

**Title of session: 4G The Road Ahead**  
**Monday Afternoon, 2<sup>nd</sup> of July,**  
**17:00 – 19:00**

**Content/Objective:**

Several technological initiatives have been launched world-wide in the context of Mobile "Beyond 3G" or 4G systems. In Asia ambitious technology driven programmes have already led to a number of demonstrators. In Europe, the IST Winner initiative has laid the foundations for a technological approach towards complete 4G systems and networks.

In parallel, a number of operators have recently published a comprehensive strategy towards the development of systems beyond 3G, through the "NGMN" White Paper. This paper piggybacks on the running 3G enhancements explored under the 3G LTE initiative, and outlines more specific operators requirements towards 4G.

Against this background, the purpose of this session will be:

- a) to review the 4G situation in the most advanced regions of the world, with a particular focus on the status of demonstrators and of their tested performances;
- b) to outline different 4G (r)evolutionary approaches, and their background compatibility with existing 3G systems;
- c) to position 4G approaches vis-à-vis other technologies such as WiMax;
- d) to outline the operators expectations from novel generation of mobile communication systems;
- e) to identify the expected additional spectrum requirements, a few months before the WRC 2007 conference.
- f) to understand the likely usage scenarios of 4G networks

***The session is planned for a 2 hours duration and will be composed of:***

- i) **a first presentation** part with 4 presentations addressing 4G requirements and the status of advanced testbeds with a focus on the Asian region ( about 80 mn)
- ii) **a panel discussion**, including the 4 speakers and panellists complementing the regional overview of 4G. This 40 mn panel discussion will allow for an interactive discussion with the audience and provide opportunities to further expand the topics a) to f) above.

**Speakers and topics**

**a) Dr Uwe JANSSEN**, Executive Vice President, T-Mobile International,

***- 4G: Global operators expectations and migration path***

**b) Dr.Yi WANG** Huawei, Senior researcher

***- 4G in China, the FuTURE experience***

**c) Dr. Young Kyun KIM**, Senior Vice President Samsung Electronics, Strategy Telecommunications Network.

***4G in Korea, status and performance prospects***

**d) Mr. Seizo ONOE**, vice president, managing director of Radio Access Development Department NTT DoCoMo

***4G in Japan, status and performance prospects***

## Panel Discussion

### Panelists

**a) Dr. Uwe JANSSEN**, Executive Vice President, T-Mobile International,

**b) Dr. Yi WANG** Huawei, Senior researcher

**c) Dr. Young Kyun KIM**, Senior Vice President SAMSUNG Electronics, Strategy Telecommunications Network

**d) Mr. Seizo ONOE**, vice president, managing director of Radio Access Development Department, NTT DoCoMo

**e) Dr. Stephan SCHOLZ**, Head of Research, Technology and Platforms, NSN (CTO of NSN)

**f) Dr. Helmut HOFFMANN**, Global Director Networks, VODAFONE

**g) Dr. Nicolas DEMASSIEUX**, Director, MOTOROLA Paris Centre (US approach)

Session Chair person: **Dr. Stephan SCHOLZ, NSN**

See regular programme updates at:

<http://www.mobilesummit2007.org/>