LTE Roaming Business

Who Should Attend?

This course is designed for audiences large or small with a need to understand the International LTE Roaming Ecosystem. C-Level Executives, Marketing, Roaming Product and Portfolio Managers, and Sales will all benefit from this course.

Course Scope

1. LTE Roaming Basics: The aspects covered will specifically address the needs of MNOs as they establish roaming agreements and relationships with other MNOs, both with and without legacy voice and data networks. We review GSMA standardised requirements and documents and take an in-depth look at best practices for roaming agreements and tariff negotiations that would support LTE.
   - LTE Roaming Architecture.
   - LTE Data Roaming.
   - LTE VoLTE Roaming.
2. LTE Devices and USIM cards: Roaming considerations with mutually incompatible technologies and LTE band fragmentation; its impact on roaming coverage and end user value.
   - LTE Band Fragmentation.
   - The Role of Devices.
   - Multi-Mode Single Devices.
   - Multi-Mode Multi-Band Devices.
3. Testing: Testing is critical to ensure roamers can use the visited network (VPMN) services or access their network to register and route back to their home network. We review the primary documentation for testing to support LTE and VoLTE.
   - IR.38 – LTE and EPC Roaming Tests.
   - IR.25 – VoLTE Testing.
   - The QoS Model in LTE.
4. LTE Roaming Charging: The complexities of the new charging mechanisms required to support 4G roaming are much more abundant than in a 3G environment. We cover the nuances involved in prepaid and post-paid charging and what as the home network you should be aware of.
   - Key Elements of LTE Charging.
   - Accounting Flows for IMS & NON-IMS.
   - Non-IMS Home Routing.
5. LTE Roaming Clearing and Settlement: We review changes to the existing processes, procedures, and file formats used with GSM based 2G/3G networks in order to successfully clear and settle bi-lateral roaming usage.
   - TAP 3.11.
   - TAP 3.12.
6. Steering of Roaming: Consider steering and its opportunities as a value-added service to support LTE.
   - Overview of Steering of Roaming.
   - Traffic Redirection.

- ○ Value Proposition.

Course Objectives

This course will cover the new GSMA standards, process, and procedures to support LTE Roaming, the rollout strategy – how to simplify the complexities around devices and band fragmentation and the overall responsibilities to ensure roaming profitability. It will give participants a comprehensive understanding of today's LTE Roaming Business that will help operators take advantage of monetising data on global coverage at high speeds.

Prerequisites

General knowledge of 2G /3G technologies and Roaming processes and procedures is strongly recommended. A background in LTE Systems would be a plus.

Training Structure

Two-day training divided into logical sessions.

Methodology

Instructor-led training, presentation, and workshops based on examples prepared by the trainer, and discussions of actual problems in the participants' companies.