



# **Mobile Broadband Charging (MBC) 2.3** Training Programs

## Catalog of Course Descriptions





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INTRODUCTION.....	3
MOBILE BROADBAND CHARGING (MBC) 2.3 OVERVIEW.....	4
MOBILE BROADBAND CHARGING (MBC) 2.3 RATING MANAGEMENT.....	7



## Introduction

Ericsson has developed a comprehensive Training Programs service to satisfy the competence needs of our customers, from exploring new business opportunities to expertise required for operating a network. The Training Programs service is delineated into packages that have been developed to offer clearly defined, yet flexible training to target system and technology areas. Each package is divided into flows, to target specific functional areas within your organization for optimal benefits.

**Service delivery is supported using various delivery methods including:**

Icon	Delivery Method
	Instructor Led Training (ILT)
	Virtual Classroom Training (VCT)
	eLearning (WBL)
	Workshop (WS)
	Short Article (SA)
	Structured Knowledge Transfer (SKT)
	mLearning
	Job duty analysis (JDA)
	Competence GAP Analysis (CGA)



## Mobile Broadband Charging (MBC) 2.3 Overview



LZU1089651 R1A

### Description

The MBC 2.3 Overview course provides an excellent technical introduction to the Mobile Broadband Charging solution (MBC) from Ericsson. As this solution is built on top of some of the existing nodes of Charging System (CS), this course supports customers with the added knowledge required to understand MBC 2.3.

Participants of the course will gain knowledge on different interfaces like Gx, Gy, ESy and 3GPP Sy required for Policy Control of data traffic. It also provides adequate knowledge on features like Timer Charging, Service Control, Policy Management, VoLTE Charging Support, Product Fee Support and use of Self Care with this release. It will also cover the enhanced features such as Event Charging Support, Instant Activation Gy, Easy Manageability and Notification.

After attending this course the participants will get an overall understanding of all the latest features of MBC 2.3 and they will be prepared to participate in discussions or attend other technical trainings on MBC 2.3.

### Learning objectives

On completion of this course the participants will be able to:

- 1 Describe the purpose of Mobile Broadband Charging (MBC) 2.3 and its impact on Charging System (CS)
  - 1.1 Discuss the purpose of MBC and its relationship with CS and GPRS Core NW
  - 1.2 Illustrate MBC in CS architecture
  - 1.3 Highlight the interfaces in MBC 2.3
- 2 Highlight and explain the features available in MBC 2.3
  - 2.1 Highlight and explore the functionality of MBC with emphasis to key highlights of MBC 2.3
  - 2.2 Examine each of the features in detail with particular attention to: Offer Management, Timer Charging, Shared Account, Service Control Limit, Policy Management Gx, Policy Management ESy, Policy Management 3GPP Sy, VoLTE Charging support, Product Fee Support, Integrated Policy and Charging, OCC Failover, WIFI support and Self Care support
  - 2.3 Explain enhancements on features such as Event Charging Support, Instant Activation Gy and Notification





- 3 Outline traffic and use cases of MBC 2.3
- 3.1 Understand the main traffic cases of MBC 2.3
- 3.2 Describe some common use cases

## Target audience

The target audience for this course is:

Service Planning Engineer, Service Design Engineer, Network Design Engineer, Service Deployment Engineer, System Technician, Service Technician, System Engineer, Service Engineer, System Administrator, Application Developer, Business Developer

## Prerequisites

Successful completion of the following courses:

No prerequisites required for this course. It will be an advantage if participants have previous knowledge of the real time prepaid solution.

## Duration and class size

The length of the course is 1 days and 0 hours and the maximum number of participants is 16.

## Learning situation

This course is based on theoretical instructor-led lessons given in a classroom environment.



### Time schedule

The time required always depends on the knowledge of the attending participants and the hours stated below can be used as estimate.

Day	Topics in the course	Estimated Time (hours)
	MBC 2.3 Concept, Architecture and Interfaces	2
1	Main highlights of features and enhancements	3
	Main Traffic Cases	1

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## Mobile Broadband Charging (MBC) 2.3 Rating Management



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### Description

This course focuses on Mobile Broadband Charging (MBC) rating functionality implemented with Ericsson Charging System. The course will explore the impact of features such as Offer Management and Personalized Offer Management, Policy Management over Gx, Policy Management over ESy, Policy Management over 3PP Sy, Service Limit Control. In addition the features basic to Charging System such as Dedicated Accounts, Accumulators, User Notifications, Usage Counters and Thresholds are also explained and participants will get a first hand experience on configuring these features on a test bed.

The course teaches participants to design, simulate and activate simulation trees using the Rating Management Application (RMA) for real-time bandwidth control and rating of GPRS mobile data in the network. The course prepares students for further study on specific nodes and applications so that the MBC solution can be utilized to its full potential.

### Learning objectives

On completion of this course the participants will be able to:

- 1 Configure Offer Management in SMA and RMA of SDP
  - 1.1 Discuss the benefits of Offer management, Offer types rating, Timer Offer, Shared Accounts, Offer Driven Rating and Personalized Offer Management
  - 1.2 Learn how to create a Timer Offer, Multiple purchases of timer offer, Offer Driven Rating and Personalized Offer Management in the SMA and implement their Charging functionality in the RMA Selection Trees
- 2 Configure Policy Management over Gx using RMA
  - 2.1 Describe the purpose of the Policy Management Gx and its impact on CS
  - 2.2 Examine the MBC Architecture using Gx
  - 2.3 Discuss PCC rule, rule groups and Qos
  - 2.4 Illustrate Gx rule configuration in RMA
  - 2.5 List examples of Policy Management Gx
- 3 Configure Policy Management over ESy and 3PP Sy using RMA
  - 3.1 Describe the purpose of the Policy Management Esy and its impact on CS
  - 3.2 Examine the MBC Architecture using ESy
  - 3.3 Discuss Policy control concepts, policy groups etc
  - 3.4 Illustrate Esy rule configuration in RMA
  - 3.5 List examples of Policy Management Esy





- 3.6 Describe the purpose of the Policy Management 3PP Sy and its impact on CS
- 3.7 Examine the MBC Architecture using 3PP Sy
- 3.8 Discuss Policy control concepts, policy counters, etc
- 3.9 Illustrate Sy rule configuration in RMA
- 3.10 List examples of Policy Management Sy
- 4 Configure Service Control for subscriber using RMA
  - 4.1 Examine the need for and benefits of Service Limit Control
  - 4.2 Examine using RMA how UAs and DAs can be used for limiting Data Usage
  - 4.3 Configure selection trees to make use of the Usage Counters and Thresholds to implement limits

## Target audience

The target audience for this course is:

Service Planning Engineer, Service Deployment Engineer, Application Developer, Business Developer

## Prerequisites

Successful completion of the following courses:

Mobile Broadband Charging (MBC) 2.3 Overview, LZU1089651

## Duration and class size

The length of the course is 2 days and 0 hours and the maximum number of participants is 8.

## Learning situation

The course is based on instructor-led lessons and practical exercises using SDP 5.4 Rating Management Application (RMA) and SDP Management Application (SMA).





### Time schedule

The time required always depends on the knowledge of the attending participants and the hours stated below can be used as estimate.

<b>Day</b>	<b>Topics in the course</b>	<b>Estimated Time (hours)</b>
1	Offer Management	1.5
	Policy Management over Gx	1.5
	Exercises	3
2	Policy Management over ESy and 3PP Sy	1.5
	Service Control	1.5
	Exercise	3

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