

# Newsletter ARIB SEASON



No.0042

Topics



## Dr. NISHIDA awarded by the ITU Association of Japan

Dr. NISHIDA Yukihiro - the chair of the Standard Assembly and the Broadcasting International Standardization WG of ARIB - won the MIC Minister's Award at "The 56th Celebration of World Telecommunication and Information Society Day" event held by ITU Association of Japan.

He served as Chair of ITU-R SG6 for eight years from 2015 to 2023, developing recommendations for UHD-TV (Ultra-High Definition Television) and HDR-TV (High-Dynamic Range Television) systems, as well as leading the initiatives to introduce technologies such as AI and immersive media into broadcasting.

In addition, at RA-23 (Radiocommunication Assembly 2023), he contributed to ITU-R as Chair of the COM 4, which is responsible for the structure and work program of the Study Groups.



Dr. Nishida (Right)

## The 70th 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	28 and 29 May 2024
Venue	Beijing, China
Participants	CCSA (China) 26, TTA (Korea) 10, ARIB (Japan) 8

### 2. Main results

- (1) The results of the 45th meeting of ITU-R SG5 WP5D, AWG-32 and the recent 3GPP meetings were shared, and the items to be studied in the future were discussed.
- (2) For the 46th meeting of WP5D held from 25 June 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 and evaluation methods, which are the main issues for the IMT-2030 development in the immediate future, two SIGs (Special Interest Groups) were established to promote consensus building among China, Japan, and Korea, and discussions have begun.  
At SIG-TPR (Technical Performance Request), opinions were exchanged on the necessity and definition methods of each technical performance requirement, while at SIG-Eval Method (Evaluation Methodology), opinions were exchanged on combinations of test environments for the six usage scenarios defined in the ITU-R M.2160 recommendation.
- (4) Regarding frequencies, in the addition of IMT specific frequency bands set in WRC-27 Agenda Item 1.7, the structure and items of a document compiling the parameters necessary for frequency sharing study were discussed. In addition, in the consideration of direct communication between terrestrial IMT terminals and satellites set in WRC-27 Agenda Item 1.13, views were exchanged on the frequency arrangements to be studied and whether geostationary orbit (GSO) satellites should be included, considering the results of the discussions at the previous WP 4C meeting.

### 3. Next meeting schedule

The next meeting is scheduled to be held in August 2024 in Incheon, Korea, with online participation allowed.

<b>WTP2024's 5G/Local 5G Millimeter Wave Dissemination Event</b>
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"Wireless Technology Park (WTP) 2024" (organized and planned by Ric Telecom, <https://www8.ric.co.jp/expo/wj/en/>) was held at Tokyo Big Sight from 29 to 31 May. During the event, the MIC (Ministry of Internal Affairs and Communications) and the XGMF (XG Mobile Promotion Forum), for which ARIB acts as the secretariat, jointly hosted an

international workshop and exhibition to promote the spread of millimeter wave, organized by the XGMF Millimeter Wave Promotion Ad Hoc.

### 1. International Workshops

The "International Workshop on Millimeter Wave Dissemination for 5G" was held on the last day of the event (with simultaneous interpretation between English and Japanese), with opening remarks by Mr. Naohiko Ogihara, Director of the Radio Department, MIC.

Next, Mr. Takanori Masuko, Director of the New Generation Mobile Communications Systems Promotion Office, MIC, Mr. Sam Gielges of Qualcomm (online), Mr. Christopher Price of Ericsson, Mr. Mike Smathers of Nokia (online), Mr. Daniel Liu of the Taiwan Information Industry Development Association, and Mr. Tetsuya Fukuhara of NHK Enterprises spoke about the efforts of the Japanese government and various companies to promote millimeter wave and the prospects of millimeter wave applications.

Afterwards, Mr. Takehiro Nakamura, Millimeter Wave AH Chief Director, moderated a panel discussion with five panelists including Mr. Masakazu Shirota, Millimeter Wave AH Deputy Chief Director, and other lecturers.

The workshop was attended by about 200 participants.



Lecture hall and the audience

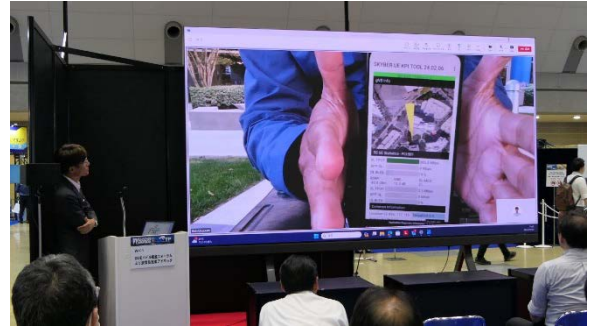
### 2. Presentations and Demonstrations at Exhibition Booths

In the exhibition booth, a large display and a small stage were set up, and experts from XGMF and co-exhibitors (Qualcomm Japan, NTT Docomo, Fujikura, Central Japan Railway, KDDI Smart Drone, Keysight Technology and Murata Manufacturing) introduced the excellent potential of the millimeter wave band through presentations and demonstrations using commercial equipment under the theme "Promotion of Millimeter Wave for 5G/Local 5G".

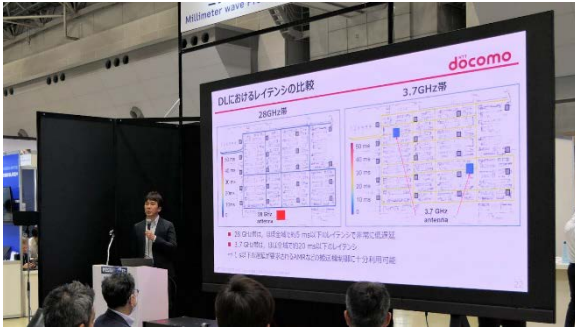
Approximately 700 visitors came during the three days of the exhibition.



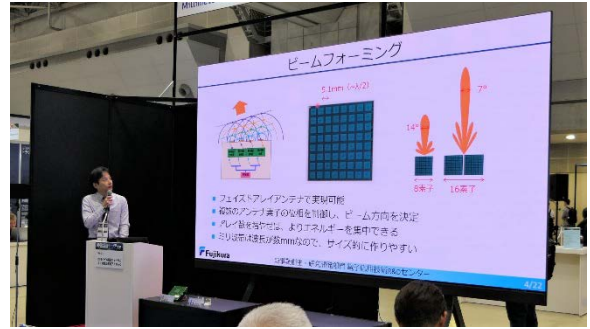
XGMF



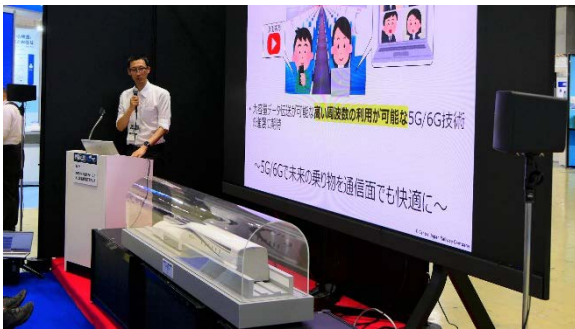
QUALCOMM JAPAN GK



NTT DOCOMO, INC.



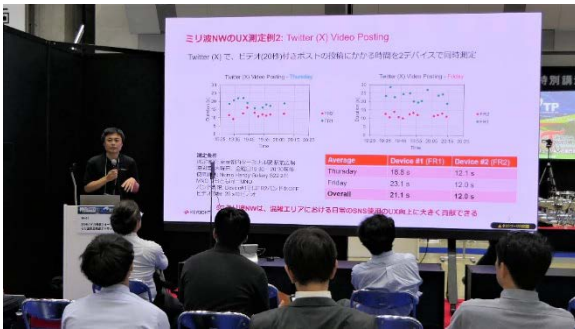
Fujikura Dia Cable Ltd.



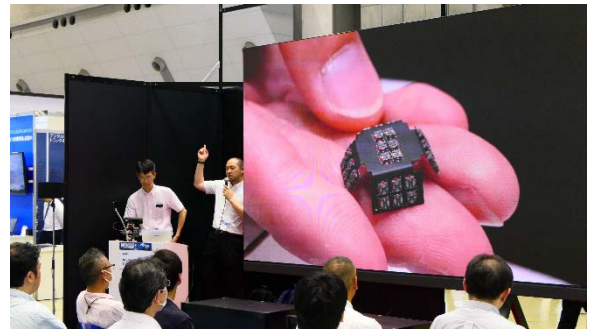
Central Japan Railway Company



KDDI SmartDrone Inc.



Keysight Technologies, Inc.



Murata Manufacturing Co., Ltd.

The exhibition booth

## The First APG-27 (APT Conference Preparatory Group for WRC-27) Meeting

APG-27 (Asia-Pacific Telecommunity Conference Preparatory Group for WRC-27) is responsible for preparing the APT Common Proposal towards the World Radiocommunication Conference to be held in 2027 (WRC-27).

The first meeting of APG-27 was held in June, mainly aiming to establish the study framework for the next four years, where Mr. Nobuyuki KAWAI from JAPAN (KDDI) was elected as a chair.

### 1. Outline of the meeting

- Schedule            3 - 6 June 2024
- Venue                Shanghai, China (Online participation available)
- Participants        672 participants from 26 APT member countries and other organizations in the Asia-Pacific region.  
84 participants as the Japanese delegation headed by Mr. Yoshiyuki KATO (Director of International Frequency Policy Office, MIC) including 4 participants from ARIB

### 2. Main results

At this meeting, study framework for WRC-23 was established, and the chairs of each working party (WP) were nominated.

#### (1) Chairs

Only Mr. Kawai from Japan ran for the APG Chair position, and he was unanimously appointed. Candidates for the two Vice-Chair positions were received from six countries. During the meeting, coordination was carried out among the heads of delegations of the relevant countries, but no conclusion was reached, and it was decided that coordination would be continued until the next meeting.

#### (2) WG (Working Group) structure

Working Party (WP)	WRC-27 AI (Agenda Item) in charge	Preliminary Chairs
WP1: Fixed- and Broadcasting-satellite service	AI 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 7	Ms. Cheng Fenhong (China) Mr. Mrunmaya Kumar Pattanaik (India)
WP2: Fixed, Mobile, and Radiolocation service	AI 1.7, 1.8, 1.9, 1.10	Mr. Satoshi Imata (Japan) Mr. Bui Ha Long (Vietnam)
WP3: Mobile-satellite service	AI 1.11, 1.12, 1.13, 1.14	Mr. Meiditomo Sutyarjoko (Indonesia) Dr. Dae-sub Oh (Korea)
WP4: Science service	AI 1.15, 1.16, 1.17, 1.18, 1.19	Dr. Wahyudi Hasbi (Indonesia)
WP5: General aspect	AI 2, 4, 8, 9,10	Dr. Jae Woo Lim (Korea)

It was agreed to establish five Working Parties (WPs) in line with the structure of the CPM report for WRC-27. The chairs of each WP, including their candidacies, were coordinated together with the vice-chairs of APG mentioned previously, as shown in the table.

As it was suggested that the official decision on the WP chairs should await the arrangement of the vice-chairs of APG, they were positioned as interim chairs at this meeting.

(3) Discussion of each agenda item and appointment of DG Chair

Each agenda item of WRC-27 was discussed in the five WPs. First, the contents of each agenda item were reviewed, and some countries presented their views on the agenda items. Then, the structure of the Drafting Groups (DGs) responsible for the discussion of each agenda item was considered.

As there were many candidates for the DG chairpersonship of the main agenda items such as Agenda 1.7 (Additional Identification of IMT Frequency Bands) and Agenda 1.13 (Direct Communication between Mobile Satellites and IMT Terminals), it was decided to continue the coordination and finalize the appointment of all DG chairs at the next meeting.

(4) Working Plan

It was agreed to set 5 meetings (Online participation allowed) as follows.

APG27-2	July or August 2025	Drafting of APT Preliminary Views
APG27-3	June or July 2026	Revision of APT Preliminary Views
APG27-4	March 2027	Revision of APT Preliminary Views
APG27-5	July or August 2027	Drafting of APT Common Proposal



Conference Hall

## Inaugural general meeting of XG Mobile Promotion Forum

The XG Mobile Promotion Forum (XGMF) held its inaugural meeting online on 7 June, with 258 participants.

Considering the centralization of human resources and the unification of international contact points, the 5G Mobile Promotion Forum (5GMF) and the Beyond 5G Promotion Consortium (B5GPC) were integrated into the new "XG Mobile Promotion Forum" on 1 April 2024. The forum has discussed the organization structure, terms of reference, and other issues since then.

After the opening of the meeting, Mr. Takuo Imagawa, Director-General of the Telecommunications Bureau, MIC, gave a speech as the guest of honor.

After explanation of the process of deliberation, including the rules and regulations up to the meeting by the secretariat, Professor Hiroyuki Morikawa and Professor Akihiro Nakao, both from the University of Tokyo, were proposed as co-representatives of XGMF, which was approved.



Mr. Imagawa



Prof. Morikawa



Prof. Nakao

The two co-representatives greeted the participants. Prof. Morikawa emphasized the important point that XGMF should contribute to member companies, expressing his desire for member companies to utilize XGMF as a platform for projects, and assuring that he and the secretariat would support these initiatives. Prof. Nakao expressed the significance of mobile infrastructure as a lifeline for society, his commitment to engaging in substantive activities as a representative of XGMF, and the importance of expanding advanced applications and use cases.

Following the greetings from both co-chairs, XGMF's objectives, activity policy, organizational structure, regulations, business plan, and income/expense plan were presented and approved by the participants.

Afterwards, representatives from SoftBank, NEC, and incri Inc. gave presentations on their expectations for XGMF project activities.

## The 14th Annual General Assembly and the 43rd Board of Directors Meeting of ARIB

The 14th Annual General Assembly and the 43rd Board of Directors meeting of ARIB were held on 25 June 2024 at Hotel New Otani in Tokyo.

Business and financial reports for the fiscal year 2023 (from April 2023 to March 2024) along with the appointment of board members and Management Advisory Committee members were approved. At the Board of Directors meeting held right after the General Assembly, Mr. Taro SHIMADA was elected as the new chair succeeding Mr. Kazuhiro TSUGA.



The 14th Annual Assembly

## The 35th Radio Achievement Award

The 35th Radio Achievement Award ceremony was held on 25 June 2024, after the 14th Annual General Assembly of ARIB. This award is presented every year by MIC and the Chair of the Board of ARIB to individuals and groups who have made a significant achievement relating to the effective and proper use of radio waves.

This year's winners are as follows.

- ◆ The Award of the Minister of Internal Affairs and Communications
  - (1) Development & Demonstration of 90GHzband radar FODDS (Foreign object debris detection system)
    - Hitachi Kokusai Electric Inc., Waseda University,
    - National Institute of Information and Communications Technology,
    - National Institute of Maritime, Port and Aviation Technology,
    - Railway Technical Research Institute



(2) R&D activities on Wireless Transmission Using OAM-MIMO Multiplexing  
NIPPON TELEGRAPH AND TELEPHONE CORPORATION,

◆ The Award of the Chair of the Board of ARIB

(1) Research and Development of Transmission Technologies for Next Generation  
Digital Terrestrial Television Broadcasting  
NHK

(2) Development of User-centric RAN with Cell Free massive MIMO and Multi-  
channel Radio over Fiber  
KDDI Research, Inc.

(3) Regulation changes and commercialization of 6 GHz wireless LANs  
QUALCOMM JAPAN GK, Apple Japan, Inc., BUFFALO INC.,  
NIPPON TELEGRAPH AND TELEPHONE CORPORATION,  
TOSHIBA CORPORATION

(4) Contributing to popularization of Local 5G by commercializing all-in-one integrated  
compact base stations  
NEC Corporation

(5) Additional frequencies for HIBS in WRC-23  
SoftBank Corp.

(6) Development and Commercial Deployment of 2.6/2.5 GHz Band Advanced Satellite  
Mobile Communication System in Japan  
NTT DOCOMO, INC.



Commemorative photo with the Award winners

## General Assembly of ITS Info-communications Forum

The ITS Info-communications Forum (ITSF) 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 21 June 2024 at Meiji Kinenkan hall in Tokyo, as around 100 members participated. Business report and financial statements for FY 2023 as well as business plan and budget for FY 2024 were approved. Board members and Management Committee members for 2024 were selected as well.

After greeting from Chair of ITSF, Mr. Keiji Yamamoto (Senior Fellow of Toyota Motor Corporation), Mr. Naohiko Ogihara from MIC gave a guest speech.

In the business report for fiscal year 2023, it was stated that committees and working groups were held to promote:

- the practical application and dissemination of ITS Radiocommunication systems that improve safety, security, and convenience,
- the consideration of V2X systems required for automated driving
- international standardization activities to ITU-R and AWG.

As activities for international cooperation and promotion, the panel exhibition and support for session MIC held at the ITS World Congress in Suzhou (China), and holding various seminars such as "Mobility & Safety Communications (MSC) Seminar" were reported.

As business plans for fiscal year 2024, consideration and promotion of new activities in accordance with the "Vision and Action Plan", technical considerations and formulation of documents and standards for trials by related ministries and agencies, promotion of international standardization of automated driving and wireless telecommunications for ITS, and strengthening of collaboration with overseas ITS experts were presented.

At the end of the meeting, Certificates of appreciation were presented to 29 individuals who have made significant contributions to the ITSF to mark its 25th anniversary.



General Assembly of ITS Info-communications Forum



Commemorative photo with Certificate of appreciation recipients



Association of **R**adio **I**ndustries and **B**usinesses

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