

# GSM Home Location Register Advanced

HPE CMS Education Center



## Course overview

- Delivery: Instructor led
- Date: On request
- Length: Two days
- Location: Hewlett Packard Enterprise (HPE) premises (preferred) or client location
- Level: Expert
- Delivery language: English

## Course description

The Global System Mobility (GSM) Home Location Register (HLR) serves as the main database of permanent subscriber information in the mobile network. This course provides students with a deep understanding of GSM HLR network functional entities and features configuration, including the Equipment Identity Register (EIR) and Authentication Center (AuC).

## Audience

The training is designed for:

- Network operations and select switch personnel
- System administrators
- Software developers and installers
- Support analysts
- Customer care personnel

## Learning objectives

Upon successful completion of this course, you should be able to:

- Summarize GSM HLR application operation
- Optimize GSM Mobile Application Part (MAP) messaging using the context management feature
- Define one or more Public Land Mobile Networks (PLMNs) on the HLR

### Training agenda

#### Day 1

- HLR application overview
- MAP context management
- PLMN validation
- Roaming restriction
- SRI screening
- Optimal routing
- MSISDN split

#### Day 2

- Sensitive data provisioning
- CAMEL support
- Location services support
- Subscriber trace
- CALEA
- Subscriber routing
- Unified HLR
- Authentication Center
- Equipment Identity Register

- Use the Roaming Restriction feature
- Set up the HLR to screen incoming call termination requests
- Configure the HLR to use optimal routing
- Set up the HLR to conform to number plan shifts
- Create forwarding number fix-up rules and validation profiles
- Provision the most sensitive data in the application database
- Configure Customized Applications for Mobile network Enhanced Logic (CAMEL) Services
- Configure Location Services, Subscriber Tracing, and Law Enforcement Surveillance
- Set up the Subscriber Routing feature to support a subscriber database migration
- Understand how the GSM HLR supports roaming between ANSI-41 and GSM

## Overview

### Mandatory course prerequisites

- Hardware and operating system overview
- Intelligent Network Server (INS) and GSM HLR fundamentals
- Good knowledge of English—translation services can be hired for an additional fee

### Course materials and methodology

Lectures are interspersed with hands-on exercises, with about one-third of the course dedicated to practical sessions focused on platform operations.

### Course location

This course is delivered at an HPE site with HPE-supplied facilities and equipment. It may be delivered on demand at the client's premises, in which case the client is responsible for training room setup, including video projector, white/paper board, and one platform test-bed. In either case, attendees must bring their own laptops.

### Trainer's profile

Training is led by an HPE senior consultant with a background in telecommunications, networks, and HPE NonStop applications, and experience in maintaining and supporting clients.

### Audience size

Training requires a minimum of 3 students and a maximum of 12.

### Training schedule

- This course is offered on demand.
- A six- to eight-week lead time is required to schedule the training session.

## For more information

For details on course contents, fees, and availability, please send an email to [HPE-CMS.Training@hpe.com](mailto:HPE-CMS.Training@hpe.com)



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