NOM OPTIC Data Lake Reporting (NOMOMT120)

ID NOMOMT120 **Price** 3,200.— €(excl. tax) **Duration** 4 days

Important notes for the booking of Open Text trainings

Please note that prepayment is required for participation in an Open Text training course. Participation in a training course is possible for 12 months after booking the course. Cancellations are excluded. For further information, please refer to **our** General Terms and Conditions.

Course Overview

Containerized NOM offers Stakeholder Dashboarding and Flex Reporting capabilities based on data collected from OpenText products such as Network Node Manager i (NNMi) and Network Automation (NA). It includes several components such as OPTIC Data Lake (OPTIC DL), OPTIC Management Toolkit (OMT), Stakeholder Dashboards (which was earlier known as Business Value Dashboard or BVD), Flex Reporting, and Vertica DB. The OPTIC Data Lake collects and normalizes network monitoring-related data, which gets stored in the Vertica database and is then presented through Stakeholder Dashboards and Flex Reports.

This four-day, entry-level, instructor-led training course offers technical personnel, who are new to Network Operations Management (NOM) and OPTIC Management Toolkit Foundation (OMT), the opportunity to develop hands-on experience in applying the fundamental principles, methodologies, and capabilities for managing and displaying NOM reporting data using Stakeholder Dashboards, Flex Reporting and OPTIC DL, Incident Troubleshooting, Performance Troubleshooting and Performance Maps.

This course includes hands-on labs that use the latest version of the OPTIC Data Lake and OMT platform for the NOM Suite.

Highlights:

- Learn how to get started with Stakeholder Dashboards
- Create Dashboards using pre-created Visio templates to visualize information from different data sources in an informative and appealing way
- Configure and use out-of-the-box (OOTB) NOM OPTIC DL reports
- Create custom Dashboards
- Manage Stakeholder Dashboards user access and permissions
- Integrate NOM data sources & data collectors with Stakeholder Dashboards and OPTIC DL
- Learn about Flex Reporting and its features
- Launch OOTB Flex Reports using the OPTIC One user interface
- Configure custom Flex Reports using key infrastructure and performance-related NOM KPIs
- Populate the Flex Reports with data collected in OPTIC Data Lake from the NNMi and NA data sources

Who should attend

Network Administrators and Network Operators

Prerequisites

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

- Network device operations, principles, and practices
- Network monitoring principles and practices using SNMP protocol
- Industry-standard operating systems

Course Objectives

On completion of this course, participants should be able to:

- Learn about OPTIC Platform and NOM OMT Suite
- Describe the architecture of the OPTIC Management Foundation (OMT)
- Explain about OPTIC OMT and Key Container Terminology
- Describe the Containerized NOM Suite deployment and its components
- Use Stakeholder Dashboards to effectively identify and represent different types of network data
- Navigate the Stakeholder Dashboards User Interface
- Integrate NOM Data Sources (NNMi and NA) with SD, and perform OPTIC Data Lake – NOM data sources integration

- Generate NOM data source based out-of-the-box (OOTB) reports
- Integrate Data Collectors with SD
- Navigate the OPTIC One User Interface to access Flex Reports
- Integrate NOM Data Sources (NNMi and NA) with OPTIC DL
- Access the NOM data source-based OOTB Flex Reports using the OPTIC One UI
- Create and populate custom Flex Reports with network infrastructure, configuration and performance data from OPTIC DL
- Use Performance Maps in NOM for monitoring network performance metrics
- Manage Stakeholder Dashboards user access and permissions and perform Stakeholder Dashboards Administration
- Describe OMT and Vertica Administration

Course Content

- Module 1: Course Overview
- Module 2: Introduction to OPTIC and OMT Architecture
- Module 3a: NOM Suite and Stakeholder Dashboards Overview
- Module 3b: NOM Architecture
- Module 4: Getting Started with Stakeholder Dashboards
- Module 5: Integrating NOM Data Sources with Stakeholder Dashboards
- Module 6: Optic DL - NOM Data Collection and Stakeholder Dashboards Data Collectors
- Module 7a: Using NOM OPTIC DL Reporting
- Module 7b: Using NOM OPTIC DL Reporting
- Module 8: Performance Troubleshooter and Incident Troubleshooting
- Module 9: Performance Maps
- Module 10: Introduction to OPTIC ONE and Flex Reporting
- Module 11: Using NOM Flex Reporting
- Module 12: Integrating NNMi and NA with Stakeholder Dashboards
- Module 13: OMT Administration

Detailed Course Outline

Module 1: Course Overview

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Discuss the lab environment details

Module 2: Introduction to OPTIC and OMT Architecture

- NOM Application Overview
- OPTIC Management Toolkit (OMT) Overview
- Containers and Kubernetes
- Embedded Kubernetes
- External Kubernetes: managed and BYOK
- OPTIC Management Toolkit (OMT) and OPTIC DL Architecture

Module 3a: NOM Suite and Stakeholder Dashboards Overview

- NOM Classic Components
- NOM Containerized Components
- NOM Deployment on OPTIC DL
- NOM UI Navigation

Module 3b: NOM Architecture

- NOM Architecture
- NOM Classic Components Architecture:
- NNMi
- NA
- iSPI for Traffic, QA, MPLS, Multicast
- NOM Containerized Components Architecture:
- OPTIC Data Lake and OPTIC Management Toolkit (OMT)
- Stakeholder Dashboards (earlier known as Business Value Dashboards or BVD)
- Performance Troubleshooter (PT)
- Incident Troubleshooting

Module 4: Getting Started with Stakeholder Dashboards

- Install Tools and Samples
- Import the Visio stencil into Microsoft Visio
- Describe the Stakeholder Dashboards widgets
- Use Microsoft Visio to create the Visio dashboards and SVG files
- Upload the SVG files in Stakeholder Dashboards
- Explain Widget properties
- Describe the Dashboard Creation Process
- Develop Custom Widget

Module 5: Integrating NOM Data Sources with Stakeholder Dashboards

- Explain dimensions and tags
- Send data from NNMi to Stakeholder Dashboards
- Send data from NA to Stakeholder Dashboards
- Integrate custom data sources with Stakeholder Dashboards
- Link data channels to Stakeholder Dashboards widgets
- Configure dashboard shapes or widgets
- Display data in Dashboards
- Connect Stakeholder Dashboards to Vertica Database

Module 6: Optic DL - NOM Data Collection and Stakeholder Dashboards Data Collectors

- Describe OPTIC Data Lake Data Collection
- Integrate OPTIC Data Lake with NNMi and NA
- Connect Stakeholder Dashboards to Vertica Database
- Configure Data collectors set-up metric queries
- Configure Data Collectors set-up parameter queries
- Explain Data calculation functions

Module 7a: Using NOM OPTIC DL Reporting

- NOM Inventory Reports
- NOM Component Health Reports
- NOM Interface Health Reports
- NOM Network Automation Reports

Module 7b: Using NOM OPTIC DL Reporting

- NOM Quality Assurance Probes Reports
- NOM Quality of Service Reports (QoS)
- NOM MPLS Reports
- NOM Traffic Reports
- NOM IPT Reports

Module 8: Performance Troubleshooter and Incident Troubleshooting

- Perform Performance Troubleshooting with OPTIC DL
- View incident details
- Explain the BYOBI concept

Module 9: Performance Maps

- Use Performance Maps with OPTIC DL

Module 10: Introduction to OPTIC ONE and Flex Reporting

- Explain OPTIC One - Unified interface
- Reporting Strategy
- Flex Dashboards & Reports
- Evolution to OPTIC Flex Reporting
- Why Flex Reporting?
- BVD Vs Flex
- Features & Benefits of Flex reports

Module 11: Using NOM Flex Reporting

- Login to OPTIC One UI
- Understand Masthead
- Navigate through Side Navigation Panel
- Understand Time Selector options on the Dashboards page
- Provide a demo on creating a simple Report
- Provide a demo on Cross filter Highlighting
- Export and Scheduling of Reports
- Manage Predefined Query

Module 12: Integrating NNMi and NA with Stakeholder Dashboards

- Manage dashboards
- Use Command Line Interface (CLI)
- Manage users
- Create new roles, groups, and users
- Modify settings
- Stakeholder Dashboards Deployment High Availability and Scaling
- Learn about Logging and Troubleshooting

Module 13: OMT Administration

- Learn about OMT Scripts
- Learn commands to Administer OMT
- Shut down & restart OMT
- Scaling OMT for High Availability
- Vertica Database Administration
- Backup OMT OPTIC DL components and Vertica

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