Efforts by Relevant Ministries on Communications for Automated Driving and Safe Driving Support		
(1)	Report on ITS World Congress 2023 Suzhou	Mr. KAKEGAWA Hirohumi Land Mobile Communications Division, MIC
(2)	Infrastructure support and next-generation ITS to realize Level 4 autonomous driving	Mr. MIYAKE Masanori ITS Policy and Program Office, Ministry of Land, Infrastructure, Transport and Tourism
(3)	Trends in ICT for the Realization of Automated Driving and Efforts by the MIC	Mr. MASHIKO Takanori Director of the New-Generation Mobile Communications Office, MIC

[Report 2] International Trends in Automated Driving Systems and Radiocommunication Systems for ITS		
(1)	International Trends toward the Implementation of Level 4 Mobility Service	Mr. SHIRATO Ryota Senior Vice President of ITS Japan
(2)	International standardization trends related to ITS/automated driving in ITU-R	Mr. TOKOYAMA Takahiro Chairman of International Standardization Promotion TG, ITSF, (ARIB)
[Report 3] Activity Report of ITS Info-communications Forum		
	New Activity Themes based on the “Vision and Action Plan 2023”, and Status of Study for Starting Activities	Dr. OBANA Sadao Chairman of Executive Committee, ITSF, (Member of the Board of Directors, The University of Electro-Communications)
	Closing Remarks	Dr. OBANA Sadao



MSC Seminar

The 32nd Meeting of APT Wireless Group (AWG-32)

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

1. Outline of the Meeting

- Schedule: 4 - 8 March 2024
- Venue/Method: Pattaya, Thailand (Online participation available)
- Participants:
333 participants from administrations, private organizations, and international

organizations in the Asia-Pacific region, 90 participants as the Japanese delegation headed by MIC including 4 participants from ARIB

2. Main results

AWG has four working groups: WG on Harmonization, WG on IMT, WG on Terrestrial, and WG on SAM (Space, Aeronautical, and Maritime), in each of which sub-working groups or task groups have been established for the issues significant to APT Members. The main results of the meeting related to IMT and ITS are described below.

- (1) The report "APT Report on trends and spectrum developments for IMT usage in 2025 - 2030 in Asia-Pacific region" has been completed. This report describes 5G deployment, frequency allocation, future deployment plans, etc. in 12 countries.
- (2) Questionnaire responses from six countries regarding the new draft report on IMT spectrum valuation and pricing were incorporated into the working document. This report had been scheduled to be completed at this meeting, but it was decided to be postponed to the next meeting in order to enhance its content further.
- (3) Regarding the new draft report on studying how to deploy 5G systems for various use cases, case studies from three countries were submitted and incorporated into the working document. Although further two suggestions for modifying the working document were submitted, they will continue to be worked on to combine and will be submitted at the next meeting because they had differences in the introduction and the scope.
- (4) Questionnaire responses were received from seven countries, regarding the new draft report on the survey on voluntary terminal certification by mobile carriers, and these were incorporated into the working document. This report is scheduled to be completed at the next meeting.
- (5) As discussion about IMT-2030 had been becoming more active in ITU-R WP5D and 3GPP, two organizations proposed holding a 6G workshop, and plans for the workshop have been drawn up. The first workshop at the next meeting, it will be held on a small scale within APT, but in the future, inviting external organizations is considered.
- (6) Based on the two contributions from Japan regarding milli-meter wave radar/sensors for ITS: 1) a proposal to issue a questionnaire requesting each country to provide relevant information, and 2) a proposal on the framework for the new draft APT report reflecting the questionnaire responses, the questionnaire to be sent was agreed on. Also, a working document for the new draft APT report was created.
- (7) A working document of the new draft report was created based on the contribution from Japan which introduce Vehicle - Infrastructure Cooperation System such as Smart Pole and its use cases.

3. Next meeting schedule

The next AWG meeting is scheduled to be held on 9 -13 September 2024, in Bangkok, Thailand.

The Special General Assembly of 5GMF

The Special General Assembly of the 5GMF (The Fifth Generation Mobile Communications Promotion Forum) was held on 13 March at Meiji Kinenkan hall in Tokyo.

151 members from telecommunication operators, equipment vendors, research institutions such as universities and MIC (Ministry of Internal Affairs and Communications) participated in the Assembly.

This assembly was held mainly to consult the plan in which 5GMF would terminate as of the end of March and develop into "XGMF (XG Mobile Promotion Forum)" merging with Beyond 5G Promotion Consortium.

All the agenda: (1) The business report for fiscal year 2023, (2) Reorganization plan to XGMF, (3) The financial statements for fiscal year 2023 were approved as proposed.

The first General Assembly of XGMF is planned to be held on 7 June.



The Special General Assembly of 5GMF

Symposium to Promote Safe and Secure Radio Usage in Medical Institutions

MIC and EMCC (ElectroMagnetic Compatibility Conference Japan), for which ARIB acts as secretariat, held a "Symposium to Promote Safe and Secure Radio Usage in Medical Institutions" in an on-demand style from 22 February to 15 March 2024.

At the symposium, as shown in the program below, experts gave lectures related to the use of smartphones in medical institutions. A panel discussion on the theme of "Improvement of the radio wave usage environment to promote the use of smartphones" was also organized.

1. Greetings from the organizer		Mr. WATANABE Koichi Parliamentary Vice-Minister for Internal Affairs and Communications
		Dr. FUJINO Yoshiuki Chairman of EMCC
2. Lectures		
(1)	Expansion of Smartphone Use in Medical Institutions and Safety Management of Radio Waves	Prof. KANO Takashi Jikei University of Health Care Science
(2)	Work Style Reform Project for Doctors Using Smartphones and Beacons for Medical Professionals	Mr. TAKESHITA Kohei Tokyo Jikei University School of Medicine
(3)	Providing an Original Hospital Application for Patients with Features such as PHR (Personal Health Record) and AI medical interviewing	Mr. SAKAKIBARA Yoshihiro Okayama Kyokuto Hospital
(4)	Maximum Transmission Power Suppression Method for Mobile Phone Terminals Using Base Station Parameters	Mr. HIGASHIYAMA Junji NTT DOCOMO, INC.
3. Panel discussion: "Improvement of the radio wave usage environment to promote the use of smartphones"		
Moderators: Prof. KANO Takashi Jikei University of Health Care Science Chair of the EMCC's Committee for Radio Use Promotion in Medical Institutions Prof. HANADA Eisuke Saga University Vice-Chair of the EMCC's Committee for Radio Use Promotion in Medical Institutions		
Panelists: Mr. OMICHI Michihiro Japan Hospital Association Dr. KOYAMA Isamu Saitama Medical University International Medical Center Dr. NAGASE Keisuke Kanazawa University Hospital Mr. HIGASHIYAMA Junji NTT DOCOMO, INC. Dr. WATANABE Koji Japan Medical Association		



Association of Radio Industries and Businesses

ARIB SEASON
Publishing

1-4-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013
JAPAN