

Network Node Manager Software for Network Operators

Varighet: 2.00 Days Kurskode: NNMSNO

Beskrivelse:

This 2-day course provides operational skills for the Network Node Manager i (NNMi) Software product. The course is targeted to network operators who are responsible for using the NNM product to troubleshoot the networked environment. This includes an overview of the NNMi product, key terminologies and definitions, and an overview of using NNMi to troubleshoot a networked environment. The course is approximately 50 percent lecture and 50 percent lab. The lab exercises use version 9.1 of the software. This course is designed for operators of the Network Node Manager i Software 9.x application.

Målgruppe:

This course is intended for network operators seeking a more in-depth knowledge of Network Node Manager i Software 9.x.

Agenda:

- At the end of the course, you will be able to:
 - Use the NNMi product to monitor and troubleshoot a networked environment.
 - Rapidly identify and address problems, thus reducing downtime and increasing system utilization.
 - Use the NNMi monitoring tools to obtain the information necessary to use networked devices at optimal performance and efficiency.
 - Describe the basics of Simple Network Management Protocol (SNMP).
 - Configure status monitoring
 - Customize the NNMi user interface
 - Configure traps and incidents
 - Monitor incidents and perform network diagnostics
 - View performance reports
-

Innhold:

Module 1: Introduction to HP Network Node Manager i Software

- Course Objectives
- Course Outline
- Module Objectives
- HP BTO Software Portfolio
- HP Network Management Center
- Business Requirements Drive the Operational Objectives for Network Operations
- How NNMi Addresses Business Challenges
- Operational Success Depends on Information
- Reducing Mean Time to Repair
- Current Network Configuration and Health
- Continuous, Accurate Spiral Discovery
- Comprehensive Device Monitoring
- Active Root Cause Analysis on Changing Topology
- Map-based Management
- Resolving a Current Problem
- Graphical Topology Visualization
- Application Aware Network Management
- Router Fault Example
- Application Level Failover
- NNMi Product Structure
- NNMiSmart Plug-ins
- Products

Module 2: Touring the Management Console

- Module Objectives
- Starting the Management Console
- Accessing Online Help
- Workspaces
- Map Views
- Interpreting Map Symbols
- Interacting with Maps
- Table Views
- Accessing More Details About an Object
- Working with Objects in NNMi
- Modifying Attribute Values for an Object
- Invoking Actions
- Refreshing a View
- Using Table Views
- Filtering Views
- Exporting Table Information
- Finding a Node
- Touring the Workspaces
- Incident Management
- Incident Browsing
- Topology Maps: Visualize Key Groups
- Troubleshooting: Visualize Relationships
- Inventory: The Whole List
- Management Mode: Manage Monitoring
- Configuration: Tools for Configuring NNMi
- Displaying NNMi System Information
- Module Summary

Module 3: Managing Incidents

- Module Objectives
- Monitoring Your Network Using an Incident View
- Primary Incident Use Model
- Incident Concepts

Module 4: Troubleshooting Network Issues

- Module Objectives
- Monitoring the Network for Problems
- Map Based Management
- NNMi Intuitive Interface: Map-based Management
- Viewing Logical Network Overview
- Viewing Node Group Status Overview
- Viewing Propagated Network Infrastructure Device Status
- Viewing Router or Switch Connectivity
- Checking Status Details for a Node Group
- Troubleshoot from Map View
- Showing Key Incidents by Enlarging Nodes
- Adjusting Map Layout
- Viewing Details
- Viewing Analysis Pane for a Node
- Exploring Node Details
- Troubleshoot from Node Details
- Viewing Interface Details
- Using the IP Address Form
- Using the Cards Form
- Viewing Card Details
- Using the Port Form
- Troubleshooting Tools
- Troubleshooting from the Incident

Module 5: Managing SNMP and ICMP Communication

- Module Objectives
- The Network Management Model
- A Network Management Protocol - SNMP
- The Management Information Base
- NNMi Uses SNMP
- SNMP Authentication
- NNMi Communication Layer Architecture
- Communication Parameters and Assignment
- Coordinating NNMi Configuration Areas
- Communication Parameter Lifecycle – Discovery
- Using Alternative Authentication Strings
- Communication Parameter Lifecycle – Monitoring
- Re-Discovery (with or without Configuration Change)
- Configuring the Communication Layer
- Starting Communication Configuration
- Default Protocol Settings for Communication (SNMPv1 or SNMPv2c)
- Setting Default Minimum Authentication Level
- Setting Default Community Strings (SNMPv1 or SNMPv2c)
- Configuring

Module 6: Node and Interface Groups

- Module Objectives
- Node Groups Are Used in Many Places
- Group Overlap
- Hierarchies and Containment
- How Node Groups Get Populated

Module 7: Customizing Views

- Module Objectives
- Customizing NNMi Node Group Maps
- Adding Node Group to List of Maps
- Setting Map Ordering
- Preserving User Layouts
- Customizing Node Group Maps
- Node Group Connectivity
- User-Provided Backgrounds
- Applying Background Image
- Displaying Map Automatically
- Adding Connection to Path View
- Adding a Path
- Amending a Path View Map
- Module Summary
- Lab Exercises
- Lab Solutions

Module 8: Customizing Event Monitoring

- Module Objectives
- Open Incident Configuration
- Specifying an Author for Your Incident Configuration
- Working with Management Events
- NNMi Management Event Configuration Tab
- Modify Configuration
- Adding a Category
- Adding a Family
- Specifying Message Format
- Working with SNMP Traps
- Traps: From Device to Management Station
- Default Traps Enabled as Incidents
- Enabling Specific Traps in NNMi Console
- Adding a Trap Configuration
- SNMP Trap Configuration
- Trap Addresses
- Loading a Trap Definition from MIB File
- Deleting Trap Configuration
- Blocking Traps
- Database Limits for Number of Traps
- Block Event or Trap Reception
- Configure What to Block
- Block Trap Storms
- Additional Trap Service Configurati

Module 9: NNM iSPI Performance for Metrics Software Reports

- Module Objectives
- Launching NNM iSPI Reports from NNMi
- Single Sign On
- Report Menu
- Performance Reporting Domains
- iSPI Self Diagnostics
- Interface Health
- Component Health
- Setting Report Options
- Results Scoped by Interface
- Interface Utilization and Exceptions
- Detecting Performance Problems Along a Path
- Reviewing Trends This Month: Isolate

<ul style="list-style-type: none"> – Incident Views Provided by NNMi – Viewing Key Incidents – Organizing Your Incidents – Incident Lifecycle – Finding Unassigned Incidents – Owning an Incident – Assigning Incident Using Details Page – Starting Working on Incident – Tracking an Incident's Progress – Changing Lifecycle State – Viewing Incidents by Lifecycle State – Noting Actions Taken and Results – Completing an Incident – Closing an Incident – Viewing Closed Key Incidents – Viewing Incident Details: Basic Attributes – Incident Details – Viewing Incident Attributes – Viewing Incident Diagnostic Results – Additional Incident Views – View All Inciden 	<ul style="list-style-type: none"> – Default Node Groups – Creating a Node Group – Setting Availability for View Filtering – Assigning Specific Nodes to a Node Group – Child Node Groups – Adding a Device Filter – Selecting Device Descriptors – Selecting the Device Model – Specifying Node Group Additional Filters – Operators in the Additional Filters Editor – Using a Text File to Create Node Groups – Syntax of Comma Separated File – Example Spreadsheet – Finding an SNMP OID to Use in Text File – Finding a Unique Key Value to Use in Text File – Finding Which Nodes Belong to a Group – Configuring Node Group Status Propagation – Spec 	<ul style="list-style-type: none"> Performance Spikes – Summarizing Network Behavior – Reviewing Trends – Ranking Nodes by Amount of Change Over Time – Ranking Performance Utilization – Managing Reporting Using BI Server Portal – Accessing BI Server Portal – Features in BI Portal – Scheduling (and Emailing) a Report – Using Jobs to Schedule Multiple Entries – Module Summary – Lab
---	---	--

Ytterligere informasjon:

For mer informasjon eller kursbooking, vennligst ring oss 22 95 66 00

info@globalknowledge.no

www.globalknowledge.no

Grenseveien 97, 0663 Oslo, PO Box 6256 Etterstad, 0606 Oslo, Norway