Fraunhofer
FOKUS

FUSECO
Forum 2013
FUTURE SEAMLESS COMMUNICATION

4th FOKUS FUSECO Forum

on Future Seamless Communication

November 28 & 29, 2013

PROGRAM

www.fuseco-forum.org/program

CONTENT

Sponsors

WELCOME

Words from the Chair

Dear FOKUS family and friends, Ladies and Gentlemen,

The international FOKUS FUSECO FORUM (FFF) series represents a follow-up to the famous international FOKUS IMS Workshop series held from 2004 to 2009, which discussed Next Generation Network (NGN) technologies and emerging multimedia services enabled by the IP Multimedia System (IMS). However, within the FFF series IMS technology represents just one important control platform for human-to-human multimedia communications, such as Voice over LTE (VoLTE) and Rich Communication Services (RCS), within the overall converging telecommunication and internet infrastructure.

The upcoming fourth FFF is themed „Smart Communications Platforms for Seamless Smart City Applications". This time we will look at Fixed and Mobile Next Generation Networks Evolution towards virtualized network control and service platforms and Seamless Cloud based human-to-human (H2H) and M2M Applications. So again we want to follow our tradition and incorporate new trends within the established tutorial and workshop streams, such as Network Virtualisation and Open Flow, Cloud based H2H and machine-to-machine (M2M) service provision, as well as recent WebRTC and HTML5 advances.

Whether you are already part of the FOKUS family or whether you may plan to visit us for the first time, I am convinced, that you will enjoy two very 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.

I hope you will find this program interesting and our fourth international FOKUS FUSECO Forum in Berlin, Germany, on November 28 & 29, 2013, too.

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

Prof. Dr. Thomas Magedanz

PROGRAM AT A GLANCE

Day 1 – Tutorials and Workshops

10:00 - 13:00 in Auditorium 1
Tutorial 1
Understanding NGN Control and Service Platform Evolution – SDP/IMS/MTC/EPC vs. Clouds/OTT/WebRTC/HTML5
(Thomas Magedanz, Fraunhofer FOKUS/TU Berlin, Niklas Blum, Fraunhofer FOKUS)

10:00 - 13:00 in Seminar room 1
Tutorial 2
M2M Communication Evolution: Motivation, Standards, Applications, and Tools for M2M and Internet of Things
(Konrad Campowsky, Fraunhofer FOKUS, Adel Al-Hezmi, Fraunhofer FOKUS)

10:00 - 13:00 in Seminar room 2
Tutorial 3
Getting started on your Core Network Evolution using OpenEPC: SDN and NFV
(Dragos Vingarzan, Fraunhofer FOKUS, Marius Corici, Fraunhofer FOKUS)

Lunch Break

13:45 - 18:00 in Auditorium 1
Workshop 1
VoLTE/RCS vs. OTT: Challenges and Advances for Launching Successful Fixed and Mobile Broadband Services
(Niklas Blum, Fraunhofer FOKUS, Axel Küpper, TU Berlin)

13:45 - 18:00 in Seminar room 1
Workshop 2
M2M Communication Forum
(Adel-Hezmi, Fraunhofer FOKUS, Kai Brasche, Telefónica Germany GmbH & Co. OHG, Jürgen Hase, Deutsche Telekom AG)

13:45 - 18:00 in Seminar room 2
Workshop 3
Evolution of the Operator Networks beyond EPC: SDN, NFV and MCN incl. also EU FP7 MCN Workshop
(Julius Müller, TU Berlin/Fraunhofer FOKUS, Marius Corici, Fraunhofer FOKUS)

Day 1 - International FI-PPP Workshop – Status Quo and Outlook on Phase III

10:00 - 10:55 in Auditorium 2
Session 1: The FI-PPP and Smart Cities: From validation to large-scale trials. Upcoming opportunities for SMEs

10:55 - 11:30 in Auditorium 2
Session 2: The Future Internet Core Platform – providing a framework for the development of smart applications in the Future Internet

11:45 - 13:00 in Auditorium 2
Session 3: FI-PPP Phase II European Node Deployments – paving the way for the establishment of a common European market for large-scale trials for Future Internet and Smart Cities through the creation of a sustainable pan-European federation of Future Internet test infrastructures

Lunch Break

13:45 - 15:15 in Auditorium 2
Session 4: FI-PPP Phase II Usage Areas – Fostering Smart Cities through e-health, smart energy, smart manufacturing, smart transport, smart logistics, smart agri-food and smart media applications and services

15:45 - 17:10 in Auditorium 2
Session 5: FI-PPP's exploitation plans, business models, standardization, sustainability and future plans

Day 2 – Conference: „Smart Communication Platforms for Emerging Smart Cities"

9:00 - 11:00 in Auditorium 1
Session 1: Status Quo of Fixed and Mobile Broadband Deployment and Evolution Path

11:30 - 12:45 in Auditorium 1
Session 2: From IMS/RCS to Seamless Multimedia OTT Services on top of Virtualized Network Infrastructures

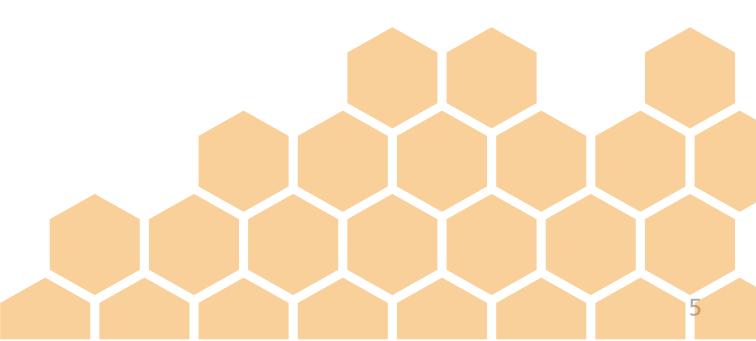**Lunch Break**

13:30 - 14:00 in Auditorium 1
Panel: Do we need common Smart Communication platforms or will Smart Cities finally be a loose aggregation of Smart Services?

14:00 - 15:00 in Auditorium 1
Session 3: M2M Communications – Fixed versus Mobile M2M enabling the Internet of Things

15:30 - 17:20 in Auditorium 1
Session 4: Integration of M2M and H2H Communications within Smart City Infrastructures

Day 1

Day 1 – Tutorials and Workshops

8:30	**Registration**	
10:00 - 13:00	**Tutorial 1:** Understanding NGN Control and Service Platform Evolution – SDP/IMS/MTC/EPC vs. Clouds/OTT/WebRTC/HTML5 *Thomas Magedanz, Fraunhofer FOKUS/Technische Universität Berlin,* *Niklas Blum, Fraunhofer FOKUS*	**Auditorium 1**
10:00 - 13:00	**Tutorial 2:** M2M Communication Evolution: Motivation, Standards, Applications and Tools for M2M and Internet of Things *Konrad Campowsky, Fraunhofer FOKUS* *Adel Al-Hezmi, Fraunhofer FOKUS*	**Seminar room 1**
10:00 - 13:00	**Tutorial 3:** Getting started on your Core Network Evolution using OpenEPC: SDN and NFV *Dragos Vingarzan, Fraunhofer FOKUS* *Marius Corici, Fraunhofer FOKUS*	**Seminar room 2**
13:00 - 13:45	Lunch break/Demos	

(Workshop 1, Workshop 2 and Workshop 3 run concurrently)

	Workshop 1: VoLTE/RCS vs. OTT: Challenges and Advances for Launching Successful Fixed and Mobile Broadband Services **Chairs:** *Niklas Blum, Fraunhofer FOKUS,* *Axel Küpper, Technische Universität Berlin*	**Auditorium 1**
13:45 - 15:15	**Session 1:** Telco Perspective: RCS/VoLTE & NGN Deployments	

- Voice Evolution towards VoLTE - Challenges & Opportunities
  Günther Pospischil, A1 Telekom, Austria

- Evolution and Challenges for Telco-owned Communication Services
  Ingo Ehlen, Vodafone Group Services GmbH, Germany

- Towards Quality and QOS Assessment for VoLTE in ETSI
  Giulio Maggiore, Telecom Italia, Italy / ETSI TC INT Chairman, France

- How to combine RCS and WebRTC
  Emmanuel Bertin, Orange Labs, France

- WebRTC Integration in Telco Networks
  Joachim Stegmann, Telekom Innovation Laboratories, Germany

15:15 - 15:45	Coffee break/Demos

15:45 - 17:10   **Session 2:** OTT & Service Perspective: Cloud Services and WebRTC

- Latest Innovations for Real-time Communications from the Web
  Serge Lachapelle, Google, Sweden

- Hypervoice - How do we add value to voice?
  Martin Geddes, Hypervoice Consortium, UK

- Opportunities for Integrating OTT Players into the Operator Infrastructures
  Giovanni Benini, Tyntec, Germany

- Experiences from OTT over Mobile Broadband Networks
  Alois Widmann, mVoIP Factory, Germany

- Cloud-based Real-time Communication Services
  Naoki Uchida, NTT Service Evolution Laboratories, Japan

- Elastic Cloud Platforms for Interactive, Social Multimedia Communication
  Luis López Fernández, University Rey Juan Carlos, Spain

Day 1   P R O G R A M

17:10 - 18:00	**Panel discussion:** Tackling Time to Market for Telco Service Provisioning – Platform Requirements and Business Opportunities

Giulio Maggiore, Telecom Italia, Italy / ETSI TC INT Chairman, France
Giovanni Benini, Tyntec, Germany
Serge Lachapelle, Google, Sweden
Alex Ibasco, Voyager Innovations, Smart Communications, Phillipines
Ingo Ehlen, Voice Communications, Vodafone Group Services GmbH, Germany
Marcus Dormanns, GSMA, Germany
Erik Pras, Dialogic, Netherlands

	Workshop 2: M2M Communication Forum **Chair:** *Adel Al-Hezmi, Fraunhofer FOKUS*	**Seminar room 1**
13:45 - 15:15	**Session 1:** M2M Platforms and Enabling Capabilities *Jürgen Hase, Deutsche Telekom, Germany*	

- M2M – Going beyond connectivity / Deutsche Telekom M2M Market Approach
  Andrzej Ochocki, VP Technology and Operations at Deutsche Telekom, M2M Competence Center, Deutsche Telekom, Germany

- Smart M2M – Intelligent Business Process Control
  Tom Gufler, M2M Products & Operations, Telefónica Germany GmbH & Ko. OHG, Germany

- Smart Platforms to address enterprise demands
  Jens Hundertmark, Communication Services in Western Europe, Ericsson GmbH, Germany

- M2M standards consolidation: the role of one M2M architecture
  Omar Elloumi, M2M and Smart Grid standards, Alcatel-Lucent Bell Labs, France

- Smart Platforms to address enterprise demands
  Jens Hundertmark, Communication Services in Western Europe, Ericsson GmbH, Germany

- Semantic interoperability as the next key enabler
  Peter Friess, European Commission Brussels, Belgium

- Getting an M2M Product to Market – Regulatory and Certification Requirements
  Joe Lomako, Underwriters Laboratories, UK

15:15 - 15:45   Coffee break/Demos

15:45 - 17:10   **Session 2:** M2M Services & Applications
Timo Pötzelberger, M2M, Telefónica Germany GmbH & Co. OHG, Germany

- Creating value from applications and data in M2M: New tipping points for M2M connections
  Emil Berthelsen, Machina Research, GB

- Low-energy Machine-to-Machine communication system
  Mitsuru Hirakawa, Sumitomo Electric Industries, Japan

- How to get plug and play working in the Internet of Things
  Stefan Vaillant, Cumulocity GmbH, Germany

- M2M: Delivering Smart Living Services in Qatar and Gulf Region
  Adnan Abu-Dayya, Qatar Mobility Innovations Center (QMIC), Qatar

- An Experiment of Building IoT/M2M Application with OpenMTC
  Fuchun Joseph Lin, NCTU, Taiwan

Day 1   P R O G R A M

17:10 - 18:00	**Panel discussion:** Big Hopes, Small Steps - The M2M Market in Face of Smart Cities, Value Chain Fragmentation, Internet of Things, and global Standardization Chair: *Jürgen Hase, Deutsche Telekom, Germany*	

Omar Elloumi, Alcatel-Lucent Bell Labs, France
Tarik Taleb, NEC Europe Ltd, Heidelberg, Germany
Timo Pötzelberger, M2M, Telefónica Germany GmbH & Co. OHG, Germany

	Workshop 3: Evolution of the Operator Networks beyond EPC: SDN and NFV **Chairs:** *Thomas Michael Bohnert, ZHAW, Switzerland* *Julius Müller, TU Berlin/Fraunhofer FOKUS,* *Marius Corici, Fraunhofer FOKUS*	**Seminar room 2**
13:45 - 15:15	**Session 1:** What do NFV and SDN mean for Telecom Networks?	

- Optimized offload control with Liquid Applications
  Wolfgang Hahn, Nokia Siemens Networks, Germany

- RISE: a Wide-area OpenFlow/SDN Testbed on JGN-X,
  Eiji Kawai, Network Testbed R&D Laboratory, NICT, Japan

- SDN and NFV - The ONF Perspective
  Peter Feil, T-Labs/Open Networking Foundation (ONF), Germany

- Network Functions Virtualisation: short term challenges and long term implications
  Bruno Chatras, Orange Labs, France

- SDN-Enabled Access and Aggregation
  Tomo Bogataj, Iskratel, Slovenia

- The Virtual Set-Top-Box: A NFV Killer Application?
  Oliver Friedrich, Deutsche Telekom AG, T-Labs (Research & Innovation), Germany

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15:15 - 15:45   Coffee break/Demos

15:45 - 17:10	**Session 2:** Mobile Cloud Networking: A glimpse in the future of Telecom **Keynote**: Turning the Mobile Network into a MobileCloud *Thomas Michael Bohnert, ZHAW, Switzerland*

- Next-generation services enabled by Network Virtualization.
  Jorge Carapinha, Portugal Telecom (PT), Portugal

- RAN on-demand. The MCN approach for a Cloud Computing-Based LTE network
  Dominique Pichon, Orange Labs, France

- EPC-as-a-Service: elastic mobile networks in the Cloud
  Simone Ruffino, Telecom Italia, Italy

- Turning infrastructure into services. A public cloud provider perspective.
  Alex Georgiev, CloudSigma AG, Switzerland

17:10 - 18:00	**Panel discussion:** Is network cloudification the brave new world of telecommunications? Chair: *Thomas Michael Bohnert, ZHAW, Switzerland*

Jorge Carapinha, Portugal Telecom (PT), Portugal
Dominique Pichon, Orange Labs, France
Simone Ruffino, Telecom Italia, Italy
Alex Georgiev, CloudSigma AG, Switzerland

18:00 - 18:15   Departure of shuttle service to event location

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19:00   **Social Event**
Conference guests are invited to get to know each other at the event location *ADAGIO*.
(further information on page 21)

Keynote*:* New Strategies for Network Operators to assure Innovation and Sustainability in a new Competive Environment / Smart Cities
Heinrich Arnold, Deutsche Telekom AG, Germany

P R O G R A M

Day 1 – International FI-PPP Workshop –

Status Quo and Outlook on Phase III

8:30	**Registration**	

10:00 - 10:55	**Session 1:** The FI-PPP and Smart Cities: From validation to large-scale trials. Upcoming opportunities for SMEs	**Auditorium 2**

The Audience:

▪ will be introduced to the FI-PPP program as a whole, its relevance for Smart Cities and the European Future Internet.

▪ will receive an overview of current FI-PPP projects as well as an outlook on upcoming phases, with focus on opportunities for SMEs.
Ragnar Bergstrom, Future Internet PPP, Europain Commission, Belgium

▪ will get an insight into the European landscape of FI experimental infrastructures.
Martin Potts, Martel GmbH, Switzerland

10:55 - 11:30	**Session 2:** The Future Internet Core Platform – providing a framework for the development of smart applications in the Future Internet Status Quo and Quo Vadis?	**Auditorium 2**

▪ Overview of the status of the FI-PPP core platform: Enablers, the GE catalogue, specifications, capabilities and testbeds and its importance for the Usage Areas and upcoming phases.
The Open Innovation Lab: The opportunity for Internet application developers and entrepreneurs to test cutting edge technology and to develop innovative applications utilizing Generic enablers of the FI-PPP Core Platform.
Pierangelo Garino, Telecom Italia, Italy

11:45 - 13:00	**Session 3:** FI-PPP Phase II European Node Deployments – paving the way for the establishment of a common European market for large-scale trials for Future Internet and Smart Cities through the creation of a sustainable pan-European federation of Future Internet test infrastructures Status Quo and Quo Vadis?	**Auditorium 2**

- Overview of the status of the FI-PPP core platform deployments and importance for the Phase II projects and upcoming phases.
  Boris Moltchanov, Telecom Italia, XIFI, Italy

- The Irish, Italian, French, Spanish and German FI-PPP Node will demonstrate their capabilities, offered Generic Enablers, enabled use-cases and provide short demonstrations
  Eamonn Power, Telecommunications Software & Systems Group, Ireland
  Antonio Fuentes Bermejo, XIFI, Spain
  Matthias Baumgart, Telekom Innovation Laboratories, Germany

13:00 - 13:45	Lunch break/Demos

13:45 - 15:15	**Session 4:** FI-PPP Phase II Usage Areas – Fostering Smart Cities through e-health, smart energy, smart manufacturing, smart transportation, smart logistics, smart agri-food and smart media applications and services Status Quo and Quo Vadis?	**Auditorium 2**

- E-Health Usage Area in the FI-PPP, Overview and Status Quo
  Stefan Covaci, FI-STAR, Germany

- Smart Energy Usage Area in the FI-PPP, Overview and Status Quo
  Padraic McKeever, E.ON Energy Research Center/RWTH Aachen University, Germany

- Manufacturing Usage Area in the FI-PPP, Overview and Status Quo
  Oscar Lazaro, Innovalia Association, Spain

- Transport, logistics and agri-food Usage Area in the FI-PPP, Overview and Status Quo
  Sjaak Wolfert, LEI (Agricultural Economics Research Institute), The Netherlands

- Networked media, including gaming Usage Area in the FI-PPP, Overview and Status Quo
  Robert Seeliger, Fraunhofer FOKUS, Germany

15:15 - 15:45	Coffee break/Demos

Day 1   P R O G R A M

15:45 - 17:10	**Session 5:** FI-PPP's exploitation plans, business models, standardization, sustainability and future plans – Status Quo and Quo Vadis?	**Auditorium 2**

- The current status of FI-PPP's business models, exploitation plans, standardization efforts and efforts towards sustainability
  Thomas Michael Bohnert, ZHAW, Switzerland

- Initiatives outside the FI-PPP:
  • The European Future Internet Research and Experimentation Initative (FIRE) will present an overview about their Future Internet testbeds, testbed federations and their potential offers for experimentation and testing
  Anastasius Gavras, Eurescom, Germany
  • The European Institute of Innovation & Technology's ICT Lab will present their ideas and approach for sustainability for European Future Internet testbeds and the potential benefit for the FI-PPP – "Towards sustainable Future Internet testbeds for Europe's ICT Education, Research, and Innovation"
  Udo Bub, EIT ICT Labs, Germany

17:10 - 18:00	**Panel Discussion:** The future of the FI-PPP, exploitation plans, business models, standardization and sustainability	**Auditorium 2**

Martin Potts, Martel GmbH, Switzerland
Anastasius Gavras, Eurescom, Germany
Boris Moltchanov, Telecom Italia, XIFI, Italy
Thomas Michael Bohnert, ZHAW, Switzerland
Udo Bub, EIT ICT Labs, Germany
Ragnar Bergstrom, Future Internet PPP, Europain Commission, Belgium
Pierangelo Garino, Telecom Italia, Italy

18:00 - 18:15   Departure of shuttle service to event location

19:00   **Social Event**
Conference guests are invited to get to know each other at the event location *ADAGIO*.
(further information on page 21)
Keynote*:* New Strategies for Network Operators to assure Innovation and Sustainability in a new Competive Environment / Smart Cities
Heinrich Arnold – Deutsche Telekom AG, Germany

Day 2 – Conference

8:00	**Registration**	

9:00	**Opening:** *Thomas Magedanz, Fraunhofer FOKUS/Technische Universität Berlin* *Radu Popescu-Zeletin, Fraunhofer FOKUS, Germany*	**Auditorium 1**
	Keynote: Smart Cities and the Role of Smart Communication Platforms *Radu Popescu-Zeletin, Fraunhofer FOKUS, Germany*	

09:30 - 11:00	**Session 1:** Status Quo of Fixed and Mobile Broadband Deployment and Evolution Path **Chair:** *Noël Crespi, Directeur d'Etudes Responsable du groupe Architecture de Réseaux et Services CNRS samovar lab, Telecom SudParis, France*

- From LTE towards cloud-based RANs
  Andreas Jungmaier, Vodafone, Germany

- Single Core Infrastructures for Fixed and Mobile Service Access
  Karsten Schröder, Telefónica Germany GmbH & Co. OHG, Germany

- The Software Defined Operator
  Franz Seiser, Core Network and Services, Deutsche Telekom AG, Germany

11:00 - 11:30	Coffee break/Demos

11:30 - 12:45	**Session 2:** From IMS / RCS to Seamless Multimedia OTT Services on top of Virtualized Network Infrastructures **Chair:** *Wolfgang Kellerer, Technische Universität München, Germany*

- An Update of NGMN Activities – New Architectures – 4G Evolutions
  Rémi Thomas, Orange, France

- Open Networking – Challenges and Approaches
  David Boswarthick, European Telecommunications Standards Institute (ETSI), France

Day 2   P R O G R A M

- Challenges of real-world deployments of rich communications services
  Nuno Costa, WIT Software/Vodafone Group, Portugal

- Real business models for large-scale M2M
  Iain Morris, International M2M Council, UK

- OneAPI Exchange – the next step in cross-operator network APIs for 3rd party services
  Marcus Dormanns, GSMA Germany

| 12:45 - 13:30 | Lunch break/Demos |

13:30 - 14:00 — **Panel:** Do we need common Smart Communication platforms or will Smart Cities finally be a loose Aggregation of Smart Services?
Chair: *Anastasius Gavras, Eurescom, Germany*

Peter Fatelnig, European Commission, Belgium
Thomas Kessler, Detecon Asia-Pacific, Thailand
Marcus Dormanns, GSMA, Germany
David Boswarthick, European Telecommunications Standards Institute (ETSI)
France Joddy Hernady, PT Telkom, Indonesia
Teerapon Tanomsakyut, True Corporation Public Company Limited, Thailand

14:00 - 15:00 — **Session 3:** M2M Communications – Fixed versus Mobile M2M enabling the Internet of Things
Chair: *Stefan Fischer – University of Lübeck, Germany*

- Developments on optimization for machine-type communications in 3GPP
  Toon Norp, TNO Information and Communication Technolgy, Netherlands

- An Overview of current DTAG M2M Activities
  Jürgen Hase, M2M Competence, Deutsche Telekom, Germany

- Vertical deployment of M2M solutions
  Jürgen Nagel, M2M, Telefónica Germany GmbH & Ko. OHG, Germany

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15:00 - 15:30   Coffee break/Demos

15:30 - 17:20   **Session 4:** Integration of M2M and H2H Communications within Smart City Infrastructures
Chair: *Serge Fdida, LIP6, France*

- Status Quo of the European Future Interent Initiative – Enabling Innovative Smart City Infrastructures and Services
  Peter Fatelnig, European Commission, Belgium

- Making use of FI PPP Core Platform Enablers for European Smart City Applications
  Pierangelo Garino, Telecom Italia, Italy

- First Experience in Smart City Service Implementations
  Joachim Schonowski, Tlabs, Deutsche Telekom, Germany

- Preparing SDPs for Smart City Services in Bali and Indonesia
  Joddy Hernady, PT Telkom, Indonesia

- Establishment of a Smart Communications Infrastructure for a Smart Philippines
  Alex Ibasco, Voyager Innovations, Smart Communications, Philippines

- True Innovation Center Ambitions to implement Smart Cities
  Teerapon Tanomsakyut, True Corporation Public Company Limited, Thailand

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17:20 - 17:30   Closing and Farewell

DEMONSTRATIONS

Demonstrations

During coffee and lunch breaks different demonstrations will be available to FUSECO Forum guests. They will be shown in the demo rooms (see site plan on page 22).

All demonstrations run concurrently:

November 28, 2013	*November 29, 2013*
Lunch break: 13:00	Coffee break: 11:00
Coffee break: 15:15	Lunch break: 12:45
After last session: 18:00	Coffee break: 15:30

Demonstration 1 (2nd floor)

OpenEPC Rel. 5 – Comprehensive Mobile Case Networks with 2G, 3G, LTE

This demo presents selected aspects of the new OpenEPC in Rel. 5, which contains novel features related to the integration of the different real radio access networks providing a comprehensive testbed mirroring the operator networks through the usage of common devices and cost efficient LTE, 3G, 2G and WiFi radio network solutions. Additionally, OpenEPC Rel. 5 will integrate novel features implementing state-of-the-art paradigms related to Software Defined Networks (SDN) and Network Functions Virtualization (NFV), fostering the understanding, the evolution, and the acceptance through practical proof of concepts of control-data plane separation using OpenFlow.

Demonstration 2 (2nd floor)

OpenMTC – MyRehab EHealth application demo

We are showing how an M2M middleware platform – in this case the OpenMTC framework – can be used to seamlessly integrate third party applications which can then trasparently benefit from additional functionality without having to be extended or adapted.
In this particular case, the third party application

(MyRehab) benefits from OpenMTC's wide range of network management and control functions that have been introduced with its 2nd release through interworking with the OpenEPC software.
The use case that is shown to demonstrate this is an EHealth scenario in which different traffic streams are handled and forwarded differently depending on their priority.

Demonstration 3 (2nd floor)

OpenMTC – Smart Homes Demo

The objective of the smart homes demo is to demonstrate the OpenMTC functionalities by means of a smart monitoring application, which monitors the energy production and consumption in an arbitrary number of buildings at a certain area in the city, each connected through an OpenMTC home gateway component. The user can zoom in on a particular building and discover the energy consumption of individual appliances and possibly to control them.
This has been realized based on an integrated solution covering the OpenMTC-enabled enyport smart-home gateway and the OpenMTC backend server mediating the interactions between the application and the OpentMTC home gateway.

Demonstration 4 (2nd floor)

OpenSDNcore Platform

This demo illustrates the features of the novel Fraunhofer FOKUS OpenSDNcore platform. The demonstration includes the following self-adaptation features addressing the massive broadband communication for both between end-subscriber and data centers as well as between different data centers:

- Self-adaptable data flow placement based on network topology
- Self-adaptable network functions placement based on the specific service requirements, network and infrastructure topology

DEMONSTRATIONS

- Flexible routing of data packets (w/o QoS reservations)

Additionally, an evolution path from the current 3GPP Evolved Packet Core (EPC) towards a novel operator core network architecture will be demonstrated through the run-time adaptation of OpenEPC network topology and the dynamic data traffic steering.

Demonstration 5 (2nd floor)

FUSECO Playground: One-Stop-Shop for Fixed/Mobile Broadband, M2M & Cloud Testing and Validation

Multi-technology testbed uniting:
- The OpenMTC – based on the ETSI M2M standards, enabling Machine Type Communication systems
- The OpenEPC, a prototype implementation of the Evolved Core inspired by 3GPP Release 11 enabling Mobile Broadband Applications
- Open Source IMS Core – key technology enabling VoLTE and RCS and next generation communication services
- OpenStack-based Cloud Testbed – enabling IaaS and PaaS

Advanced tools for testing, monitoring, test control, remote usage and federation with external testbeds.

Demonstration 6 (ground floor - room 0.009)

Demonstrating a Smart City Use Case deployed on the German FI-PPP Node

This showcase will depict how to deploy a service using the enablers provided by the XIFI federation. The scenario(s) are related to the smart city service domain, particularily to the smart Living & smart Health domain. Depending on the available enablers and provided sensor's we will demonstrate how to use emergency data in an urban development and to include communication and connectivity services (e.g. WebRTC) as part of the showcase.
The showcase focuses on a mobile scenario and is based on an „medical service button", which could be provided as a „hotkey" on a smart phone. Once the smartphone owner presses the „hot key" automatically the location information is requested. Initially the location shall be provided via GPS.
But in case the GPS signal is missing (e.g. inhouse situation), the location information from the operator network is demanded (cellID, tracking area) to locate the user immediately. An important aspect of this showcase is a reliable IP connection using the best available mobile access technologies, e.g. UMTS/LTE or WIFI (provided by the Berlin node). The connection is used to transport sensitive or non-sensitive medical information, e.g. blood pressure which could be a M2M message. In addition a WebRTC based Video / VoIP IP connection establishment between the patient's mobile device and the pre-installed or (nearest) medical service team with guaranteed service shall be possible. As an add on, the call information could be logged and stored, including a copy of multimedia data generated during the session.

Demonstration 7 (2nd floor)

Rich Multimedia Communication Services for the Web and Telecom Environments

This demo illustrates how audio/video multiparty communication services can be enriched with various features to meet domain-specific requirements. We are showing how additional information as overlay drawing may be used to enrich real-time video calling and, vice versa, how real-time communication can be used to enrich other services as e.g., Google Maps for additional interaction. Service frontends are based on browser-based WebRTC and Android RCS clients. The backend service is provided as an IMS service with additional WebSocket-based signalling for the web.
The scenario of the demo will show an E-Health use case and how the enriched WebRTC clients can help doctors and patients to manage their daily medical checks and routines.

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Exhibition

Six different exhibits will be shown in the exhibition area
(see site plan on page 22):

1.

Dialogic (Gold Sponsor)

2.

Iskratel (Silver Sponsor)

3.

Kapsch (Silver Sponsor)

4.

FI-STAR (Supporter)

5.

European Space Agency (Supporter)

6.

Mobile Cloud Network (Supporter)

INFORMATION

Information for Participants

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

Reception desk hours are:

Thursday, November 28:   08:30 -18:30

Friday, November 29:   08:00 -18:00

If the reception desk is closed you may contact us by phone at: +49 151 42677756

Venue
Fraunhofer Institute for Open Communication Systems FOKUS
Kaiserin-Augusta-Allee 31
10589 Berlin, Germany

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

Name: FOKUS-guests
Login: fff2013
Password: fuseco2013

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.

Books
„Evolution of Telecommunication Services –
The Convergence of Telecom and Internet:
Technologies and Ecosystems"
Emmanuel Bertin, Noel Crespi, Thomas Magedanz

is available for download at

http://link.springer.com

Code:
R5eXXYHoybYQSMImfDtBVHBhuXw

Event Minutes & Pictures
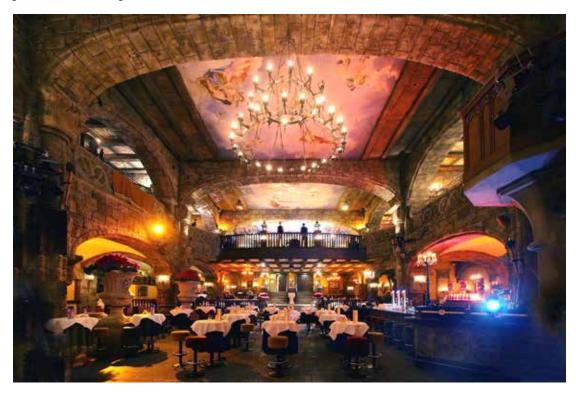Event minutes can be seen after the event at

www.fuseco-forum.org/minutes

Pictures of the event will be shown at

www.fuseco-forum.org/pictures

SOCIAL EVENT

Social Event
Thursday, November 28, 19:00
Conference guests are invited to get to know each other at the event location *ADAGIO*.
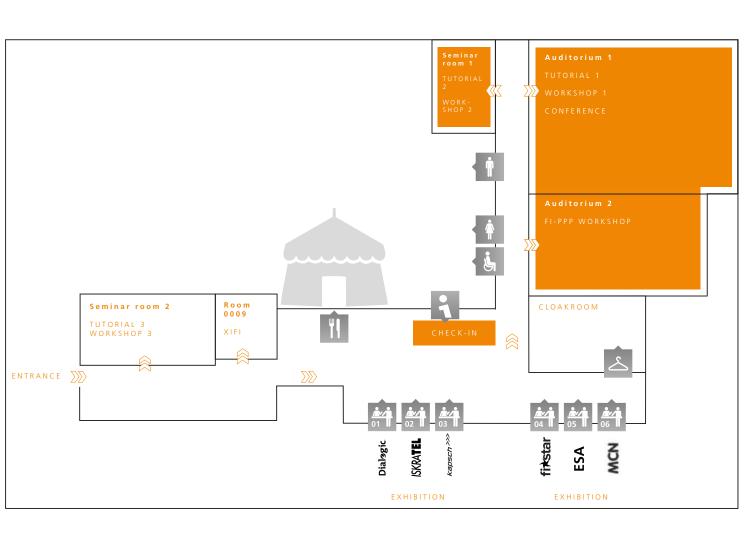

ADAGIO
Marlene-Dietrich-Pl. 1
10785 Berlin-Mitte
adagio.de

The shuttle service to the event location departs at 18:15 from the Fraunhofer Institute. Afterwards the shuttle will depart from event location *ADAGIO* with stops at
  → *Hauptbahnhof* railway station
  → *Fraunhofer Institute*

SITE PLAN

Seminar room 1

TUTORIAL 2

WORK-SHOP 2

Auditorium 1

TUTORIAL 1

WORKSHOP 1

CONFERENCE

Auditorium 2

FI-PPP WORKSHOP

CLOAKROOM

Seminar room 2

TUTORIAL 3
WORKSHOP 3

Room 0009

XIFI

CHECK-IN

ENTRANCE

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Venue at

Fraunhofer Institute for Open Communication Systems (FOKUS)
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