BSCS iX 17

Training Programs

Catalog of Course Descriptions

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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:

Delivery Method
Instructor Led Training (ILT)
Web-based Learning (WBL)

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BSCS iX 16 Database- Focus on Daily BSCS Operation

LZU1082286 R1A

Description:

This course describes the customer lifecycle by highlighting the user definitions and the configuration of business rules in the BSCS database. It shows the configuration of the BSCS operational data, focusing on the GSM market. It also highlights the data to be assigned at the time of customer and contract creation, rating and billing while showing in simple ways how the processing result is kept in the database. Equipped with this information, you can easily maintain and trace the daily operation tasks.

Learning objectives:

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

1 Demonstrate use of Seminar Guideline
1.1 Show Database Relations Guideline

2 Resources
2.1 Provide Resource Administration Overview
2.2 List Resources in BSCS
2.3 Provide Status of Resources
2.4 Clarify Market and Resource Definition
2.5 Define GSM Resources

3 Services
3.1 Recognize Classification of Services
3.2 Name Charge Types
3.3 Demonstrate Market-Related Services on Database Level
3.4 Distinguish EVAS on the Database Level

4 Rate Plans
4.1 Show Rate Plan Structure
4.2 Verify Database Relations around Rate Packages and Rate Plans

5 Customers and Contracts
5.1 Identify Party Type, Role and Contract Type

6 Customer Data
6.1 Examine Customer Base Relations
6.2 List Other Important Customer Care Tables

7 Contract Data
7.1 Review Basic Contract Properties

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7.2 Distinguish GSM Contracts and SIM Cards
7.3 Identify Contracted Services
7.4 Explain GMD Request Tables
7.5 Analyze IMC and Special Promotion Numbers

8 Flexible Rating
8.1 Perform Introduction to Usage Data Records
8.2 Review Unified Data Structure
8.3 List Database Relations in System Scenarios

9 Cost control
9.1 Show Family Concepts
9.2 Identify Family Group
9.3 Inspect Default Family
9.4 Practice Family Assignment
9.5 List Relations in the Database
9.6 Distinguish Cost Control Package Concept and Administration
9.7 Evaluate Common Request Handler Tables
9.8 Determine CRH Process – Record Type Table

10 Free Units, Promotions and Price Plans
10.1 Review Introduction to Free Units
10.2 Explore Free Unit Assignment
10.3 List Database Relations around Free Unit Packages
10.4 Show Free Unit Accounts
10.5 Illustrate Introduction to Price Plans
10.6 Verify Charge Plan Types
10.7 Identify Price Plan Assignment
10.8 Review Application of Price Plans
10.9 Discuss Database Relations around Price Plan
10.10 Clarify Components of a Promotion Package
10.11 Document Promotion Assignment and Result Tables
10.12 Investigate Prepaid Promotions

11 Data Collection and Rating
11.1 Explore Definition Tables for Rating
11.2 Inspect File Processing Tables for Rating
11.3 Identify Message Profiles
11.4 Examine Configuration of Message Profiles
11.5 Recognize Re-rating for Postpaid Transaction

12 Billing Table
12.1 Show Billing Tables
12.2 Evaluate Rated, Billed and Unbilled Amounts
12.3 Inspect Free unit business functions
12.4 Evaluate Electronic Bill Presentation

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12.5 Verify BSCS database tables need to be watched and sized

13 Invoice and Payments
13.1 List Invoices and Payment Tables
13.2 Provide General Ledger Overview
13.3 List Database Relations around General Ledger

14 International Roaming Partners
14.1 Identify Roaming Partners
14.2 Show GSM Roaming Partner Definition
14.3 Verify Tables for Roaming File Processing

15 Databases Purging
15.1 List Database Tables related to “Aged-out Data”

16 Efficient UDR Storage
16.1 Describe default storage and optional data models

Target audience:

This course is suitable for anyone who is required be able to configure/operate/maintain BSCS iX 17

Prerequisites:

Successful completion of the following courses:

BSCS iX 16 Fundamentals with Technical Focus - LZU1082285

Duration and class size:

The length of the course is 3 days and the maximum number of participants is 8

Learning situation:

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

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BSCS iX 16 Rating and Billing

LZU1082288 R1A

Description:

This course provides information about the operation and processing of call data records to produce billing documents for end customers. This seminar, however, does not cover the prepaid functionality of BSCS.

Learning objectives:

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

1 Express on overview in Rating and Billing
1.1 Draw Offline Charging Logic
1.2 Debate Service Oriented Interface

2 List the Prerequisites and Preparation
2.1 Discuss Data Transmission Application (DaTA)
2.2 Distinguish Message Profiles
2.3 Describe Message Subprofiles
2.4 Acknowledge Data Transmission Library (DX Library)
2.5 Identify Message Queues

3 Recognize Data Extraction
3.1 Determine Real-Time Reference Data for Rating
3.2 Explain RDR Processing Workflow
3.3 Inspect Table Extraction Handler (TEH) Overview
3.4 Establish Data Flow from RDH
3.5 Differentiate Read and Write in SHM
3.6 Analyze Reference Data for Rating
3.7 Identify Reference Data for Cost Control
3.8 Explain Reference Data for Billing

4 Identify Data Collection
4.1 Examine Data Collection
4.2 Document Device Input Handler (DIH)
4.3 Define File Input Handler (FIH)
4.4 Identify Assemble Input Handler (AIH)

5 Define Rating Engine
5.1 Discuss Family Concepts
5.2 Evaluate Family Assignment
5.3 Experiment Family Assignment Change

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5.4 Define Pre-Rate Input Handler
5.5 Recognize Rate Input Handler

6 Examine Cost Control Engine
6.1 Investigate Cost Control Handler
6.2 Identify Balance Storage Handler

7 Explore Data Storage
7.1 Identify Event Output Handler
7.2 Interpret Enriching Records
7.3 Review BIR Aggregation
7.4 Apply Load Reduction for RLH
7.5 Explain Rate Load Handler
7.6 Explore UDR Database

8 Illustrate Billing
8.1 Distinguish Flexible Charge Assignment
8.2 List Billing Purposes
8.3 Provide Billing Modes
8.4 Draw Billing Architecture
8.5 Establish Billing Workflow — BCH Perspective
8.6 Define Work Packages
8.7 Evaluate Processing of a Large Account Branch (subtree)
8.8 List Types of Billing Documents
8.9 Examine Billing Server
8.10 Discuss Processing Logic

9 Provide Basic Database Settings
9.1 Inspect Basic Database Settings
9.2 Review Workstation Environment Setup

10 Differentiate Multi Node - shared memory allocation
10.1 Differentiate RDH — Multinode Configuration and SHM

11 Review Non-Usage charges
11.1 Draw Processing Workflow of Non-Usage Charges
11.2 Describe Adding New Service in Existing Contract
11.3 Inspect Recurring Charge Handler

12 Perform Re-rating
12.1 Identify Re-rating for Postpaid Transaction
12.2 Review Re-rating Workflow
12.3 Review Handling of re-rating for Non-Billed and Billed Records
12.4 Show Billing Rerated Postpaid UDRs
12.5 Identify Unwind Rating Handler
12.6 Determine Technical Workflow of Re-rating Postpaid Transaction

13 Analyze Cost Control - Balance Adjustment

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13.1 Explore Common Request Handler (CRH)
13.2 Evaluate Balance Adjustment
13.3 Implement CRH Workflow

14 Define Threshold Billing
14.1 Establish Threshold Billing
14.2 Review Workflow of Threshold Billing

15 Clarify Call Detail Statement
15.1 Identify Call Detail Statement
15.2 Illustrate Call Detail Statement Scenarios
15.3 Differentiate Call Itemization vs Call Detail Statement
15.4 Diagram Call Detail Handler (CDH)
15.5 Show Workflow of CDS Generation

Target audience:

This course is suitable for anyone who is required be able to configure/operate/maintain BSCS iX 17

Prerequisites:

Successful completion of the following courses:

BSCS iX 16 Fundamentals with Technical Focus, LZU1082285

Duration and class size:

The length of the course is 3 days and the maximum number of participants is 8.

Learning situation:

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

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BSCS iX 16 System Scenarios

LZU1082278 R1A

Description:

This course provides an overview to the flexible rating logic and the usage data record (UDR) structure in BSCS. It covers the system scenarios and how they are used to implement offline charging. It also provides use exercises about specific system scenarios.

Learning objectives:

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

1 Evaluate Flexible Rating and UDR Structure
1.1 Discuss concept of Flexible Rating
1.2 Understand Usage Data Records Processing
1.3 Examine Definition of UDR Structure

2 Explore System Scenario Principle, Types and Structure
2.1 Investigate System Scenario types and structure
2.2 Examine Message Mapping Scenario Evaluation
2.3 Demonstrate Processing Logic Scenario
2.4 Identify the significance of System scenario - Application of message profile during Message processing chain
2.5 Understand Pre-Business and Business Scenario

3 Analyze Use cases and examples of specific System Scenarios
3.1 Discuss MOC Example of System Scenarios
3.2 Investigate System Scenario for Special Number Case
3.3 Examine Example of Configurable Generic Zones
3.4 Understand Anonymization System Scenario

Target audience:

This course is suitable for anyone who is required be able to configure/operate/maintain BSCS iX 17

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Prerequisites:

Successful completion of the following courses:

BSCS iX 16 Fundamentals with Technical Focus LZU1082285
BSCS iX 16 Rating and Billing LZU1082288
Technical background in telecommunications is an advantage

Duration and class size:

The length of the course is 3 days and the maximum number of participants are 8.

Learning situation:

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

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BSCS iX 17 Fundamentals with Technical Focus

LZU1082491 R1A

Description:

Are you inquisitive about BSCS IX 17A system? Do you want to know end to end architecture and all the major functionalities of BSCS IX 17A?
If you are seeking answers for all these questions then this is the right course for you where you will get a chance to explore overall BSCS IX 17 Architecture, all it's major application components and features. This course covers BSCS IX 17 functional areas such as Resource Management, Product Configuration, Customer and Business Partner Management, Rating, Billing, Payments, Collections and Miscellaneous Operational specific features.

Learning objectives:

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

1 Explore Architecture and Components
1.1 Demonstrate Scope of BSCS
1.2 Identify Multi-Market Concept
1.3 Discuss Architecture and Components
1.4 Explain Lifecycle Management of BSCS IX 17
1.5 Analyze workflow of Customer Life Cycle
1.6 Recognize Business Partner Handling in BSCS
1.7 Examine Call Processing Workflow
1.8 Demonstrate Applications in BSCS
1.9 Describe Ericsson Product Offerings in Connection with BSCS

2 Demonstrate Networks, Dealers and Resources
2.1 Explore Markets and Networks
2.2 Identify Sales Hierarchy in BSCS
2.3 Explain Resource Administration Overview
2.4 Describe type of resources
2.5 Recognize Workflow of SIM Card Resources
2.6 Examine Status of Resources

3 Analyze Tariff Configuration - Services, Rate Plan Creation, Maintenance and Usage
3.1 Identify role of services in BSCS
3.2 Recognize classification of services
3.3 Explain Charge Types
3.4 Define Configuration of Network Services

3.5 Analyze Usage Indicators, Rate Types and Chargeable Quantities
3.6 Recognize Database Relations
3.7 Introduction to Product Center
3.8 Describe Rate Plan Structure
3.9 Discuss Time Packages
3.10 Examine Zone Packages
3.11 Demonstrate Usage Packages
3.12 Explain Rating Packages
3.13 Analyze Usage Indicators, Rate Types and Chargeable Quantities
3.14 Discuss Conversion Modules in Rating Packages
3.15 Explain Service Packages
3.16 Identify Finalizing a Rate Plan
3.17 Recognize Database Relations around Time, Zone and Usage Packages
3.18 Explore Database Relations around Rate Packages and Rate Plans
3.19 Inspect Entering a New Contract
3.20 Examine OCC and Contract Rate Plans
3.21 Discuss Rate Plan Change
3.22 Explain Package Concept and Administration
3.23 Identify Rating

4 Demonstrate Discount Features - Free Units, Cost Control and Promotions
4.1 Identify Discounts in BSCS
4.2 Explain Introduction to Free Units
4.3 Recognize Free Unit Assignment
4.4 Illustrate Free Units Basics
4.5 Define Price Plans
4.6 Explore Charge Plan Types
4.7 Identify Balance Management and Cost Control
4.8 Analyze Balance Terminology
4.9 Inspect Balance Type Overview
4.10 Analyze Cost Control Function Package – Overview
4.11 Explain Monitored Services Package
4.12 Recognize Complex Conditions for Cost Control Packages
4.13 Demonstrate Balances as Cost Control Services
4.14 Discuss Business Case Example of Cost Control Service
4.15 Explore A Simple Example of Setting up a Cost Control Service
4.16 Demonstrate Balance Behavior
4.17 Inspect Family Concept and Balance Sharing
4.18 Examine Role of Motivation and Incentives in BSCS
4.19 Explain Structure of a Promotion Package
4.20 Discuss Evaluation Mechanisms
4.21 Identify Application Mechanisms

5 Explore Customer Care - CX, Customer and Contract Maintenance
5.1 Identify Multi-layer Architecture Around CX

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5.2 Explain Solution Unit Concept of CX
5.3 Recognize Customer Care and Business Partner Clients
5.4 Identify Customer Center Overview
5.5 Discuss Concepts of Customer Center
5.6 Explore Rapid Activation of Customers and Contracts
5.7 Demonstrate Fixed Mobile Convergence in BSCS
5.8 Inspect Status of Customers, Contracts and Services
5.9 Explain Customer and Contract Maintenance
5.10 Recognize Other Credits and Charges
5.11 Explore Future-dated Requests
5.12 Discuss Requests for Network and Rating Engine
5.13 Explore Contract Move or Takeover
5.14 Demonstrate Credit Check and Fraud Detection
5.15 Analyze Memos
5.16 Identify Inspect Microcells
5.17 Explain Large Account Structures and Billing Principles
5.18 Recognize Customer Code Composition for Large Accounts
5.19 Analyze Billing Accounts
5.20 Discuss Payment Arrangements
5.21 Explore Customer Base Relations

6 Examine Type of Business Partners
6.1 Illustrate types of Business Partners
6.2 Discuss Collection Agencies, Content Providers and Dealers
6.3 Recognize Interconnect Carriers, Roaming Partners and Service Providers
6.4 Identify traffic Cases in International Roaming
6.5 Describe Roaming Partner Handling Overview
6.6 Explore TAP and RAP Handling

7 Analyze UDR Structure, System Scenarios and Message Processing
7.1 Define Flexible Rating
7.2 Explain Usage Data Records
7.3 Analyze UDR Storage Models
7.4 Recognize Definition of UDR Structure
7.5 Explore System Scenarios
7.6 Inspect Complex Conditions
7.7 Discuss Pre-Business Scenarios
7.8 Describe Business Scenarios
7.9 Examine System Scenario – Special Number Example
7.10 Identify Service Parameters used for Rating
7.11 Learn about Data Transmission Application (DaTA)
7.12 Analyze Message Profiles
7.13 Explore example of High Usage Alert
7.14 Demonstrate example of Rate Plan and Contract Related Reference Data

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8 Discuss Billing, Payments and Integrated Collections
8.1 Describe Billing Overview
8.2 Explore Normal billing run
8.3 Identify Immediate Billing
8.4 Explain Call Detail Statement (CDS)
8.5 Discuss Billing Results
8.6 Examine Finance Applications and Workflow
8.7 Analyze General Ledger Overview
8.8 Recognize Database Relations around General Ledger
8.9 Examine Accounting Center Overview
8.10 Explore Accounting Concept
8.11 Analyze Common Payment Transactions
8.12 Identify Invoices and Payment Tables
8.13 Define Payment Input Process
8.14 Demonstrate Credit Card Handling
8.15 Explain Integrated Debt Collection Architecture

9 Illustrate Multi Tenancy Data Purging and Serviceability Features
9.1 Explore Multi Tenancy features
9.2 Recognize the significance of DLY process in resource recycling
9.3 Identify role of DAH in UDR tables data deletion and Unix file system outdated files cleanup
9.4 Analyze database purging functionality through ADMX / BEE
9.5 Explore Serviceability Enhancements

10 Describe Interfaces
10.1 Explore Interfaces of BSCS
10.2 Recognize Main Interface Applications
10.3 Identify Configuration of FIH Converter
10.4 Demonstrate Billing Interface
10.5 Discuss Finance Interfaces
10.6 Examine Collection Interfaces
10.7 Analyze Other Interface Applications
10.8 Inspect Libraries
10.9 See Hooks and Plug-Ins
10.10 Demonstrate SOI Introduction
10.11 Record Exchange with DaTA

Target audience:

This course is suitable for anyone who is required be able to configure/operate/maintain BSCS iX 17

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Prerequisites:

Successful completion of the following courses:

None. However, technical knowledge of any BSS product which comprises of Resource Management, Product Configuration, Customer and Contract Management, Rating, Billing and Payments is sufficient.

Duration and class size:

The length of the course is 7 days and the maximum number of participants is 8.

Learning situation:

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

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