

Dell EMC OpenManage Connection Version 4.0 for IBM Tivoli Netcool/OMNibus

Installation Guide

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

This guide provides information about the software requirement, system requirements and the steps to install, configure, and uninstall Dell EMC OpenManage Connection Version 4.0 for IBM Tivoli Netcool/OMNIBus.

Dell EMC OpenManage Connection for IBM Tivoli Netcool/OMNIBus (ITNO) provides capabilities to monitor Dell EMC PowerEdge Servers, Dell EMC Remote Access Controllers (DRACs)/Integrated Dell EMC Remote Access Controllers (iDRACs), Modular Infrastructure (MX7000, M1000e, FX2/FX2s, VRTX), Hyper Converged Infrastructure (VxRail and Nutanix XC-Series), OEM Servers, Storage, Networking devices and Workstations. The OpenManage Connection for ITNO monitors Dell EMC devices by receiving alerts on the Netcool/OMNIBus console. It also supports launching One-to-One as well as One-to-Many Dell EMC element managers, consoles and tools directly from the event context for further troubleshooting, configuration and management activities.

The following Dell EMC devices are supported by the Dell EMC OpenManage Connection:

- OEM servers
- Datacenter Scalable Solutions (DSS)
- 11th generation of PowerEdge servers to 14th Generation of PowerEdge servers
- Precision Rack workstations
- Hyper-converged platforms (HCI) - VxRail, Nutanix XC-Series
- Dell EMC Remote Access Controllers:
 - Integrated Dell Remote Access Controller 9 (iDRAC9)
 - Integrated Dell Remote Access Controller 8 (iDRAC8)
 - Integrated Dell Remote Access Controller 7 (iDRAC7)
 - Integrated Dell Remote Access Controller 6 (iDRAC6)
 - Dell EMC Remote Access Controller 5 (DRAC5)
- Dell EMC Chassis:
 - PowerEdge FX2
 - PowerEdge VRTX
 - PowerEdge M1000e
 - PowerEdge MX7000
- Dell EMC Storage Arrays:
 - SC-Series Storage Arrays
 - 11th Generation of PowerVault NX storage arrays to 13th Generation of PowerVault NX Storage Arrays
 - PS-Series Storage Arrays
 - Modular Disk Storage Arrays
- Dell EMC Network Switches:
 - S-Series Switches
 - M-Series Switches
 - Z-Series Switches
 - C-Series Switches
 - N-Series Switches
 - W-Series Switches

This guide is intended for system administrators who are familiar with IBM Tivoli Netcool/OMNIBus 8.1 and 7.4.

Before installing this version of Dell EMC OpenManage Connection for IBM Tivoli Netcool/OMNibus, download the latest Installation Guide from dell.com/omconnectionsEnterpriseSystemsManagement.

For more information about accessing documents, see [Accessing Documents From The Dell Support Site - Software](#).

Prerequisites

Complete the following prerequisites.

Topics:

- Supported operating systems and requirements for the managing system
- Supported Operating Systems for managed systems
- Supported Dell EMC devices and firmware

Supported operating systems and requirements for the managing system

The following tables lists the operating systems and requirements for integrating the Dell EMC OpenManage Connection on the systems where the Netcool/OMNIBus version 8.1 and 7.4 components are installed:

Table 1. Supported operating systems for Dell EMC OpenManage Connection for IBM Tivoli Netcool/OMNIBus 8.1

Windows Server	SUSE Linux Enterprise Server (SLES)	Red Hat Enterprise Linux Server (RHEL)
Windows Server 2012 R2 64-bit (Standard, Datacenter)	SLES 12 SP2 64-bit	RHEL 7.5 64-bit (Server)
Windows Server 2016 (Standard)		RHEL 7.4 64-bit (Server)
		RHEL 7.3 64-bit (Server)

 **NOTE: Only for Desktop Support.**

Table 2. Supported operating systems for Dell EMC OpenManage Connection for IBM Tivoli Netcool/OMNIBus 7.4

Windows Client	SUSE Linux Enterprise Server (SLES)	Red Hat Enterprise Linux Server (RHEL)
Windows 10 64-bit	SLES 11 SP4 64-bit	RHEL 6.9 64-bit (Server, Workstation)
Windows 8.1 64-bit (Enterprise, Professional, Standard)		
Windows 8 64-bit (Enterprise, Professional, Standard)		
Windows 7 64-bit SP1 (Enterprise, Professional)		
Windows 7 32-bit SP1 (Enterprise, Professional)		

Table 3. IBM Tivoli Netcool/OMNibus component requirements

Component	Requirement	Purpose
Probes	Configure the MTRapd Simple Network Management Protocol (SNMP) probe and the Netcool/OMNibus Knowledge Library (NcKL).	To receive and process the SNMP traps sent by Dell EMC devices.
ObjectServer	Install and configure the confpack utility.	To import Dell EMC integration automation triggers, tools, menus, and conversion classes.
Desktop	Make sure that the SNMP/WSMan communication between the desktop and Dell EMC devices exists.	To retrieve the required information from Dell EMC devices.
Web GUI	Install and configure the OMNibus web GUI and WAAPI. Make sure that the SNMP/WSMan communication channel between the web GUI server and the managed Dell EMC systems exists.	To support Dell EMC tools available for Dell EMC OpenManagement Connection. To retrieve the required information from Dell EMC devices.

Supported Operating Systems for managed systems

The following table lists the operating systems supported on the supported Dell EMC devices:

Table 4. Supported operating systems for Dell EMC Workstations

Windows Server	SUSE Linux Enterprise Server (SLES)	Red Hat Enterprise Linux Server (RHEL)
Windows Server 2012 R2 (Datacenter, Foundation, Essentials, and Standard editions)	SLES 12 SP3 64-bit	RHEL 7.5 64-bit
Windows 8.1 Professional 64 bit	SLES 11 SP4	RHEL 7.4 64-bit
Windows 7 Professional 32-bit and 64-bit		RHEL 6.10 64-bit RHEL 6.9 64-bit

Table 5. Supported operating systems for Dell EMC Servers

VMware vSphere ESXi	Windows Server	SUSE Linux Enterprise Server (SLES)	Red Hat Enterprise Linux Server (RHEL)
ESXi 6.7	Windows 2019	SLES 15 64-bit	RHEL 7.5 64-bit
ESXi 6.5 U1	Windows 2016	SLES 12 SP3 64-bit)	RHEL 7.4 64-bit
ESXi 6.0 U3	Windows Server 2012 R2 (Datacenter, Foundation, Essentials, and Standard editions)	SLES 11 SP4	RHEL 6.10 64-bit RHEL 6.9 64-bit

Supported Dell EMC devices and firmware

The following table lists the Dell EMC devices and their supported firmware versions for Dell EMC OpenManage Connection.

Table 6. Dell EMC devices and firmware

Dell EMC Devices	Supported OMSA Versions	Supported Firmware Versions
iDRAC9	NA	<ul style="list-style-type: none"> • 3.21.23.22 • 3.21.21.21
iDRAC8	NA	<ul style="list-style-type: none"> • 2.60.60.60 • 2.52.52.52
iDRAC7	NA	<ul style="list-style-type: none"> • 2.60.60.60 • 2.52.52.52
iDRAC6 Modular	NA	<ul style="list-style-type: none"> • 3.85 • 3.80
iDRAC6 Monolithic	NA	<ul style="list-style-type: none"> • 2.91 • 2.90
DRAC5	NA	<ul style="list-style-type: none"> • 1.6 • 1.5
PowerEdge servers	<ul style="list-style-type: none"> • 9.2.1 • 9.2 • 9.1 	NA
Hyper-Converged Platforms (HCI) Devices VxRail, Nutanix XC-Series		14G <ul style="list-style-type: none"> • 3.21.23.22 • 3.21.21.21 13G <ul style="list-style-type: none"> • 2.60.60.60 • 2.52.52.52
OEM Servers	<ul style="list-style-type: none"> • 9.2.1 • 9.2 • 9.1 	NA
Dell EMC MX7000	NA	OpenManage Enterprise Modular (OME-M) <ul style="list-style-type: none"> • 1.01 • 1.00
Dell EMC FX2	NA	<ul style="list-style-type: none"> • 2.10 • 2.0
Dell EMC VRTX	NA	<ul style="list-style-type: none"> • 3.10

Dell EMC Devices	Supported OMSA Versions	Supported Firmware Versions
		<ul style="list-style-type: none"> 3.0
Dell EMC M1000e	NA	<ul style="list-style-type: none"> 6.1 6.0
Dell EMC Workstations	<ul style="list-style-type: none"> 9.2.1 9.2 9.1 	NA
Datacenter Scalable Solutions (DSS 1500 and DSS 2500)	NA	<ul style="list-style-type: none"> 2.60.60.60 2.52.52.52
Datacenter Scalable Solutions (DSS 1510)	NA	<ul style="list-style-type: none"> 2.60.60.60 2.52.52.52
Datacenter Scalable Solutions (DSS 9620, DSS 9600 and DSS 9630)	NA	<ul style="list-style-type: none"> 3.21.23.22 3.21.21.21
PowerVault NX Storage Arrays	<ul style="list-style-type: none"> 9.2.1 9.2 9.1 	NA
SC-Series Storage Arrays	NA	<ul style="list-style-type: none"> 7.2.40.36 7.2.31.3
PS-Series Storage Arrays	NA	<ul style="list-style-type: none"> 10.0.1 9.1.7
Modular Disk Storage Arrays	NA	<ul style="list-style-type: none"> 08.25.14 08.25.13
Dell EMC Network Switches	NA	<p>S-Series</p> <ul style="list-style-type: none"> 9.14 9.13 <p>M-Series</p> <ul style="list-style-type: none"> 9.14 9.13 <p>Z-Series</p> <ul style="list-style-type: none"> 9.14 9.13 <p>C-Series</p> <ul style="list-style-type: none"> 9.14 9.13 <p>N-Series</p>

Dell EMC Devices	Supported OMSA Versions	Supported Firmware Versions
Dell EMC Precision Workstation	<ul style="list-style-type: none"> · 9.2.1 · 9.2 · 9.1 	<ul style="list-style-type: none"> · 6.5.2.5 · 6.3.3.14 <p data-bbox="1038 296 1129 317">W-Series</p> <ul style="list-style-type: none"> · W-Series Mobility Controllers (6.4) · NA

NOTE: Dell EMC Workstations refers to Dell EMC Precision R7910 and R7920 Rack Workstations.

Installing Dell EMC OpenManage Connection for Netcool/OMNIBus

To install Dell EMC OpenManage Connection for Netcool/OMNIBus, you must extract the component-specific files on the systems where you have installed the Netcool/OMNIBus components and deploy them. For more information on extracting component-specific files, see [Integration Details for Netcool/OMNIBus Components](#).

Before you begin deploying the files:

- 1 Follow the below instructions to download **Dell EMC OpenManage Connection for IBM Tivoli Netcool/OMNIBus**.
- 2 Open the browser and enter the URL www.dell.com/support
- 3 Navigate to your **Dell EMC product page** or search by **Dell EMC Service Tag**.
- 4 Select **Drivers and Downloads** from the left pane options.
- 5 The page will display a list of supported software and plug-in available for the selected Dell EMC device.
- 6 Click on **Dell EMC OpenManage Connection v4.0 for IBM Tivoli Netcool/OMNIBus** and download the file.

Topics:

- [Dell EMC OpenManage Connection for Netcool/OMNIBus package details](#)
- [Installing Probe Integration](#)
- [Installing ObjectServer Integration](#)
- [The Dell EMC ConfigUtility](#)
- [Installing Desktop Integration](#)
- [Installing Web GUI Integration](#)

Dell EMC OpenManage Connection for Netcool/OMNIBus package details

The Dell EMC OpenManage Connection for Netcool/OMNIBus is packaged as a zip file. This is applicable to systems running Windows and Linux including VMware ESXi environments. When you extract the `Dell_EMCMOpenManage_Connection_for_OMNIBus_v4_0.zip` zip file, the following folders and files are extracted:

- `desktop_integration`
- `objectserver_integration`
- `probe_integration`
- `webgui_integration`
- `Dell_EMCMOMC_4_0_For_IBM_OMNIBus_IG.pdf`
- `Dell_EMCMOMC_4_0_For_Omnibus_ReadMe.txt`
- `license_en.txt`

NOTE: Once the folders and files have been extracted, and the system requirements are met with, ensure that you see the `Dell_EMCMOMC_4_0_For_Omnibus_ReadMe.txt` and the `license_en.txt` files before you proceed with the installation.

Deploy the contents of the folders on the corresponding Netcool/OMNIBus components to monitor the supported Dell EMC devices.

Integration details for Netcool/OMNIBus components

The following table lists the Netcool/OMNIBus components and the Integration folders for Dell EMC OpenManage Connection. Deploy the integration files of Dell EMC OpenManage Connection from the corresponding folder to the Netcool/OMNIBus components folder.

Table 7. Netcool/OMNIBus Components

Component	Integration Folders
probe_integration	Contains the rules and lookup table files for the supported Dell EMC devices.
objectserver_integration	Contains the exported Dell EMC integration automation triggers, tools, menus, and conversion classes.
desktop_integration	Contains utilities that you require for configuring and launching the consoles for the supported Dell EMC devices.
webgui_integration	Contains the Dell EMC integration tools, menus, and utilities that you require for configuring the Dell EMC device consoles from the Netcool/OMNIBus web GUI.

Installing Probe Integration

The probe integration folder contains the following folder and version file:

- **Dell**

To deploy the integration of the supported Dell EMC devices:

- 1 Copy the **dell** folder under **probe_integration** and place it under the **%NC_RULES_HOME%\include-snmpttrap** folder on the system where you have installed the Probe component.

NOTE: On systems running Linux, use the **\$NC_RULES_HOME/include-snmpttrap** folder.

- 2 Navigate to the **\$NC_RULES_HOME** folder, open the `snmpttrap.rules.file` and perform the following steps:

- a Append the following command in the include rules section:

```
include "$NC_RULES_HOME/include-snmpttrap/dell/dell.master.include.rules"
```

- b Append the following command in the include lookup table section:

```
include "$NC_RULES_HOME/include-snmpttrap/dell/dell.master.include.lookup"
```

NOTE: This step is applicable to systems running Linux only.

- 3 Ensure that the copied **dell** folder and the files under it have permissions for the probe rules in accordance with the IBM guidelines. For more information, see IBM Netcool/OMNIBus documentation.

- 4 Perform the followings steps:

Server traps

- a Uncomment the `dell-StorageManagement-MIB.include.snmpttrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `dell-StorageManagement-MIB.include.snmpttrap.rules` file include statement in the **dell.master.include.rules** file.
- c Uncomment the `dell-MIB-Dell-10892.include.snmpttrap.lookup` file include statement in the **dell.master.include.lookup** file.
- d Uncomment the `dell-MIB-Dell-10892.include.snmpttrap.rules` file include statement in the **dell.master.include.rules** file.

OOB Server (iDRAC9, DRAC8, iDRAC7) traps

- a Uncomment the `dell-IDRAC-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `dell-IDRAC-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

FX2 CMC, VRTX CMC, CMC, iDRAC6, DRAC5 traps

- a Uncomment the `dell-RAC-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `dell-RAC-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

SC-Series Storage Array traps

- a Uncomment the `dell-STORAGE-SC-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `dell-STORAGE-SC-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

PS-Series Storage Array traps

- a Uncomment the `equalLogic-EQLMEMBER-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `equalLogic-EQLDISK-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- c Uncomment the `equalLogic-SCSI-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- d Uncomment the `equalLogic-EQLMEMBER-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.
- e Uncomment the `equalLogic-EQLDISK-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.
- f Uncomment the `equalLogic-EQLVOL-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.
- g Uncomment the `equalLogic-GROUP-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.
- h Uncomment the `equalLogic-IPADD-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

Modular Disk Storage Array traps

- a Uncomment the `dell-MDStorageArray-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
- b Uncomment the `dell-MDStorageArray-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

Dell EMC Network Switch traps

- S-Series, M-Series, Z-Series, and C-Series Switches
 - 1 Uncomment the `dell.switch.master.include.lookup` file include statement in the **dell.master.include.lookup** file.
 - 2 Uncomment the `dell.switch.master.include.rules` file include statement in the **dell.master.include.rules** file.
- S-Series Switches
 - 1 Uncomment the `dell-F10-S-SERIES-CHASSIS-MIB.include.snmptrap.lookup` file include statement in the **dell.master.include.lookup** file.
 - 2 Uncomment the `dell-F10-S-SERIES-CHASSIS-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.
- N-Series Switches
 - 1 Uncomment the `dell.Nseriesswitch.master.include.lookup` file include statement in the **dell.master.include.lookup** file.

- 2 Uncomment the `dell.Nseriesswitch.master.include.rules` file include statement in the `dell.master.include.rules` file.
- W-Series Switches
 - 1 Uncomment the `dell.Wseriesswitch.master.include.lookup` file include statement in the `dell.master.include.lookup` file.
 - 2 Uncomment the `dell.Wseriesswitch.master.include.rules` file include statement in the `dell.master.include.rules` file.
 - Management Systems
 - 1 Uncomment the `dell-NGM-MIB.include.snmptrap.lookup` file include statement in the `dell.master.include.lookup` file.
 - 2 Uncomment the `dell-NGM-MIB.include.snmptrap.rules` file include statement in the `dell.master.include.rules` file.
- 5 Copy the `delldevice_int_mttrapdprobe.ver` version file to the `%OMNIHOME%` directory on the system where you have installed the Probe component on systems running Windows. On systems running Linux, copy the `delldevice_int_mttrapdprobe.ver` version file to the `$OMNIHOME` directory.
 - 6 Restart the OMNIBus MTTrapd SNMP probe service (`NCOMTTRAPDProbe`) or process (`nco_p_mttrapd`).

Installing ObjectServer Integration

The `objectserver_integration` folder contains the following files and folder:

- OMNIBus81
- `delldevice_confpack_64bit_v_4_0.jar`
- `delldevice_int_objectserver.ver`

NOTE: Before installing the ObjectServer, user will have to delete the existing Dell EMC Classes 2080 for DellServer and 2085 for Equallogic.

To delete the Dell EMC Classes on system running on Windows:

- Launch **Netcool Administrator**.
- Connect to **Object Server**.
- Navigate to **Automation > Classes**
- Delete **DellServer** and **Dell Equallogic** Classes.

To delete the Dell EMC Classes on system running Linux:

- Launch `nco_config`
- Connect to **Object Server**.
- Navigate to **Automation > Classes**
- Delete **DellServer** and **Dell Equallogic** Classes.

To deploy the Dell EMC integration components on the system that hosts the ObjectServer:

- 1 Run the following command with the required security credentials to access the OMNIBus ObjectServer:
 - a For IBM Tivoli Netcool/OMNIBus 8.1:
 - On systems running 64-bit Linux:


```
$OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user <username> -password <password> -package <copied folder>/OMNIBus81/delldevice_confpack_64bit_v_4_0.jar
```
 - On systems running Windows:


```
%OMNIHOME%\bin\nco_confpack.bat -import -server <ObjectServer> -user <username> -password <password> -package <copiedfolder>\OMNIBus81\delldevice_confpack_64bit_v_4_0.jar
```
 - b For IBM Tivoli Netcool/OMNIBus 7.4:

- On systems running 64-bit Linux:

```
$OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user <username> -password <password> -package <copied folder>/delldevice_confpack_64bit_v_4_0.jar
```

- On systems running Windows:

```
%OMNIHOME%\bin\nco_confpack.bat -import -server <ObjectServer> -user <username> -password <password> -package <copiedfolder>\delldevice_confpack_64bit_v_4_0.jar
```

NOTE: By default, the ObjectServer is NCOMS.

2 Navigate to `opt/IBM/Tivoli/Netcool/OMNIBus/bin` and run `./nco_event`

3 In the **Event List** on the desktop, click **File > Resync > All**.

This action synchronizes the newly added menu items for the Dell EMC tools and conversion classes that are updated from the jar files.

NOTE: Resync can be performed only for ObjectServer integration.

4 In the `%OMNIHOME%` directory on the system where the ObjectServer is installed, copy the `delldevice_int_objectserver.ver` file.

NOTE: On systems running Linux, use the `$OMNIHOME` directory.

5 Restart the Object Server.

Configuring Dell EMC Server Administrator Web Server console on the ObjectServer

The Dell EMC Server Administrator Web Server console uses the configured URL to launch in the default browser.

To configure the Web Server console URL on systems running Windows and Linux:

1 Provide the required security credentials to access the OMNIBus ObjectServer and log in to the ObjectServer.

2 In the **Configuration** window, select **Menu > Tools**.

3 On systems running Windows, double-click **Dell EMC Server Administrator Web Server Console (Windows)** on the right pane to launch the **Tool Details** window.

On systems running Linux, double-click **Dell EMC Server Administrator Web Server Console** on the right pane to launch the **Tool Details** window.

4 Click the executable tab and edit the following URL by providing the IP address and the port number:

```
https://<Server Administrator Web Server Host/IP>:<Server Administrator Web Server PORT>/omalogin.html?managedws=false&mnip=@Node
```

For example:

```
https://11.95.145.156:1311/omalogin.html?managedws=false&mnip=@Node
```

For more information, see the Dell EMC Server Administrator documentation at dell.com/support/home.

Configuring OpenManage Enterprise (OME) console on the ObjectServer

The OME console uses the configured URL to launch the console in the default browser.

To configure the OME console URL on systems running Windows:

1 Provide the required security credentials to access the OMNIBus ObjectServer and log in to the ObjectServer.

2 In the **Configuration** window, select **Menu > Tools**.

3 Double-click **Dell EMC OpenManage Enterprise Console (Windows)** on the right pane to launch the **Tool Details** window.

- 4 Click the executable tab and edit the following URL by providing the IP address and the port number for OME:

```
https://<OpenManage Enterprise Host/IP>
```

For example:

```
https://11.95.145.156:2607/
```

For more information, see the *OpenManage Enterprise User's Guide* at dell.com/support/home.

Configuring PowerVault Modular Disk Storage Manager console on the ObjectServer

The PowerVault Modular Disk Storage Manager (MDSM) console uses the configured URL to launch the console in a separate window. Ensure that MSDM is installed on the system on which you want to launch this console.

To configure the installed path of the MDSM client on systems running Windows and Linux:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the ObjectServer.
- 2 In the **Configuration** window, select **Menu > Tools**.
- 3 On systems running Windows, double-click **Dell EMC Modular Disk Storage Manager (Windows)** on the right pane to launch the **Tool Details** window.

On systems running Linux, double-click **Dell EMC Modular Disk Storage Manager** on the right pane to launch the **Tool Details** window.

- 4 Click the executable tab and edit the following command:

- On systems running Windows (by default):

```
"C:\\Program Files (x86)\\Dell\\MD Storage Software\\MD Storage Manager\\client\\Modular Disk Storage Manager Client.exe"
```

- On systems running Linux (by default):

```
"/opt/dell/mdstoragesoftware/mdstoragemanager/client/SMclient"
```

For more information, see the *Modular Disk Storage Manager User's Guide* at dell.com/support/home.

Configuring Dell EMC OpenManage Network Manager (OMNM) console on the ObjectServer

The Dell EMC OpenManage Network Manager (OMNM) console uses the configured URL to launch the console in a separate window. To configure the OMNM console URL on systems running Windows and Linux:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the ObjectServer.
- 2 In the **Configuration** window, select **Menu > Tools**.
- 3 On systems running Windows, double-click **Dell EMC OpenManage Network Manager (Windows)** on the right pane to launch the **Tool Details** window.

On systems running Linux, double-click **Dell EMC OpenManage Network Manager** on the right pane to launch the **Tool Details** window.

- 4 Click the executable tab and edit the following URL:

```
http://OMNM_IP_Address_OR_Host:OMNM_Port
```

For more information, see the *OpenManage Network Manager User's Guide* at dell.com/support/home.

For example:

```
http://192.168.10.12:8080
```

Configuring Dell EMC AirWave Management Platform console on the ObjectServer

The Dell EMC AirWave Management Platform console uses the configured URL to launch the console in a default browser.

To configure the Dell EMC AirWave Management Platform console URL on systems running Windows and Linux:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the ObjectServer.
- 2 In the **Configuration** window, select **Menu > Tools**.
- 3 On systems running Windows, double-click **Dell EMC AirWave Management Platform Console (Windows)** on the right pane to launch the **Tool Details** window.
On systems running Linux, double-click **Dell EMC AirWave Management Platform Console** on the right pane to launch the **Tool Details** window.
- 4 Click the executable tab and edit the following URL:
`https://airwavemanagementplatform_IP_Address`

The Dell EMC ConfigUtility

Using the Dell EMC ConfigUtility, you can set the SNMP community string, WSMAN parameters, and the `TIPJAVAHOME` parameters for desktop and web GUI.

NOTE: Once the community string, WSMAN, and the `TIPJAVAHOME` parameters are configured using the Dell EMC ConfigUtility, the same community string is used to launch the consoles for the supported Dell EMC devices.

Related Links:

- [Using the ConfigUtility for Desktop.](#)
- [Using the ConfigUtility for Web GUI.](#)

Installing Desktop Integration

The `desktop_integration` folder for Dell EMC devices contains the following files:

- `dell_config.properties`
- `dell_MD_Array_Common.jar`
- `dell_OMNibus_Connection_KB_Tool_v_4_0.jar`
- `dell_OMC_ITNO_ConfigUtility_v_4_0.jar`
- `dell_OMC_ITNO_Helper_v_4_0.jar`
- `intel_wsman_v_1_0_1.jar`
- `delldevice_int_desktop.ver`
- `snmp4j-2.6.2.jar`
- `SYMsdk.jar`

To deploy the Dell EMC integration components on the system that hosts the desktop client:

- 1 Copy all the files to the `%OMNIHOME%` directory on the system where you have installed the desktop client:

NOTE:

- On systems running Windows, use the `%OMNIHOME%` directory.
 - On systems running Linux, use the `$OMNIHOME` directory.
- 2 Configure the SNMP Community string, WSMAN parameter and the `TIPJAVAHOME` parameters using the Dell EMC ConfigUtility (`dell_OMC_ITNO_ConfigUtility_v_4_0.jar`). For more information, see [Dell EMC ConfigUtility](#).

- 3 Add an environment variable named OMNIBROWSER and set it to the path of the default or desired browser.

 **NOTE:** This is applicable to systems running Windows and Linux.

Using the Dell EMC ConfigUtility for Desktop

To use the Dell EMC ConfigUtility to set the SNMP community string, WSMAN parameters, and the TIPJAVAHOME parameters for the Desktop:

- 1 Navigate to the %OMNIHOME% directory on the system where the Desktop component is installed.
- 2 Run the following command to configure the SNMP community string:

- a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
%NCHOME%\platform\
```

On systems running Linux:

```
$NCHOME/platform/<specificplatform>/jre64_1.7.0/jre/bin/java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

- b For IBM Tivoli Netcool/OMNIBus 7.4:

On systems running Windows:

```
%NCHOME%\platform\
```

On systems running Linux:

```
$NCHOME/platform/<specificplatform>/jre_1.6.7/jre/bin/java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

- 3 Run the following command to configure the WSMAN parameters such as the user name and the password:

- a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
%NCHOME%\platform\
```

On systems running Linux:

```
$NCHOME/platform/<specificplatform>/jre64_1.7.0/jre/bin/java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -wsmanusername=root -wsmanpassword
```

- b For IBM Tivoli Netcool/OMNIBus 7.4:

On systems running Windows:

```
%NCHOME%\platform\
```

On systems running Linux:

```
%NCHOME%\platform\
```

- 4 Run the following command to configure the TIPJAVAHOME parameters:

- a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
%NCHOME%\platform\
```

On systems running Linux:

```
$NCHOME/platform/<specificplatform>/jre64_1.7.0/jre/bin/java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<WebSphere java home path>
```

- b For IBM Tivoli Netcool/OMNIBus 7.4:

On systems running Windows:

```
%NCHOME%\platform\<<specificplatform>\jre_1.6.7\jre\bin\java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<java home path>
```

On systems running Linux:

```
$NCHOME/platform/<specificplatform>/jre_1.6.7/jre/bin/java -Ddell.config.path=desktop -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<java home path>
```

Configuring Dell EMC Warranty Report tool on the Desktop Server

The Dell EMC Warranty Report tool can be launched from the events that are generated from the Dell EMC device that you are monitoring and is used to retrieve the warranty information about that device.

The Warranty Report tool should be configured on the Desktop Server if you do not have direct internet access and are using proxy settings to access the internet. In this case, on systems running Linux, ensure to resolve the host name `api.dell.com` in the file `/etc/host`. On systems running Windows, ensure to resolve the host name `api.dell.com` in the file `C:\Windows\System32\drivers\etc\hosts`.

For example:

```
143.166.11.198 api.dell.com
```

Installing Web GUI Integration

The `import` sub folder within the `webgui_integration` folder contains the following files:

- `cmclauncher_linux.cgi`
- `cmclauncher_nt.cgi`
- `compellent_linux.cgi`
- `compellent_nt.cgi`
- `dell_config.properties`
- `dell_MD_Array_Common.jar`
- `dell_OMC_ITNO_ConfigUtility_v_4_0.jar`
- `dell_OMC_ITNO_Helper_v_4_0.jar`
- `delldevice_int_webgui.ver`
- `draclauncher_linux.cgi`
- `draclauncher_nt.cgi`
- `eqllauncher_linux.cgi`
- `eqllauncher_nt.cgi`
- `export.xml`
- `idraclauncher_linux.cgi`
- `idraclauncher_nt.cgi`
- `intel_wsman_v_1_0_1.jar`
- `kblauncher_linux.cgi`
- `kblauncher_nt.cgi`
- `n_switchadminlauncher_linux.cgi`
- `n_switchadminlauncher_nt.cgi`
- `omsalauncher_linux.cgi`
- `omsalauncher_nt.cgi`

- snmp4j-2.6.2.jar
- SYMsdk.jar
- vrtxcmlauncher_linux.cgi
- vrtxcmlauncher_nt.cgi
- warranty_linux.cgi
- warranty_nt.cgi

To deploy the Dell EMC integration components on the system that hosts the web GUI:

- 1 By default, the web GUI is installed in `C:\IBM\netcool\omnibus_webgui` folder or `C:\IBM\netcool\omnibus\omnibus_webgui` folder. If your installation directory is in a different location, you need to add the `OMNIWEBGUI` environment variable in the web GUI installed directory.
- 2 If the Web GUI component is installed in a non default location or a location other than `%NCHOME%\..\tipv2`, then configure the `TIPJAVAHOME` environmental path with this version of Java as follows: `java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome="C:\Program Files (x86)\IBM\WebSphere\AppServer\java_1.7_64\bin"`.

For example:

If Java is installed in the location `C:\Program Files (x86)\Java\jre6\bin\java.exe`, then configure the `TIPJAVAHOME` path as `tipjavahome= C:\Program Files (x86)\Java\jre6\bin`.

NOTE: If you have installed only IBM Tivoli Netcool OMNibus in your system, then Tivoli Integrated Portal (TIP) will not be available. In this case, you can use the WebSphere home directory location while configuring the `TIPJAVAHOME` environmental path.

For example:

If Java is installed in the location `"C:\Program Files (x86)\IBM\WebSphere\AppServer\java_1.7_64\bin"`, then configure the `TIPJAVAHOME` path as `tipjavahome= "C:\Program Files (x86)\IBM\WebSphere\AppServer\java_1.7_64\bin"`.

- 3 Copy the following jar files and the `dell_config.properties` file from the `$NCHOME/omnibus_webgui` to the system where you have installed the Web GUI component.
 - dell_config.properties
 - dell_MD_Array_Common.jar
 - dell_OMC_ITNO_ConfigUtility_v_4_0.jar
 - dell_OMC_ITNO_Helper_v_4_0.jar
 - delldevice_int_webgui.ver
 - export.xml
 - intel_wsman_v_1_0_1.jar
 - snmp4j-2.6.2.jar
 - SYMsdk.jar
- 4 Configure the SNMP Community string, WSMan parameters, and the `TIPJAVAHOME` using the **Dell EMC ConfigUtility** file. For more information, see [Dell EMC ConfigUtility](#).
- 5 On the system where the web GUI component is installed, in the `$NCHOME/omnibus_webgui`, copy the `delldevice_int_webgui.ver` file.
- 6 Navigate to the `import` folder in the location where you have extracted `webgui_integration` folder and run the following command for each integration:

NOTE: By default, the `ObjectServer` is `NCOMS`. If your `ObjectServer` is anything other than `NCOMS`, then navigate to the `import` folder, open the `export.xml` file and replace all occurrences of the `datasource`, which is `NCOMS`, with the actual `ObjectServer` name.

For example: Change

```
datasource="NCOMS"
```

to

```
datasource="<ObjectServer_Name>"
```

- a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
<WEB GUI home directory>\waapi\bin\runwaapi -host <hostname> -user <Web GUI username> -password <Web GUI password> -file export.xml
```

On systems running Linux:

```
<WEB GUI home directory>/waapi/bin/runwaapi -host <hostname> -user <Web GUI username> -password <Web GUI password> -file export.xml
```

- b For IBM Tivoli Netcool/OMNIBus 7.4:

On systems running Windows:

```
<WEB GUI home directory>\waapi\bin\runwaapi -host <hostname> -user <Web GUI username> -password <Web GUI password> -file export.xml
```

On systems running Linux:

```
<WEB GUI home directory>/waapi/bin/runwaapi -host <hostname> -user <Web GUI username> -password <Web GUI password> -file export.xml
```

NOTE: Before running the `runwaapi` command, you will have to provide the exact path of the CGI file code in the `export.xml` file.

For example: For Linux,

```
<cgi fileName="<file location>/omsalauncher_nt.cgi" acl="*" name="omsalauncher_nt.cgi" useSmartPageCommands="false"/>
```

- 7 Restart WebGUI TIP services.

Using the Dell EMC ConfigUtility for Web GUI

To use the Dell EMC ConfigUtility to set the SNMP community string, WSMAN parameters, and the TIPJAVAHOME parameters for the Web GUI:

- 1 Navigate to the web GUI Installation directory on the system where the web GUI component is installed.
- 2 Run the following command to configure the SNMP community string:

- a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
<WebShpere home directory>\java_1.7_64\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

On systems running Linux:

```
<WebShpere home directory>/java_1.7_64/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

- b For IBM Tivoli Netcool/OMNIBus 7.4:

On systems running Windows:

```
<Tivoli Integrated Portal home directory>\java\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

On systems running Linux:

```
<Tivoli Integrated Portal home directory>/java/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -communitystring=public
```

- 3 Run the following command to configure the WSMAN parameters such as the user name and the password:
 - a For IBM Tivoli Netcool/OMNIBus 8.1:

On systems running Windows:

```
<WebShpere home directory>\java_1.7_64\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -wsmanusername=root -wsmanpassword
```

On systems running Linux:

```
<WebShpere home directory>/java_1.7_64/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -wsmanusername=root -wsmanpassword
```

- b For IBM Tivoli Netcool/OMNIbus 7.4:

On systems running Windows:

```
<Tivoli Integrated Portal home directory>\java\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -wsmanusername=root -wsmanpassword
```

On systems running Linux:

```
<Tivoli Integrated Portal home directory>/java/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -wsmanusername=root -wsmanpassword
```

- 4 Run the following command to configure the TIPJAVAHOME parameters:

- a For IBM Tivoli Netcool/OMNIbus 8.1:

On systems running Windows:

```
<WebShpere home directory>\java_1.7_64\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<WebSphere java home path>
```

On systems running Linux:

```
<TWebShpere home directory>/java_1.7_64/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<WebSphere java home path>
```

- b For IBM Tivoli Netcool/OMNIbus 7.4:

On systems running Windows:

```
<Tivoli Integrated Portal home directory>\java\jre\bin\java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<java home path>
```

On systems running Linux:

```
<Tivoli Integrated Portal home directory>/java/jre/bin/java -Ddell.config.path=webgui -jar dell_OMC_ITNO_ConfigUtility_v_4_0.jar -tipjavahome=<java home path>
```

Updating the Dell EMC Tools menu on the Web GUI Server

To update the **Dell EMC Tools** menu on the **Alerts** menu of the Web GUI component:

- 1 Perform the following steps to edit the **Alert** menu:
 - a Click **Administration > Event Management Tools**.
 - b Navigate to **Menu Configuration**.
 - c Select **Alerts** from the **Available menus** on the right pane.
 - d Click **Modify**.
 - e Select **menu** from the **Available items** drop-down list.
 - f Add **Dell EMC Tools** to the **Current items**.
 - g Click **Save**.
- 2 Navigate to **Administration > Availability > Events > Active Event List (AEL)** and refresh the list to synchronize the newly added menu items.
- 3 Right-click a Dell EMC device alert and make sure that the respective Dell EMC console launch tools are available.

Configuring Dell EMC consoles on the Web GUI server on systems running Linux

You must configure the Dell EMC device specific console on the web GUI server on systems running Linux.

To configure a Dell EMC console launch tool on a system running Linux:

- 1 Log in to the web GUI on a system running Linux.
- 2 Click **Administration > Event Management Tools > Tool Creation**.

NOTE: For Netcool OMNibus version 8.1, you will have to select **Tool Configuration**.

- 3 Double-click on the Dell EMC console that you want to launch.
- 4 Modify the name of the CGI Script or the URL based on the Dell EMC console you want to launch.
For more information about the Dell EMC consoles that you must configure and their respective CGI Script or the URL see the table below.

For example:

To Launch the iDRAC console:

Navigate to **Administration > Event Management Tools > Tool Creation**, click **iDRACConsole** and then modify the name of the CGI Script in the URL section to **idraclauncher_linux.cgi** in the right pane.

Table 8. Dell EMC console launch tools and their respective CGI script/URL/Command

Console launch tools	CGI Script/URL
Dell EMC Server Administrator Console	omsalauncher_linux.cgi
Dell EMC Server Administrator Web Server Console	https://<Server Administrator Web Server Host/IP>:<Server Administrator Web Server PORT>/omalogin.html?managedws=false&mnip=@Node
Dell EMC iDRAC Console	idraclauncher_linux.cgi
Dell EMC Remote Access Controller Console	draclauncher_linux.cgi
Dell EMC Chassis Management Controller Console	cmclauncher_linux.cgi
SC-Series Storage Manager Console	compellent_linux.cgi
PS-Series Group Manager Console	eqllauncher_linux.cgi
Dell EMC OpenManage Switch Administrator Console	n_switchadminlauncher_linux.cgi
Dell EMC OpenManage Network Manager Console	http://OMNM_IP_Address_OR_Host:OMNM_Port
Dell EMC AirWave Management Platform Console	https://airwavemanagementplatform_IP_Address
Dell EMC OpenManage Enterprise Console	https://OME_IP_Address_OR_Host
Dell EMC Warranty Report	warranty_linux.cgi
Dell EMC Server Trap Configuration Information	kblauncher_linux.cgi

Configuring Dell EMC Server Administrator Web Server console on the Web GUI

To configure the **Launch Dell EMC Server Administrator Web Server** console:

- 1 Log in to the web GUI.
- 2 Click **Administration > Event Management Tools > Tool Creation**.
- 3 Select **DellEMCServerAdministratorWebServerConsole** on the right pane to launch the **Tool Configuration** window.

- 4 Edit the following URL by providing the IP address and the port number:

```
https://<Server Administrator Web Server Host/IP>:<Server Administrator Web Server PORT>/omalogin.html?managedws=false&mnip=@Node
```

For example:

```
https://11.95.145.156:1311/omalogin.html?managedws=false&mnip=@Node
```

For more information, see the Dell EMC Server Administrator documentation at dell.com/support/home.

Configuring Dell EMC OpenManage Enterprise (OME) console on the Web GUI

To configure the **Launch Dell EMC OpenManage Enterprise** console:

- 1 Log in to the web GUI.
- 2 Click **Administration > Event Management Tools > Tool Creation**.
- 3 Select **DellEMCOpenManageEnterpriseConsole** on the right pane to launch the **Tool Configuration** window.
- 4 Edit the following URL by providing the IP address and the port number for OME:

```
https://<OpenManage Enterprise Host/IP>
```

For example:

```
https://11.95.145.156:2607/
```

For more information, see the *OpenManage Enterprise User's Guide* at dell.com/support/home.

Configuring PowerVault Modular Disk Storage Manager console on the Web GUI

PowerVault Modular Disk Storage Manager (MDSM) console must be installed on the server from where you want to launch the console. To configure the **Dell EMC Modular Disk Storage Manager** console:

- 1 Log in to the web GUI.
- 2 Click **Administration > Event Management Tools > Tool Creation**.
- 3 Select **DellEMCModularDiskStorageManagerConsole** on the right pane to launch the **Tool Configuration** window.
- 4 Update the following command if required:

On systems running Windows:

```
"%PROGRAM FILES%\Dell\MD Storage Software\MD Storage Manager\client\Modular Disk Storage Manager Client.exe"
```

On systems running Linux:

```
"/opt/dell/mdstoragesoftware/mdstoragemanager/client/SMclient"
```

Configuring Dell EMC OpenManage Network Manager (OMNM) console on the Web GUI

To configure the **Dell EMC OpenManage Network Manager** console:

- 1 Log in to the web GUI.
- 2 Click **Administration > Event Management Tools > Tool Creation**.

- 3 Select **DellEMCOpenManageNetworkManagerConsole** on the right pane to launch the **Tool Configuration** window.
- 4 Edit the following URL by providing the IP address and the port number for OMNM:

```
http://OMNM_IP_Address_OR_Host:OMNM_Port
```

For example:

```
http://192.168.10.12:8080
```

For more information, see the *OpenManage Essentials User's Guide* at dell.com/support/home.

Configuring Dell EMC AirWave Management Platform console on the Web GUI

To configure the **Dell EMC AirWave Management Platform** console:

- 1 Log in to the web GUI.
- 2 Click **Administration > Event Management Tools > Tool Creation**.
- 3 Select **DellEMCAirWaveManagementPlatformConsole** on the right pane to launch the **Tool Configuration** window.
- 4 Edit the following URL:

```
https://airwavemanagementplatform_IP_Address
```

Configuring Dell EMC Warranty Report tool on the web GUI

The Dell EMC Warranty Report tool can be launched from the events that are generated from the Dell EMC device that you are monitoring and is used to retrieve the warranty information about that device.

The Warranty Report tool should be configured on the web GUI server if you do not have direct internet access and are using proxy settings to access the internet. In this case, on systems running Linux, ensure to resolve the host name `api.dell.com` in the file `/etc/host`. On systems running Windows, ensure to resolve the host name `api.dell.com` in the file `C:\Windows\System32\drivers\etc\hosts`.

For example:

```
143.166.11.198 api.dell.com
```

Upgrading Dell EMC OpenManage Connection for Netcool/OMNibus

To upgrade the Dell EMC OpenManage Connection for Netcool/OMNibus:

- 1 Uninstall the existing connection. For more information, see the *Dell EMC OpenManage Connection for Netcool/OMNibus Installation Guide*, for the existing version, at **dell.com/omconnectionsEnterpriseSystemsManagement**.
- 2 Install the latest version using the installation procedure described in [Installing Dell EMC OpenManage Connection for Netcool/OMNibus](#).

Uninstalling Dell EMC OpenManage Connection for Netcool/OMNIbus


To uninstall Dell EMC OpenManage Connection for Netcool/OMNIbus you must uninstall or remove the component-specific files.

Topics:

- [Uninstalling Probe Integration](#)
- [Uninstalling ObjectServer Integration](#)
- [Uninstalling Desktop Integration](#)
- [Uninstalling Web GUI Integration](#)

Uninstalling Probe Integration

To uninstall the Probe integration:

- 1 Navigate to `$NC_RULES_HOME\snmptrap-rules.file` and remove the following commands:
 - `include "$NC_RULES_HOME/include-snmpttrap/dell/dell.master.include.rules"`
 - `include "$NC_RULES_HOME/include-snmpttrap/dell/dell.master.include.lookup"`
- 2 Navigate to the `%NC_RULES_HOME%/include-snmpttrap` folder on the system where you have installed the Probe component.
 **NOTE:** On systems running Linux, use the `$NC_RULES_HOME/include-snmpttrap` folder.
- 3 Delete the `dell` folder under `$NC_RULES_HOME/include-snmpttrap`.
- 4 Navigate to the `%OMNIHOME%` directory and delete the `delldevice_int_mttrapdprobe.ver` version file.
- 5 Restart the **OMNIbus MTTTrapd** SNMP probe service (`NCOMTTTRAPDProbe`) or process (`nco_p_mttrapd`).

Uninstalling ObjectServer Integration

To uninstall the ObjectServer integration:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the ObjectServer.
- 2 In the **Configuration** window, select **Menu > Tools**.
- 3 Right-click the following tools and click **Delete**:
 - **Dell EMC Server Administrator Console**
 - **Dell EMC Server Administrator Web Server Console**
 - **Dell EMC iDRAC Console**
 - **Dell EMC Remote Access Controller Console**
 - **Dell EMC Chassis Management Controller Console**
 - **Dell EMC SC-Series Storage Manager Console**
 - **Dell EMC Modular Disk Storage Manager Console**
 - **Dell EMC PS-Series Group Manager Console**
 - **Dell EMC OpenManage Switch Administrator Console**
 - **Dell EMC OpenManage Network Manager Console**
 - **Dell EMC AirWave Management Platform Console**

- **Dell EMC Warranty Report**
- **Dell EMC OpenManage Enterprise Console**
- **Dell EMC Server Trap Configuration Information**

 **NOTE:** Dell EMC OpenManage Enterprise Console is only applicable for systems running on Linux Operating System.

- 4 In the **Configuration** window, select **Menu > Menus**.
- 5 Under the **Alerts Menu**, select **Dell EMC Tools**.
- 6 Right-click **Dell EMC Tools** and click **Delete**.
- 7 In the **Configuration** window, navigate to **Automation Triggers** and delete the following triggers:
 - **dell_idrac_clear**
 - **dell_idrac_deduplicate_clear**
 - **dell_omsa_clear**
 - **dell_omsa_deduplicate_clear**
 - **dell_cmc_clear**
 - **dell_cmc_deduplicate_clear**
 - **dell_compellent_clear**
 - **dell_compellent_duplicate_clear**
 - **dell_equallogic_clear**
 - **dell_equallogic_deduplicate_clear**
 - **dell_mdarray_clear**
 - **dell_mdarray_deduplicate_clear**
 - **dell_enterprise_switch_clear**
 - **dell_enterprise_switch_duplicate_clear**
 - **dell_nseries_clear**
 - **dell_nseries_deduplicate_clear**
- 8 In the **Configuration** window, navigate to **Visual Conversions** and expand the **Class** menu. Right-click the following and click **Delete**:
 - **Dell EMC Server (2080)**
 - **Dell EMC iDRAC (2088)**
 - **Dell EMC DRAC (2087)**
 - **Dell EMC CMC (2086)**
 - **Dell EMC Chassis (2094)**
 - **Dell EMC VRTX CMC (2084)**
 - **Dell EMC SC-Series Storage Arrays (2090)**
 - **Dell EMC MD Storage Array (2809)**
 - **Dell EMC PS-Series Storage (2085)**
 - **Dell EMC Networking Switches (2091)**
 - **Dell EMC N-Series Switch (2092)**
 - **Dell EMC W-Series Mobility Controller (2093)**
- 9 In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the file **delldevice_int_objectserver.ver**.
- 10 Open **Event List** and select **File > Resync > All**.
- 11 Restart the ObjectServer.

Uninstalling Desktop Integration

To uninstall the desktop integration:

- 1 Navigate to the **%OMNIHOME%** directory on the system where you have installed the desktop integration components.
- 2 Perform the following steps:

- Remove the file `delldevice_int_desktop.ver`
- *All Desktop Integration* — Remove the following files:
 - `dell_config.properties`
 - `dell_MD_Array_Common.jar`
 - `dell_OMNibus_Connection_KB_Tool_v_4_0.jar`
 - `dell_OMC_ITNO_Helper_v_4_0.jar`
 - `dell_OMC_ITNO_ConfigUtility_v_4_0.jar`
 - `intel_wsman_v_1_0_1.jar`
 - `snmp4j-2.6.2.jar`
 - `SYMsdk.jar`

Uninstalling Web GUI Integration

To uninstall the web GUI integration:

- 1 Login to the web GUI.
- 2 Remove the following files from the `webgui_integration` folder.
 - `dell_config.properties`
 - `dell_MD_Array_Common.jar`
 - `dell_OMC_ITNO_ConfigUtility_v_4_0.jar`
 - `dell_OMC_ITNO_Helper_v_4_0.jar`
 - `delldevice_int_webgui.ver`
 - `export.xml`
 - `intel_wsman_v_1_0_1.jar`
 - `snmp4j-2.6.2.jar`
 - `SYMsdk.jar`
- 3 Navigate to **Administration > Event Management Tools > Tool Creation**.
- 4 Select the following tools and click **Delete**.
 - **Dell EMC Server Administrator Console**
 - **Dell EMC Server Administrator Web Server Console**
 - **Dell EMC iDRAC Console**
 - **Dell EMC Remote Access Controller Console**
 - **Dell EMC Chassis Management Controller Console**
 - **Dell EMC SC-Series Storage Manager Console**
 - **Dell EMC Modular Disk Storage Manager Console**
 - **Dell EMC PS-Series Group Manager Console**
 - **Dell EMC OpenManage Switch Administrator Console**
 - **Dell EMC OpenManage Network Manager Console**
 - **Dell EMC AirWave Management Platform Console**
 - **Dell EMC Warranty Report**
 - **Dell EMC OpenManage Enterprise Console**
 - **Dell EMC Server Trap Configuration Information**
- 5 Navigate to **Administration > Event Management Tools > Menu Configuration**.
- 6 Under **Available menus**, select **DellEMCTools** and click **Delete**.
- 7 Navigate to **Administration > Maps > CGI Registry**.
- 8 Select the following `.cgi` files, and then click **Unregister**.
 - `idraclauncher_linux.cgi`
 - `idraclauncher_nt.cgi`

- draclauncher_linux.cgi
 - draclauncher_nt.cgi
 - cmclauncher_linux.cgi
 - cmclauncher_nt.cgi
 - compellent_linux.cgi
 - compellent_nt.cgi
 - eqllauncher_linux.cgi
 - eqllauncher_nt.cgi
 - n_switchadminlauncher_linux.cgi
 - n_switchadminlauncher_nt.cgi
 - omsalauncher_linux.cgi
 - omsalauncher_nt.cgi
 - warranty_linux.cgi
 - warranty_nt.cgi
 - kblauncher_linux.cgi
 - kblauncher_nt.cgi
- 9 Restart the Web GUI component.

Accessing documents from the Dell EMC support site

You can access the required documents using the following links:

- For Dell EMC Enterprise Systems Management documents — www.dell.com/esmmanuals
- For Dell EMC OpenManage documents — www.dell.com/openmanagemanuals
- For Dell EMC Remote Enterprise Systems Management documents — www.dell.com/esmmanuals
- For iDRAC and Dell Lifecycle Controller documents — www.dell.com/idracmanuals
- For Dell EMC OpenManage Connections Enterprise Systems Management documents — www.dell.com/esmmanuals
- For Dell EMC Serviceability Tools documents — www.dell.com/serviceabilitytools
- a Go to www.dell.com/support.
- b Click **Browse all products**.
- c From **All products** page, click **Software**, and then click the required link from the following:
 - **Analytics**
 - **Client Systems Management**
 - **Enterprise Applications**
 - **Enterprise Systems Management**
 - **Public Sector Solutions**
 - **Utilities**
 - **Mainframe**
 - **Serviceability Tools**
 - **Virtualization Solutions**
 - **Operating Systems**
 - **Support**
- d To view a document, click the required product and then click the required version.
- Using search engines:
 - Type the name and version of the document in the search box.

Contacting Dell

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

- 1 Go to **Dell.com/support**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
- 4 Select the appropriate service or support link based on your need.