

Many meetings, events and seminars have been postponed or canceled due to the spread of COVID-19. We really hope that the people everywhere can cope with the unprecedented crisis and phenomenally recover the normal society with ordinary days.

<< Contents >>

Topics :

- The 57th CJK IMT Working Group Meeting in Jeju
- Seminar for Electromagnetic Environment Committee members
- 5G International Symposium 2020
- The 34th ITU-R WP5D Meeting in Geneva

Standards :

- Newly established Standards
- Revised or abolished Standards

Evant

The 57th CJK IMT Working Group Meeting in Jeju

CJK IMT Working Group Meeting aims to exchange information and views about the activities of international IMT standardizations in ITU-R, APT, 3GPP, etc. among the members of SDOs in China, Japan and Korea. It is also intended to prepare joint contributions for international meetings such as ITU-R SG5 Working Party 5D (WP5D) and held three times a year.

The 57th CJK IMT Working Group Meeting was held as described below.

1. Overview of the meeting

Schedule	15 and 16 January 2020
Venue	Best western Hotel Jeju (Jeju, Korea)
Participants	ARIB (Japan) 10, CCSA (China) 9, TTA (Korea) 12

2. Main Results

- (1) Based on the results of the World Radiocommunication Conference (WRC-19), the 33rd ITU-R SG5 Working Party 5D (WP5D) meetings and the 3GPP meetings held in 2019, participants shared ideas about their future issues.
- (2) For the 34th WP 5D meeting scheduled to be held on 19 February, the following policies were decided based on the proposals from each country as a result of discussions on how to proceed in the future. It was decided that discussion would be continued online on WRC-23 Agenda Items, and that joint contribution would be examined for preface of the recommendation on IMT-2020 wireless interface.
- (3) Government, standardization organization, and 5G-related organization of each country reported its activities, and initiatives on "local 5G" were introduced by Japan.

3. Future Plan

The next CJK IMT Working Group Meeting will be held online in May (originally had been scheduled on 20 and 21 May 2020 in Himeji, Japan).



Seminar for Electromagnetic Environment Committee members

The seminar organized by the Public Relations Subcommittee of Electromagnetic Environment Committee was held on 14 February 2020 in Tokyo, Japan, attended by 41 people. This seminar is held every year, aiming at introducing to the committee members the latest research trends on radio wave safety and radio wave protection compatibility, the latest research of the international institutions such as WHO (World Health Organization), ICNIRP (International Commission on Non-Ionizing Radiation Protection, IEEE (The Institute of Electrical and Electronics Engineers, Inc.) and NTP (National Toxicology Program).

The program was as follows.

	Speaker	Title
(1)	Mr. Yuto Moriwake	Activities of citizens' organization
	JAPAN NUS Co., Ltd.	
(2)	Dr. Akimasa Hirata	Revision of International Guidelines for
	Professor,	Radio Wave Protection
	Nagoya Institute of Technology	
	Graduate School	

After the lecture, an informal meeting was held to exchange information mainly on the electromagnetic environment between the lecturers and attendees.



5G International Symposium 2020 in Tokyo

Japan's Ministry of Internal Affairs and Communications (MIC) hosted an international symposium in February entitled "5G International Symposium 2020: Creating the Future with 5G". This symposium, co-hosted by the Fifth Generation Mobile Communications Promotion Forum (5GMF) and ARIB, and supported by the Telecommunication Technology Committee (TTC), was held in order to present the results of the MIC organized 5G Field Trials by participants from a diverse range of use fields as part of MIC's activities towards the realization of 5G in 2020.

Participants at the symposium were able to experience a future where 5G is realized through exhibitions and demonstrations of the 5G Field Trials, which helped to facilitate the dissemination of the results of this year's trials both domestically and internationally. Presentations and panel discussions with key stakeholders in the world of 5G were also held, in which ideas were discussed and opinions were exchanged that will assist in accelerating the realization of 5G.

Lively discussions were held over the two days of the symposium among the almost 1000 participants in attendance, including those from three countries and regions in Asia (Turkey, Indonesia, and South Korea) and 5G stakeholders from both universities and private industries.

Measures were also put into place to counter the spread of the novel coronavirus. These measures included emails sent to registered participations to bring attention to the situation as well as precautionary measures participants could take, the placement of alcohol based hand sanitizers at the venue along with posters explaining how to properly use them, as well as a manual created and kept on hand to provide information and protocols as to what should be done in case participants fell ill during the event.

Date:	19 and 20 February 2020
Place:	TFT Hall (Tokyo, Japan)
Participants:	about 920 (Day 1: 470; Day 2: 450)



◆ Symposium Overview

The session program of the Seminar was as follows.

Title	Speaker
Welcome remarks	Mr. Yasuo Tawara
	Director-General of the Radio
	Department, MIC
Keynote address	Dr. Susumu Yoshida
	Chairman of the 5GMF
The 5G Revolution: Creating New Possibilities	Mr. Sumeet Singh
	Vice president of Big Data, AI and
	Location Platforms, Verizon
Regional ICT Initiatives and Expectation	Mr. Tsugumasa Muraoka
toward 5G	Governor of Yamaguchi Prefecture



Mr. Tawara

Dr. Yoshida

Mr. Singh

Mr. Muraoka

[Session 1] Achievement of 5G Field Trials		
[Moderator] Dr. Yukihiko Okumura, 5G Trial Promotion Group leader, 5GMF		
5G Service Trials on Ultra High Bit-Rate	Dr. Takashi Okada	
Communication in Outdoor Environments	NTT DOCOMO	
Realization of Ultra-High Speed	Mr. Masanori Ichinose	
Communication under Multiple Base Station	NTT Communications	
– Multiple Mobile Terminals – Moving		
Environments		
5G Field Trials Utilizing High Speed Uplink	Mr. Akira Matsunaga	
Capability with multiple base station and	KDDI	
terminals		
Trials of 5th Generation Mobile	Dr. Hiroyuki Yokoyama	
Communication Systems in Indoor	Advanced Telecommunications	
Environments	Research Institute International	
Field Trials on 5G Ultra Low Latency	Dr. Hitoshi Yoshino	
Communication towards Automated Driving	Wireless City Planning	
	Corporation	
Field Trials for Early Introduction of 5G's	Mr. Yusuke Tajima	
Massive Simultaneous Connection	Wireless City Planning	
	Corporation	
Investigation of Radio Propagation	Dr. Koshiro Kitao	
Characteristics in 5G Comprehensive	NTT DOCOMO	
Demonstration Tests		









Dr. Okumura

Dr. Okada

Mr. Ichinose

Mr. Matsunaga





Mr. Tajima



Dr. Kitao

[Session 2] Realization of 5G service

[Presentations and Panel discussion]	[Moderator]
This session's presentations provided the view	Mr. Waichi Sekiguchi
of 5G services from the perspective of mobile	President of MM Research
phone operators, including the development of	Institute, Ltd.
5G services from the directors of individual	[Panelists]
companies and concrete plans for services and	Mr. Takehiro Nakamura
applications.	NTT DOCOMO
This was followed by a panel discussion where	Dr. Satoshi Konishi
ideas and opinions of the firms represented	KDDI
were exchanged on topics including 5G	Mr. Makoto Noda
business models of the diffusion of 5G	SoftBank
networks, progress on 5G in Japan from a	Mr. Yusuke Sato
global perspective.	Rakuten Mobile



[Session 3] Expectation to "LOCAL 5G"

[Presentations and Panel discussion]	[Moderator]
This session began with the MIC's Director of	Prof. Seiichi Sampei
the Regional Communications Development	Osaka University,
Division providing an overview of local 5G	Chairman of Regional Utilization
policies.	Promotion Committee, 5GMF
This was followed by presentations from local	[Panelists]
government officials, experts, and vendors on	Mr. Toshio Iso
issues facing regional areas as well as local 5G	Director of the Regional
use cases.	Communications Development
A panel discussion was then held which	Division, MIC
included a lively discussion on the current	Mr. Nobuyuki Kise
state and way forward towards a future where	Iwamizawa City
local 5G is deeply integrated into regional	Mr. Satoshi Koike
communities, as well as issues and solutions	vegetalia, inc.
related to the introduction of local 5G.	Mr. Keita Matsuda
	Maebashi City
	Mr. Takashi Kanda
	FUJITSU (5GMF)



[Session 4] Collaboration to Partner on 5G	
[Presentations and Panel discussion]	[Moderator]
This session began with presentations by key	Mr. Gota Iwanami
decision makers in the fields of media, MaaS,	President of INFOCITY, Inc.,
AR / e-sports and settlement services on the	Chairman of Application
progress and expansion connected to the	Committee, 5GMF
ultra-high speeds, massive multiple	[Panelists]
connections, and ultra-low latency that is	Mr. Masahide Koike
being realized by 5G.	Managing Director, CyberAgent,
This was followed by a thorough discussion on	Inc., / Director, AbemaTV, Inc.
how issues can be resolved as well as what	(Media)
services will look like in the near future from	Mr. Takeshi Narisako
the unique view of the different fields	General Manager, Digital
represented by each panelist.	Innovation Dept., DENSO (MaaS)
	Mr. Hiroshi Fukuda
	CEO, meleap inc. (AR / e-sports)

Mr. Masayoshi Yanase
Business Operations Office Senior
Manager, PayPay Corporation
(Settlement service)



The symposium was concluded with closing remarks by Mr. Katsuaki Hoshi, Chief of the Development Center of ARIB.



▶ 5G Field Trial Demonstration and Exhibition Next to the main presentation hall exhibition booths were set up to provide information on the results of the 5G Field Trials that began in 2017 and use models that emphasized how 5G could be used to solve regional issues which were based upon the results of the 5G Ideathon that was held in January, 2019. Gov. Muraoka and Director-General Tawara, along with many other participants at the symposium, viewed the exhibitions and were seen asking many lively questions while there.



[1] Ultra-High Bit-Rate Communication in Outdoor Environments [NTT DOCOMO]

[2] Ultra-High Speed Communication under Moving Environments [NTT Communications]



[3] Promotion of New Sports "Slackline" [KDDI]

[4] Promotion of Tourism Utilizing High Definition Omnidirectional VR Video Images [KDDI]



[5]

[6]

- [5] Integrated Management System of Construction Work [KDDI]
- [6] Mountain Climbers Observation system [KDDI]



- [7]
- [7] Support of Racehorse Breeding [ATR]



[8]

[8] Streamline of Livestock industry [ATR]



- [9] Sense of Unity with Players and Spectators [ATR]
- [10] Truck Platooning / Remote Driving [Wireless City Planning]



【11】

[11] 5G for i - Construction / Smart Logistics [Wireless City Planning]

The 34th ITU-R WP5D Meeting in Geneva

ITU-R WP5D the 34th meeting was held as below.

1. Overview of the meeting

Schedule	From 19 to 26 February 2020
Venue	ITU Headquarters (Geneva, Switzerland)
Participants	About 150 people
Participants from Japan	13 people (including 2 from ARIB) headed by Mr. Maruhashi (MIC)



2. Main results

- (1) General Aspects
 - On Research Subject Q262/5 (Usage of the terrestrial component of IMT systems for specific applications), it was agreed that preparation of ITU-R report on the use of C-V2X (Cellular V2X) be started and would be completed by June 2021.
- (2) Spectrum Aspects & WRC-23 Preparation
 - ① It was decided to establish SWGs for each of the following WRC-23 agenda items for which WP5D will be responsible, and to promote future study of frequency sharing and preparation of CPM texts.
 - AI 1.1: to consider, based on the results of the ITU-R studies, possible measures to address, in the frequency band 4800-4990MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the PFD criteria in No. 5.441B in accordance with Resolution 223 (Rev.WRC-19)
 - AI 1.2: to consider identification of the frequency bands 3 300-3 400 MHz, 3 600-3 800 MHz, 6 425-7 025 MHz, 7 025-7 125 MHz and 10.0-10.5 GHz for International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution 245 (WRC-19)
 - AI 1.4: to consider, in accordance with Resolution 247 (WRC-19), the use of high-altitude platform stations as IMT base stations (HIBS) in the mobile service in certain frequency bands below 2.7 GHz already identified for IMT, on a global or regional level
 - ② Regarding the frequency assignments in the band identified for IMT in WRC-19 (24.25-27.5 GHz, 37-43.5 GHz, 45.5-47 GHz, 47.2-48.2 GHz and 66-71 GHz), existing recommendation on frequency assignment ITU-R M.1036-6 was agreed to be revised by June 2020.
- (3) Technology Aspects
 - ① A document (IMT-2020/38) summarizing the evaluation for the wireless interface results proposed by an evaluation group outside ITU-R has been created.
 - ⁽²⁾ As a first step toward future wireless technology development, it was agreed that ITU-R report on technology trends toward 2030 (Tentative title: IMT future technology Trend) would be made and completed by June 2022.

3. Next meeting schedule

The next 35th meeting is scheduled to be held in Geneva from 23 June to 1 July 2020.

Standards |

1. Newly established Standards at Standard Assembly on 18 March 2020

STD Number	Standard Name	Version
STD-B75	Semi-Microwave Band Portable OFDM Digital Transmission System for Ultra High Definition Television Program Contribution	Ver.1.0

This standard specifies a TV broadcast program material transmission system (FPU: Field Pick-up Unit) that transmits ultra-high definition television (4K/8K) signals and high-definition television (2K) signals using OFDM through 1.2/2.3GHz band.

STD Number	Standard Name	Version
STD-B76	IP Interface in Program Production of Audio, Video, Data Individual Stream Format	Ver.1.0

This standard defines the method for transmitting video, audio, and auxiliary data in separate streams based on SMPTE ST 2110-10 of the IP (Internet Protocol) interface used for program production, and for synchronizing the time between devices.

2. Revised or abolished Standards at Standard Assembly on 18 March 2020

STD Number	Standard Name	Version
STD-T75	Dedicated Short-Range Communication System	Ver.1.6
STD-T120	IMT Systems based on 3GPP Specifications ARIB STANDARD	Ver.1.60
STD-B73	Data Structure of RTP Datagram in Essence Independent and Single Stream for IP Interface in Production Systems	Ver.2.0
STD-B74	The Use of ARIB STD-B73 Stream in Program Production with Essence-Independent-And-Multi-Stream IP Interface	Ver.1.1

Association of Radio Industries and Businesses

ARIB SEASON Publishing

ARIB

1-4-1 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 JAPAN https://www.arib.or.jp/english/