



IMS Studio 3.0 Training Programs

Catalog of Descriptions



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IMS SERVICE DEVELOPMENT STUDIO (SDS) 3.1 APPLICATION DEVELOPMENT3



IMS Service Development Studio (SDS) 3.1 Application Development



LZU 108 6605 R1A

Description

The IMS Service Development Studio is the Ericsson solution for developing, testing and deploying new IMS services in an efficient and cost effective way.

This course will allow developers to create applications and services that leverage all the advantages of the IP Multimedia Subsystem. Over the 5 days of the course the hands-on exercises will demonstrate all the features available at your fingertips.

Learning objectives

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

Explain the concepts of IMS and its functionalities

- List the standardising bodies involved with IMS
- Analyse the architecture and the operation of IMS
- Identify some of the services and applications that use IMS

Identify the protocols used in IMS

- Assess how SIP operates in relation to IMS
- Determine the main SIP messages and headers
- Examine SIP message flows
- Explain the usage of SDP and MSRP in conjunction with SIP

Examine the functionality of the SDS

- Show where the Value Added Services sit in the IMS Architecture
- List the SDS components, both on the client and server side
- Outline the process of new service development

Install the SDS software on the developers PC

Demonstrate the functions of Eclipse and the Symbian Emulator

- Examine the SDS simulated environment including the CSCF and SIP Container
- Utilize the testing framework in Eclipse
- Assess the SDS code wizards in Eclipse
- Use the Symbian version 9+ emulator tool



Examine the use of SDS to develop a Server Application

- Examine the Servlet Lifecycle
- Create a HTTP servlet using SDS
- Create a SIP servlet using SDS
- Demonstrate how to deploy, run and debug a servlet
- Use the SIP and HTTP Servlet APIs
- Use the SDS Test Agent tool to send SIP messages

Examine the use of SDS to develop a Client Application

- Explain the IMS Client Platform
- Know how to use the IMS Client Platform API
- Outline the SDS CSCF and SIP Container and how they are used
- Demonstrate a message service
- Create a client using IMS Client API

Target audience

The target audience for this course are:

- Service Planning Engineers
- Service Design Engineers
- Service Deployment Engineers
- Application Developers

Prerequisites

The trainees should be familiar with Java, J2EE, IP Network Protocols and 3GPP concepts. They need also to be familiar with at least one Java IDE tool, preferably Eclipse.

Duration and class size

The length of the course is 5 days and the maximum number of participants is 8.

Learning situation

This course is based on instructor-led theory conducted in a classroom environment and practical exercises. The theoretical lectures explain and describe the SDS and its features. During the practical sessions of the course the participants will install the SDS on a PC and develop and test some simple IMS applications.



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	<ul style="list-style-type: none">• IMS Overview	3 hours
	<ul style="list-style-type: none">• Protocols in IMS	3 hours
2	<ul style="list-style-type: none">• SDS Introduction	2 hours
	<ul style="list-style-type: none">• Installation of SDS	2 hours
	<ul style="list-style-type: none">• Eclipse and the Symbian Emulator	2 hours
3	<ul style="list-style-type: none">• Design, deploy and test a GUI for the Symbian phone	4 hours
	<ul style="list-style-type: none">• Server Application Creation	2 hours
4	<ul style="list-style-type: none">• Create a Server Application Exercise	4 hours
	<ul style="list-style-type: none">• Client Application Creation	2 hours
5	<ul style="list-style-type: none">• Create a Message Service	2 hours
	<ul style="list-style-type: none">• Create a Client Application Exercise	4 hours