3 Day LTE Signaling Protocols (3GPP)

LTE Network Architecture and Signaling Protocols based on 3GPP

LTE is the most promising upcoming 4G technology for enabling 1Gbps on mobile broadband. This course explains the fundamentals, working principles and enabling features of LTE network architecture and signaling protocols as defined by 3GPP. The principles involved are compatible across multiple vendor platforms.



Day 1

LTE Network Fundamentals

- > A brief history of mobile network evolution
- Characteristics of mobile network
- LTE Network Architecture
- Overview of LTE signaling protocols

LTE Network Elements and Hardware

- Nodes and their roles
- Hardware features and functions

Day 2

Transport Layer

- Transport Network overview
- > IP applied in Transport Network
- Quality of Service applied in Transport Network

Signaling Protocols in Transport Layer

- > Headers and overhead of data packets
- > TCP, UDP, MTP3, IP packets, Ethernet frames, Physical Layer

Day 3

Radio Layer Modulations and Coding

- > OFDMA in the downlink
- SC-FDMA in the uplink
- QPSK, 16 QAM, 64 QAM Modulation techniques
- Multiple Input Multiple Output

Signaling Protocols in Radio Network Layer

- Radio Resource Control Layer
- Radio Link Control Layer
- Medium Access Control Layer





Public Training Session



"very clear and interactive" "with simple language and analogy" "visual method because instructor used figures to explain"

Date: 12 - 14 December 2012 (Wed - Fri)

Time: 0900 - 1700

Venue: Details as follows

Bunga Dahlia Function Room Renaissance Melaka Hotel Jalan Bendahara 75100 Melaka, Malaysia

Register by 9 November 2012 to enjoy early bird discount.

Certificate will be awarded to participants who complete the training.

Lunch, refreshments and training handout provided and included.

Transportation and accommodation not included.

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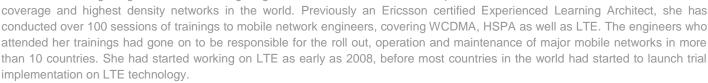
About Go Training

Go Training applies effective pedagogical methodologies that demonstrate case studies and hands-on practical skills, in addition to explaining clearly how things work in principle. Every course that we conduct is delivered by a subject matter expert who holds the academic qualification and working experience in that specialization. On the days when they are not teaching, our trainers work on consultancy projects and technical deliveries. Their work has received numerous recognition and awards in the industry. Our team of trainers has collectively published more than 100 international journal and conference papers, and 2 technical text books. Some have also been invited as keynote speakers at numerous international conferences, and as principal consultants for various industries.

About the Instructor

Ms Chan Ai Sin graduated from Multimedia University, Malaysia with B.Eng (Hons) and majored in telecommunications. She has devoted 10 years of her career to the telecommunications profession, having worked on fixed line, 3G and 4G mobile communication technologies, and contributed to major network rollout projects which lasted months or year long.

Ms Chan played a crucial role in the rollout of T-Mobile 3G network in USA and China Unicom 3G network in China, getting her hands on configuring these networks, which are the top of the widest



Ms Chan applies a unique way of explaining abstract and complicated network concepts in the simplest analogy that anyone can relate to, enabling participants to grasp the most important technical principles effectively during her short training duration. Her training sessions have always been received with critical acclaim, rendering her one of the most sought after instructors in 3G and 4G mobile communication.



Multi-vendor LTE technology based on 3GPP

HANDS ON LEARNING WITH LATEST TECHNOLOGY



Go Training

Technical Training by Expert in the Field

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