Sigtran Training (1 day)

FMC

Sigtran is a set of protocols defined to transport SS7 messages over IP networks. SIGTRAN allows IP networks to inter-work with the traditional SS7 network and vice versa. SIGTRAN protocol stack consists of a common signaling transport protocol and an adaptation layer protocol. This course provides a good understanding of Sigtran application layers, transport SCTP protocol and deployment configurations. A good knowledge of Internet Protocol & SS7 would be beneficial for anyone attending this course.

Who Should Attend

This is beginner level course and suitable for telecom professionals & students who have little or no understanding of Sigtran protocols.

Objective

After completing this course, the audience will be able to:

- Understand SIGTRAN functions
- Define Signaling Transport Components
- Describe SIGTRAN protocols - SCTP, IUA, M2UA, M2PA, M3UA, SUA
- Explain Sigtran Signaling Procedures

Course Contents

Sigtran Overview & Architecture

- SIGTRAN Introduction
- SIGTRAN Functional Model
- Signaling Transport Components
- Sigtran Architecture
- Benefits
- Application

Sigtran Protocols & Messages

- SCTP
- M3UA
- M2UA
- M2PA
- SUA
- IUA

Sigtran in Telecom Networks

- Sigtran in 2G/3G Networks
- M3UA ISUP Message Transport
- M3UA SCCP User Transport
- M2UA SS7 Transport
- M2PA Signalling Transport
- SUA SCCP User Transport

Sigtran Signaling

- SCTP Startup
- SCTP Data Transfer
- SCTP Association Shutdown
- M3UA Establishment of Traffic
- M3UA Normal Withdrawal

Sigtran & SS7 Interworking