Newsletter ARIB SEASON

No.0039

Topics

General Assembly of ITSF

ITSF (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. The Forum consists of nearly 100 members from industrial and governmental sectors, and ARIB act as a secretariat for it.

General Assembly of ITSF was held on 29 June 2023 at Meiji Kinenkan hall in Tokyo, as around 60 members participated. Business report and financial statements for FY 2022 as well as business plan and budget for FY 2023 were approved. Board members and Management Committee members for 2023 were selected as well.

In the business report for FY2022, it was reported that activities were conducted for the practical application and promotion of ITS wireless systems that contribute to safety, security, and convenience, as well as for the study of wireless communication methods required for automated driving. The details of the report include: creation of "future vision and action plan" for changes in mobility and social issues, study of communication protocols for V2X systems and ARIB standardization proposals for ITS platform extensions, and the proposals for the report "ITU-R M.[CAV] - Connected Automated Vehicles" and AWG (APT Wireless Group) "Millimeter Wave ITS Applications in APT Member Countries". As activities for international cooperation and promotion, the exhibition and support for MIC (Ministry of Internal Affairs and Communications) sessions at the ITS World Congress Los Angeles, reports on international trends and discussions in the ITSF on ITS radio systems, automated driving and safe driving support at the "VSC seminar" held every year, were reported. In addition, the ITS radiocommunication experts meeting inviting ITS experts from the U.S. and Europe, were also reported.

Regarding a business plan for FY2023, activities such as technical studies and standardization proposals in cooperation with related parties for cooperative automated driving, promotion of international standards on automated driving and wireless systems for ITS and fostering the collaboration with overseas ITS experts were presented. New activities in accordance with Vision and Action Plan was also revealed.

Mr. Keiji Yamamoto, Senior Fellow of Toyota Motor Corporation, has been appointed as the chairman of the forum from 2023, taking after Mr. Sasaki.

General Assembly of ITSF

The Fiscal 2023 General Assembly of 5GMF

The fiscal 2023 General Assembly of the 5GMF (The Fifth Generation Mobile Communications Promotion Forum) was held on 5 July at Meiji Kinenkan hall in Tokyo.
About 165 members from telecommunication operators, equipment vendors, research institutions such as universities and MIC (Ministry of Internal Affairs and Communications) participated in the Assembly.
All the agenda: (1) The business report and financial statements for fiscal year 2022, (2) The business plan and budget for fiscal 2023 and (3) The candidates for officers were approved as proposed.
5GMF had conducted activities for the realization, dissemination and deployment of 5G since its establishment in September 2014, and it has generally achieved its desired objectives. Considering this achievement, decision was made to review its organization and integration of 5G promotion activities with that for 6G in line with changes in the environment.
The study of new promotion scheme which is expected to start on 1 April 2024 will be begun after the Assembly, and additional General Assembly is planned before the end of march to vote on the scheme.

General Assembly of 5GMF

The 6th APG23 (APG23-6) meeting

APG23 (Asia-Pacific Telecommunity Conference Preparatory Group for WRC-23) is responsible for developing APT Common Proposal for the World Radiocommunication Conference 2023 (WRC-23).
The 6th meeting of APG23 (APG23-6) which was final one before the WRC-23 was held chaired by Dr. Kyu-Jin Wee (South Korea).

1. Outline of the meeting
   - Date : 14-19 August 2023
   - Location: Brisbane, Australia (Online participation available)
   - Participants:
     921 participants from 33 countries and regions, 136 participants as the Japanese delegation headed by MIC, including 4 participants from ARIB.

2. Main results
   At the meeting, Preliminary APT Common Proposals (PACPs) and the documents including APT Views for each agenda item of WRC-23 were created. 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 PFD limits imposed on IMT stations in Footnote 5.441B of the Radio Regulations.
Japan has input a 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 PACP was not drafted at the meeting, and it will continue to be discussed at WRC-23.

(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 (revision of Region I footnote 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).
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 identification of 3600-3800 MHz and 6425-7025 MHz, which are the targets for consideration in other regions.
As a result of the discussion, PACP was drafted to support the possibility of global IMT identification for frequencies between 7025 and 7125 MHz, revising the supplementary draft resolution that define method for protecting existing Fixed-satellite service.
On the other hand, it was concluded that PACPs for 3600-3800 MHz and 6425-7025 MHz should not be prepared, mainly because they are on the agenda of other regions. Instead, the APT View was agreed on which stated that IMT identification in other region should not interfere with existing services in Region 3.

(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 joint contribution with Papua New Guinea, Samoa, Tonga and Vanuatu 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 are ensured.
After discussion, it was agreed to identify all the frequency bands except for 694-960 MHz as HIBS, and a PACP was drafted. With regard to 694-960 MHz, a PACP was not agreed upon because some countries raised concerns about interference to existing broadcasting operations.

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

Regarding the identification of additional IMT frequencies, Japan proposed 12.75-12.95 GHz as a frequency to be studied. Various candidate frequencies such as 4400-4800 MHz, 6425-7025 MHz (Region 3), 7.125-8.5 GHz, 14.5-15.35 GHz were proposed by other countries. However, concerns were raised in most frequency bands, and a PACP was not drafted. Instead, the APT View that supports study of the identification of IMT for 4.4-15.35 GHz was agreed upon.

3. Future meeting schedule

The agreed PACP will continue to be voted on by the APT countries for approval and will be submitted to WRC-23 (held from 20 November – 15 December 2023) as a formal APT Common Proposal (ACP).

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)

APG23-6 Conference hall

ITU-R SG6 won the 75th Annual Technology & Engineering Emmy® Awards
- Contribution to the Standardization of HDR-TV -

ITU-R SG6 (Chairman: Mr. NISHIDA Yukihiro, from NHK) was awarded the 75th Engineering, Science and Technology Emmy Award for its contribution to the development of HDR-TV (High-Dynamic Range Television) and to the broadcasting industry.
ARIB's International Standardization Working Group for Broadcasting (Chairman: Mr. NISHIDA Yukihiro) has been deliberating proposals to ITU-R SG6 and has made significant contributions to the recommendation ITU-R BT.2100, the subject of this award.
The Engineering, Science & Technology Emmy Awards is one category of the Emmy Awards, and the Awards are presented annually to individuals, companies, or organizations that have made outstanding achievements in the development and standardization of engineering and technology in the fields of television and broadcasting.

* Press Release:
https://www.emmys.com/news/awards-news/75th-engineering-announced-230719

ARIB-DVB Regular Meeting

A regular meeting between ARIB and DVB (Digital Video Broadcasting), the European standardization body for digital TV broadcasting, was held on the occasion of the International Broadcasting Convention (IBC) 2023, the largest broadcasting equipment exhibition in the European region.
The meeting which consists of report of activities from both sides, confirmation of liaison relationships and exchange of views on the latest topics, has been held annually based on the agreement on the mutual exchange of information concluded at the "Japan - EC Postal Regular Consultation" in 1994.

1. Outline of the meeting
   - Schedule 18 September 2023
   - Venue Amsterdam, The Netherland (RAI Exhibition Center)
   - Participants Ms. Emily Dubs (Head of Technology, DVB Project)
     Mr. Ryoichi Nakai (ARIB)
     Mr. Masakazu Iwaki (NHK Science and Technical Research Laboratories)
     Mr. Kazuhiro Kumamaru (NHK Science and Technical Research Laboratories)

2. Agenda
   DVB argued the need for DVB-I in Europe, citing the following factors.
   - DTT and IP costs variation with country or area
   - Different migration paths to IP allowed across Europe
   - Network-independent service lists through DVB-I Service Discovery
   - Enhancements and smooth transition to IP enabled by DVB-I

   ARIB explained the status of broadband distribution in Japan and Internet distribution by NHK.