

# Newsletter ARIB SEASON



No.0037

## CJK the 66th 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 SDOs in China, Korea, and Japan.

### 1. Outline of the meeting

- Date : 5 and 6 January 2023
- Format : Online meeting
- Participants : CCSA 47 participants, TTA 14 participants, ARIB 23 participants

### 2. Main results

- (1) The results of the AWG-30, ITU-R SG5 the 42nd WP5D meeting, and the recent 3GPP meeting were shared, and the participant views were exchanged on the future issues to be studied.
- (2) For the 43rd 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) The revision of the Recommendation ITU-R M.2071: Generic unwanted emission characteristics of mobile stations using the terrestrial radio interfaces of IMT-Advanced, and the summary of a study on frequencies above 100 GHz for IMT-2030 Vision Recommendation, which is under development, were decided to be worked on by e-mail for joint contribution.
- (4) Information was shared on the status of studies and ideas of each country on the usage scenarios and capability requirements to be defined in the IMT-2030 Vision Recommendation. The basic policy of what should be included in the recommendation and how to proceed with the study in the future were discussed. And it was decided that the exchange of opinions by e-mail would be continued.

- (5) Information was exchanged on the identification of additional IMT frequencies, which is being considered as a new agenda item for WRC-27. It was decided to continue exchanging views on the description of the need for additional IMT identification, specific candidate frequencies, etc., for the APG23-5 meeting, including the possibility of joint contribution.

### 3. Next meeting schedule

The next CJK IMT Working Group Meeting will be held on 11-12 May 2023.

## **The 5th APG-23 (APG23-5) meeting**

APG-23 (Asia-Pacific Telecommunity Conference Preparatory Group for WRC-23) is responsible for developing APT Common Proposal for the World Radiocommunication Conference 2023 (WRC-23).

This is the fifth meeting of APG-23 toward the final meeting to be held around August 2023.

The chairperson is Dr. Kyu-Jin Wee (Korea).

#### 1. Outline of the meeting

- Date : 20-25 February 2023
- Location : Busan, Korea (Online participation available)
- Participants:  
882 participants from 28 countries, 117 participants as the Japanese delegation headed by MIC, including 4 participants from ARIB-

#### 2. Main results

At this meeting, APT Preliminary Views were prepared as the basis for developing of APT Common Proposals for each agenda item of WRC-23. The results of deliberations on the main agenda items related to IMT (AI 1.1, 1.2, 1.4, and 10) are shown below.

- (1) AI 1.1: Protection in the frequency band 4800-4990 MHz of stations of the aeronautical and maritime mobile services and review of PFD (Power Flux Density) criteria

This Agenda, pursuant to ARC-19 Resolution 223, is to consider measures to protect aeronautical and maritime mobile service stations operating in international airspace and waters near the territory of the country operating the IMT station in the 4800-4990 MHz band, and to reconsider the power flux density (pfd) limits imposed on IMT stations in Footnote 5.441B of the Radio Regulations.

Japan has input a Preliminary View to review the current regulations to promote the introduction of IMT while protecting the aeronautical and maritime mobile service stations.

As a result of the conflict between the assertion that the pfd limits are necessary and the argument that they are unnecessary for the protection of aeronautical and maritime mobile service stations, the Preliminary View was not drafted at the meeting, and it will continue to be discussed at the next meeting.

- (2) AI 1.2: Identification of the following frequency bands 3300-3400 MHz, 3600-3800 MHz, 6425-7025 MHz, 7025-7125 MHz, and 10.0-10.5 GHz for IMT

This agenda item is to study, pursuant to WRC-19 Resolution 245, the identification of IMT in the 3300-3400 MHz (Region I footnote revision and Region II), 3600-3800 MHz (Region II), 6425-7025 MHz (Region I), 7025-7125 MHz (all regions) and 10.0-10.5 GHz bands (Region II), including additional primary allocations for mobile services.

Japan submitted a contribution to support the global identification of the 7025- 7125 MHz frequency band as terrestrial IMT on the condition that the protection of existing primary services is ensured and no additional restrictions are imposed, on the premise that the sharing and compatibility of IMT and existing services can be realized, and to support the designation of 3600-3800 MHz and 6425-7025 MHz, which are the targets for consideration in other regions.

As a result of the discussion, the Preliminary View was adopted to support the possibility of global IMT identification for frequencies between 7025 and 7125 MHz. On the other hand, regarding frequencies between 3600 and 3800 MHz and between 6425 and 7025 MHz, the document only stated that the identification of IMT should not affect the existing primary services in the Third Region, and the discussion will be continued at the next meeting.

- (3) AI 1.4: Use of HIBS (HAPS as IMT Base Stations) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT

This Agenda is to study the use of High Altitude Platform Stations (HAPS) as IMT base stations in mobile operations in the frequency band below 2.7 GHz already specified in IMT globally or regionally in accordance with WRC-19 Resolution 247.

Japan submitted a contribution supporting the identification of all IMT frequency bands under consideration (694 to 960 MHz, 1.7 GHz band, 2 GHz band, and 2.5 GHz band) as HIBS on the condition that the protection of existing primary services is ensured. Japan also submitted a contribution document stating that it is willing to work with Papua New Guinea, Samoa, Tonga, and Vanuatu to jointly identify HIBS.

- (4) AI 10 (related to the Agenda Items of WRC-27): Identification of additional frequency bands for IMT

As new items on the agenda for the WRC-27, Japan, Korea, and Vietnam jointly proposed the identification of additional IMT frequencies for the IMT-2030, and China proposed the study of 6425-7025 MHz for the identification in the Third Region. During the discussion, a view was expressed that it was necessary to specify the frequency band, and the discussion will be continued at the next meeting.

In addition, China proposed a new agenda to allocate additional mobile satellite services to IMT frequencies below 7 GHz in order to realize direct communications between mobile terminals and IMT satellites, and this will be continued for consideration at the next meeting.

### 3. Future meeting schedule

The next APG23-6 (final round) will be held in Brisbane (Australia) from 14 to 19 August 2023 to develop APT Common Proposals to the WRC-23.

#### Study structure

Chairperson	Dr. Kyu-Jin Wee (Korea)
Vice Chairperson	Mr. Muneo Abe (Japan) Ms. Zhu Keer (China)
Chairperson of Editorial Committee	Mr. Christopher Hose (Australia)
WP1: Fixed, Mobile, Broadcasting service	Dr. Hiroyuki Atarashi (Japan) Dr. Jae Woo Lim (Korea)
WP2: Aeronautical Maritime service	Mr. Bui Ha Long (Vietnam)
WP3: Science	Mr. Wahyudi Hasbi (Indonesia)
WP4: Satellite service	Ms. Fenhong Cheng (China) Mr. Mrunmaya Pattanaik (India)
WP5: General issue	Dr. Taghi Shafiee (Iran)



Conference hall

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

MIC and EMCC (ElectroMagnetic Compatibility Conference Japan), for which ARIB works as secretariat, held a "Symposium to Promote Safe and Secure Radio Usage in Medical Institutions" in an on-demand style from 1 to 22 March 2023.

At the symposium, experts gave lectures on the potential for new usages of radio waves at medical institutions, based on the use cases of Local 5G, sXGP, IoT, medical telemetry management support systems, and other systems at medical sites. As the spread of the Coronavirus infections, the use of radio waves has rapidly expanded at medical sites, including remote monitoring of patients, and online consultations.

Considering these situations, a panel discussion on the theme of "Expectations and Issues for Use of Radio Waves at Medical Institutions" was organized.

The program of the Symposium was as follows.

<b>1. Greetings from the organizer</b>		Ms. KUNIMITSU Ayano Parliamentary Vice-Minister for Internal Affairs and Communications
		Mr. FUKUCHI Hajime Chairman of EMCC
<b>2. Lectures</b>		
(1)	Remote Diagnosis and Remote Emergency Transport Based on 4K High-Resolution Images via 5G	Dr. KAGEJI Teruyoshi Tokushima Prefectural Kaifu Hospital
(2)	Field Trials of Efficient Drug Traceability within and outside Hospitals Using Local 5G, Robots, and Image Recognition	Dr. TORIKAI Kouta Gunma University Hospital
(3)	sXGP: The Next-Generation PHS Service for Hospitals	Mr. NAKAHARA Takahiro National Hospital Organization Kyoto Medical Center
(4)	Toward Further Possibilities for Combining Medical Care with IT	Mr. KATO Noriyasu Allied Telesis K.K.
(5)	Radio Wave Regulation of Medical Telemeters Using Radio Wave Monitoring Devices	Dr. KAWABE Manabu Saitama Medical University

**3. Panel discussion:**

**"Expectations for the Use of Radio Waves in Medical Institutions and Associated Issues"**

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

Vice-President, Japan Hospital Association

Mr. SHITOH Hidefumi

Director, Informatics Systems Integration Section, Tokyo Medical University

Mr. TADA Kazuhiro

Director, Department of Clinical Engineering, Kimitsu Chuo Hospital

Dr. NAGASHIMA Kimiyuki

MD Executive Board member, Japan Medical Association

Mr. MATSUDA Shintaro

Chief, Department of Medical Engineering Service, Saitama Medical University



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