



Short Message Service Centre 5.2

SMSC Detailed II ITP SUA (AOC) (DET2)

The Short Message Service Centre (SMSC) Detailed 2 Course follows after the SMSC Basic Operator and Detailed I Course. This intensive course goes in-depth into the SS7 and SS7-over-IP protocols and interfaces, focusing on using Cisco ITP's in combination with a SMSC and SS7 network. The course discusses SUA as a protocol of choice to connect ITP to the SMSC. Participants learn about advanced configurations and how to analyse and solve common problems.

Duration

4 days (9am–5pm, change on request)

Objectives

On completion of the course participants will:

- have gained a thorough understanding of the SS7 protocol and interfaces
- be able to trace the DECSS7 interface and to interpret its results
- be able to (re)configure ITP routing and loadsharing
- be able to configure SUA as a communication protocol between ITP and SMSC

Intended audience

This course is intended for experienced SMSC operators/system managers.

Prerequisites

It is required that participants did attend the SMSC Basic Operator Course. We recommend participants to attend the SMSC Detailed Protocols before the SS7-over-IP training, but this is not mandatory. Participants should have at least three months experience in operating and maintaining the SMSC.

Location

The course can be given at our Acision Training Centres:

- Brno, The Czech Republic
- Kuala Lumpur, Malaysia
- Sao Paulo, Brasil
- Plano, Texas, USA

Private courses can also be given at a customer site.

Class size

6 seats are available

Course schedule and registration

For more information or to enrol for a course, contact your Acision Project or Account Manager.

If you have any further training queries, contact the Product Training Department at training@acision.com

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Email: contact@acision.com



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SMSC Detailed II ITP SUA (AOC) Outline

Day 1.

Cisco ITP deployment, use cases (60 min)

- Theory: Deployment cases for Cisco ITP

SS7-over-IP protocol suite (90 min)

- Theory: Overview of SS7, SS7 over IP protocol layers and their relation to TCP/IP stack

ITP functional overview (60 min)

- Theory: Discussing the main ITP functionalities, ITP characteristics and hardware specifications

Configuration overview (60 min)

- ITP exercise: configure SS7 network parameters

SS7 MTP1 (30 min)

- Theory: Discussing the SS7 MTP1 layer functionalities

ITP exercises: configure SS7 network parameters (30 min)

ITP exercises: configure ITP interfaces (30 min)

Day 2

SS7 MTP2, SIGTRAN M2PA and SCTP (90 min)

- Theory: Discussing the functionalities of MTP2, M2PA and SCTP layers

ITP Exercises: configure links and linksets (30 min)

Application Servers (AS) and Application Server Processes (ASP) (30 min)

- Discussing the role and usability of AS and ASP

ITP exercises: configure an Application Server and corresponding ASP's (30 min)

SS7 MTP3 and SIGTRAN M3UA (90 min)

- Discussing the functionality and relationship between MTP3 and M3UA layers

Point code routing (60 min)

- Discussing the use of Point Codes in routing

ITP exercises: configure Point Code routing on the ITP (30 min)

SMSC exercises: configure Point Code routing on the SMSC (30 min)

Day 3

SS7 SCCP and SIGTRAN SUA (90 min)

- Discussing the functionality and relationship between SCCP and SUA layers

SMSC to ITP SUA interface (60 min)

- Discussing the use of SUA as a communication protocol between SMSC and ITP

ITP exercises: configuring routing on Global Title (GT) on the ITP (120 min)

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SMSC exercises: change GIW routing to GT routing on the SMSC (60 min)

TCAP and MAP (120 min)

Day 4

Multi Layer Routing (90 min)

- Discussing the logic and functionality of Multi Layer Routing

ITP exercises: MLR configuration on the ITP (90 min)

Monitoring the Cisco ITP (30 min)

- ITP Exercises: Monitoring commands and tools

Tracing (60 min)

- Exercises: Familiarize with the trace tools

Troubleshooting (60 min)

- Exercises: Solving common problems

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