Fraunhofer
FOKUS

FUSECO
Forum 2011

2nd FOKUS FUSECO Forum
on Future Seamless Communication

Berlin, November 17–18, 2011

P R O G R A M

www.fuseco-forum.org/program

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Words from the Chair

Dear FOKUS family and friends, Ladies and Gentlemen,

the international FOKUS FUSECO Forum (FFF) series is concentrating on the hot topic of Future Seamless Communications, taking into account the growing penetration of new mobile end systems (such as smartphones and tablet PCs) and the related global deployment of Mobile Broadband Networks, such as HSPA (High Speed Packet Access), LTE (Longterm Evolution) and the emerging EPC (Evolved Packet Core) providing a seamless connectivity across various mobile access networks to multiple application platforms.

Irrespective of the global slowdown in the IMS industry in 2009/2010, due to missing business cases and the growing competition originating from the mobile Web 2.0 in broadband internet, we have recognized an increasing interest in IMS by the industry in the last months. Market analysts are predicting an 100 percent increase in IMS sales over the next five years. The need to provide Fixed Mobile Convergence (FMC) services across converging fixed and mobile broadband networks, as well as the need to provide voice over (IP only) LTE networks (VoLTE), and the hope for global Rich Communications Services (RCS) take-up, fuels the global interest in IMS. Furthermore, we see a growing interest to extend IMS for emerging M2M (Machine-to-Machine) and internet of things applications.

In this regard I am convinced, that you will enjoy two interesting days in the vibrant city of Berlin, where you will gain new insights, have interesting expert talks and make new friends from all over the world.

Yours sincerely,
Prof. Dr. Thomas Magedanz and the TU Berlin / FOKUS team

Prof. Dr. Thomas Magedanz

08:30 Registration

10:00
TUTORIAL 1 – Control Platforms and Applications for Next Generation Networks and the Future Internet

Prof. Dr. Thomas Magedanz, Fraunhofer FOKUS / TU Berlin

10:00
TUTORIAL 2 – Getting started with OpenEPC and Open IMS Core to set-up your own FUSECO Testbed

Dragos Vingarzan, Marius Corici, Fraunhofer FOKUS

10:00
TUTORIAL 3 – Dynamic spectrum access, cognitive radio networks, and spectrum management as key enablers for upcoming mobile communications

Bernd Bochow, Marc Emmelmann, Fraunhofer FOKUS

11:30 Coffee break

11:45
TUTORIAL 1 – Continued

11:45
TUTORIAL 2 – Continued

11:45
TUTORIAL 3 – Continued

13:00 Lunch break and demos

13:45
WORKSHOP SESSION 1 – Recent Experiences from Global IMS Deployments for FMC, VoLTE, RCS and More
Chair: Giulio Maggiore, Telecom Italia / ETSI TC INT Chairman

- Mobile Service Status and Trends in the US
  HP Baumeister, Fraunhofer Digital Media Technologies

- FMC and the role of IMS in reality / DTAG
  Albrecht Seus, Deutsche Telekom AG

- Opportunities in NGN Network Virtualization
  Jorge Carapinha, Portugal Telecom Inovação

- LTE/EPC deployment architectures to enable content delivery optimization | *Maria Cuevas, BT*

- Policy Control and its Relationship to IMS / EPC
  Christian Gayda, Nokia Siemens Networks

- The Role of WAC in the Mobile Application Ecosystem
  Joachim Zeiß, Zeiss-Consulting

- Questions & Answers

15:15 Coffee break and demos

15:45
WORKSHOP SESSION 2 – Beyond IMS: New Application Needs on Top of Mobile Broadband Networks and the Emerging Mobile Future Internet | Chair: Rui L. Aguiar, University of Aveiro

- Role of IMS/EPC for Automotive Applications – Case Study CoCarX | *Gero Fiege, Vodafone D2*

- From NGN towards a Future Internet Core Platform
  Thomas Bohnert, SAP Research

- Standardization on M2M at ETSI : Open Interfaces for an M2M services platform
  Marylin Arndt, Francetelecom group / Orange Labs

- Introduction to upcoming OMA M2M APIs
  Musa Unmehopa, Alcatel Lucent

- Mobile/ Cloud Service Provider Platform
  Bernd Wunderlich, IBM

- Experiences from OTT/Mobile Cloud Services over Mobile Broadband Networks
  Alan Duric, Telio Holding ASA

- Questions & Answers

17:10
PANEL DISCUSSION – Extend IMS or Rebuild a New Universal IP Control Platform
Chair: Dr. Niklas Blum, Fraunhofer FOKUS, Dr. Naoki Uchida, NTT

Panelists:
- Marylin Arndt, *France Télécom group / Orange Labs*
- Thomas Bohnert, *SAP Reserach*
- Maria Cuevas, *BT*
- Guido Gehlen, *Vodafone*
- Giulio Maggiore, *Telecom Italia*
- Musa Unmehopa, *Alcatel Lucent*

18:00 Demos / Departure of shuttle service to event location

19:00
SOCIAL EVENT – Alte Pumpe
More information about the social event can be found on page 10.

08:00 Registration

09:00

OPENING
Welcome from the chairman Prof. Dr. Thomas Magedanz, Fraunhofer FOKUS / TU Berlin

09:15

**SESSION 1 – Global LTE/HSPA Deployments –
Experiences and Service Offerings Beyond the Bitpipe**
Chair: Prof. Phuoc Tran-Gia, University Würzburg

- Mobile Network Sharing – Opportunities & Challenges
  Dr. Dieter Schafhuber, Accenture

- ETSI INT IMS/EPC Interoperability Standardization –
  Motivation, Roadmap & First Results
  Giulio Maggiore, Telecom Italia/ETSI TC INT Chairman

- RCS Trial Experiences and Global Rollout Plans
  *Christian Gayda, Nokia Siemens Networks
  (Christoph Aktas, VP RCS Standardisation, GSMA)*

- Fi-ware – The European Future Internet Technology
  Foundation
  Thomas Bohnert, SAP Research

- NGMN Alliance: Status Quo and Quo Vadis
  Walter Grethe, Deutsche Telekom AG

- Questions & Answers

11:00 Coffee break and demos

11:30

**SESSION 2 – Mobile Broadband Service Case Studies
and Plans in Germany**
Chair: Prof. Dr. Erwin P. Rathgeb,
University of Duisburg/Essen

- LTE Rollout Experiences and Next Steps
  Franz Seiser, Deutsche Telekom AG

- LTE Rollout Experiences and Voice over LTE Plans for an
  Integrated Operator
  Volker Sebastian, Vodafone

- Triple Jump Towards Mobile Voice-over-IMS
  Karsten Schröder, O2/Telefonica Germany

- Some Challenges while Introducing LTE
  Dietmar Kohnenmergen, E-Plus

- Questions & Answers

12:45 Lunch break and demos

13:30

**VENDOR PANEL – Success Stories & Road Blocks in
Mobile Broadband Deployment**
Chair: Prof. Dr. Thomas Magedanz
Fraunhofer FOKUS/TU Berlin

- Marcus Beckmann, Accenture

- Christian Gayda, Nokia Siemens Networks

- Dr. Michael Lemke, Huawei

- Dr. Dorgham Sisalem, Tekelec

14:00

**SESSION 3 – Mobile Broadband Service Case Studies
and Plans in Europe/EMEA**
Chair: Maria Cuevas, BT

- Converged Networks and Services in a Future Wireless
  World: the EU R&D perspective
  Luis Rodríguez-Roselló, European Commission

- Automotive Services based on IMS/EPC
  Dr. Guido Gehlen, Vodafone

- Establishment of open innovation testbeds challenges
  and approaches
  *Dr. Adnan Abu-Dayya, CEO, QU Wireless Innovations
  Center (QUWIC)*

- Questions & Answers

15:00 Coffee break and demos

15:30

**SESSION 4 – Mobile Broadband Service Case Studies
and Plans around the World**
Chair: Alfonso Ehijo, University of Chile

- NMN (Next Mobile Network)
  Dr. Masami Yabusaki, DOCOMO

- Mobile Broadband and VoIP in the US:
  Trends and Updates
  HP Baumeister, Fraunhofer Digital Media Technologies

- QoE/QoS in Broadband Internet Access and its
  Evolution in Latin America
  Alfonso Ehijo, University of Chile

- Experiences from the NGN Deployment and
  New Services for the 2010 Soccer Worldcup
  Philip Bremner, SA Telkom

- Towards NGN Migration in Thailand
  *Prof. Dr. Prasit Prapinmongkolkarn,
  National Telecommunications Council*

- Questions & Answers

17:10

Closing and Farewell
Prof. Dr. Thomas Magedanz, Fraunhofer FOKUS/TU Berlin

Demonstrations

During coffee and lunch breaks three different demonstrations will be available to FUSECO Forum guests. They will be shown in the demo area (see site plan on page 11).

All demonstrations run concurrently:

November 17, 2011	*November 18, 2011*
Lunch break: 13:00	Coffee break: 11:00
Coffee break: 15:15	Lunch break: 12:45
After last session: 18:00	Coffee break: 15:00

DEMONSTRATION 1

Network Path and Quality Validation in the Evolved Packet Core
LTE will bring new challenges to Infrastructure providers that need to be able to keep track of the increasing data volume and differentiated service classes in the EPC environment. The demo will showcase the advances in the OpenEPC Rel. 3 concerning QoS management and integrate a measurement and monitoring platform that allows the validation and visualization of bearer and flow QoS parameters.

DEMONSTRATION 2

Smart Metering over Next Generation M2M
This demo shows the migration path for Operators from a human communication paradigm towards Machine Type Communication (MTC). The demo features wide area connectivity and remote automation through the operator available assets: connectivity, subscribers profiles, location, and presence information. Scenarios include remote machine event notifications, remote actuation on the physical environment, and subscriber or business administrator controlled automation. The different scenarios will rely on M2M sensors and actuators, an M2M gateway with sensor-to-SIP translation, a generic event enabler with location and M2M mashups, and an IMS infrastructure.

DEMONSTRATION 3

Cloud Elasticity –
QoS and Network Aware Cross-domain Cloud Brokerage
The "Cloud Elasticity" demonstration will show how NGN services can dynamically be deployed and hosted on top of cloud infrastructures. By utilizing state-of-the-art cloud management tools, the demonstration not only shows how cloud resources can dynamically be utilized in a demand-driven, automatically scaling fashion, but also how service providers can flexibly broker cloud resources between available cloud computing infrastructure providers, based on QoS performances, network performance and non-functional parameters.

Vendor Exhibitions

HUAWEI (Gold Sponsor)
Shaping the Future

Nokia Siemens Networks (Gold Sponsor)
Liquid Core / Liquid Net

Tekelec (Gold Sponsor)
Leader in Diameter & PolicyLiquid Core –
Mobile Broadband Solutions to Evolve to LTE/IMS

AVM (Silver Sponsor)
AVM FRITZ!Box – IMS over DSL, DOCSIS, LTE and FTTH

Iskratel (Silver Sponsor)
Absolute Convergence

Mera (Silver Sponsor)
R&D Services Excellence – For Innovative Telecom Solutions

FOKUS Exhibition

OpenEPC Release 3
Showcasing OpenEPC Release 3

Information for Participants

Reception Desk

In case you need information or assistance, please contact the reception desk.

Reception desk hours are:
Thursday, November 17: 08:30 – 18:30
Friday, November 18:   08:00 – 18:00

If the reception desk is closed you may contact us by phone at: +49 17 04 52 77 82

Venue

Fraunhofer Forum Berlin
Spree Palais
Anna-Louisa-Karsch-Str. 2
10178 Berlin, Germany

Internet Access for Guests

WLAN Internet access is provided in the auditorium and exhibition area:

SSID: *FUSECO*
PWD: *fuseco2011*

Presentation Slides

Presentation slides can be downloaded after the event at *www.fuseco-forum.org/download*

All slides will be password protected.
Access information for tutorial slides will be distributed during the event.

Event Minutes / Pictures

Event minutes can be seen after the event at *www.fuseco-forum.org/minutes*

Pictures of the event will be shown at *www.fuseco-forum.org/pictures*

Social Event

Thursday, November 17, 19:00
Conference guests are invited to get to know each other at the event location *Alte Pumpe*. It is one of the most remarkable restaurants in Berlin which provides a spectacular historical ambience and atmosphere.
There is no dress code and casual wear is welcome.

Alte Pumpe
Lützowstrasse 42
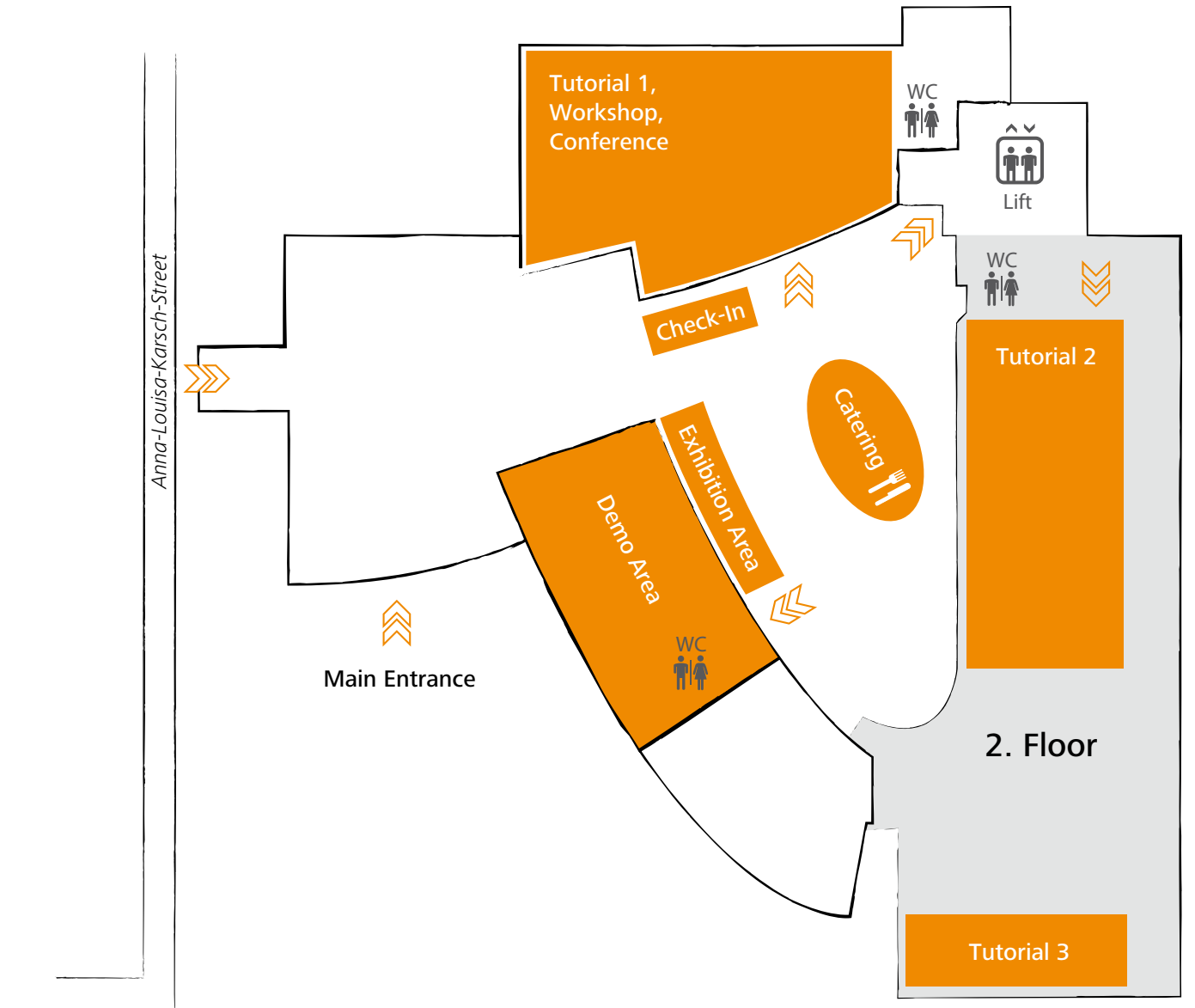10785 Berlin
www.altepumpe.de

The shuttle service to the event location departs at 18:15 from the front of the Fraunhofer Forum building.

Afterwards the shuttle will depart from event location *Alte Pumpe* with stops at

→ *Potsdamer Platz* railway station
→ *Friedrichstraße* railway station
→ *Alexander Platz* railway station

Tutorial 1, Workshop, Conference

WC

Lift

WC

Check-In

Catering

Tutorial 2

Anna-Louisa-Karsch-Street

Demo Area

Exhibition Area

WC

Main Entrance

2. Floor

Tutorial 3

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VDEITG

Venue at:

Fraunhofer Forum Berlin
Spree Palais
Anna-Louisa-Karsch-Str. 2
10178 Berlin, Germany

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