Overview
The ASR 5000 xGSN Administration and Configuration Version 12.2 Cisco® Training on Demand course is a comprehensive training solution that provides detailed instruction on how to manage, monitor, configure, and administer the Cisco ASR 5000 to function as a Serving GPRS Support Node (SGSN) or a Gateway GPRS Support Node (GGSN) in a Universal Mobile Telecommunications Service (UMTS) network environment.

You will acquire conceptual and practical knowledge and gain an understanding of initial system configuration, system parameters, services configuration, software upgrades and user license application, statistical collection and analysis, threshold crossing alarms, and hardware and software troubleshooting.

This Cisco Training on Demand course is a blend of video, course materials and hands-on lab exercises.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration
The ASR 5000 xGSN Administration and Configuration Training on Demand course consists of 1 module with 13 lessons, totaling more than 7 hours of video instruction along with 3 hands-on lab exercises.
Target Audience
This course is designed for participants from any of the following disciplines who are responsible for the planning, configuration, and management of the ASR 5000:

- Network Engineering
- Network Consulting
- Customer Support
- Field Engineering

Objectives
After completing this course, you should be able to:

- Understand and use the StarOS command line interface (CLI)
- Understand contexts and context selection processes
- Perform initial system configuration including administrative users, hardware redundancy, and remote management functions
- Perform basic configurations for GGSN services
- Perform basic configurations for 3G and 2G SGSN services
- Apply software upgrades, session and feature use licenses, and configuration files
- Configure bulk statistics and systems/event logging
- Troubleshoot both hardware and software issues

Course Prerequisites
Before taking this course, you should have working knowledge and skills about the following:

- IP routing and networking protocols
- UMTS network operation

Course Outline
- Lesson 1: SGSN and GGSN Services Overview
- Lesson 2: ASR 5000 Hardware Overview
- Lesson 3: Software Architecture
- Lesson 4: Initial System Configuration
- Lesson 5: Configuring System and Management Parameters
- Lesson 6: Configuration Terminology
- Lesson 7: Configuring GGSN Functionality
- Lesson 8: SGSN 3G Services Administration
- Lesson 9: SGSN ATM Interfaces & SS7 Addressing & Routing with Global Title Translation
- Lesson 10: SGSN Operator Policies
Lesson 11: Configuring Bulk Statistics
Lesson 12: Traffic Policing
Lesson 13: Threshold Crossing Alarms

Labs Outline
This course contains three hands-on virtual lab exercises. The topology for all labs is shown in Figure 1.

Figure 1. Topology for All Labs in ASR 5000 xGSN Administration and Configuration Course

The labs included in this course are:

- Lab 1: Exploring the CLI
- Lab 2: Configuring a Basic GGSN on ASR 5000
- Lab 3: Configuring the SGSN Services on an ASR 5000

Instructor: Sim Soulard
Jim Soulard has more than 25 years of industry experience. He’s been helping Cisco customers for more than 15 years as both a professional troubleshooter having spent 5 years as a TAC Engineer and then as a Project Manager managing new product delivery and updated releases. Jim has spent the last 5 years as a Technical Trainer delivering UMTS and LTE ILT training around the world. Jim Lives in Massachusetts where he continues to develop course content and deliver complex course delivery to talented professionals looking to transform their careers.

Supported Configurations
Cisco Training on Demand videos are supported on PCs, Macs, and tablets using one of the following browsers, or later: Mozilla Firefox 30, Google Chrome 35, and Apple Safari 6. The labs are supported on PCs and Macs, but not on tablets.
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