



NetWorld2020 GA 2014: The future of telecommunication networks

3 December 2014

Bedford Hotel, Rue Du Midi 135, Brussels, 1000, Belgium

Agenda

8:30: Registration opens

Opening session – plenary I	
9:00 - 10:45	<ul style="list-style-type: none"> • Welcome and Opening, Werner Mohr, Nokia, NetWorld2020 Chairman • Towards 5G – Building the EU Community Capacity and Stimulating Innovation, Thibaut Kleiner, EC • Towards the User-Centric Network, Markus Hoffmann, SVP Bell Labs US, former chair of IEEE Internet TC • What we should expect with 5G, Alan Hadden, President, Global mobile Suppliers Association • Requirements on 5G systems - a perspective from Korea, Prof. Han Younghan, 5G Forum Korea

Coffee break & networking

Plenary session II	
11:15 - 12:30	<ul style="list-style-type: none"> • The Future of Satellite Technologies and Networks, Dr Emmanuel Rammos, Senior Advisor of Telecommunications and Integrated Applications at ESA • NetWorld2020 ETP activity report, Werner Mohr, Nokia, Chairman of NetWorld2020 ETP • Our long-term vision: 5G systems in the society of the future, Giovanni Corazza, Univ. of Bologna • Priorities for the WP 2016-17 – recommendations from the 5G PPP Association, Jean-Sébastien Bedo, ORANGE, Leader of 5G PPP Vision WG

Lunch break & networking



13:45 – 15:45: Parallel sessions

These sessions are intended to briefly present opinions and to stimulate discussion

(see detailed agenda on the following pages)

	Track 1	Track 2
13:45 – 14:45	Session 1a: Requirements from vertical sectors on 5G systems - experiences gained from experimentation in the FI-PPP	Session 2a: Testbeds, experiments, demonstrations in 5G PPP
14:45 – 15:45	Session 1b: From “Signal Strength” and unpredictable QoE to “Service Level” and customer choice	Session 2b: Challenges towards trusting the network and the Cloud

Coffee break & networking

Closing session – plenary III	
16:15 - 16:45	<ul style="list-style-type: none"> • Opportunities for NetWorld2020 SMEs: how can you be involved?, Jacques Magen, InterInnov • Future plans for NetWorld2020, participation of members and closing, Werner Mohr, Nokia, NetWorld2020 Chairman

16:45 End of the event



Parallel session details

13:45 – 15:45 (2 parallel tracks)

Parallel session 1a (Caretaker: Uwe Herzog)

Requirements from vertical sectors on 5G systems - experiences gained from experimentation in the FI-PPP (Session moderator: Giovanni Corazza)

In this session selected Use Case projects of the Future Internet PPP will present their experiences gained during their experimentations in the respective application sectors, and will flag a number of requirements from their application domain on 5G systems. Also the project in charge of building the experimental capacity – XIFI – will present their experiences and lessons learnt. After the presentations there will be sufficient time for a panel discussion to debate on the requirements, but also vice versa to get spontaneous feedback from the application sectors on the planned features and advances of 5G systems. *This session was prepared with support of the CONCORD project.*

Speakers:

1. **The Future Manufacturing Services Challenge for 5G MTC Evolution: Towards Seamless Cyber-Physical Production Systems**, Oscar Lázaro, FITMAN project technical coordinator, Innovalia
2. **Business Collaboration in agri-food chains – added value features from farm to fork and role of future telecommunication as key enabler**, Harald Sundmaeker, FIspace coordinator, ATB
3. **How to leverage the XIFI experience to build an industry driven 5G testing framework**, Maurizio Cecchi, XIFI project coordinator, Telecom Italia
4. **Short reminder on plans and visions for 5G systems** (to inspire and trigger the discussion), Jean-Sébastien Bedo, Orange
5. **Panel discussion**, chaired by Giovanni E. Corazza, University of Bologna, with all speakers and audience to participate

Parallel session 1b (Caretakers: Terje Tjelta, Josep Matrat, Thomas Walter)

From “Signal Strength” and unpredictable QoE to “Service Level” and customer choice

(Session moderator: Terje Tjelta)

- Today: Cell phone signal level indicator is not a good indicator for QoE and Service Level
- Explore Future Service Concepts
- Service Level indicator in real-time
- Customer choice of service level
- Elastic services (relative priority) vs. inelastic services (assured quality)

Speakers:

1. **Why you should care about Future Service Level Indicators**, Håkon Lønsethagen, Telenor research



2. **Towards efficient context-aware user-centric media delivery with service guarantees**, Filip De Turck, iMinds
3. **Modeling QoE all the way from signal strength to service level**, Markus Fiedler, Blekinge Tekniska Högskola

Parallel session 2a (Caretaker: David Soldani)

Testbeds, experiments, demonstrations in 5G PPP

(Session moderator: David Soldani)

The Session will present the crucial test cases to demonstrate the new capabilities of the advanced 5G infrastructure, especially for meeting latency, reliability and spectrum requirements, looking at mission critical machine communication and massive machine type of traffic, with maximal exploitation of available spectra: from cellular band to visible light. How, what and when to be tested (from link level performance to capacity tests for a full immersive experience and XaaS) to achieve large scale trials in EU, and globally through International Collaborations, will be also discussed.

Speakers:

1. **5G IC**, Prof. Rahim Tafazolli, University of Surrey
2. **5G @ EIT ICT Labs**, Henrik Abramowicz, Ericsson
3. **5G Berlin**, Thomas Haustein, HHI Fraunhofer
4. **5G Munich**, Egon Schulz/Joseph Eichinger, Huawei
5. **5G Oulu**, Aki P. Korvala, NSN - FI/Oulu

Parallel session 2b (Caretaker: Amardeo Sarma)

Challenges towards trusting the network and the Cloud

(Session moderator: Amardeo Sarma)

The Session will focus on security and trust issues related to the Cloud and Networks in view of current developments towards greater virtualisation. Are there differences and commonalities? Where are the biggest challenges for the future? What are the related legal and regulatory issues?

Speakers:

1. **Why different? Trust in networks vs. other systems**, Prof. Rui Aguiar, IT Aveiro
2. **How to increase trust in the cloud**, Volkmar Lotz, SAP
3. **Can the EU legal framework promote trust?**, Dr. Jörg Hladjk, LL.M., Hunton & Williams