

## EXECUTIVE SEMINAR

### LTE /EPS

# Long Term Evolution/Evolved Packed System

#### Course Description

The LTE EXECUTIVE SEMINAR has been developed for marketing staff and executives working with the mobile system standard based on 3GPP LTE.

The seminar gives a system overview of the LTE/EPS (Long Term Evolution/Evolved Packed System). It provides high level details on the Network functions, enduser services and system prestanda.

Consistent comparisons are made to existing WCDMA technology, showing the added value from user and operator perspectives. Furthermore e g policy control and other LTE/EPS features and mechanisms are discussed.

#### Who should attend?

The seminar is developed for staff working with marketing, executives and project leaders.

#### Contents

Trends and Drivers for Mobile Broadband

Players in the LTE Standardisation Arena

Important LTE Spectrum related issues like

- Spectrum Flexibility
- Spectrum migration and re-farming
- Capacity and coverage planning aspects

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The overall EPS, Evolved Packet System

- EPS Overall Architecture
- Network Nodes and Functional Allocation
- Shared E-UTRAN scenarios
- Roaming Scenarios

Multi-antenna techniques specified for LTE

- Benefits of multi-antenna techniques
- Multi-antenna configurations

Mobility Management - Overview

- Intra LTE Mobility
- Mobility with other non-3GPP Access Systems (WLAN etc)
- Inter (3GPP) System Mobility (2G/3G/LTE)

EPC, Evolved Packet Core features

- Policy charging and control, PCC
- VCC, Voice call continuity and CS fallback/interworking
- LTE QoS classes and mapping to IP Diffserv classes
- Authentication and Security in EPC
- Mobile phone call set up (VoIP call session initiation)

Traffic Cases in LTE/EPS

- Network registration – Initial procedure
- Paging and Location update Procedures
- Throughput calculations for LTE

### **Pre-requisites**

The participants should have a good understanding of WCDMA and GSM Systems.

### **Length of Seminar**

1 day