

# EMC Smarts IP Manager Administrator Training

## Course Description



Instructor-Led  
Training

Course Number: SM-ES-CE-S-IP210	
Method: ILT	Duration: 2 Days

### Course Overview

This hands-on course is designed to provide an understanding of how EMC Smarts IP Availability Manager and EMC Smarts Performance Manager can be used to provide effective infrastructure management. It provides an overview of EMC Smarts Technologies and the EMC Smarts Architecture and an in-depth explanation of the Administration Consoles. Advanced features and functions of EMC Smarts for IP are covered, including creating management policies and controlling Discovery from the command line. Hands-on labs allow participants to install and configure EMC Smarts on a live network under the guidance of an expert instructor.

### You Will Learn How To:

- View the results of the EMC Smarts diagnostic analysis
- Explore the wealth of information discovered by EMC Smarts
- Install and Configure EMC Smarts Software
- Understand how to start and stop an EMC Smarts for IP Domain Manager with the various options
- Launch the powerful EMC Smarts Discovery process
- Enable, configure and monitor Auto-Discovery
- Create management policies and apply them to the managed domain
- Set connectivity and performance thresholds to for selected groups of ports, interfaces and systems
- Customize the internal trap adapter of the Domain Managers
- Control the management of systems and their components in the ICIM topology
- Utilize Redundancy Groups to control the management of systems, cards and interfaces
- Communicate with EMC Smarts Domain Managers using dmctl

### Target Audience

System Administrators, System Engineers, Application Developers, and IT Managers.

### Prerequisites

EMC Smarts Service Assurance Manager Administrator Training (ES-ADM-200)

### Course Content

#### Overview

- EMC Smarts Technologies
- EMC Smarts Applications
- Service Assurance Manager

# EMC Smarts IP Manager Administrator Training

## Course Description



Instructor-Led  
Training

### Fundamentals of EMC Smarts for IP

Systems managed by EMC Smarts for IP and their components

Authentic problems diagnosed by EMC Smarts for IP

The EMC Smarts Common Information Model

EMC Smarts for IP diagnostic analysis

Running an EMC Smarts Application

Start and stop the Broker

Start and stop a Domain Manager

Start EMC Smarts components automatically

Verify Broker and Domain Manager status

### Topology Discovery

Design principles

Discovery architecture

Device certification

“Seed file” and “Add Agent” discovery options

Auto-Discovery

Filters

Periodic discoveries

Management and deletion of topology objects

### Polling and Threshold Groups

The EMC Smarts polling processes

Management policies

Polling and Thresholds Console

Redundancy Groups

Types of Redundancy Groups

Problems Diagnosed for Redundancy Groups

### HSRP Groups and Their Diagnoses

Trap Adapters

Command Line Utilities

### Hands-On Exercises

Throughout this course, hands-on exercises provide practical, extensive experience deploying, administering, and operating the EMC Smarts IP Availability Manager. Exercises are performed under the guidance of an experienced instructor, and include:

Start and stop EMC Smarts for IP Domain Managers

Verify Broker and Domain Manager status

Configure EMC Smarts services

# EMC Smarts IP Manager Administrator Training

## Course Description



Instructor-Led  
Training

- Set the default discovery settings
- Discover multiple systems using a seed file
- Discover systems individually
- Enable Autodiscovery
- Specify Autodiscovery sources
- Create discovery filters
- Trigger Autodiscovery
- Configure Throttling
- Understand polling requirements
- Create polling groups
- Set management polling specifications
- Create interface, port, and system resource groups
- Set connectivity and performance thresholds
- Use the command line interface (dmctl) interactively
- Query the domain manager for information
- Set attributes
- Use dmctl in batch mode
- Subscribe to notifications with dmctl