

# Report on The Workshop on the Fifth Generation Mobile Communications Systems (5G) - 2016

- **Sponsor** Ministry of Internal Affairs and Communications
- **Co-Sponsor** 5GMF (Fifth Generation Mobile Communication Promotion Forum)
- **Date** Wed., October 5, 2016. 14:00~17:30
- **Location** Tokyo Messe International Convention Center Convention Hall B
- **Number of Participants** about 600

- The third annual workshop to discuss the advancement of research towards the realization of the 5<sup>th</sup> generation mobile communications system (5G) was held. Presentations were given on activities, both in Japan and abroad, working towards the realization of 5G as well as the demands and expectations for the use of 5G in the industrial world, which is expected to benefit greatly from 5G.
- In addition a panel discussion was held, where opinions were exchanged about new mobile services that would be introduced to the world using 5G systems from the year 2020

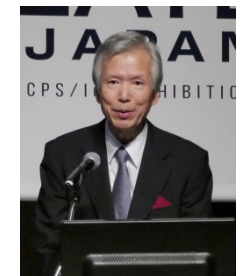


Photo of the Workshop

- ◇ **Opening Remarks** **Mr. Jiro Akama,**  
State Minister for Internal Affairs and Communications
- ◇ **Keynote Address** **Prof. Susumu Yoshida,**  
Chairman, 5G workshop organizing committee,  
Chairman, 5GMF



Mr. Jiro Akama,  
State Minister for  
Internal Affairs  
and  
Communications



Prof. Susumu Yoshida,  
Professor Emeritus , Kyoto  
University

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## Summary of Presentations (Session 1)

### ◇ Session 1 : Domestic and Overseas Towards the Implementation of 5G

Presentations on the current situation of the 5G Systems Integrated Verification Trial being held by the 5GMF, looking towards the realization of 5G by 2020, followed by reports on activities towards the realization of 5G in China and South Korea

#### Japan (5GMF)

Dr. Satoshi Suyama (Subleader, 5G Trial Promotion Group, 5GMF)

**Title:** Integrated Verification Trial toward Actualization of 5G System

**Overview:** Introducing concepts behind the integrated verification trial, potential participants, schedule, trial items, and trial scenarios



Dr. Satoshi Suyama  
5GMF

#### China

Dr. Wen Tong (Huawei)

**Title:** 5G Trial Activities in China

**Overview :** Overview and Results of Step 1 of the 5G Trial and the objective, requirements, and schedule of Step 2 5G Trial held by China.



Dr. Wen Tong  
Huawei Technologies Co., Ltd.

#### South Korea

Dr. Seongkwan Kim (kt)

**Title:** KT 5G Plan; Recent Activities and Future Plan

**Overview:** The needs and details about 5G, the technology, and the results of trials in South Korea, introduction of proposed major features, introducing activities towards the realization of a 5G ecosystem



Dr. Seongkwan Kim  
kt Corporation

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## Summary of Presentation (Session 2)

### ◇ Session 2 Cooperation with industries in uses of 5G

**Mr. Gota Iwanami** Chairman, Service and Application Committee, 5GMF);

**Title:** Application Development for 5G Mobile Communications

**Overview:** Expectations for 5G from an application developers' perspective, considerations for applications in the 5G era, utilization image of wireless services in the near future



**Mr. Gota Iwanami**  
(5GMF)

**Mr. Hideaki Suganuma** (Toyota)

**Title:** The latest Trends in Connected Cars and Expectations for 5G

**Overview:** Introduction of the history of ITS services and examples of their implementation activities towards the realization of automated drive, connecting cars and local communities, expectations for 5G and other communications technologies



**Mr. Hideaki Suganuma**  
(Toyota)

**Mr. Eiji Kuwabara** (Sohgo Security Services)

**Title:** Security service evolving with high technology

**Overview:** Connections between uses of security systems and high technology, Expectations of Diversifying and expanding services with 5G



**Mr. Eiji Kuwabara**  
(Sohgo Security Services)

**Mr. Junya Inoue** (The Tokyo Organising Committee of the Olympic and Paralympic Games)

**Title:** Expectations for 5G in Tokyo 2020

**Overview:** Expectations for 5G in light of the Rio Olympics and the vision for the Tokyo Olympic and Paralympic Games



**Mr. Junya Inoue**  
(The Tokyo Organising  
Committee of the Olympic  
and Paralympic Games)

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## Panel Discussion

The Panel Discussion was moderated by Strategy and Planning Committee Deputy Chairman Mr. Takehiro Nakamura and included, in addition to the day's presenters, 5GMF Technical Committee chairman Prof. Seiichi Sampei of Osaka University. The panelists exchanged opinions on issues including verification trials needed to realize 5G, cooperation with industries outside the telecommunications field, and how to raise the public's interest in 5G.

- This year's panelist exchanged opinions on gaining participation of business and industrial sectors on issues related to 5G uses as well as user guides
- As Korea, China and Japan will be holding Olympics beginning in the next 2 years, there was discussion about cooperation between the nations. Additionally, ideas were provided on how to share information from the participation nations, especially the information on the spectrum and decisions on technical issues in which cooperation is important and necessary.
- As for businesses that will use 5G, technology based appeals won't drive its use, instead it will be issues 5G will solve and the understand of value that only 5G systems can create. Additionally, there was discussion on how to cooperate on the testing and discussion needed to implement these uses.
- Prof. Sampei, 5G Technical Committee chairman, pointed out that what was needed for the age of 5G was not just increasing information distribution, but further research into new approaches into the technology and business models as well as how the management of the system will be distributed.



Mr. Takehiro Nakamura (5GMF)  
Moderator



Members of the Panel  
Discussion