Hewlett Packard Enterprise

Course Data Sheet

OMI200 – Operations Manager i Software 10.x Advanced

Course No.: OMI200	Category/Sub Category: Business Service Management
For software version(s): 10.0 Software version used in the labs: 10.01	Course length: 5 days
Delivery formats: Instructor Led (ILT) and Virtual Instructor Led (VILT)	Training is available as a private session onsite.
To order visit: HPE Software Education Services	

Course Description

This five-day, advanced, instructor-led course is designed for technically experienced HPE Operations Manager i (OMi) 10.x administrators and support personnel. It covers advanced concepts, principles, methodologies, and hands-on configuration of the OMi software and solutions. In addition, this training provides an opportunity for OMi administrators to learn how to extend the value of their current implementation using custom event handling and integration with other applications.

This course includes hands-on labs that use version 10.01 of the OMi software.

Audience/Job Roles

This course is intended for technically experienced OMi 10.x:

- IT Tools engineers
- Operations staff
- Operations managers
- Availability engineers
- System administrators
- Network administrators

Course Objectives

Upon successful completion of this course, you should be able to:

- Describe, configure, and troubleshoot Configuration Item (CI) resolution
- Describe, configure, and troubleshoot Event Type Indicators (ETI) resolution
- Describe, configure, and troubleshoot the primary stages of the event pipeline
- Customize the way health information is processed and displayed in OMi
- Import third-party data using the Business Service Management (BSM) Connector
- Create OMi custom actions

- Create an event processing customization based on an existing script
- Describe Closed Loop Incident Process (CLIP) and the primary deployment use cases
- Configure integration between OMi and HP Network Node Manager i (NNMi)
- Troubleshoot issues with OMi
- Describe the features and use cases Monitoring Automation (MA)
- Provision nodes within MA and deploy monitoring to nodes and applications
- Create and deploy policy templates and management templates
- Use existing HPOM policies with MA
- Manage HPE SiteScope monitoring with MA

Prerequisites/Recommended Skills
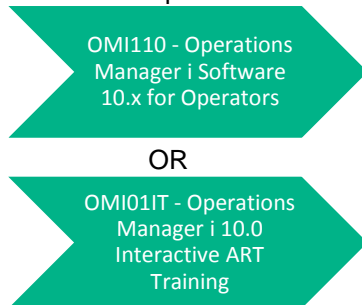To be successful in this course, you should have the following prerequisites or knowledge.
- OMI120 – Operations Manager i Software 10.x Essentials course
- Experience with HP Operations Manager i (OMi) 10.x software
- IT operations principles and practices
- Systems and network administration
- Industry-standard operating systems
- Network, system, and application monitoring principles and practices

Learning Path

For Administrators:

OMI120 - Operations Manager i Software 10.x Essentials

OMI200 - Operations Management i Software 10.x Advanced

For Operators:

OMI110 - Operations Manager i Software 10.x for Operators

OR

OMI01IT - Operations Manager i 10.0 Interactive ART Training

Certification
N/A

Course Topics

Modules	Objectives
Module 1: Course Overview	• Course objectives • Class logistics • The lab environment • Additional course information • Course schedule
Module 2: Event Pipeline	• Describe event processing that is performed on the OMi Gateway server • Describe event processing that is performed on the OMi Data Processing server • Describe the affect each stage of the event pipeline has on events • Locate and tune the operating parameters relevant to each stage of the pipeline • Locate log messages relevant to each stage of the pipeline
Module 3: CI and ETI Resolution	• Explain CI resolution processing • Recommend appropriate hints to be provided by event sources • Configure the CI resolution cache • Describe how Event Type Indicators (ETIs) enable sophisticated OMi processing • Follow best practices to customize and use ETIs • Describe how data collectors deliver ETI hints in events • Resolve issues related to ETI resolution • Locate log files containing CI and ETI resolution entries
Module 4: Service Health Customization	• Describe customizing Service Health to meet unique requirements • Create HIs • Create Key Performance Indicators (KPIs) • Create KPI assignments • Describe the operation of KPI Enrichment Service (KES) • Describe the operation of Multi-process Architecture Business Logic Engine (MARBLE)
Module 5: BSM Connector Overview and Topology Policies	• Describe the features and capabilities of BSMC • Describe how BSMC provides events, metrics, and topology to OMi • Describe the BSMC policy types • Access the BSMC policy management user interface • Create BSMC policies to deliver topology to the RTSM • Verify that topology is delivered successfully to the RTSM • Troubleshoot topology delivery issues • Use BSMC administration tools • Locate primary BSMC log files
Module 6: BSMC Event and Metric Policies	• Create BSMC metric log file policies • Create BSMC metric log file policies • Create BSMC event log file policies • Create BSMC database policies • Create BSMC XML file policies

Module 7: Service Manager Integration with OMi	• Describe the basic features and value of Service Manager • List the HPE applications that are integrated with Service Manager • Describe the basic features and value of a Closed Loop Incident Process (CLIP)
Module 8: Integrating OMi with NNMi	• Describe the value of integrating NNMi with OMi • Configure topology integration between NNMi and OMi • Configure OMi to access visual displays provided by NNMi • Configure event integration between NNMi and OMi • Verify successful integration between NNMi and OMi
Module 9: Monitoring Automation Overview	• Describe the features and benefits of Monitoring Automation (MA) • Describe how MA monitoring is organized • Describe the purpose of MA policy templates • Access and view policy templates • Describe the purpose of MA aspects • Access and view aspects • Describe the purpose of MA management templates • Access and view management templates • Activate and register managed node agents • Describe the monitoring strategies enabled by MA
Module 10: Monitoring with MA	• Describe the recommended monitoring workflow • Assign a management template to a CI • Tune the parameters of assigned monitoring • Tune instance-dependent parameters • Create an automatic assignment rule • Access and use MA reports • Access MA-related log files
Module 11: Policy Templates	• Create and assign a basic policy template • Add parameters to a policy template
Module 12: Custom Monitoring	• Create and assign a basic aspect • Create a basic management template
Module 13: Using Existing HPOM Policies	• Plan to move HPOM policies to OMi • Use the policy statistics utility to analyze HPOM policies • Download existing policies from an HPOM management server • Check downloaded policies for OMi compatibility • Check Policies for OMi best practices • Upload HPOM policies into OMi • Adjust uploaded policies for OMi compatibility and best practices • Parameterize uploaded policies

Module 14: MA Operation with SiteScope	• Describe the naming convention applied to SiteScope (SiS) templates transferred to OMi • Describe how SiS custom template variables become OMi policy parameters • Describe how the instance variable is identified by the ConfigExchangeSIS utility • Use ConfigExchangeSIS to transfer SiS templates to OMi • Verify successful transfer of SiS templates to OMi • Deploy OMi aspects to SiS
Module 15: OMi API Overview	• Describe three methods used to access and manipulate information within OMi • List and describe the primary APIs available within OMi
Module 16: Custom Actions	• Explain the purpose and operation of custom actions • Access and execute custom actions • Analyze the results of custom actions executed • Describe the primary areas of OMi that support customization using Groovy script • Create a custom action • Verify successful operation of a custom action • Add logging to a custom action • Access the Java documentation for OMi-related APIs
Module 17: Event Processing Scripts	• Describe event processing interface entry points in the pipeline • Describe EPI scripting use-cases • Explain the required components of an EPI script • Create an event processing customization based on an existing script • Verify successful operation of an event processing customization • Add logging to an EPI script • Install and use the OMi Script Development Kit
Module 18: OMi Troubleshooting	• Analyze the status of OMi in the OMi Status page • Analyze the status of OMi using OMi self-monitoring • Locate log files related to data flow into and within OMi • Modify the level of detail logged by OMi processes • Capture log files using the LogGrabber utility • Use the OMi Logging Administrator to consolidate messages from multiple log files
Appendix A: User Engagement	• Describe the benefits of User Engagement (UE) • View awards in the UE Timeline page • Track progress using UE Achievements page • Control participation and identifying information • Configure thresholds for awarding achievements • Configure points awarded per activity