



# **Telecom Server Platform (TSP) 7 Training Programs**

## **Catalog of Course Descriptions**





# 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)
	Virtual Classroom Training (VCT)
	eLearning (WBL)
	Workshop (WS)
	Short Article (SA)
	Structured Knowledge Transfer (SKT)
	mLearning
	Job duty analysis (JDA)
	Competence GAP Analysis (CGA)

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## TSP 7 Operation and Maintenance



LZU1089924 R1A

### Description

This course provides participants with the skills and knowledge to configure and manage the TSP 7 release. It explores the elements involved in the operation, administration and maintenance of the TSP 7. These include the areas of fault management, configuration management, performance and security management on the TSP 7. Each operation and maintenance task is complemented by practical exercises on a real TSP 7 node. User interfaces for O&M purposes are also covered. Participants will complete practical configuration and management exercises using on-line documentation, TSP CLI and the TSP Node Management (NM) Toolbox.

### Learning objectives

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

- 1 Describe the TSP operation and maintenance architecture
  - 1.1 Outline the operational and maintenance functional areas
  - 1.2 Navigate TSP Node Management Toolbox and TSP CLI
  - 1.3 Use the on-line documentation
  - 1.4 Outline the concept of the configuration management framework (CMF)
  - 1.5 Describe provisioning principles
  - 1.6 Describe the usage of LDAP protocol for the directory access
  - 1.7 Execute user management
  - 1.8 Describe the procedures required to add, remove or replace traffic processors
- 2 Perform fault management
  - 2.1 Use the user interface for receiving alarms and notifications
  - 2.2 Find the relevant alarm information in the on-line documentation
  - 2.3 Review the error logs in the system
- 3 Describe the principles of backup and restoration of the TSP
  - 3.1 Create a backup and restore the TelORB database
  - 3.2 Describe the principle of Centralized Scheduler and how it helps for archiving DBN, IO, and FS.
- 4 Describe various types of system upgrade that can be performed on the TSP
  - 4.1 Understand a system upgrade on the TSP-based node
  - 4.2 Describe the product inventory feature
- 5 Describe the principle of Disk Log functionality on the TSP
  - 5.1 Manage the Disk Log function on the TSP





- 6 Describe the Virtual IP function on the TSP
  - 6.1 Explain the distributed IP stack on the TSP
  - 6.2 Perform management functions of Virtual IP on the TSP
  - 6.3 Analyze the router configuration
- 7 Describe SS7 protocol stacks supported by TSP
  - 7.1 Detail the component structure of the SS7 stack on the TSP
  - 7.2 Manage the SS7 function on the TSP
- 8 Understand TSP Configuration management
- 9 Describe the principles of the Geographical Network Redundancy feature
  - 9.1 Identify the processes that provide data consistency between the Primary and Standby TSP nodes
  - 9.2 Configure and manage Geographical Network Redundancy on the TSP
- 10 Describe the function of performance management on the TSP
  - 10.1 Explain the Performance Management Framework (PMF)
  - 10.2 Analyze performance management data via xml files and snapshots.
- 11 Manage the TSP hardware
- 12 Describe the concept of the File Transfer Utility and File Cleanup
  - 12.1 Explain how the FTU works for incoming and outgoing file transfer
  - 12.2 Use FTU GUI to configure incoming, outgoing file transfer and File Cleanup job
- 13 Discuss the Diameter protocol
- 14 Describe file system used in TSP
- 15 Describe the difference between TSP and BSP

### Target audience

The target audience for this course is:

Network Deployment Engineer, Service Deployment Engineer, System Technician, Service Technician, System Engineer, Service Engineer, Field Technician, System Administrator

### Prerequisites

TSP 7 Overview (LZU1089925)

Fundamental knowledge of UNIX/Linux based system.

The participant should be familiar with Linux, TCP/IP and SS7.

### Duration and class size

The length of the course is 4 days and the maximum number of participants is 8.

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### Learning situation

This course is based on theoretical and practical instructor-led lessons given in both classroom and in a technical environment using equipment and tools, which are accessed 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 (hours)
1	TSP O&M Concept	2.0
	Fault Management	1.5
	Backup & Restoration	1.5
	Backup & Restoration (cont.)	1.0
2	System Upgrade & Inventory	1.5
	Virtual IP	2.0
	SS7 Management	1.0
	SS7 Management (cont.)	1.5
3	Configuration Management	2.0
	Geographical Network Redundancy	2.0
	Geographical Network Redundancy (cont.)	2.0
4	DBN Disk Log	1.0
	Performance Management	1.0
	Hardware Equipment Management	1.0
	File Transfer Utility	1.0
	Diameter Base Protocol	1.0
	File System	0.5
	O&M Features in BSP Configurations	0.5

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## TSP 7 Overview



LZU1089925 R1A

### Description

This course serves as a general introduction to Ericsson Telecom Server Platform 7 (TSP 7) and its applications.

### Learning objectives

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

- 1 Explain when is TSP a good platform choice and why
- 2 Identify the applications available on TSP
- 3 Understand the TSP hardware architecture including various components (for example, processor boards) and their interrelationships under the latest hardware versions (NSP 5, NSP 6.0, NSP 6.1)
- 4 Get familiar with the BSP hardware architecture including various components (for example, processor boards).
- 5 Understand the software architecture and the characteristics of processes, disk storage, data security, software upgrade etc.
- 6 Explain what external interfaces and protocols are supported by TSP and understand the Virtual IP architecture
- 7 Examine on a basic level how node management is performed and understand what kind of node management components exist (Fault Management, Configuration Management, Performance Management, Logging Service)

### Target audience

The target audience for this course is:

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

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**Prerequisites**

The participants should be familiar with basic knowledge about telecommunications and data communications.

**Duration and class size**

The length of the course is 1 day 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.

<b>Day</b>	<b>Topics in the course</b>	<b>Estimated Time (hours)</b>
1	Introduction	1.0
	Applications on TSP	1.0
	TSP Hardware	1.0
	BSP Hardware	0.5
	Software architecture	1.5
	Interfaces and Protocols	0.5
	Node Management	0.5

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