

Operations Bridge Manager Advanced (OBMA)

ID OBMA Price 4,000.— €(excl. tax) Duration 5 days

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Course Overview

This five-day, advanced, instructor-led course is designed for technically experienced Operations Bridge Manager 2022.x administrators and support personnel. It covers advanced concepts, principles, methodologies, and hands-on configuration of the OBM software and solutions. In addition, this training provides an opportunity for OBM 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 2022.05 of the OBM software.

Who should attend

This course is intended for:

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

Prerequisites

To be successful in this course, you should have the following prerequisites or knowledge:

- IT operations principles and practices
- Systems and network administration

- Industry-standard operating systems
- Network, system, and application monitoring principles and practices

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
- Create and tune Topology Based Event Correlation (TBEC) rules
- Create and tune Stream Based Event Correlation (SBEC) rules
- Create and tune Time-Based Event Automation (TBEA) rules
- Create OBM custom actions
- Create and tune event suppression rules
- Create queries, views, and models in RTSM
- Customize the way health information is processed and displayed in OBM
- Create an event processing customization based on an existing script
- Create and deploy policy templates for Data collection using:
 - Measurement Threshold Policy Template
 - REST Web Service Policy Template
 - Database Policy Template
 - Structured Log File Policy Template
- Configure Metric Streaming on nodes using the OPTIC DL (COSO) data source
- Provide an overview of OpsCx and Topology & Metric Policies

Course Content

- Module 1: Course Overview
- Module 2: Event Pipeline
- Module 3: CI Resolution
- Module 4: ETI Resolution

- Module 5: Event Reduction Tuning
- Module 6: Topology-Based Event Correlation
- Module 7: Stream-Based Event Correlation
- Module 8: Event Automation and Forwarding
- Module 9: RTSM Modeling
- Module 10: Event Processing Interface
- Module 11: Custom Actions
- Module 12: Service Health Customization
- Module 13: Measurement Threshold Policy Templates
- Module 14: REST Web Service Policy Templates
- Module 15: Database Policy Templates
- Module 16: Structured Log File Policy Templates
- Module 17: OPTIC Data Lake (OPTIC DL)*
- Module 18: OpsCx Overview and Topology Policies
- Module 19: OpsCx Metric Policies
- Appendix: OBM MOM Configuration*

*The lab exercises for this module are provided as instructor demos (not hands-on labs).

Detailed Course Outline

Module 1: Course Overview

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Discuss the lab environment
- Identify the additional course information

Module 2: Event Pipeline

- Describe event processing in OBM Gateway Component
- Describe event processing in OBM Data Processing Component
- Describe the effect of each event pipeline step on events
- Locate and tune parameters relevant to each stage of the Event Pipeline
- Locate log messages relevant to each stage of the Event Pipeline
- Use Performance Dashboard to View Event Pipeline Statistics

Module 3: CI Resolution

- Explain CI resolution processing
- Recommend appropriate hints to be provided by event sources
- Configure the CI resolution cache

Module 4: ETI Resolution

- Describe how Event Type Indicators (ETIs) enable sophisticated OBM 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 ETI resolution entries

Module 5: Event Reduction Tuning

- Configure the Close Related Events feature of OBM
- Use the Duplicate Event Suppression feature of OBM
- Use the Event Suppression feature of OBM
- Configure the Event Storm Suppression feature of OBM

Module 6: Topology-Based Event Correlation

- Define Topology Based Event Correlation (TBEC)
- Identify the TBEC operation
- Use the Correlation Manager
- Correlate rule creation
- Automate cross-domain correlation
- Relate events manually

Module 7: Stream-Based Event Correlation

- Configure the Stream Based Event Correlation (SBEC) feature of OBM

Module 8: Event Automation and Forwarding

- Configure the Time-Based Event Automation (TBEA) feature of OBM
- Analyze OBM event forwarding capabilities
- Define the Event Processing Interface (EPI) script capabilities
- Identify custom actions

Module 9: RTSM Modeling

- Identify the purpose of Modeling Studio
- Define a model
- Create a view
- Define a TQL query
- Use the Modeling Studio to create a:
 - Instance-Based Model
 - Pattern-Based Model
 - Perspective-Based View
 - Pattern View
 - Template and Templated-Based View

Module 10: Event Processing Interface

- 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 the successful operation of an event processing customization
- Access the Java documentation for OBM-related APIs
- Add logging to an EPI script
- Install and use the OBM Script Development Kit
- Use Groovy Console

Module 11: 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 OBM that support customization using the Groovy script
- Create a custom action
- Verify the successful operation of a custom action
- Add logging to a custom action

Module 12: Service Health Customization

- Describe customizing Service Health to meet unique requirements
- Create Health Indicators (HIs)
- Create Key Performance Indicators (KPIs)
- Create KPI assignments
- Describe the operation of KPI Enrichment Service (KES)
- Describe the operation of the Multi-process Architecture Business Logic Engine (MARBLE)

Module 13: Measurement Threshold Policy Templates

- Create and assign a Measurement Threshold policy template

Module 14: REST Web Service Policy Templates

- Create a REST Web Service policy template
- Assign REST web Service policy template
- Test the REST web Service policy template

Module 15: Database Policy Templates

- Create a Database policy template
- Assign a Database policy template
- Test a Database policy template

Module 16: Structured Log File Policy Templates

- Create a Structured Log File policy template
- Assign Structured Log File policy template
- Test the Structured Log File policy template

Module 17: OPTIC Data Lake (OPTIC DL)*

- Explain the Containerized OpsBridge Suite deployment architecture and its components
- Explain the concepts of OPTIC Data Lake (OPTIC DL)
- Describe OPTIC DL Data Collection
- Explain OPTIC DL Integrations
- Describe OPTIC DL Out-of-the-Box (OOTB) BVD Reports
- Configure metric streaming aspect for target nodes

Module 18: OpsCx Overview and Topology Policies

- Describe the features and capabilities of OpsCx
- Describe how OpsCx provides events, metrics, and topology to OBM
- Describe the OpsCx policy types
- Access the OpsCx policy management user interface
- Create OpsCx policies and deploy on OpsCx to deliver topology to the RTSM
- Verify that topology is delivered successfully to the RTSM
- Troubleshoot topology delivery issues
- Use OpsCx administration tools
- Locate primary OpsCx log files

Module 19: OpsCx Metric Policies

- Create OpsCx metric log file policies
- Assign the policy on OpsCx
- Verify Data in the OA Metric Store
- Verify Data in OBM Performance Dashboard

Appendix: OBM MOM Configuration*

- Provide an overview of OBM MOM configuration
- Configure Lightweight Single Sign-On (LW-SSO) on all OBM servers
- Establish a trust relationship between all OBM servers
- Configure all OBM servers that communicate with each other as connected servers
- Configure topology forwarding using Data Flow Management
- Configure event forwarding

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