KuVS

NGSDP Expert Talk

9th KuVS NGSDP Expert Talk – 9. KuVS Fachgespräch on Next Generation Service Delivery Platforms: "Machine to Machine Communications Platforms, Applications and Standards"

http://www.kuvs-ngsdp.org
Berlin, Germany, 9 April 2014 @ Fraunhofer FOKUS
in conjunction with the OneM2M technical plenary meeting

Event Chairs

Thomas Magedanz
Fraunhofer FOKUS/TU Berlin, Germany
Adel Al-Hezmi
Fraunhofer FOKUS, Germany

Coordinators

Thomas Magedanz
Technische Universität Berlin, Germany
Wolfgang Kellerer
Technische Universität München, Germany

Steering Board

Heinrich Arnold
Deutsche Telekom AG - Laboratories, Germany
Wolfgang Kellerer
Technische Universität München, Germany
Thomas Magedanz
Technische Universität Berlin, Germany
Karsten Schröder
Telefónica o2 Germany
Henning Schulzrinne
Columbia University, USA
Walter Häffner
Vodafone D2 GmbH, Germany

Important dates:

Abstract registration: **Feb 19, 2014**
Abstract submission: **Feb 26, 2014**
Notification of acceptance: Mar 19, 2014

KuVS Workshop: Apr 9, 2014

Technische Universität Berlin

Fraunhofer FOKUS

Gesellschaft für Informatik

ITG INFORMATIONSTECHNISCHE GESELLSCHAFT IM VDE

We would like to announce the 9th Workshop (Fachgespräch) on Next Generation Service Delivery Platforms, "Machine to Machine Communications Platforms, Applications and Standards", of the GI/ITG specialist group on Communications and Distributed Systems "Kommunikation und Verteilte Systeme (KuVS)". The objective of this series of workshops to support intense discussions among researchers from industry and academia in this challenging area gluing together applications and different network types.

Scope: Machine-to-Machine communication will enable the Internet of Things (IoT) to talk, contributing to smarter and greener environments, which are essential to address economic, social, and environmental challenges due to the increase in urbanization, requiring informed decisions based on large amounts of generated data. Rapidly, more and more devices are being added to the networks. Estimations show that by the end of 2020 there will be 50 billion connected devices to the IoT world-wide. Almost any kind of these devices will be allowed to seamlessly integrate into a large-scale Machine-to-Machine (M2M) communication environment. In contrast to human-to-human (H2H) and human-to-machine (H2M) communication (which mainly involves multimedia sessions, web browsing, and remote control), M2M provides the opportunity of deploying completely new services. Open M2M platforms are being developed to implement middleware aiming to provide services for heterogeneous requirements, thus avoiding vendor-locking stove-pipe solutions, acting as a horizontal convergence layer supporting multiple vertical application domains such as transport and logistics, utilities, automotive, eHealth, etc. which may be deployed independently or as part of a common platform. With the further convergence of communications, M2M solutions however need to coexist and share resources with H2M and H2M systems.

This KuVS expert talk provides a platform for researchers and practitioners to address and discuss challenges and proposed solutions to the open and upcoming issues in M2M, as state-of-the-art solutions and work in progress. Participants, interested to present their research results at this meeting are asked to submit their abstract paper including a 5-10 lines summary, as instructed below.

Topics of Interest are not limited to:

- M2M Emerging technologies
- M2M Modelling and Design
- M2M Platforms, Frameworks, Gateways, APIs
- M2M aspects of Smart Energy, Utility Providers, Smart Homes, Smart Anything
- M2M Privacy and Security, Identification and Authentication
- M2M Performance, Scalability, Reliability
- M2M and Affordability
- M2M Standardisation progress
- M2M Mobility aspects
- Industrial requirements, upcoming business cases, Experimental Testbeds for communication, integration, deployment and federation
- Virtualizing M2M resources (sensors + actuators)
- Platforms requirements to delivery merged M2M and H2M services
- Integration models for M2M and H2M applications
- Sharing and accessing open data space
- Inter-domain and Cross-layer Composability of M2M and H2M enablers

Abstract Submission:

Abstract submissions must present original, research or experiences. Late-breaking advances and work-in-progress reports from ongoing research are also encouraged to be submitted. Authors are requested to submit abstracts limited to 3 pages (including a 5-10 line summary and references) in A4 format, 2-column, and submit them to <papers@kuvs-ngsdp.org> until 19 Feb 2014.

Presentation:

Authors of accepted submissions are expected to present their approaches during the event.

Registration is free of charge and open, please register via email to <papers@kuvs-ngsdp.org>
Please direct your questions to the Event Chairs:
Thomas Magedanz <thomas.magedanz@fokus.fraunhofer.de>,
Adel Al-Hezmi <adel.al-hezmi@fokus.fraunhofer.de>