

## 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.

This course explores both alternatives from a technical perspective.

### Who should attend?

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

### Course 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

Issued by <b>Carl Jonasson</b>	Date <b>15th of September 2009</b>	Checked by <b>Jesper Slettenmark</b>	Approved by <b>Björn Edlund</b>	Page <b>1 (2)</b>
		Document ID, Revision, Title <b>WID-AG09362-A Mobile Telephony and SMS in LTE.docx</b>		

#### CS FALLBACK IMPLEMENTATIONS OPTIONS IN LTE

- Combined registration LTE and CS domain
- C call termination and origination
- SMS delivery with CS fallback
- 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

#### CONCLUSIONS

### **Pre-requisites**

The participants should have basic LTE knowledge

### **Course length**

2 days

Issued by <b>Carl Jonasson</b>	Date <b>15th of September 2009</b>	Checked by <b>Jesper Slettenmark</b>	Approved by <b>Björn Edlund</b>	Page <b>2 (2)</b>
		Document ID, Revision, Title <b>WID-AG09362-A Mobile Telephony and SMS in LTE.docx</b>		