

Training and Workshop

LTE Awareness

The world of telecommunication is constantly in motion. New technologies become available for implementations that spark new possibilities for services and applications. As a result, businesses and markets are searching ways to adapt to these developments. Getting to know the recent and future developments in telecommunication is essential. Rabi3n Consultancy offers a range of telecommunication training for network operators, service providers and telecom regulatory authorities.

Who we Are

Rabi3n Consultancy BV is an independent consultancy firm in Information and Communications Technology, based in the Netherlands. Rabi3n Consultancy has no ties or relations to system developers or software companies. Therefore we can be fully committed to the needs and requirements of our clients. We focus at the Telecommunication industry. Our clients are Telecom Operators, Service Providers, Telecom Regulators, Telecom solution/equipment suppliers. The company is founded in 1999 and privately held. Rabi3n Consultancy offers up-to-date training courses based on knowledge and expertise that is gained by our trainers in working with the latest developments in the telecommunication market.

The main areas of expertise that we work on are: Mobile Communication (GSM, GPRS, UMTS, WLAN, WiMAX, and LTE), International Roaming, Wholesale (MVNO, MNVE etc.), Broadband, Telecom and Data Infrastructure (xDSL, IP), VoIP, Billing & Payments, Telecom Business Processes, Number Portability and Numbering Management, and Interconnection. Rabi3n Consultancy has a wide international experience in providing telecommunication training as well as in providing consultancy.

Our approach to training

The training programs that we provide cover business as well as technical subjects. The trainers for the training courses that we provide are experts in their fields. The trainers are actively involved in the telecommunications industry and are up to speed with new business developments and new technologies. Their knowledge is far more than just textbook knowledge; they gained hands-on expertise in carrying out projects and assignments for customers. The trainers will discuss cases in the training and will explore the theory of telecommunications using examples from daily practice. Depending on the objectives of our clients we offer a broad range of subjects in the training program. Trainings can be tailor-made to meet the specific needs and requirements of our clients. Most of our training program are delivered in-house of clients.

LTE Awareness

Objective

The objective of the LTE awareness training is to give insight in the developments in Fourth Generation Networks (4G). The key radio and core network technologies will be presented, as well as the difference between existing GSM and UMTS networks and LTE networks. Improvements in LTE

compared to UMTS and HSPA will be analyzed, as well as the impact that LTE has on interconnection, billing, provisioning and international roaming. The programme in addition has a business case workshop in which the drivers for roll out will be analysed, and the scenarios for implementation and roll out.

TRAINING EXECUTION

De training is executed as class instruction. The trainers use PowerPoint presentation.

PROGRAMME LTE Awareness

The programme for the LTE awareness training is as follows:

Introduction and overview of LTE:

- The evolution in Mobile Communication
- What is 4G, What is LTE, LTE-Advanced
- Overview architecture
- Overview services
- Overview developments and improvements

LTE technology in het radio network:

- De architecture of the radio network
- Improvements compared to GSM/UMTS/HSPA
- New and improved technology in LTE (Access, modulation, eNodeB)
- FDD and TDD mode
- Spectrum, Use of Channels, Capacity management

LTE technology in het Core network

- The architecture of the core network
- Improvements compared to GSM/UMTS/HSPA
- The network elements in LTE, Enhanced Packet Core
- SAE, Service Architecture Environment
- The integration of VoIP
- IP Multimedia Subsystem (IMS)

The services in LTE

- Network services data and voice
- Data speed for LTE (uplink, downlink)

The Impact of LTE at business processes

- International roaming
- Interconnection
- Billing and Provisioning

Implementation of LTE: the scenarios

- LTE for data-only, or data and voice?
- OTT providers, VOPI/IMS integration



Status LTE worldwide

- Where is LTE available, network coverage
- Terminal Developments
- Spectrum Developments

The business Case LTE

- Market for LTE
- LTE drivers
- LTE cost components
- Threats and Risk for LTE roll out
- What are the LTE alternative

The time schedule for the training:

Time	duration	Subject
9.00-9.15	15 min	Introduction
9.15-9.30	15 min	Introduction and overview LTE
9.30-10.30	60 min	LTE in het Radio network:
10.30-10.45	15 min	Break
10.45-11.45	60 min	LTE in het Core network
11.45-12.30	45 min	The Services in LTE
12.30-13.30	60 min	Lunch break
13.30-14.15	45 min	The Impact of LTE at business processes
14.15-14.45	30 min	Implementation of LTE: the scenarios
14.45-15.15	30 min	Status LTE around the world
15.15-15.30	15 min	Break
15.30-16.30	60 min	Business Case for LTE, discussion
16.30-16.45	15 min	Summary and Wrap up
16.45-17.00	15 min	Closing of the training

For further information or for a proposal please contact us:

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