Global Services

ECE 2.0
Training Programs

Catalog of Course Descriptions

ERICSSON

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:

Icon	Delivery Method
	Instructor Led Training (ILT)
	Seminar (SEM)
	Workshop (WS)
	Virtual Classroom Training (VCT)
	Web Based Learning/eLearning (WBL)
	Structured Knowledge Transfer (SKT)
	Delivery Enablers
	Remote Training Lab (RTL)

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Description

There is a requirement to have training program services in place supporting customers that will take on the ECE (Ericsson Compositon Engine) 2.0 release.

The purpose of the course is to give detailed information about the administration procedures applicable for the Ericsson Composition Engine and its Reference Deployment Architecture (RDA) components.

This allows participants to gain practical experience in using the main components of ECE 2.0 and perform essential system administration tasks, such as handling alarms and statistics, configuring the platform, and backup and restore.

Learning objectives

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

1 Introduction to ECE 2.0
1.1 Describe ECE 2.0 and its Applications
1.2 Discuss the relation of ECE 2.0 to IN and IMS
1.3 Discuss ECE 2.0 openness and support for Java EE

2 Discuss the RDA Hardware
2.1 Discuss the Reference Deployment Architecture (RDA)
2.2 Describe the Hardware Configuration
2.3 Discuss OAM and Sun integrated Lights Out Manager (iLOM)

3 Describe the Software Architecture
3.1 Discuss the Linux Open Telecom Cluster (LOTC)
3.2 Describe MMAS, SGCS and TSP SAF
3.3 Describe the overall Architecture of ECE 2.0

4 Discuss TSP SAF
4.1 Discuss the TSP SAF components and features
4.2 Describe TSP SAF OAM Fault Management
4.3 Describe TSP SAF OAM Configuration Management

5 Describe Backup and Restore procedures
5.1 Discuss the full Backup and partial Backup procedure
5.2 Describe the Restore procedure

6 Describe VIP and SS7 configuration
6.1 Describe the principle of VIP
6.2 Discuss VIP configuration
6.3 Describe the SS7 configuration

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Target audience

The target audience for this course is: Service Planning Engineers, Service Design Engineers, Network Design Engineers, Network Deployment Engineers, Service Deployment Engineers, System Technicians, Service Technicians, System Engineers, Service Engineers, System Administrators, Application Developers.

Prerequisites

The participants should be familiar with IP, particularly SIP and IMS. Knowledge of INS and SS7 would also be beneficial.

Duration and class size

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

Learning situation

This course is based on instructor-led training and task-oriented learning, involving exercises and accessing equipment remotely.

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
1	• Introduction to ECE 2.0	1.5 Hours
	• Discuss the RDA Hardware & Exercise 1	1.5 Hours
	• Describe the Software Architecture & Exercise 2	3 Hours
2	• Discuss TSP SAF & Exercise 3	2 Hours
	• Describe Backup and Restore procedures & Exercise 4	1 Hour
	• Describe VIP and SS7 configuration & Exercise 5 and 6	3 Hour

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Description

There is a requirement to have training program services in place supporting customers that will be using the Ericsson AC (Avanced Compostion).

The purpose of the course is to give detailed information about the administration procedures applicable for running AC on ECE (Ericsson Composition Engine).

This allows participants to gain practical experience in using the main components of AC and perform essential system administration tasks, such as installation, service creation and testing.

Learning objectives

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

1 Introduction to ECE and AC
1.1 Discuss the main features of ECE
1.2 Describe the concept of AC
1.3 Describe the installation procedure of AC

2 Discuss the principle of Service Composition
2.1 Discuss the procedure for Service Creation
2.2 Describe the principles of Skeleton design
2.3 Create a SIP based Skeleton

3 Discuss Service testing and debugging
3.1 Describe the procedure for testing
3.2 Describe the logs used for debugging
3.3 Test and debug a SIP Skeleton

4 Discuss Web Services
4.1 Describe the architecture of Web Services
4.2 Add a Web Service to the SIP Skeleton

5 Discuss the SS7 based Skeleton
5.1 Describe Proxy Service features
5.2 Describe Send Operations
5.3 Create a SS7 based Skeleton

6 Describe the procedure for Service Deployment
6.1 Discuss adding Decorators to a new Service
6.2 Describe SIP Service Deployment
6.3 Describe SS7 Service Deployment

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Target audience

The target audience for this course is: Service Planning Engineers, Service Design Engineers, Network Design Engineers, Network Deployment Engineers, Service Deployment Engineers, System Technicians, Service Technicians, System Engineers, Service Engineers, System Administrators, Application Developers.

Prerequisites

ECE 2.0 Operation and Maintenance LZU 108 7769

The participants should be familiar with IP, particularly SIP and IMS. Knowledge of INS and SS7 would also be beneficial.

Duration and class size

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

Learning situation

This course is based on instructor-led training and task-oriented learning, involving exercises and accessing equipment remotely.

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
1	Introduction to ECE and ACE & Exercise 1	2 hours
	Discuss the principle of Service Composition & Exercise 2	2 hours
	Discuss Service testing and debugging & Exercise 3	2 hours
2	Discuss Web Services & Exercise 4	2 hours
	Discuss the SS7 based Skeleton & Exercise 5	2 hours
	Describe the procedure for Service Deployment	2 hours

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Description

There is a requirement to have training program services in place supporting customers that will be using the Ericsson ACE (Avanced Compostion Editor). In particular, there is a need to provide training for the development of constituent services.

The purpose of the course is to give detailed information about the development of constituent services, which will be used in Service Compositions on ACE, runnning on ECE (Ericsson Composition Engine).

This allows participants to gain practical experience in Service Development and the usage of consitiuent sevices in Service Compositions. This greatly broadens the scope of possible applications, as it removes the dependancy on the usage of pre-developed constituent services.

Learning objectives

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

1 Introduction to Service Development
1.1 Describe the principles of Advanced Composition
1.2 Discuss the procedure for Service Development

2 Discuss SS7 Service Development
2.1 Discuss the requirements for an SS7 Service
2.2 Describe the TCAP Resource Adapter
2.3 Discuss the functionality of the Selector

3 SS7 Service Example
3.1 Introduce SS7 Service Example
3.2 Discuss components of the SS7 Service

4 Service Development Testing
4.1 Discuss testing options for developed services
4.2 Describe the usage of the Loopback Resource Adapter for testing

5 Service Fault Management
5.1 Discuss fault management for developed services
5.2 Describe JavaCAF fault management
5.3 Discuss the configuration of Alarms and Notifications

6 Service Performance Management
6.1 Discuss the types of counters used for performance management
6.2 Describe Status Inspection and Discrete Event Registration

7 Describe the procedure for Service Deployment
7.1 Discuss Service Deployment

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7.2 Discuss the file required
7.3 Deploy a Service onto SGCS

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Prerequisites

The participants should be familiar with IP, particularly SIP and IMS. Knowledge of INS and Service Composition would also be beneficial.

Duration and class size

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

Learning situation

This course is based on instructor-led training and task-oriented learning, involving exercises and accessing equipment remotely.

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
1	• Introduction to Service Development	2 hours
	• Discuss SS7 Service Development	2 hours
	• SS7 Service Example	2 hours
2	• Service Development Testing	2 hours
	• Service Fault Management	1 hour
	• Service Performance Management	1 hour
	• Describe the procedure for Service Deployment	2 hours

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