

# Newsletter ARIB SEASON



No.0043

## Topics



### The 18th IT Standards Meeting of CJK in Dunhuang

CJK Meeting on Information and Telecommunication Standards started on June 2002 with an initiative of ARIB of Japan, CCSA of China, TTA of South Korea, and the TTC of Japan to promote mutual cooperation among the standards development organization of Japan, China and South Korea more actively.

The 18th IT Standards Meeting of CJK was held in July 2024 at Dunhuang, China.

1. Date: 8-10 July 2024
2. Location: Dunhuang Hotel (Dunhuang, China)
3. Host: CCSA (China Communication Standardization Association)
4. Chair: Ms. WANG Zhiqin
5. Participants: 32
6. Agenda:
  - (1) SDO Presentations:  
Recent Activities of each SDO and efforts on the Development of Standard Experts
  - (2) Strategic Sessions "AI":  
Explanation of their approach to AI from each SDO
  - (3) Report from WGs:  
Report of activities and outcomes since last plenary from each (following) WGs  
IMT, IS (Information Security), WPT (Wireless Power Transmission),  
NSA (Network Service Architecture), TACT (Administrative Issue),  
ITS Ad Hoc Group
  - (4) Closing Session:

At the plenary, IMT WG was asked to discuss whether NTN would be able to be included in the scope of the WG, NSA WG was advised to limit the scope of work, and it was concluded that ITS Ad Hoc Group would continue working aiming to establish ITS WG along with preparing for the Workshop.



Plenary Meeting



Participants



Meeting venue

## The 71st 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 to work on joint contributions to the ITU-R SG5 WP5D. Meetings are held three times a year.

### 1. Outline of the meeting

Schedule	27 and 28 August 2024
Venue	Incheon, Korea
Participants	CCSA (China) 14, TTA (Korea) 16, ARIB (Japan) 10

### 2. Main results

- (1) The results of the 46th meeting of ITU-R SG5 WP5D, the 1st Meeting of the APT Conference Preparatory Group for WRC-27 and the recent 3GPP meetings were shared, and the items to be studied in the future were discussed.
- (2) For the 47th meeting of WP5D to be held from 3 October 2024, the preparation status of each country was shared, items to be continuously examined and work items were identified.
- (3) To develop technical performance requirements, which is the main issue for the IMT-2030 development in the immediate future, opinions were exchanged on the necessity of technical performance requirements and definition methods for energy efficiency, positioning accuracy, XR, transmission delay, AI and sensing.
- (4) To develop evaluation methods, which is another main issue for the IMT-2030 development in the immediate future, views were exchanged on the chapter structure and development schedule of the draft new report ITU-R M. [IMT-2030. Eval], which will define the evaluation test environment and evaluation methodology that combine usage scenarios and geographical environments, and it was decided to continue discussions on the possibility of making it a joint contribution.
- (5) Regarding the working document summarizing the technical and operational characteristics of terrestrial IMT for the purpose of examining the frequency sharing and compatibility of each agenda item related to terrestrial IMT, including WRC-27 Agenda Item 1.7, discussions were held on the chapter structure, time percentage of protection standards, and the concept of interference probability used in Monte Carlo simulations, and it was decided to continue exchanging opinions.
- (6) Views were exchanged on how to proceed with the study of the frequency sharing, compatibility and protection conditions of terrestrial IMT systems in direct communication between terrestrial IMT terminals and satellites, which was set out in WRC-27 Agenda Item 1.13.

### 3. Next meeting schedule

The next meeting is scheduled to be held in January 2025 in Fuzhou, China, with online participation allowed.

## The 33rd Meeting of APT Wireless Group (AWG-33)

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 chair.

### 1 Outline of the Meeting

- Schedule: 9-13 September 2024
- Venue/Method: Bangkok, Thailand (Online participation available)
- Participants:  
449 participants from administrations, private organizations, and international organizations in the Asia-Pacific region, 82 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.

#### 2-1 IMT

##### (1) Frequency

- ① The "APT Report on methodology to determine value of IMT spectrum and information on spectrum prices in Asia Pacific countries" has been completed. This report describes the regulations, determination methods, and auction prices for IMT spectrum licenses in 14 countries.
- ② Regarding the "Survey report on IMT utilization trends and frequency development from 2025 to 2030" completed at the previous AWG-32 meeting, one questionnaire response had been received and it was decided to revise the report. Considering that each country has formulated its frequency plan following the results of WRC-23, it was decided to postpone the revision of the report to the next meeting.

##### (2) Technology

- ① The "APT Report on current status of voluntary certification requirement for the acceptance of mobile devices in mobile network operators" has been completed. This report describes the requirements for accepting devices and the status of voluntary

certification programs for 27 operators in 13 countries. It also provides an overview of the voluntary certification programs.

- ② Regarding the new draft report on the study of system deployment methods for various 5G use cases, two case study reports and three proposed revisions were incorporated into the working document. The report is scheduled to be completed at the next meeting.
- ③ Regarding the proposed new report on RAN/spectrum sharing among mobile operators, three amendments were incorporated into the working document. This report was scheduled to be completed at this meeting, but it has been postponed to the next meeting in order to further improve the content.
- ④ Starting from this meeting, small-scale 6G workshops will be held continuously within the APT. The outline of this workshop is as follows:
  - Presentations were given by major organizations (WP 5D, 3GPP, GSMA, GSA) and operators (CMCC, ZTE) on the status of their efforts toward 6G.
  - Panelists (WP 5D, GSMA, GSA, GSOA) discussed efforts toward 6G. Main questions asked included the impact of the spectrum roadmap on 6G deployment and how 5G deployment experience is helping prepare for 6G deployment.

## 2-2 ITS

Regarding ITS, Japan provided contributions to the meeting based on the results of studies conducted by ITS Info-communications Forum (ITSF), for which ARIB acts as secretariat.

- ① Regarding the new draft report on millimeter wave radars/sensors for ITS, 10 countries, including Japan, responded to the questionnaire. These responses were incorporated into the working document, and it was updated based on Japan's contribution by adding information on infrastructure radar demonstrations, etc.
- ② Regarding road-vehicle cooperation systems, it was decided that the scope of use cases to be included in the new draft report under development would be further considered at the next meeting. In addition, based on Japan's contribution, a questionnaire to inquire each APT country about the current status of the use of road-vehicle cooperation systems was agreed upon.

## 3 Next meeting schedule

The next AWG meeting (AWG-34) is scheduled to be held on 31 March - 4 April 2025, in Kathmandu, Nepal.

## The 30th ITS World Congress 2024 in Dubai

The 30th ITS World Congress 2024 was held in Dubai, UAE in October 2024, hosted by Dubai's Roads and Transport Authority.

### ◆ Overview of the Congress

Date	16 - 20 September 2024
Venue	Dubai World Trade Centre
Theme	"Mobility Driven by ITS"
Organizer	ERTICO (ITS Europe)
Participants (Registered)	More than 14,700 participants from 78 countries or regions (2 participants from ARIB)
Number of exhibitors	More than 175



Dubai World Trade Centre

### ◆ Speech and Sessions related to Japan

At the opening ceremony held on 16 September, theoretical physicist Dr. Michio Kaku delivered a keynote speech, followed by a speech by Mr. Takuru Ito, from Ministry of Economy, Trade and Industry of Japan, as a guest speaker from relevant ministries and agencies in Europe, the US and Asia.

The SIS25 session on 17 September hosted by ITS Japan was held under the theme of "A new mobility roadmap of Japan and activities by the Japanese government." During this session, Mr. Takayoshi Kagei Director of the New Generation Mobile Communications Systems Promotion Office, Ministry of Internal Affairs and Communications (MIC), gave a speech titled "MIC's ITS Policies and Activities," in which he discussed the role of the MIC in ITS, the direction of frequency allocation for 5.9GHz V2X, the Ministry's efforts in light of the government's goals, and future schedules.

At the session SIS58 "Mapping global ITS sectoral transformations in the three regions: A strategic foresight" held on the same day as SIS25, Mr. Akio Yamamoto, Executive Managing Director of ITS Japan, spoke about disaster resilience as a characteristic of the Asia-Pacific Rim region. He used the example of providing information on passable roads after the Noto Peninsula earthquake to talk about the importance of data management for the next generation and the difference in data availability between peacetime and disaster times.

The session SIS67 hosted by the MIC on 19 September was moderated by Takeshi Yamamoto, Chairman of the International Relations Committee, ITS Info-communications Forum (ITSF), and was held under the theme of "Strategy for V2X communication in the advancement of Cooperative Automated Vehicles". In the session, speakers from governments, relevant companies and organizations in Japan, US and Europe reported on the status and future of V2X studies in each region and held panel discussions. From Japan, Izuru Honda of the New Generation Mobile Communications System Promotion Office of MIC introduced the status of studies on 5.9GHz V2X at MIC and future goals.

◆ **Exhibitions**

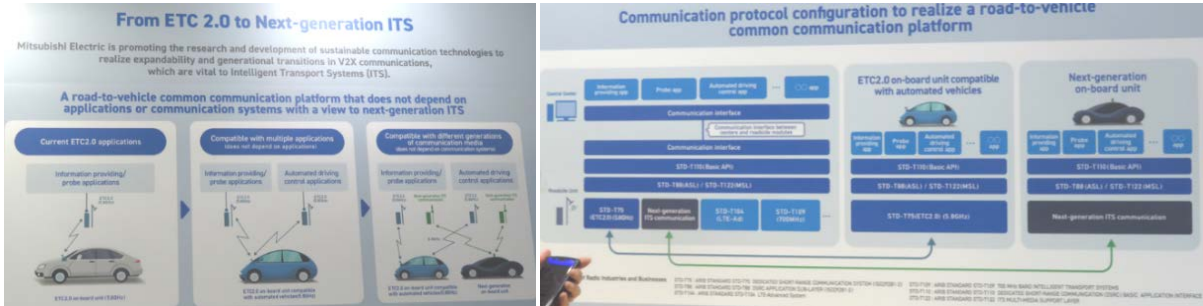
ITSF participated in the Japan Pavilion with an exhibit featuring panels introducing an overview of ITSF, ITS-related radio wave services it has contributed to, and its activities aimed at advancing future automated driving. A booklet summarizing its achievements to date was also distributed. At Mitsubishi Electric's booth, a communications platform was showcased, providing next-generation ITS with ETC2.0 services based on ARIB STD-T88 and T122. Meanwhile, Panasonic's booth highlighted a bicycle accident prevention system utilizing ARIB STD-T109. This year, a notable number of actual vehicles were on display, including FCEVs (fuel cell electric vehicles) exhibited at the Toyota and Honda booths. Other highlights included an accident prevention and traffic management system combining AI-based image recognition at intersections with V2X technology."



Exhibition of ITSF



Bicycle accident prevention system by Panasonic



The next generation ITS communications platform by Mitsubishi Electric



Exhibition of the Vehicles (From the top left to the bottom right: Toyota Motor Corporation, Honda Motor, Government of Dubai, Tesla, Peec Mobility, Abu Dhabi Government)

◆ **Closing ceremony**

During the closing ceremony on the final day, awards were presented for outstanding paper presentations and lecture sessions held during the conference. It was also announced that the next ITS World Congress (the 31st) will take place in Atlanta from 24 to 28 August 2025."

**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) 2024, 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.



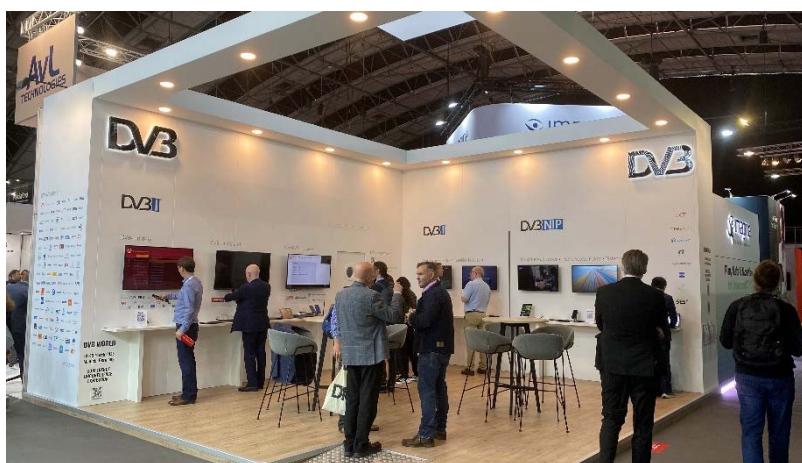
Since the activities of both parties had been shared in advance at the FoBTV TC (Future of Broadcast Television Technical Committee) meeting held in the morning of the day of the meeting, the content was mainly focused on the exchange of opinions regarding DVB-I.

## 1. Outline of the meeting

- Schedule 16 September 2024
- Venue Amsterdam, The Netherland (RAI Exhibition Center)
- Participants Ms. Emily Dubs (Head of Technology, DVB Project)  
Mr. Jun Arai (NHK Science and Technical Research Laboratories)  
Mr. Kazuhiro Kumamaru (NHK Science and Technical Research Laboratories)  
Mr. Ryou Yasuoka (NHK Science and Technical Research Laboratories)  
Mr. Ryoichi Nakai (ARIB)

## 2. Proceedings

DVB explained the demonstration of DVB-I trials in Italy, Germany and Ireland, and the schema used to construct the DVB-I service list, while NHK introduced the exhibits at the NHK booth regarding web-based broadcasting media. In addition, opinions were exchanged regarding NHK's content search metadata for web-based broadcasting media and the DVB-I schema, and it was decided that information will be exchanged in the future as necessary.



Exhibition of DVB



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