

M-MGw R6.1 Operation and Configuration



LZU 108 8012 R1A

Description

The M-MGw R6.1 Operation and Configuration course will cover the operational and configuration aspects in the Mobile Media Gateway (M-MGw R6.1). The Ericsson Mobile Softswitch Solution (MSS R6.1) in the core network for GSM and WCDMA accesses will be described from M-MGw's operational and configuration perspective. The course provides hands-on training with the M-MGw Node Manager, as well as Command Line Interface (CLI) and some applications in Operation Support System-Radio and Core (OSS-RC) related to M-MGw operation and configuration.

The hands-on training covers TDM, ATM and IP transmission solutions. If all solutions (e.g. ATM) are not required the length of the course will be reduced by one day.

Learning objectives

- 1 Explain the role of M-MGw in the GSM/WCDMA network as defined in the Customer Product Information (CPI) and list the M-MGw features
 - 1.1 Describe the role of M-MGw in an Ericsson Mobile Softswitch Solution
 - 1.2 List the Network Elements in the MSS solution
 - 1.3 List and describe different interfaces around a M-MGw node
 - 1.4 Explain GCP, Q.2630 and IPBCP on an overview level
 - 1.5 State the features that the M-MGw supports
- 2 Explain the Generic Media Gateway Package (GMP) concepts as per release R6
 - 2.1 Explain the Connectivity Packet Platform (CPP)
 - 2.2 List the M-MGw boards and their function
 - 2.3 Explain the different GMP versions
 - 2.4 Describe the GMP Hardware Architecture
 - 2.5 Describe the GMP cabinet and Subrack configurations for M-MGw
- 3 Perform basic fault management on a M-MGw as described in the CPI
 - 3.1 Explain the O&M architecture for M-MGw
 - 3.2 Explain the use of Alex Library Explorer (ALEX) based Customer Product Information (CPI) documents
 - 3.3 Read the Alarm List and Alarm Log to manage faults in M-MGw
 - 3.4 Follow an Operational Procedure Information (OPI) to solve an alarm
- 4 Understand the role of different Management Interfaces for M-MGw
 - 4.1 Understand the role of Node Manager
 - 4.2 Understand the role of OSS-RC for management of M-MGw
 - 4.3 Check and understand existing configuration in a M-MGw using the Node Manager and/or OSS-RC



- 4.4 Understand the role of Command Line Interface (CLI) and Node Command Line Interface (NCLI) in M-MGw
- 4.5 List and run some useful CLI and NCLI commands
- 5 Describe the Configuration Process for M-MGw
 - 5.1 Explain the CCR tool
 - 5.2 Explain the CCR collection form
 - 5.3 Describe the M-MGw Initial Start process
 - 5.4 Describe M-MGw Traffic Configuration process
- 6 Explain the M-MGw configuration and use Node Manager and/or OSS-RC to change or configure parts of the different interfaces
 - 6.1 Describe and configure ATM Transport
 - 6.2 Describe and configure TDM Transport
 - 6.3 Describe and configure IP Transport
 - 6.4 Explain and configure the Signaling bearers in M-MGw R6, including SS7 over ATM, TDM and IP
 - 6.5 Explain and configure Q.2630 and GCP
 - 6.6 Explain and define Virtual Media Gateway
 - 6.7 Explain and configure MSC Pool Proxy
 - 6.8 Explain the role of M-MGw as a Signaling Gateway (including Associated Signaling Mode), Signaling End Point and Signaling Transfer Point

Target audience

The target audience for this course is: Network Design Engineers, Network Deployment Engineers, System Technicians and System Engineers.

Prerequisites

Successful completion of the following courses:

MSS R6.1 Survey LZU 108 8004 R1A

Duration and class size

The length of the course is 4 days. If ATM theory and practical exercises are not required the length of the course is 3 days. Maximum number of participants, in both cases, is 8.

Learning situation

This course is based on theoretical instructor-led lessons given in classroom and in technical environment using equipment and tools.