

Newsletter ARIB SEASON

February 2025



No.0044

ETSI Director General Visits ARIB

Mr. Jan Ellsberger, who took on the position of Director General at ETSI (European Telecommunications Standards Institute) in April 2024 and CTO Dr. Issam Toufic visited ARIB on 9 October 2024. During the visit, the two organizations shared updates on their respective activities and initiatives, exchanged views on potential areas for collaboration, and signed a revised Co-operation Agreement.

Both sides provided introductions to their organizations, and discussions covered various aspects of international cooperation, including collaborative efforts between ETSI and ARIB.



Signing of the MoU by Mr. Ellsberger and ARIB Secretary General Mr. Kodama



Discussion

"5G/6G Special Day I " in CEATEC 2024

CEATEC 2024 was held at Makuhari Messe located in the suburbs of Tokyo in October. During CEATEC exhibition, the workshop titled "5G/6G Special Day I " was organized on 16 and 17 October on-site as well as online. It was composed of three parts: (1) 5G International Workshop, (2) Local 5G International Workshop and (3) 5G/6G International

Conference. 722 participants attended there, and 236 audiences viewed the online distribution.

1. Overview of the Event

Schedule	16-17 October 2024
Venue	Makuhari Messe, Chiba city, Japan (Online available)
Organizer	- MIC (Ministry of Internal Affairs and Communications) - XGMF (XG Mobile Promotion Forum) - ARIB (Association of Radio Industries and Businesses) - The University of Tokyo

2. Program

(1) 5G International Workshop (AM, 16 October 2024)

The Latest Trends in industrial Use - 5G Communications Spreading Dreams on Land, Sea, Sky, and Space -	
Title / Outline	Speaker
Opening Remarks	Mr. Hironobu Yumoto Director-General of the Telecommunications Bureau, MIC Prof. Hiroyuki Morikawa XGMF co-chairman (The University of Tokyo)
Superconducting Maglev and Wireless Technology	Mr. Yo Koide Central Japan Railway Company (JR Central)
5G Automotive Association pioneering digital transformation in the automotive industry	Dr. Maxime Flament CTO, 5G Automotive Association
Wind power generation, offshore communications	Mr. Ray Tseng Head of ECE(Enterprise Campus Edge) Sales, APAC, Nokia
The Changing Drone Industry with Mobile Communication and the Deployment of Smart Drones	Mr. Hiroshi Sugita CTO, KDDI SmartDrone Inc.
Connecting Beyond the Sky	Dr. Ryuji Wakikawa Head of Research Institute of Advanced Technology, SoftBank

<p><Panel Discussion> "Spreading Dreams on Land, Sea, Sky, and Space"</p>	<p>[Moderator] Ms. Rika Ooyama XGMF Facilitator (ON BOARD Co., Ltd.) [Commentator] Prof. Hiroyuki Morikawa XGMF co-chairman (The University of Tokyo) [Panelist] Mr. Hiroki Shibayama 5G Automotive Association (NTT DOCOMO, INC.) Mr. Yo Koide Mr. Ray Tseng Mr. Hiroshi Sugita Dr. Ryuji Wakikawa</p>
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Panel Discussion at the "5G International Workshop"

(2) Local 5G International Workshop (PM, 16 October 2024)

<p align="center">Global frontline of factories, manufacturing industries and business development</p>	
<p>Title / Outline</p>	<p>Speaker</p>
<p>Opening Remarks</p>	<p>Mr. Hiroyuki Ogawa Director of Land Mobile Communications Division, MIC</p>
<p>Industrial 5G – State of the Union</p>	<p>Mr. Masakazu Shirota Japan Ambassador, 5G-ACIA</p>
<p>Flexible Society Project: Wireless Technologies and Solutions Supporting DX</p>	<p>Ms. Satoko Itaya Wireless System Laboratory Research Manager, National Institute of Information and Communications Technology (NICT)</p>

Local 5G Integration / Case Study and Development of Positioning service	Mr. Gaku Hibi KYOCERA Communication Systems Co., Ltd.
Quantum annealing and local 5G transform factories into live factories	Mr. Koichiro Fujimoto Executive Professional / Technology Evangelist, Technology, Satellite Constellation Business Development Office, NEC Corporation
Introduction of Local 5G Solutions at REIGN	Mr. Brian Huang Sr. Manager, Business Execution & Operations, REIGN Technology Corporation
5G Networks -- Key Learnings in an Emerging Market	Mr. Thomas Fuerst 5G Technology, Product & Marketing Org, Verizon Business Group
<Panel Discussion> "Global frontline of factories, manufacturing industries and business development"	[Moderator] Mr. Takehiro Nakamura Leader, XGMF ODAIBA IX Core project (Chief Standardization Officer, NTT DOCOMO, INC.) [Commentator] Mr. Gota Iwanami Leader, XGMF ODAIBA IX Core project (President, INFOCITY, INC.) [Panelist] Mr. Masakazu Shirota Ms. Satoko Itaya Mr. Gaku Hibi Mr. Koichiro Fujimoto
Speech	Dr. Susumu Yoshida Professor Emeritus of Kyoto University



Panel Discussion at the "Local 5G International Workshop"

(3) 5G/6G International Conference (17 October 2024)

Title / Outline	Speaker
Opening Remarks	Mr. Koichi Takemura Director-General of the Global Strategy Bureau, MIC
<Lectures by government officials from various countries> "5G and Beyond"	Mr. Hermano Tercius Secretary of Telecommunications, Brazil Mr. Masayuki Matsui Director of the Technology Policy Division, Global Strategy Bureau, MIC Dr. Iwao Hosako Executive director of Beyond 5G R&D Promotion Unit, NICT Mr. Chung Jaehoon Director, Network Policy Division, Ministry of Science and ICT, Korea Mr. Kim Phirun Adviser to the Ministry, Ministry of Post and Telecommunications, Cambodia
<Panel Discussion> "XG Cyber Lifeline (Advancing Resilient and Robust Cyber Infrastructure for a Global Digital Future)"	[Moderator] Prof. Akihiro Nakao XGMF co-chairman (The University of Tokyo) [Panelist] Mr. Abhimanyu Gosain Senior Director, Northeastern University Mr. Paul Wijngaard Alliance Director, 6G FNS Program Board, TNO Dr. Iwao Hosako
<Telecommunication carrier lectures from each country>	Dr. Takki Yu VP & Head of Infra Tech Office, SK Telecom Mr. Wang Xiaoyun Chief Scientist, Deputy Chief Engineer, China Mobile Dr. Eric Hardouin VP, Networks and Infrastructures Research, Orange
<Vendor lectures from each country>	Mr. Lorenzo Casaccia Head of Technology Standards, Qualcomm Mr. Juho Lee Fellow (EVP of Technology), Samsung Research, Samsung Electronics Co., Ltd. Dr. Wen Tong CTO, Huawei Wireless
<TSB Director's video Message to 5G-6G INTERNATIONAL CONFERENCE>	Mr. Seizo Onoe Director of the Telecommunication Standardization Bureau, International Telecommunication Union
Closing Remarks	Mr. Seiji Nishioka Executive Director, ARIB



Panel Discussion at the "5G/6G International Conference"

Exhibition in Inter BEE 2024 by ARIB/DiBEG

The 60th Inter BEE (International Broadcast Equipment Exhibition) 2024 was held from November 13 to 15 at Makuhari Messe. ARIB, together with its Digital Broadcasting Experts Group (DiBEG), participated in the exhibition.

1. Event Overview

Inter BEE is Japan's largest exhibition for broadcasting equipment and related technologies. This year marked its 60th edition, featuring conferences at the International Conference Hall and Open Stage. According to the organizer's announcement, the event attracted 1,058 exhibitors and 1,811 booths, welcoming 33,852 registered visitors. The number of exhibitors and visitors has recovered to 90% and 80% of pre-pandemic levels (2019), respectively.

Comparison of the scale of Inter BEE over the past four years

Year (Exhibition form)	Number of exhibitors	Number of booths	Number of registered visitors
2024 (Real, Online)	1,058	1,811	33,853
2023 (Real, Online)	1,005	1,704	31,702
2022 (Real, Online)	810	1,391	26,901

2021 (Real, Online)	495	749	18,308
2020 (Online)	140	—	—
2019 (Real)	1,158	2,125	40,375

2. Exhibition of ARIB/DiBEG

At the ARIB/DiBEG booth, explanations of the recent state of standardization in the broadcasting field, efforts toward next-generation broadcasting technology and the international expansion of ISDB-T by DiBEG were provided using the display panel and the brochures.

Visitors to the booth expressed interest in the fact that the many of the countries which had adopted ISDB-T located in Latin America, the latest information on competition of candidate systems for the introduction of the next-generation digital terrestrial television broadcasting system in Brazil, and the progress of standardization in Japan.

Visit of TTA President and Delegation to ARIB

Mr. Seung-hyun Son, President of the Korean standardization organization TTA (Telecommunications Technology Association), along with five other members, visited ARIB on 29 November 2024 to sign an updated Memorandum of Understanding (MoU) and discuss future cooperation. Since the initial signing of the MoU in April 1996, TTA and ARIB have collaborated primarily on standardization activities within the ITU and APT (Asia-Pacific Telecommunity). This update to the MoU provides a more detailed framework, specifying the areas and scope of cooperation.

During the meeting, ARIB presented its initiatives through the XGMF to promote 5G/local 5G and to introduce Beyond 5G/6G technologies. TTA, in turn, provided an overview of Korea's standardization framework and its efforts toward Beyond 5G/6G. The two organizations also exchanged views on collaboration between Non-Terrestrial Networks (NTN) as well as Terrestrial Networks (TN).



Signing of the MoU by Mr. Son and ARIB Secretary General Mr. Kodama



Discussion

MSC (Mobility & Safety Communications) Seminar in Tokyo

ITS Info-communications Forum (ITSF) for which ARIB acts as a secretariat held "Mobility & Safety Communications (MSC) Seminar" at Meiji Kinenkan hall in Tokyo on 24 December 2024. About 100 participants from ITS-related ministries / organizations and member companies of ITSF attended the Seminar.

The program of the Seminar was as follows.

Session	Title	Speaker
	(Moderator)	Mr. Takeshi Yamamoto Chairman of International Relations Committee, ITSF (Autotalks Ltd.)
	Opening Remarks	Mr. Hiroyuki Ogawa Director of the Land Mobile Communications Division, MIC * A message from Mr. Ogawa was delivered by Mr. Takayoshi Kagei, Director of the New Generation Mobile Communications Office, on his behalf.
[Report 1] Initiatives of Radiocommunication for Automated Driving and Driving Safety Assistance in Japan		
(1)	MIC's Initiatives on Info-communications Infrastructure for the Automated Driving Era	Mr. Takayoshi Kagei MIC
(2)	Recent Topics from the ITS Policy and Program Office, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)	Mr. Takafumi Kitajyo ITS Policy and Program Office, MLIT
(3)	Efforts to Reduce Bicycle Accidents in Japan	Mr. Koichiro Tsuruoka Panasonic Cycle Technology Co., Ltd.

[Report 2] International Trends in Automated Driving and ITS Radiocommunication Systems		
(1)	Global Trends toward the Practical Implementation of Automated Driving	Mr. Ryota Shirato Senior Vice President of ITS Japan
(2)	Report on the ITS World Congress 2024 in Dubai	Mr. Izuru Honda New Generation Mobile Communications Office, MIC
(3)	5G Automotive Association, pioneering digital transformation in the automotive industry	Mr. Toru Uchino Japan Task Force 5G Automotive Association WG6
[Report 3] Discussions on Next-Generation Wireless Communication Systems at the ITSF		
(1)	International Standardization Trends for ITS and Automated Driving in ITU-R / AWG a) Developments in ITS and Automated Driving Standardization at ITU-R b) Contributions to AWG on “USAGE OF COOPERATIVE VEHICLE-INFRASTRUCTURE ITS SYSTEMS”	Mr. Takahiro Yokoyama Chairman of International Standardization Promotion TG, ITSF, (ARIB) Mr. Yasushi Nakajima Leader of ITS Overseas Promotion Activity SWG, ITS Japan
(2)	Considerations for Field Trials of V2X Communication System for Automated Driving	Mr. Masaharu Hamaguchi Chairman of Cooperative Driving Automation Communication System Technology WG, ITSF
(3)	Revisions to the 760 MHz Band Experimental Guidelines for Automated Driving Field Trials a) Revision of RC-018: Experimental Guideline for 700 MHz Band Intelligent Transport Systems for Autonomous Driving Communication Utilization Use Cases - Support for SIP use cases - b) Formulation of RC-019: Experimental Communication Message Guidelines for Driving Safety Assistance and Automated Driving Support Systems on Local Roads	Mr. Yuji Kato 700MHz BAND ITS Implementation Committee, ITSF, (KYOCERA Corporation) Mr. Shingo Sumi 700MHz BAND ITS Implementation Committee, ITSF, (ITS Smartpole / Infrastructure Study WG, ITS Japan)
	Closing Remarks	Dr. Sadao Obana Chairman of Executive Committee, ITSF



MSC Seminar



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

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