

**Related IST project:**

IST-MUSE

**Indication of the length of the workshop:**

half day

**Title of the proposed workshop:**

MUSE SUMMER SCHOOL 2007 - Fixed-Mobile Convergence from the Access Networks perspective

**Workshop coordinator:**

Csaba Lukovszki

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**Registration:**

The attendance is free but registration is required. Please send your registration to:

E-mail: *info@hte.hu*, Tel: +36 1 353 1027, Fax: +36 1 353 0451

with the following subject: *MUSE summer school 2007 Registration*

and with *your name* and *your e-mail address* in the text.



## MUSE SUMMER SCHOOL 2007

### "Fixed-Mobile Convergence from the Access Networks perspective"

Budapest, Thursday 5 July 2007

Organized by Budapest University of Technology and Economics, partner in MUSE project (<http://www.ist-muse.org>)  
Co-located with IST-Mobile Summit 2007 (<http://www.mobilesummit2007.org>)

MUSE school is a quarterly event that is aimed to share achievement of MUSE projects. This event focuses on the Fixed-Mobile Convergence scenarios from the Access Networks perspective. MUSE is a large integrated R&D project on Broadband Access within the 6th Framework Programme. The overall objective of MUSE is the research and development of a future, low cost, multi-service access network. MUSE aims at a consensus view of the future access and edge network achieved by the co-operative research of almost all major players in Europe in the area of Broadband Access. The project addresses the network architecture, techno-economics, access nodes, solutions for the first mile, and interworking with the home network. Solutions will be evaluated in end-to-end lab trials and promoted in standardisation.

#### Program:

##### 8.30 - 8.50 **Registration**

Registration is Free! For each registered attendant lecture notes will be provided.

##### 8.50 - 9.00 "**Welcome address and Introduction of Project MUSE**", Csaba Lukovszki (BME)

##### 9.00 - 9.45 "**Introduction to the MUSE FMC network architecture**", Dávid Jocha (ERICSSON)

The presentation will introduce the audience to the MUSE access network solution. Our vision about how people will use the access networks in the near future (use-cases) and the expectations on the networks (requirements) will be presented. The players in a multi user, multi service, multi provider environment will be discussed (business roles). As a solution to the presented problem we will introduce the MUSE FMC architecture. Specific details of the solution will be presented in following sessions.

##### 9.45 - 10.30 "**MUSE Policy Control Framework in FMC**", Govinda Rajan (ALCATEL-LUCENT)

Multiple network domains are ubiquitous in FMC services. In order to be able to provide a good user experience, it is important that in each domain the appropriate service & network resources are allocated. Since the different domains are usually operated and/or owned by different business players, SLA's are indispensable. These SLA's define among others, the bandwidth, QoS, user preferences, user subscription details, etc. called policies. The MUSE Policy Control Framework addresses the requirements for supporting the mobile and nomadic services in Access Networks to enable seamless and quick session transfer. The lecture will describe the types of policies, how the policies are transferred between the different domains and how they are applied to provide different FMC services. A few detailed FMC service scenarios will be analyzed step-by-step with respect to policy transfer & policy enforcement.

##### 10.30 - 11.00 **Coffee Break**,

Some refreshments will be served for the attendants.

##### 11.00 - 11.45 "**Mobility Management in FMC**", Arkadiusz Sitek (TELEKOMUNIKACJA POLSKA)

The FMC is expected to provide ubiquitous broadband connectivity via heterogeneous access networks both mobile (3GPP, WiMAX, WiFi) and fixed (WiFi backhauled with xDSL/FTTx, Fixed Ethernet). To make it a reality a number of challenges must be faced resulting in the unified architectures for AAA, PCC and QoS. Additionally, FMC requires mobility to be managed between all types of access networks to provide seamless user experience. The lecture will focus on Mobility Management techniques developed within IST MUSE project aiming session continuity, seamless mobility and roaming in heterogeneous FMC environment.

##### 11.45 - 12.30 "**Security in the FMC environment**", Enrique Areizaga Sanchez (FUNDACIÓN ROBOTIKER)

The current internet, mobile, fixed and broadcasting networks infrastructure need to progress accordingly in order to deliver the next generation of ubiquitous and converged network and service infrastructures for communication. This entails overcoming the security bottlenecks arising from the fact that networks are not longer static neither the users are always connecting from the same location. This lecture will cover some of the challenges on security to enable the new services as "nomadism" and "always best connected" in the Fixed Mobile Convergence world.

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