

MOBILE TELEPHONY AND SMS IN LTE

Course Description

Mobile telephony and SMS services will continue to exist and thrive beyond 3G. However, their technical implementations will be different. Since the existing Circuit Switched systems are not part of the LTE network, the operators are given two alternatives:

To re-design the services so that they can work in an IP only network environment or

to continue using existing CS infrastructure by deploying 'fallback' or similar techniques. Both alternatives are explored from a technical perspective.

Content

LTE SYSTEM OVERVIEW AND SERVICE CAPABILITIES

RE-DESIGNING THE CS MOBILE TELEPHONY FOR LTE

- Basic IMS principles
- ICS, IMS Core systems
- Interworking with existing CS telephony
- UE and network requirements
- USIM support for IMS based services

RE-DESIGNING SMS INTO SIMPLE INSTANT MESSAGING, IM

- Pager and Session modes of operation
- Deferred messaging
- Interworking with existing SMS services

CS FALLBACK IMPLEMENTATIONS OPTIONS IN LTE

- Combined registration LTE and CS domain
- Call termination and origination



- SMS delivery with CS fallback
- ICIC and neighbor list updates
- UE and network requirements

THE VoLGA IMPLEMENTATION OPTION IN LTE

- Voice over LTE access using Generic Access principle
- System architecture of VoLGA
- UE and network requirements

Target audience

Target audience is product marketing and network engineers as well as project managers and network architects.

Pre-requisites

The participants should have basic LTE knowledge

Course length

2 days

Widermind communicates the knowledge you need to develop and implement new technologies for current and future network operations. Our clients are telecom operators, system integrators, system suppliers and consultancy firms.

Based in Stockholm, Sweden, we develop courses backed by a comprehensive network of associates. Our instructors employ technical and pedagogical skills that have made Widermind training well known and appreciated as one of the best services in the field.

You are warm welcome to contact our representatives at:

Email: info@widermind.com or telephone: +46 8 410 757 11

Widermind

Drottninggatan 89

113 60 Stockholm

Sweden

Telephone: +46 8 410 757 11

E-mail: info@widermind.com

www.widermind.com