

Newsletter ARIB SEASON



No.0051

Frequency Resource Development Symposium 2026

The Frequency Resource Development Symposium 2026 was held in Tokyo on 9 July 2026 under the theme of integrating terrestrial and space communications through emerging direct-to-device connectivity technologies. The event was supported by the Ministry of Internal Affairs and Communications (MIC) and co-hosted by the National Institute of Information and Communications Technology (NICT) and the Association of Radio Industries and Businesses (ARIB).

Experts from government, industry, and academia shared perspectives on policy developments, research activities, and future opportunities related to the convergence of terrestrial and non-terrestrial communications networks. Discussions addressed key technologies and services including Non-Terrestrial Networks (NTN), satellite communications, high-altitude platform stations (HAPS), optical satellite communications, and efficient use of radio frequency resources.

Presentations by representatives from MIC, NICT, the University of Tokyo, NTT DOCOMO, KDDI, Rakuten Mobile, and SoftBank highlighted ongoing efforts to advance next-generation communications infrastructure and strengthen connectivity between terrestrial and space-based networks.

The symposium highlighted the growing importance of collaboration across industry, academia, and government in advancing integrated terrestrial and non-terrestrial communications technologies.



Frequency Resource Development Symposium 2026

The 3rd APG-27 Meeting in Sapporo, Japan

The third meeting of the APT Conference Preparatory Group for WRC-27 (APG-27) was held in Sapporo, Japan, from 27 to 31 July 2026, bringing together 861 participants from 33 APT member countries and organizations. APG-27 is responsible for developing the APT Common Proposals for the World Radiocommunication Conference 2027 (WRC-27).

During the meeting, participants discussed WRC-27 agenda items and developed APT Preliminary Views, which will serve as the basis for future APT Common Proposals. These views will continue to be refined at subsequent APG meetings through August 2027.

Discussions were conducted through a number of Drafting Groups covering individual WRC-27 agenda items. ARIB representative chaired the Drafting Group responsible for Agenda Item 1.17 on space weather sensors.

Key discussions related to International Mobile Telecommunications (IMT) focused on Agenda Items 1.7 and 1.13. For Agenda Item 1.7, discussions continued on the possible identification of several candidate frequency bands for IMT while ensuring the protection of existing services. The updated Preliminary View reflected ongoing ITU-R studies and noted that multiple regulatory approaches, including No Change (NOC), remain under consideration.

For Agenda Item 1.13, participants examined regulatory and technical issues related to direct satellite-to-device connectivity for IMT user equipment. While support was expressed for further studies under Resolution 253 (WRC-23), discussions highlighted the need to ensure the protection of existing services and to clarify regulatory framework and technical requirements before consensus can be reached.

The meeting contributed to regional coordination on key WRC-27 agenda items, including future spectrum requirements for IMT and direct satellite-to-device connectivity, supporting continued development of harmonized positions across the Asia-Pacific region.



APG-27

SET EXPO 2026 in São Paulo, Brazil

SET EXPO 2026, one of Latin America's largest media and entertainment industry events, was held in São Paulo, Brazil, from 17 to 20 August 2026. The event brought together broadcasters, technology providers, regulators, and industry stakeholders to discuss the future of broadcasting and digital media services, with particular emphasis on Brazil's next-generation television platform, TV 3.0 (DTV+).

The exhibition highlighted the growing convergence of broadcasting, broadband, cloud technologies, and AI-driven services. Discussions throughout the conference reflected the transition of TV 3.0 from standardization to practical deployment, including topics such as receiver certification, frequency planning, advanced transmission technologies, and new service models integrating broadcast and broadband platforms.

Japan's presence was showcased through the Japan Pavilion, organized by the Ministry of Internal Affairs and Communications (MIC). ARIB and DiBEG introduced their activities related to the next-generation digital terrestrial broadcasting system ISDB-T3 and advanced STL/TTL technologies, while other Japanese organizations presented solutions for broadcasting applications, disaster prevention, content distribution, and transmission systems. The traditional Kagami-biraki ceremony at the pavilion highlighted the long-standing cooperation between Brazil and Japan in digital broadcasting since the adoption of ISDB-T in Brazil.

Japan also contributed to the conference program. Mr. Kensuke Hisatomi of NHK Science & Technology Research Laboratories (NHK STRL) presented the latest broadcasting

technology research and development initiatives introduced at NHK STRL Open House 2026. His presentation provided participants with an overview of emerging technologies expected to support the future evolution of broadcasting services.

The event also highlighted ongoing international collaboration in next-generation broadcasting technologies, including a memorandum of understanding signed by the SBTVD Forum, ATSC, and TTA to promote cooperation on technical recommendations, standardization activities, and interoperability. Together with the activities showcased at the Japan Pavilion, it demonstrated the continued relevance of Japanese broadcasting technologies and expertise in supporting the evolution of digital television platforms in Latin America.



Japan Pavilion at SET EXPO 2026

The 77th Meeting of the CJK IMT Working Group in Qingdao, China

The 77th meeting of the CJK IMT Working Group was held in Qingdao, China, from 26 to 27 August 2026, bringing together representatives from CCSA (China), TTA (Republic of Korea), and ARIB (Japan). The meeting provided an opportunity to exchange information and coordinate activities related to IMT standardization within ITU-R, APT, and 3GPP.

Participants exchanged information on the outcomes of recent meetings of ITU-R WP 5D, APT, and 3GPP, and discussed preparations for the 53rd meeting of WP 5D. Discussions also covered future study topics and regional coordination activities related to IMT standardization.

A major focus of the meeting was IMT-2030 (6G). The three organizations discussed proposed revisions to ITU-R documents concerning candidate radio interface technology submission procedures and evaluation processes for IMT-2030, as well as possible joint contributions to the ongoing ITU-R studies.

The meeting also continued trilateral coordination on WRC-27 Agenda Items 1.7 and 1.13, addressing additional IMT spectrum identification and regulatory considerations related to direct satellite-to-device connectivity. Through these discussions, participants exchanged views on technical and regulatory issues that will support future WRC-27 deliberations.

The meeting reaffirmed the importance of continued cooperation among China, the Republic of Korea, and Japan in advancing IMT-2030 standardization activities and strengthening regional coordination for WRC-27. The next CJK IMT Working Group meeting is scheduled to be held in Okinawa, Japan, in January 2027.



CJK IMT Working Group Meeting Participants

The 35th Study Group Meeting on Private Wireless Communications

The 35th Meeting of the Study Group on Private Wireless Communications, organized by ARIB, was held online on 27 August 2026. The study group serves as a forum for experts from government, academia, industry, and user organizations to exchange information on policy developments, technology trends, and emerging applications related to private wireless communications.

The meeting featured presentations on two advanced wireless communication technologies with potential applications in specialized and mission-critical environments. One presentation introduced the successful real-time transmission of sonar images from the 8,000-meter-class autonomous underwater vehicle Urashima 8000 using acoustic communications, enabling more flexible mission operations based on on-site observation data.

The second presentation described a demonstration of remote drone operation using technology designed to reduce network delay variation and stabilize video quality. The technology is expected to support more reliable wireless connectivity for remote operations and other advanced applications.

The presentations highlighted how advanced wireless technologies are expanding the potential applications of private wireless communications in challenging environments, including underwater exploration and remote operations, underscoring the importance of continued information exchange through ARIB's study group activities.

The 37th Meeting of the APT Wireless Group (AWG-37) in Dhaka, Bangladesh

The 37th Meeting of the APT Wireless Group (AWG-37) was held in Dhaka, Bangladesh, from 7 to 11 September 2026, bringing together representatives from administrations, industry, and international organizations across the Asia-Pacific region. AWG serves as a regional forum for facilitating spectrum harmonization and promoting the development of wireless technologies and applications.

A major focus of the meeting was the evolution of IMT-2030 (6G). APT members, including Japan, finalized three new APT Reports on IMT-2030 use cases and applications, mobile traffic trends in IMT networks, and the technical characteristics of the 6425-7125 MHz band, which is considered a potential mid-band spectrum candidate for future 6G systems. Work also continued on a report examining IMT network deployment and spectrum utilization trends across Asia-Pacific economies.

The Fifth 6G Workshop, held in conjunction with AWG-37, explored the growing role of artificial intelligence in future IMT-2030 (6G) networks. Presentations and discussions highlighted the evolution toward AI-native networks that integrate connectivity, computing, and intelligence, as well as the importance of standardization, interoperability, and sustainable deployment.

In other activities, discussions continued on intelligent transport systems (ITS), including wireless technologies to enhance motorcycle safety through vehicle-to-infrastructure communications. Progress was also made on wireless LAN activities, including updates to a draft report on Standard Power Radio Local Area Networks (RLANs). Japanese contribution reflecting developments in Automated Frequency Coordination (AFC) was incorporated into the report, and a joint Wi-Fi/UWB workshop was approved for AWG-38.

The meeting reaffirmed the value of regional cooperation in wireless communications and highlighted the growing role of AI in shaping future IMT-2030 (6G) technologies and standardization activities across the Asia-Pacific region.



APT Wireless Group Meeting

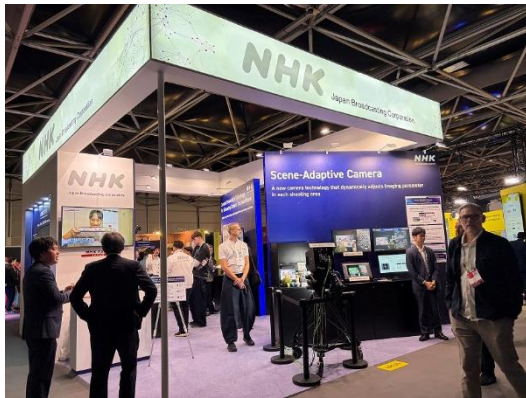
ARIB-DVB Regular Meeting in Amsterdam, the Netherlands

The regular meeting between ARIB and DVB (Digital Video Broadcasting) was held on 12 September 2026 at the RAI Exhibition Center in Amsterdam, the Netherlands, during the International Broadcasting Convention (IBC) 2026. The annual meeting, based on an information exchange agreement established in 1994, provides an opportunity for the two organizations to exchange views on topics of mutual interest.

This year's meeting focused on technical discussions during visits to the NHK Science & Technology Research Laboratories (NHK STRL) booth and DVB exhibition booth. At the NHK STRL booth, participants exchanged information on content provenance technologies designed to enhance the trustworthiness of digital content, including the current status of the Coalition for Content Provenance and Authenticity (C2PA) specifications and approaches to content verification.

At the DVB booth, participants discussed the deployment of DVB-I in New Zealand and Germany, including support among TV manufacturers, as well as recent developments in the integration of broadcast and broadband services in other countries.

The meeting reaffirmed the long-standing cooperation between ARIB and DVB while also providing a valuable opportunity for constructive discussions on key topics of importance to the broadcasting industry.



Exhibition of NHK



Exhibition of DVB



Association of Radio Industries and Businesses

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