# Dell OpenManage Connection 1.0 for IBM Tivoli Netcool/ OMNIbus Installation Guide



### Notes

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

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## Introduction

This guide provides information on software prerequisites and requirements to setup Dell OpenManage Connection for IBM Tivoli Netcool/OMNIbus (Netcool/OMNIbus). This guide lists the steps to manually install the Dell OpenManage Connection integration components on the Netcool/OMNIbus components.

## Prerequisites

Complete the following prerequisites.

### **Managing System Requirements**

Table 1-1 lists the requirements for integrating the Dell OpenManage Connection on the systems where the Netcool/OMNIbus components are installed.

Component	Requirement	Purpose
Probe	Configure the MTTrapd Simple Network Management Protocol (SNMP) probe and the OMNIbus NCKL.	To receive and process the SNMP traps sent by Dell devices.
ObjectServer	Install and configure the confpack utility.	To import Dell integration Automation Triggers, Tools, Menus, and Conversion Classes.
Desktop	Make sure that the SNMP Communication between the Desktop and Dell devices is established.	To retrieve the OpenManage Server Administrator (OMSA) URL in the OMSA launch tool.
Web GUI	Install and configure the OMNIbus Web GUI and WAAPI.	To support the Dell OpenManage Connection.
	Make sure that the SNMP communication channel between the Web GUI server and the managed Dell systems is established.	To retrieve the OMSA URL in the OMSA launch tool.

#### Table 1-1. IBM Netcool/OMNIbus Component Requirements

### **Managed System Requirements**

Table 1-2 lists the requirements of the systems that are managed by Dell OpenManage Connection.

Dell Device	Requirement
Dell Windows Systems	• OMSA versions 6.1 to 6.5.
	SNMP Service
Dell Linux Systems	• OMSA versions 6.1 to 6.5.
	SNMP Service
Dell ESXi Systems	• ESXi version 4.0 U1 and later.
	• OMSA versions 6.1 to 6.5
	SNMP Service
Dell EqualLogic Storage Arrays	Firmware versions 5.0 and 5.1

Table 1-2. Managed System Requirements

### Dell OpenManage Connection for Netcool/OMNIbus File and Folder Details

The Dell OpenManage Connection for Netcool/OMNIbus is packaged as a zip file. You can download this zip file from **support.dell.com**. When you extract the zip file, the following files are extracted:

- Dell\_Server\_Integration\_v1\_0.zip
- Dell\_EqualLogic\_Integration\_v1\_0.zip
- Dell\_OMC\_1\_0\_For\_IBM\_OMNIbus\_IG.pdf
- Dell\_OMC\_1\_0\_ReadMe.txt
- license\_en.txt

You must deploy the contents of the zip files on the corresponding Netcool/OMNIbus components to monitor the Dell servers and Dell EqualLogic Storage Arrays respectively.

#### Integration Details for Netcool/OMNIbus Components

Extract the contents of Dell\_Server\_Integration\_v1\_0.zip and Dell\_EqualLogic\_Integration\_v1\_0.zip.

Table 1-3 below lists the Netcool/OMNIbus components and the Integration folders for Dell OpenManage Connection. Deploy the integration files of Dell OpenManage Connection from the corresponding folder to the Netcool/OMNIbus components folder.

Component	Integration folders		
Probe	<b>probe_integration</b> — contains the rules and lookup table files for Dell servers and Dell EqualLogic storage arrays.		
ObjectServer	<b>objectserver_integration</b> — contains the exported Dell integration Automation Triggers, Tools, Menus, and Conversion Classes.		
Desktop	<pre>desktop_integration — contains utilities or tools that you require for the following tasks:</pre>		
	Configure the SNMP community name string		
	<ul> <li>Launch the Server Administrator console from the Netcool/OMNIbus desktop</li> </ul>		
	• Launch the Server Administrator Web Server console from Netcool/OMNIbus desktop		
	NOTE: This integration is not available in Dell_EqualLogic_Integration_v1_0.zip		
Web GUI	<b>webgui_integration</b> — contains the Dell integration tools, menus, and applications that you require for the following task:		
	Configure the SNMP community name string		
	<ul> <li>Launch the Server Administrator console from the Netcool/OMNIbus Web GUI</li> </ul>		
	• Launch the Server Administrator Web Server console from Netcool/OMNIbus Web GUI		
	<ul> <li>Launch the EqualLogic Group Manager console from Netcool/OMNIbus Web GUI</li> </ul>		

Table 1-3. Netcool/OMNIbus Components

## Installing Dell OpenManage Connection for Netcool/OMNIbus

To install Dell OpenManage Connection for Netcool/OMNIbus you must extract the component specific files as mentioned under Integration Details for Netcool/OMNIbus Components on the systems where you have installed the Netcool/OMNIbus components, and deploy them.

Before you begin deploying the files:

1 Download the

Dell\_OpenManage\_Connection\_for\_OMNIbus\_v1\_0.zip file from support.dell.com and extract the contents to any folder.

The following files are extracted:

- Dell\_Server\_Integration\_v1\_0.zip
- Dell\_EqualLogic\_Integration\_vl\_0.zip
- Dell\_OMC\_1\_0\_For\_IBM\_OMNIbus\_IG.pdf
- Dell\_OMC\_1\_0\_ReadMe.txt
- license\_en.txt
- 2 Ensure that the folder contains the following files:
  - Dell\_Server\_Integration\_vl\_0.zip
  - Dell\_EqualLogic\_Integration\_vl\_0.zip
- 3 Extract the contents of Dell\_Server\_Integration\_vl\_0.zip to a separate folder. This includes the following folders:
  - probe\_integration
  - webgui\_integration
  - desktop\_integration
  - objectserver\_integration
- 4 Extract the contents of Dell\_EqualLogic\_Integration\_vl\_0.zip to a separate folder. This includes the following folders:
  - probe\_integration
  - webgui\_integration

- objectserver\_integration
- **5** Log in as Netcool Administrator on any system where you have installed any of the Netcool/OMNIbus components.

### Installing Probe Integration

The probe\_integration folder present under Dell\_Server\_Integration\_v1\_0.zip contains the rules and lookup files for the Dell Server traps. This will also contain the version file dellserver\_int\_mttrapdprobe.ver for server integration. The probe\_integration folder present under Dell\_EqualLogic\_Integration\_v1\_0.zip contains the rules and lookup files for the Dell EqualLogic traps. This will also contain the version file delleql\_int\_mttrapdprobe.ver for EQL integration. These files integrate with SNMP MTTrapd probe.

To deploy the integration of Dell server and Dell EqualLogic traps:

- 1 Copy the dell folder under probe\_integration and place it under the %NC\_RULES\_HOME%/include-snmptrap folder on the system where you have installed the Probe component.
- **2** Open the master probe rules file and perform the following steps:
  - a Append the following line in the include rules section: include "\$NC\_RULES\_HOME/includesnmptrap/dell/dell.master.include.rules"
  - b Append the following line in the include lookup table section: include "\$NC\_RULES\_HOME/includesnmptrap/dell/dell.master.include.lookup"
- 3 Ensure that the copied dell folder and the files under it have the proper permissions for the probe rules, per IBM guidelines, refer to IBM Netcool/OMNIbus documentation.
- 4 Perform the followings steps that are specific to Dell Server traps:
  - a Uncomment the dell-StorageManagement-MIB.include.snmptrap.lookup file include statement in the dell.master.include.lookup file.
  - b Uncomment the dell-MIB-Dell-10892.include.snmptrap.lookup file include statement in the dell.master.include.lookup file.
  - c Uncomment the dell-StorageManagement-MIB.include.snmptrap.rules file include statement in the dell.master.include.rules file.

- d Uncomment the dell-MIB-Dell-10892.include.snmptrap.rules file include statement in the dell.master.include.rules file.
- **5** Perform the following steps that are specific to Dell EqualLogic 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-EQLMEMBER-MIB.include.snmptrap.rules file include statement in the dell.master.include.rules file.
  - d Uncomment the equalLogic-EQLDISK-MIB.include.snmptrap.rules file include statement in the dell.master.include.rules file.
- 6 Restart the OMNIbus MTTrapd SNMP Probe server.

### Installing ObjectServer Integration

The objectserver\_integration folder contains the dell\_server\_confpack\_v\_1\_0.jar file for Dell servers and the dell\_equallogic\_confpack\_v\_1\_0.jar file for Dell EqualLogic storage arrays. These jar files contain the exported Dell integration automation triggers, tools, menus, and conversion classes.

The objectserver\_integration folder also contains the version file dellserver\_int\_objectserver.ver for server integration and the version file delleql\_int\_objectserver.ver for EQL integration.

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

**1** Run the following command with the required security credentials to access the OMNIbus ObjectServer:

For Windows:

```
%OMNIHOME%\bin\nco_confpack.bat -import -server
<ObjectServer> -user <username> -package <copied</pre>
```

folder>\dell\_server\_confpack\_v\_1\_0.jar for Dell servers or

%OMNIHOME%\bin\nco\_confpack.bat -import -server <ObjectServer> -user <username> -package <copied folder>\dell\_equallogic\_confpack\_v\_1\_0.jar for Dell EqualLogic storage arrays.

For Linux:

\$OMNIHOME/bin/nco\_confpack -import -server <ObjectServer> -user <username> -package <copied folder>/dell\_server\_confpack\_v\_1\_0.jar for Dell servers or

\$OMNIHOME/bin/nco\_confpack -import -server <ObjectServer> -user <username> -package <copied folder>/dell\_equallogic\_confpack\_v\_1\_0.jar for Dell EqualLogic storage arrays.

2 In the Event List on the Desktop, click File →Resync →All. This synchronizes the newly added menu items for the Dell tools and conversion classes that are updated from the jar files.

**NOTE:** Resync can be performed only for ObjectServer integration.

3 On the system where the ObjectServer is installed, in the %OMNIHOME% directory, copy the file delleql\_int\_objectserver.ver for Dell EqualLogic Integration and dellserver\_int\_objectserver.ver for Dell Server Integration.

## Configuring Dell Server Administrator Web Server Console on the ObjectServer

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

To configure the Web Server Console URL for Windows systems:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the NCOMS ObjectServer.
- 2 In the Configuration window, select Menus→ Tools.
- **3** Double-click on **Dell Server Administrator Web Server Console** on the right pane to launch the **Tool Details** window.

4 Click the executable tab and edit the following command:

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

You must provide the IP address and the port of the Server Administrator Web Server. For example: 10.95.145.156:1311. See Server Administrator documentation for more information.

To configure the Web Server Console URL for Linux systems:

- **1** Repeat the preceding steps 1 and 2.
- 2 Double-click on Dell Server Administrator Web Server Console (Linux) on the right pane to launch the Tool Details window.
- 3 Click the executable tab and edit the following command: <Server Administrator Web Server Host/IP>:<Server Administrator Web Server PORT>/omalogin.html?managedws=false &mnip=@Node

You must provide the IP address and the port of the Server Administrator Web Server. For example: 10.95.145.156:1311. See Server Administrator documentation for more information.

## Installing Desktop Integration for Dell Servers

The desktop\_integration folder for Dell servers contains the following files:

- dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_1\_0.jar this is used to configure the SNMP community name string.
- dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_1\_0.jar this is used to launch the OpenManage Server Administrator (OMSA) URL.
- snmp4j-2.0.0.jar this is used to configure the SNMP Community, using the Dell Server Configurator utility.
- **dell\_config.properties** this contains the encrypted SNMP community string.
- **dellserver\_int\_desktop.ver** this is the version file for server integration.

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

- 1 Copy the dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_l\_0.jar, dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_l\_0.jar, snmp4j-2.0.0.jar, dellserver\_int\_desktop.ver, and the dell\_config.properties files in the %OMNIHOME% directory on the system where you have installed the desktop client.
- 2 Configure the SNMP Community using the DellServerConfigurator java utility. For more information, see Using the Dell Server Configurator Utility.

### Installing Web GUI Integration

The **webgui\_integration** import folder for Dell servers contains the following folders and files:

- dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_1\_0.jar this is used to configure the SNMP community name string.
- dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_l\_0.jar this is used to launch the OpenManage Server Administrator (OMSA) URL.
- snmp4j-2.0.0.jar this is used to configure the SNMP Community, using the Dell Server Configurator utility.
- **dell\_config.properties** this contains the encrypted SNMP community string.
- **export.xml** this contains the exported tools and menu items for the Web GUI integration of Dell servers.
- **dellserver\_int\_webgui.ver** this is the version file for server integration.

The webgui\_integration\import\config\cgi-bin folder contains the following:

- omsalauncher\_linux.cgi this is the cgi script for launching the Server Administrator Console in Web GUI installed in Linux systems.
- **omsalauncher\_nt.cgi** this is the cgi script for launching the Server Administrator Console in Web GUI installed in Windows systems.

The **webgui\_integration**\import folder for Dell EqualLogic storage arrays contains the following files:

- **export.xml** this contains the exported tools and menu items for the Web GUI integration of Dell EqualLogic storage arrays.
- **delleql\_int\_webgui.ver** this is the version file for EQL integration.

**NOTE:** The .cgi script files are not present in the import folder.

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

1 Copy the dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_1\_0.jar, dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_1\_0.jar, snmp4j-2.0.0.jar, and dell\_config.properties files in the <Web GUI Install directory> on the system where you have installed the Web GUI component.

- 2 Configure the SNMP Community using the Dell Server Configurator java utility. For more information, see Using the Dell Server Configurator Utility.
- 3 On the system where the Web GUI component is installed, in the <Web GUI Install directory>, copy the file delleql\_int\_webgui.ver for Dell EqualLogic Integration and dellserver\_int\_webgui.ver for Dell Server Integration.
- 4 Restart the Web GUI.
- **5** Navigate to the import folder in the location where you have extracted webgui\_integration folder and run the following command:

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

If you are installing both Dell Server and Dell EqualLogic component files, you must run the runwaapi command twice to ensure that all the relevant files are copied.

**NOTE:** Steps 1 and 2 are applicable only to Dell servers.

#### Using the Dell Server Configurator Utility

#### Dell Server Configurator Utility for Desktop

To use the Dell Server Configurator Utility to set the SNMP Community string:

- **1** Navigate to the OMNIHOME directory on the system where the Desktop component is installed.
- **2** Run the following command for Desktop:

For Windows:

```
%NCHOME%\platform\<specificplatform>\jre_1.6.7\jr
e\bin\java -Ddell.config.path=desktop -classpath
%NCHOME%\omnibus\dell_OMNIbus_Connection_SNMP_Con
figurator_v_1_0.jar;%NCHOME%\omnibus\snmp4j-
2.0.0.jar
com.dell.openmanage.connections.SnmpConfigurator
For Linux:
```

```
$NCHOME/platform/<specificplatform>/jre_1.6.7/jre
/bin/java -Ddell.config.path=desktop -classpath
$NCHOME/omnibus/dell_OMNIbus_Connection_SNMP_Conf
igurator_v_1_0.jar:$NCHOME/omnibus/snmp4j-
2.0.0.jar
com.dell.openmanage.connections.SnmpConfigurator
```

#### Dell Server Configurator Utility for Web GUI

To use the Dell Server Configurator Utility to set the SNMP Community string:

- 1 Navigate to the Web GUI Installation directory on the system where the Web GUI component is installed.
- **2** Run the following command for Web GUI:

For Windows:

```
<Web GUI Installation Dir>\java\jre\bin\java -
Ddell.config.path=webgui -classpath
%NCHOME%\omnibus_webgui\dell_OMNIbus_Connection_S
NMP_Configurator_v_1_0.jar;%NCHOME%\omnibus_webgu
i\snmp4j-2.0.0.jar
com.dell.openmanage.connections.SnmpConfigurator
```

For Linux:

```
<Web GUI Installation Dir>/java/jre/bin/java -
Ddell.config.path=webgui -classpath
$NCHOME/omnibus_webgui/dell_OMNIbus_Connection_SN
MP_Configurator_v_1_0.jar:$NCHOME/omnibus_webgui/
snmp4j-2.0.0.jar
com.dell.openmanage.connections.SnmpConfigurator
```

### Updating the Dell Tools Menu on the Web GUI Server

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

- 1 Edit the Alert menu on the Web GUI to update the Dell Tools menu. To edit the Alert menu:
  - a Click Administration→ Event Management Tools.

- **b** Navigate to Menu Configuration.
- c Select Alerts under Available Menus on the right pane.
- d Click Modify.
- e Select Menu from the Available items drop-down list.
- f Add Dell Tools to the Current items.
- g Click Save.
- 2 Refresh the Active Event List to synchronize the newly added menu items.
- 3 Verify that the Dell Tools→ Launch Dell Server Administrator Console, Launch Dell Server Administrator Web Server Console, and the Launch Dell EqualLogic Group Manager Console menu options are available for the events received from Dell devices.

### Configuring Dell Tools Menu

When you import the Web GUI Integration, and both EqualLogic and Dell Server integration co-exists, the associations are lost between Dell tools and the Dell Tools menu.

To configure the menu for Dell Tools:

- 1 Log in to the Web GUI.
- 2 Click Administration→ Event Management Tools.
- **3** Select Menu Configuration.
- 4 In Available menus, select DellTools, and click Modify.
- **5** From the Available items drop-down menu, click tool.
- 6 Select the required tool to associate with the **Dell Tools Menu** and move the tool to the **Current items**.
- 7 Select the tool from the Current items and click Rename. The Rename Menu Item Window is displayed.
- 8 Change the Label name to the corresponding Dell Tool name.
- 9 Click Save and close the window.
- **10** Save and close the Menu Editor window.
- **11** Follow the preceding steps to configure the **Dell Tools** with the **Alert** menu.

- **13** Click Active Event List (AEL).
- Click Refresh event data to synchronize the menus with the AEL.Verify the newly associated tools are shown in the Dell Tools menu.

## Configuring Server Administrator Launch Tool on the Web GUI Server for Linux Systems

To configure the Launch Dell Server Administrator tool on Linux systems:

- 1 Log in to the Web GUI running on a Linux system.
- 2 Click Administration → Tool Configuration.
- 3 Double-click on LaunchDellServerAdministratorConsole.
- 4 Modify the name of the CGI Script in URL section to omsalauncher\_linux.cgi.

### Uninstalling Dell OpenManage Connection

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

### Uninstalling the Probe Integration

To uninstall the Probe integration:

- 1 Navigate to the %NC\_RULES\_HOME%/include-snmptrap folder on the system where you have installed the Probe component.
- **2** Open the master probe rules file and perform the following steps:
  - a Remove or comment the following line in the include rules section: include "\$NC\_RULES\_HOME/inlcudesnmptrap/dell/dell.master.include.rules"
  - **b** Remove or comment the following line in the include lookup table section: include "\$NC\_RULES\_HOME/includesnmptrap/dell/dell.master.include.lookup"
- 3 Delete the dell folder under %NC\_RULES\_HOME%/include-snmptrap.
- 4 Restart the probe server.

### Uninstalling ObjectServer Integration

To uninstall the ObjectServer integration:

- 1 Provide the required security credentials to access the OMNIbus ObjectServer and log in to the NCOMS ObjectServer.
- 2 In the Configuration window, select Menus→ Tools.
- 3 Right-click on Launch Dell Server Administrator Console, Launch Dell Server Administrator Web Server Console, and Launch Dell EqualLogic Group Manager Console and select Delete.
- 4 Navigate to Menu Configuration.
- 5 Select Alerts Menus under Available Menus on the right pane.
- 6 Right-click on Dell Tools and select Delete.
- 7 Navigate to Automation→ Triggers and delete the following triggers:
  - dell\_omsa\_clear
  - dell\_omsa\_deduplicate\_clear
  - dell\_equallogic\_clear
  - dell\_equallogic\_deduplicate\_clear
- 8 Navigate to Visual→ Conversions and expand on Class.
- **9** Right-click on **Dell Server** (2080) and **Dell EqualLogic** (2085) and delete them.
- **10** Open Event List and select File→ Resync→ All.
- 11 On the system where the ObjectServer is installed, in the %OMNIHOME% directory, remove the file delleql\_int\_objectserver.ver for Dell EqualLogic Integration and dellserver\_int\_objectserver.ver for Dell Server Integration.
- **12** Restart the Web GUI.

#### **Uninstalling Desktop Integration**

To uninstall the Desktop integration:

Delete the dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_l\_0.jar, dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_l\_0.jar, snmp4j-2.0.0.jar, dellserver\_int\_desktop.ver, and the dell\_config.properties files from the %OMNIHOME% directory on the system where you have installed the desktop client.

#### **Uninstalling Web GUI Integration**

To uninstall the Web GUI integration:

- **1** Log in to the Web GUI.
- 2 On the system where the Web GUI component is installed, in the <WebGUI Install directory>, delete the file delleql\_int\_webgui.ver for Dell EqualLogic Integration and dellserver\_int\_webgui.ver for Dell Server Integration.
- 3 Delete dell\_OMNIbus\_Connection\_SNMP\_Configurator\_v\_1\_0.jar, dell\_OMNIbus\_Connection\_SNMP\_Helper\_v\_1\_0.jar, snmp4j-2.0.0.jar, and dell\_config.properties files from the *<Web GUI Install directory>* on the system where you have installed the Web GUI component.
- 4 Navigate to Administration→ Event Management→ Tool Creation.
- 5 Select Launch Dell Server Administrator Console, Launch Dell Server Administrator Web Server Console and Launch Dell EqualLogicGroup Manager Console and click Delete.
- 6 Navigate to Administration→ Event Management→ Menu Configuration.
- 7 Navigate to Administration→ Event Management Tools→ CGI Registry. Select omsalauncher\_linux.cgi on the right pane and click Unregister.
- 8 Navigate to Administration→ Event Management Tools→ CGI Registry. Select omsalauncher\_nt.cgi on the right pane and click Unregister.
- **9** Select **Dell Tools** on the right pane and click **Delete**.
- **10** Verify that Dell Tools is removed from the Alert menu.
- **11** Restart the Web GUI.

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