



# IMS Technology

## 11. – 12.4.2010, Helsinki

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|---------------|--|
| Aika          | 11. – 12.4.2011  |
| Paikka        | Finnet-liitto ry, Sinebrychoffinkatu 11, Helsinki            |
| Yhteyshenkilö | Seppo Taipale, 044 722 8253, seppo.taipale@finnet.fi         |
| Kouluttaja    | Jussi Laakso, Upknowledge Oy                                 |
| Kieli         | Opetuskieli on suomi, kurssimateriaali on englanninkielinen. |

### Kurssin sisältö

#### IMS – Overview

- Services enabled by IMS
- Functionality in IMS
- Difference between IMS and IETF SIP
- Overall structure of an IMS network

#### SIP TECHNOLOGY IN IMS

- Background of SIP technology
- SIP concepts
- Main entities and functions in the generic IETF SIP architecture
- Request and responses in SIP communication
- Structure of a SIP address
- IETF SIP mobility registration principles

#### IMS OPERATION

- Structure of a 3GPP Release 6 IMS network
- IMS address types
- Mobility registration principles in IMS
- Session establishment principles in IMS
- Legacy network interoperability principles in IMS
- Inter-operator roaming principles in IMS
- IMS registration procedure flow
- IMS security procedures during registration
- SIP address types in registration procedures
- Basic session establishment message flow
- How SDP is used to describe IMS sessions
- IMS session modification
- IMS session release flow

#### IMS SERVICES

- Benefits of the IMS service architecture
- SIP application creation options in the IMS network
- IMS Service Control (ISC) interface
- OMA SIMPLE Instant Messaging (IM) and Presence Service (PS) services

#### Aikataulu

##### Maanantai 11.4.

08.30 Aamukahvi  
09.00 Kurssi alkaa  
11.30 Lounas  
14.30 Kahvi  
16.00 1. kurssipäivä päättyy

##### Tiistai 12.4.

08.30 Aamukahvi  
09.00 2. kurssipäivä alkaa  
11.30 Lounas  
14.30 Kahvi  
16.00 Kurssin päätös