

HP Education Services Course Overview

HP Network Node Manager Software I (UC340S)



This 5-day course provides operational and administrative skills for the HP Network Node Manager 7.53 Software product. Learn how HP Network Node Manager (NNM) Software can be used to maximize your network's availability and performance. In this course you will explore the operational and administrative aspects of NNM on UNIX® and Windows systems. You will learn how to effectively utilize NNM in the successful management of small, medium, or large networked enterprises.

Audience

- System and network administrators

Prerequisites

- HP-UX System and Network Administration I (H3064S) and HP-UX System and Network Administration II (H3065S), or equivalent HP-UX hands-on experience
- Alternatively, you should have experience as an MS Windows system/network administrator

Course Objective

- Understand the NNM 7.53 features
- Navigate and interpret all NNM user interfaces
- Use maps and submaps to develop network architecture that will maximize network performance
- Use the simple network management protocol (SNMP) to access and change the network configuration and status parameters
- Troubleshoot problems in an NNM environment and use key concepts to reduce down time
- Describe the NNM architecture, processes, and databases
- Configure NNM discovery domains (extend and limit)
- Describe the Extended Topology component and enable its operation
- Configure alarms to provide specific feedback and take automatic actions
- Collect MIB data from any managed network nodes
- Backup the NNM data

Benefits to You

Learn how to use NNM to:

- Maximize availability of network resources and network speed
- Identify emerging problems and resolve them before they become visible to others
- Dramatically reduce network downtime
- Gain practical experience navigating the NNM user interface

Why education services from HP?

- Learn from the experts who developed HP Software
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- State-of-the-art classroom facilities
- Hands-on practice
- Focus on job-specific skills
- More than 120 locations worldwide
- Customized on-site delivery
- Online instructor-led and self-paced training at <http://itresourcecenter.hp.com>

Course Title: HP Network Node Manager Software I

HP Product Number: UC340S

Category/Subcategory: OpenView / OpenView Network Management

Course Length: 5 days

Level: Intermediate

Delivery Language: English

To Order: You can order this course online at <http://www.hp.com/learn>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

Next Steps: HP Network Node Manager Software II (UC341S)

Detailed Course Outline

Introducing Network Node Manager

- The network management model
- A network management protocol SNMP
- NNM product structure and capabilities

Introducing the NNM User Interfaces

- Describe the basic troubleshooting path for management by exception
- Start Network Node Manager Home Base
- Launch Dynamic Views from Home Base, the Alarm Browser, or the Tools menu
- Compare operation with ovw

NNM Processes and Databases

- NNM databases and how to interact with them
- NNM processes and their interaction

Viewing Your Environment with Dynamic Views

- Interpret visual cues used in Dynamic Views
- Access and sort information in Active Tables
- Expand only relevant areas of displays

Viewing Your Environment with ovw

- Map and submap operations
- IP Submap hierarchy
- Visual cues in ovw
- Retrieving an object's attributes

Creating and Customizing Maps

- Creating a new map
- Customize map background, layout, etc.

Viewing Your Environment with the Network Presenter

- Access ovw maps from the Network Presenter

Using NNM Monitoring Tools

- Test basic connectivity
- Check the configuration of a device
- View connectivity in your network

Using Problem Diagnosis

- List the components of Problem Diagnosis
- Start the Problem Diagnosis view
- Read a Path Map, Path Detail and Trek Detail diagram
- Describe Problem Diagnosis' brownout alarms

Viewing Alarms

- Browse and acknowledge alarms
- Access correlated alarms
- Access a graphical view of the node from an alarm

Working with the MIB

- The management subtree
- Loading additional MIB modules
- Browsing MIB data on a node

Working with SNMP

- Configure SNMP community names

Discovering Your Network with netmon

- Describe how netmon discovers new nodes

Configure netmon Polling

- Configure polling intervals
- Manage and unmanage network objects

Configuring Process Behavior and Startup

- Configure registration files
- Start and stop individual processes

Building and Using Filters

- Read and write filter file syntax

Controlling netmon Discovery

- Redo initial discovery
- Extend discovery through seedfiles and loadhosts
- Limit discovery through noDiscover files and filters

Scaling netmon Discovery and Polling

- Manage and unmanage interfaces
- Control DNS lookups

Configuring Events and Alarms

- Change message, category, severity
- Automatically launch a program to take an action

Using Data Collection and Thresholds

- Configure NNM to monitor MIB object values
- Set threshold values and trigger events

Backing Up NNM Data

Securing the NNM Web User Interface

- Add password protection to the Network Presenter and Launcher

Discovering Connectivity with Extended Topology

- Compare and contrast netmon and Extended Topology discovery

Enabling Extended Topology

- Activate Extended Topology
- Start an Extended Topology discovery
- Configure Extended Topology discovery

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