Dell OpenManage Connection Version 2.0 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 computer.

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.

Contents

Introduction

Dell OpenManage Connection for IBM Tivoli Netcool/OMNIbus provides event monitoring capabilities for Dell PowerEdge and PowerVault servers, Dell EqualLogic systems, and Dell Chassis Management Controller (CMC).

This guide provides information on the software prerequisites, requirements, and steps to manually install the Dell OpenManage Connection integration components on the Netcool/OMNIbus components.

2

Prerequisites

Complete the following prerequisites.

Requirements For The Managing System

The following table lists the requirements for integrating the Dell OpenManage Connection on the systems where the Netcool/OMNIbus components are installed.

Table 1. IBM Netcool/OMNIbus Component Requirements

Component	Requirement	Purpose
Probes	Configure the MTTrapd Simple Network Management Protocol (SNMP) probe and the Netcool/OMNIbus Knowledge Library (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 required information from Dell devices.
Web GUI	Install and configure the OMNIbus web GUI and WAAPI.	To support Dell tools available for Dell OpenManage Connection.
	Make sure that the SNMP communication channel between the web GUI server and the managed Dell systems is established.	To support Dell tools and menus.

Requirements For The Managed System

The following table lists the requirements of the systems that are managed by Dell OpenManage Connection.

Table 2. Managed System Requirements

Dell Devices	Requirement
Dell Systems Running Windows	• OMSA versions 6.5–7.1 • SNMP Service
Dell Systems Running Linux	• OMSA versions 6.5–7.1 • SNMP Service
Dell Systems Running ESXi	• ESXi version 4.0 U1 and later

Dell Devices	Requirement
	• OMSA versions 6.5–7.1
	• SNMP Service
Dell EqualLogic Storage Arrays	
	• Firmware versions 5.0–6.0
	• SNMP Service
Dell OOB Servers (iDRAC)	
	• Firmware versions 1.0 and 1.23.23
	• SNMP Service
Dell CMC	
	• Firmware versions 4.11 and 4.2
	• SNMP Service

NOTE: OOB and iDRAC are used interchageably in the document. iDRAC refers to 12G iDRAC7.

Dell OpenManage Connection For Netcool/OMNIbus File And Folder Details

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

- **Dell_Server_Integration_v2_0.zip** — contains the probe, object, desktop, and web GUI integration folders for supporting Dell servers.
- **Dell_Server_iDRAC_Integration_v2_0.zip** — contains the probe, object, desktop, and web GUI integration folders for supporting integrated Dell Remote Access Controller (iDRAC).
- **Dell_EqualLogic_Integration_v2_0.zip** — contains the probe, object, and web GUI integration folders for supporting Dell EqualLogic.
- **Dell_CMC_Integration_v2_0.zip** — contains the probe, object, desktop, and web GUI integration folders for supporting Dell Chassis Management Controller (CMC).
- **Dell_Common_Tools_Integration_v2_0.zip** — contains the object and web GUI integration folders for supporting Dell OpenManage Essentials.
- **Dell_OMC_2_0_For_IBM_OMNIbus_IG.pdf** — contains the procedure to install Dell OpenManage Connection for IBM Netcool/OMNIbus.
- **Dell_OMC_2_0_ReadMe.txt** — contains details of the new features, system requirements for installing Dell OpenManage Connection for IBM Netcool/OMNIbus, installation prerequisites and so on.
- **license_en.txt** — contains the license agreement for IBM Netcool/OMNIbus.

Deploy the contents of the zip files on the corresponding Netcool/OMNIbus components to monitor the supported Dell devices.

Integration Details For Netcool/OMNIbus Components

Extract the contents of the following zip files:

- **Dell_Server_Integration_v2_0.zip**
- **Dell_EqualLogic_Integration_v2_0.zip**
- **Dell_Server_iDRAC_Integration_v2_0.zip**

- Dell_CMC_Integration_v2_0.zip
- Dell_Common_Tools_Integration_v2_0.zip

The following table 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.

Table 3. Netcool/OMNIbus Components

Component	Integration folders
probe_integration	Contains the rules and lookup table files for servers, EqualLogic storage arrays, OOB servers, and CMC. NOTE: Probe integration is not applicable to Dell Common Tools.
objectserver_integration	Contains the exported Dell integration automation triggers, tools, menus, and conversion classes.
desktop_integration	Contains utilities or tools that you require for: • Configuring the SNMP community name string • Launching the Server Administrator console from the Netcool/OMNIbus desktop • Launching the iDRAC console from Netcool/OMNIbus desktop • Launching the CMC console from Netcool/OMNIbus desktop NOTE: This integration is not available in Dell_EqualLogic_Integration_v2_0.zip and Dell_Common_Tools_Integration_v2_0.zip.
webgui_integration	Contains the Dell integration tools, menus, and applications that you require for: • Configuring the SNMP community name string • Launching the Server Administrator console from the Netcool/OMNIbus web GUI • Launching the Server Administrator web server console from the Netcool/OMNIbus web GUI • Launching the EqualLogic Group Manager console from Netcool/OMNIbus web GUI • Launching the iDRAC console from Netcool/OMNIbus web GUI • Launching the CMC console from Netcool/OMNIbus web GUI • Launching the OpenManage Essentials (OME) console from Netcool/OMNIbus web GUI

3

Installing Dell OpenManage Connection For Netcool/OMNIbus

To install Dell 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. Download the **Dell_OpenManage_Connection_for_OMNIbus_v2_0.zip** file from **support.dell.com** and extract the contents to a folder.

   The following files are extracted:

   – **Dell_Server_Integration_v2_0.zip**
   – **Dell_EqualLogic_Integration_v2_0.zip**
   – **Dell_Server_iDRAC_Integration_v2_0.zip**
   – **Dell_CMC_Integration_v2_0.zip**
   – **Dell_Common_Tools_Integration_v2_0.zip**
   – **Dell_OMC_2_0_For_IBM_OMNIbus_IG.pdf**
   – **Dell_OMC_2_0_ReadMe.txt**
   – **license_en.txt**

   ✎ NOTE: You can extract the contents of the zip files as per your monitoring requirement.

2. Extract the contents of **Dell_Server_Integration_v2_0.zip** to a separate folder. This includes the following folders:

   – **desktop_integration**
   – **objectserver_integration**
   – **probe_integration**
   – **webgui_integration**

3. Extract the contents of **Dell_EqualLogic_Integration_v2_0.zip** to a separate folder. This includes the following folders:

   – **objectserver_integration**
   – **probe_integration**
   – **webgui_integration**

4. Extract the contents of **Dell_Server_iDRAC_Integration_v2_0.zip** to a separate folder. This includes the following folders:

   – **desktop_integration**
   – **objectserver_integration**
   – **probe_integration**
   – **webgui_integration**

5. Extract the contents of **Dell_CMC_Integration_v2_0.zip** to a separate folder. This includes the following folders:

   – **desktop_integration**

- objectserver_integration
- probe_integration
- webgui_integration

6. Extract the contents of **Dell_Common_Tools_Integration_v2_0.zip** to a separate folder. This includes the following folders:

- objectserver_integration
- webgui_integration

7. Log in as Netcool administrator on any system where you have installed any of the Netcool/OMNIbus components.

Installing Probe Integration

The probe integration folders located in the **Dell_Server_Integration_v2_0.zip**, **Dell_EqualLogic_Integration_v2.0 zip**, **Dell_Server_iDRAC_Integration_v2.0.zip**, and **Dell_CMC_Integration_v2_0.zip** files, contain rules, lookup, and version files for the respective integrations.

To deploy the integration of server, EqualLogic, iDRAC, and CMC 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.

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

2. Open the NcKL master probe rules file under the **%NC_RULES_HOME%** folder and perform the following steps:

   a. Append the following command in the include rules section:
      ```
      include "$NC_RULES_HOME/include-snmptrap/dell/dell.master.include.rules"
      ```
   b. Append the following command in the include lookup table section:
      ```
      include "$NC_RULES_HOME/include-snmptrap/dell/dell.master.include.lookup"
      ```

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.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.

   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-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-SCSI-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

g. Uncomment the `equalLogic-ISCSI-MIB.include.snmptrap.rules` file include statement in the **dell.master.include.rules** file.

OOB server 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.

CMC 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.

5. Restart the OMNIbus MTTrapd SNMP probe service (**NCOMTTRAPDProbe**) or process (**nco_p_mttrapd**).

Installing ObjectServer Integration

The **objectserver_integration folder** contains the **dell_server_confpack_v_2_0.jar** file for servers, **dell_equallogic_confpack_v_2_0.jar** file for EqualLogic storage arrays, **dell_serveridrac_confpack_v_2_0.jar** file for iDRAC server, **dell_cmc_confpack_v_2_0.jar** file for CMC, and **dell_commontools_confpack_v_2_0.jar** file for Common Tools such as Dell OpenManage Essentials. 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
- **delleql_int_objectserver.ver** — for EqualLogic integration
- **dellserveridrac_int_objectserver.ver** — for iDRAC server integration
- **dellcmc_int_objectserver.ver** — for CMC integration
- **dellcommontools_int_objectserver.ver** — for Common Tools 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:

   a. On systems running Windows

      * *Servers*
      ```
      %OMNIHOME%\bin\nco_confpack.bat -import -server <ObjectServer> -
      user <username> -password <password> -package <copiedfolder>
      \dell_server_confpack_v_2_0.jar
      ```
      * *EqualLogic storage arrays*
      ```
      %OMNIHOME%\bin\nco_confpack.bat -import -server <ObjectServer> -
      user <username> -password <password> -package <copied folder>
      \dell_equallogic_confpack_v_2_0.jar
      ```

* *OOB servers*

  ```
  %OMNIHOME%\bin\nco_confpack.bat -import –server <ObjectServer> -
  user <username> -password <password> -package <copied folder>
  \dell_serveridrac_confpack_v_2_0.jar
  ```

* *CMC*

  ```
  %OMNIHOME%\bin\nco_confpack.bat -import –server <ObjectServer> -
  user <username> -password <password> -package <copied folder>
  \dell_cmc_confpack_v_2_0.jar
  ```

* *Common Tools*

  ```
  %OMNIHOME%\bin\nco_confpack.bat -import –server <ObjectServer> -
  user <username> -password <password> -package <copied folder>
  \dell_commontools_confpack_v_2_0.jar
  ```

b. On systems running Linux

* *Servers*

  ```
  $OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user
  <username> -password <password> -package <copied folder>/
  dell_server_confpack_v_2_0.jar
  ```

* *EqualLogic storage arrays*

  ```
  $OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user
  <username> -password <password> -package <copied folder>/
  dell_equallogic_confpack_v_2_0.jar
  ```

* *OOB servers*

  ```
  $OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user
  <username> -password <password> -package <copied folder>/
  dell_serveridrac_confpack_v_2_0.jar
  ```

* *CMC*

  ```
  $OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user
  <username> -password <password> -package <copied folder>/
  dell_cmc_confpack_v_2_0.jar
  ```

* *Common Tools*

  ```
  $OMNIHOME/bin/nco_confpack -import -server <ObjectServer> -user
  <username> -password <password> -package <copied folder>/
  dell_commontools_confpack_v_2_0.jar
  ```

NOTE: By default, ObjectServer is **NCOMS**.

NOTE: If the nco_confpack command displays the `Unsupported Operating System` error, see **ibm.com/support/docview.wss?crawler=1&uid=swg1IV28036** , for resolution.

2. In the **Event List** on the desktop, click **File → Resync → All**. This action 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. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, copy the file:

   – **dellserver_int_objectserver.ver** — for server integration
   – **delleql_int_objectserver.ver** — for EqualLogic integration
   – **dellserveridrac_int_objectserver.ver** — for OOB server integration
   – **dellcmc_int_objectserver.ver** — for CMC integration
   – **dellcommontools_int_objectserver.ver** — for Common Tools integration

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

4. Restart the web GUI.

Configuring Dell Server Administrator Web Server Console On The ObjectServer

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

To configure the Web Server Console URL for 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 **Launch Dell Server Administrator Web Server Console (Windows)** on the right pane to launch the **Tool Details** window.

   On systems running Linux, double-click **Launch 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:

   ```
   https://<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: **https:// 11.95.145.156:1311/omalogin.html?managedws=false&mnip=@Node**. For more information, see the Server Administrator documentation.

Configuring OpenManage Essentials Console On The ObjectServer

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

To configure the OpenManage Essentials console URL for 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. Double-click **Launch Dell OpenManage Essentials Console (Windows)** on the right pane to launch the **Tool Details** window.
4. Click the executable tab and edit the following command:

   ```
   https://<OpenManage Essentials Host/IP>:<OpenManage Essentials PORT>
   ```

   You must provide the IP address and the port of the OpenManage Essentials. For example: **https:// 11.95.145.156:2607/**. For more information, see the *OpenManage Essentials User's Guide* at **dell.com/support/ manuals**.

Installing Desktop Integration

The **desktop_integration** folder for Dell devices contains the following files:

- **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar** — configures the SNMP community name string.
- **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar** — launches consoles of the supported Dell devices.
- **snmp4j-2.1.0.jar** — SNMP Helper uses this file to establish the SNMP communication with Dell devices.
- **dell_config.properties** — contains the encrypted SNMP community string.
- **dellserver_int_desktop.ver** — version file for Server Administrator desktop integration.
- **dellserveridrac_int_desktop.ver** — version file for iDRAC desktop integration.
- **dellcmc_int_desktop.ver** — version file for CMC desktop integration.

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

1. Copy the **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar**, **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar**, **snmp4j-2.1.0.jar**, and **dell_config.properties** files in the **%OMNIHOME%** directory on the system where you have installed the desktop client.

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

2. In the **%OMNIHOME%** directory on the system where you have installed the desktop client, copy the files:

   – **dellserver_int_desktop.ver** — for server integration
   – **dellserveridrac_int_desktop.ver** — for iDRAC integration
   – **dellcmc_int_desktop.ver** — for CMC integration

3. Configure the SNMP Community using the Dell SNMP Configurator utility. For more information, see SNMP Configurator Utility.

Installing Web GUI Integration

The **import** sub folder within the **webgui_integration** folder contains the following files and sub folders:

- **config** — Contains the **cgi-bin** folder with the following files:

   – **omsalauncher_linux.cgi**
   – **omsalauncher_nt.cgi**
   – **idraclauncher_linux.cgi**
   – **idraclauncher_nt.cgi**
   – **cmclauncher_linux.cgi**
   – **cmclauncher_nt.cgi**

- **dell_config.properties** — Contains the encrypted SNMP community string.
- **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar** — Configures the SNMP community name string.
- **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar** — Launches the OpenManage Server Administrator (OMSA), Integrated Dell Remote Access Controller (iDRAC), and Dell CMC URLs.
- **dellserver_int_webgui.ver** — Version file for Server Administrator web GUI integration.
- **dellcmc_int_webgui.ver** — Version file for Dell CMC web GUI integration.
- **dellserveridrac_int_webgui.ver** — Version file for iDRAC web GUI integration
- **dellcommontools_int_webgui.ver** — Version file for Dell OME web GUI integration
- **export.xml** — Exports menus and tools and for registering cgi scripts.
- **snmp4j-2.1.0.jar** — SNMP Helper uses this file to establish the SNMP Communication with Dell devices.

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

1. Copy the **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar**, **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar**, **snmp4j-2.1.0.jar** , and **dell_config.properties** files in the <**Web GUI home directory**> on the system where you have installed the web GUI component.
2. Configure the SNMP Community using the **Dell SNMP Configurator** utility. For more information, see SNMP Configurator Utility.
3. On the system where the web GUI component is installed, in the <**Web GUI home directory**>, copy the files:

   – **dellserver_int_webgui.ver** — server integration
   – **dellserveridrac_int_webgui.ver** — Dell OOB server
   – **dellcmc_int_webgui.ver** — Dell CMC Integration
   – **dellcommontools_int_webgui.ver** — Dell Common Tools Integration

4. Navigate to the import folder in the location where you have extracted **webgui_integration** folder and run the following command for each integration:

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:** The first two steps are applicable only to servers and iDRAC.

Dell SNMP Configurator Utility

Using the Dell SNMP Configurator utility, you can set the SNMP community string for desktop and web GUI.

✏ **NOTE:** Once the community string is configured using the Dell SNMP Configurator utility, the same community
string is used for OMSA, CMC, and iDRAC console launches.

Related Links:

- [Using The SNMP Configurator Utility For Desktop](#)
- [Using The SNMP Configurator Utility For Web GUI](#)

Using The SNMP Configurator Utility For Desktop

To use the SNMP 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:
   a) On systems running Windows —
   ```
   %NCHOME%\platform\<specificplatform>\jre_1.6.7\jre\bin\java -
   Ddell.config.path=desktop -classpath %NCHOME%\omnibus
   \dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar;%NCHOME%\omnibus
   \snmp4j-2.1.0.jar com.dell.openmanage.connections.SnmpConfigurator
   ```
   b) On systems running Linux —
   ```
   $NCHOME/platform/<specificplatform>/jre_1.6.7/jre/bin/java -
   Ddell.config.path=desktop -classpath $NCHOME/omnibus/
   dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar:$NCHOME/omnibus/
   snmp4j-2.1.0.jar com.dell.openmanage.connections.SnmpConfigurator
   ```

Using The SNMP Configurator Utility For Web GUI

To use the SNMP 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:
   a) On systems running Windows —
   ```
   <Tivoli Integrated Portal home directory>\java\jre\bin\java -
   Ddell.config.path=webgui -classpath %NCHOME%\omnibus_webgui
   \dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar;%NCHOME%
   \omnibus_webgui\snmp4j-2.1.0.jar
   com.dell.openmanage.connections.SnmpConfigurator
   ```
   b) On systems running Linux —
   ```
   <Tivoli Integrated Portal home directory>/java/jre/bin/java -
   Ddell.config.path=webgui -classpath $NCHOME/omnibus_webgui/
   dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar:$NCHOME/
   omnibus_webgui/snmp4j-2.1.0.jar
   com.dell.openmanage.connections.SnmpConfigurator
   ```

Configuring Dell Tools Menu

When you import multiple Dell web GUI integrations, the associations between specific Dell tools and the **Dell Tools** menu are lost.

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. On the **Available menus**, select **DellTools**, and then click **Modify**.
5. On the **Available items** menu, select **tool** from the drop-down menu.
6. Select the required tool to associate with the **Dell Tools Menu**, and then move the tool to **Current items**.
7. Select the tool from the **Current items**, and then click the rename icon.
   The **Rename Menu Item** window is displayed.
   Table 4. Label Names For Dell Tools

Tool Name	Label Name
LaunchDellChassisManagementControllerConsole	Launch Dell Chassis Management Controller Console
LaunchDellEqualLogicGroupManagerConsole	Launch Dell EqualLogic Group Manager Console
LaunchDelliDRACConsole	Launch iDRAC Console
LaunchDellServerAdministratorConsole	Launch Dell Server Administrator Console
LaunchDellServerAdministratorWebServerConsole	Launch Dell Server Administrator WebServer Console
LaunchDellOpenManageEssentialsConsole	Launch Dell OpenManage Essentials Console

8. Provide a new name in the **Label** field.
9. Click **Save**, and then close the window.
10. Save and close the **Menu Editor** window.
11. Follow the steps described in the section, .

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. 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 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 on a Dell device alert and make sure that the respective Dell devices are available.

Configuring Dell Server Administrator Web Server Console On The Web GUI

To configure the Launch Dell Server Administrator web server console:

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

   ```
   https://<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:**https://11.95.145.156:1311/omalogin.html?managedws=false&mnip=@Node**. For more information, see the Server Administrator documentation.

Configuring Dell OpenManage Essentials Console On The Web GUI

To configure the **Launch Dell OpenManage Essentials** console:

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

   ```
   https://<OpenManage Essentials Host/IP>:<OpenManage Essentials PORT>
   ```

   You must provide the IP address and the port of the OME Web Server. For example:**https://11.95.145.156:2607/**. For more information, see the *OpenManage Essentials User's Guide* at **dell.com/support/manuals**.

Configuring Dell Server Administrator Launch Tool On The Web GUI Server For Systems Running Linux

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

1. Log in to the Web GUI running on a Linux system.
2. Click **Administration** → **Event Management Tools** → **Tool Creation.**
3. Double-click **LaunchDellServerAdministratorConsole**.
4. Modify the name of the CGI Script in the URL section to **omsalauncher_linux.cgi**.

Configuring iDRAC Console On The Web GUI Server For Systems Running Linux

To configure the **Launch iDRAC** tool on systems running Linux:

1. Log in to the web GUI running on a system running Linux.
2. Click **Administration** → **Event Management Tools** → **Tool Creation.**
3. Double-click **LaunchDelliDRACConsole**.
4. Modify the name of the CGI Script in the URL section to **idraclauncher_linux.cgi**.

Configuring Dell Chassis Management Controller Console On The Web GUI Server For Systems Running Linux

To configure the **Launch ChassisManagement Controller** tool on systems running Linux :

1. Log in to the Web GUI running on a system running Linux.
2. Click **Administration** → **Event Management Tools** → **Tool Creation.**
3. Double-click **LaunchDellChassisManagementControllerConsole**.
4. Modify the name of the CGI Script in the URL section to **cmclauncher_linux.cgi**.

Upgrading Dell OpenManage Connection For Netcool/OMNIbus

To upgrade the Dell OpenManage Connection:

1. Uninstall the existing connection. For more information, see the *Dell OpenManage Connection Installation Guide* of the version installed at **dell.com/support/manuals**.
2. Install the latest version using the installation procedure described in <u>Installing Dell OpenManage Connection For Netcool/OMNIbus</u>.

Uninstalling Dell OpenManage Connection For Netcool/OMNIbus

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

Uninstalling 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.

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

2. Perform the following steps:

   Server Probe Integration

   a. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.rules**

   * include "$NC_RULES_HOME/include-snmptrap/dell/dell-MIB-Dell-10892.include.snmptrap.rules"
   * include "$NC_RULES_HOME/include-snmptrap/dell/dell-StorageManagement-MIB.include.snmptrap.rules"

   b. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.lookup**

   * include "$NC_RULES_HOME/include-snmptrap/dell/dell-MIB-Dell-10892.include.snmptrap.lookup"
   * include "$NC_RULES_HOME/include-snmptrap/dell/dell-StorageManagement-MIB.include.snmptrap.lookup"

   c. Delete the following files from the **%NC_RULES_HOME%/include-snmptrap/dell/** folder

   * dell-MIB-Dell-10892.include.snmptrap.rules
   * dell-StorageManagement-MIB.include.snmptrap.rules
   * dell-MIB-Dell-10892.include.snmptrap.lookup
   * dell-StorageManagement-MIB.include.snmptrap.lookup
   * dellserver_int_mttrapdprobe.ver

   EqualLogic Probe Integration

   a. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.rules**

   * include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-EQLMEMBER-MIB.include.snmptrap.rules"

```
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-EQLDISK-
    MIB.include.snmptrap.rules"
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-SCSI-
    MIB.include.snmptrap.rules"
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-ISCSI-
    MIB.include.snmptrap.rules"
```

b. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.lookup**

```
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-EQLMEMBER-
    MIB.include.snmptrap.lookup"
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-EQLDISK-
    MIB.include.snmptrap.lookup"
*   include "$NC_RULES_HOME/include-snmptrap/dell/equalLogic-SCSI-
    MIB.include.snmptrap.lookup"
```

c. Delete the following files from the **%NC_RULES_HOME%/include-snmptrap/dell/** folder

```
*   equalLogic-EQLMEMBER-MIB.include.snmptrap.rules
*   equalLogic-EQLDISK-MIB.include.snmptrap.rules
*   equalLogic-SCSI-MIB.include.snmptrap.rules
*   equalLogic-ISCSI-MIB.include.snmptrap.rules
*   equalLogic-EQLMEMBER-MIB.include.snmptrap.lookup
*   equalLogic-EQLDISK-MIB.include.snmptrap.lookup
*   equalLogic-SCSI-MIB.include.snmptrap.lookup
*   delleql_int_mttrapdprobe.ver
```

iDRAC Probe Integration

a. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.rules**

```
include "$NC_RULES_HOME/include-snmptrap/dell/dell-IDRAC-
MIB.include.snmptrap.rules"
```

b. Comment remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.lookup**

```
include "$NC_RULES_HOME/include-snmptrap/dell/dell-IDRAC-
MIB.include.snmptrap.lookup"
```

c. Delete the following files from the **%NC_RULES_HOME%/include-snmptrap/dell/** folder

```
*   dell-IDRAC-MIB.include.snmptrap.rules
*   dell-IDRAC-MIB.include.snmptrap.lookup
*   dellserveridrac_int_mttrapdprobe.ver
```

CMC Probe Integration

a. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.rules**

```
include "$NC_RULES_HOME/include-snmptrap/dell/dell-RAC-
MIB.include.snmptrap.rules"
```

b. Comment or remove the following commands in **%NC_RULES_HOME%/include-snmptrap/dell/ dell.master.include.lookup**

```
include "$NC_RULES_HOME/include-snmptrap/dell/dell-RAC-
MIB.include.snmptrap.lookup"
```

c. Delete the following files from the **%NC_RULES_HOME%/include-snmptrap/dell/**folder

```
*  dell-RAC-MIB.include.snmptrap.rules
*  dell-RAC-MIB.include.snmptrap.lookup
*  dellcmc_int_mttrapdprobe.ver
```

All Probe Integration

a. Remove or comment the following commands from NcKL master probe rules file.

```
*  include "$NC_RULES_HOME/inlcude-snmptrap/dell/
   dell.master.include.rules"
*  include "$NC_RULES_HOME/include-snmptrap/dell/
   dell.master.include.lookup"
```

b. Delete the folder **dell** under **$NC_RULES_HOME/inlcude-snmptrap/**

3. Restart the OMNIbus MTTrapd SNMP probe service (NCOMTTRAPDProbe) 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. Perform the following steps:
   Server ObjectServer Integration

   a. Right-click the following tools and click **Delete:**

   * **Launch Dell Server Administrator Console**
   * **Launch Dell Server Administrator Web Server Console**

   b. In the **Configuration** window, navigate to **Automation Triggers** and delete the following triggers:

   * **dell_omsa_clear**
   * **dell_omsa_deduplicate_clear**

   c. In the **Configuration** window, navigate to **Visual Conversions** and expand **Class.** Right-click **Dell Server (2080)** and click **Delete.**

   > NOTE: This step must be performed only if the **Dell Common Tools ObjectServer Integration** does not exist.

   d. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the file **dellserver_int_objectserver.ver.**

   EqualLogic ObjectServer Integration

   a. Right-click **Launch Dell EqualLogic Group Manager Console** and click **Delete.**

   b. In the **Configuration** window, navigate to **Automation Triggers** and delete the following triggers:

   * **dell_equallogic_clear**
   * **dell_equallogic_deduplicate_clear**

   c. In the **Configuration** window, navigate to **Visual Conversions** and expand **Class.** Right-click **Dell Equallogic (2085)** and click **Delete.**

   > NOTE: This step must be performed only if the **Dell Common Tools ObjectServer Integration** does not exist.

   d. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the file **delleql_int_objectserver.ver.**

iDRAC ObjectServer Integration

    a. Right-click **Launch iDRAC Console** and click **Delete**.

    b. In the **Configuration** window, navigate to **Visual Conversions** and expand **Class**. Right-click **Dell iDRAC (2088)** and click **Delete.**

        📝 **NOTE:** This step must be performed only if the **Dell Common Tools ObjectServer Integration** does not exist.

    c. On the system where the ObjectServer is installed, in the **%OMNIHOME%** directory, remove the file **dellserveridrac_int_objectserver.ver.**

CMC ObjectServer Integration

    a. Right click **Launch Dell Chassis Management Controller Console** and click **Delete.**

    b. In the **Configuration** window navigate to **Visual Conversions** and expand **Class.** Right-click **Dell CMC (2086)** and click **Delete.**

        📝 **NOTE:** This step must be performed only if the **Dell Common Tools ObjectServer Integration** does not exist.

    c. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the file **dellcmc_int_objectserver.ver.**

Common Tools ObjectServer Integration

    a. Right-click **Launch Dell OpenManage Essentials Console** and click **Delete.**

    b. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the file **dellcommontools_int_objectserver.ver.**

All ObjectServer Integration

    a. Right-click the following tools and click **Delete:**

        * **Launch Dell Server Administrator Console**

        * **Launch Dell Server Administrator Web Server Console**

        * **Launch Dell EqualLogic Group Manager Console**

        * **Launch iDRAC Console**

        * **Launch Dell Chassis Management Controller Console**

        * **Launch Dell OpenManage Essential Console**

    b. In the **Configuration** window, select **Menu → Menus.** Under the **Alerts Menu**, select **Dell Tools**. Right click **Dell Tools** and click **Delete.**

    c. In the **Configuration** window navigate to **Automation Triggers** and delete the following triggers:

        * **dell_omsa_clear**

        * **dell_omsa_deduplicate_clear**

        * **dell_equallogic_clear**

        * **dell_equallogic_deduplicate_clear**

    d. In the **Configuration** window navigate to **Visual Conversions** and expand the **Class.** Right-click the following and click **Delete:**

        * **Dell Server (2080)**

        * **Dell Equallogic (2085)**

        * **Dell iDRAC (2088)**

        * **Dell CMC (2086)**

    e. In the **%OMNIHOME%** directory on the system where the ObjectServer is installed, remove the following files:

        * dellserver_int_objectserver.ver

        * delleql_int_objectserver.ver

        * dellserveridrac_int_objectserver.ver

        * dellcmc_int_objectserver.ver

        * dellcommontools_int_objectserver.ver

4. Open **Event List** and select **File → Resync → All.**

5. Restart the Web GUI.

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:

   – *Server Desktop Integration* — Remove the file **dellserver_int_desktop.ver**

   – *iDRAC Desktop Integration* — Remove the file **dellserveridrac_int_desktop.ver**

   – *CMC Desktop Integration* — Remove the file **dellcmc_int_desktop.ver**

   – *All Desktop Integration* — Remove the following files:

           * **dellserver_int_desktop.ver**

           * **dellserveridrac_int_desktop.ver**

           * **dellcmc_int_desktop.ver**

           * **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar**

           * **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar**

           * **snmp4j-2.1.0.jar**

           * **dell_config.properties**

Uninstalling Web GUI Integration

To uninstall the web GUI integration:

1. Log on to the web GUI.

2. Perform the following steps:

   Server Web GUI Integration

   a. Remove the file **dellserver_int_webgui.ver** from the **WEBGUI Install** directory.

   b. Navigate to **Administration → Event Management Tools → Tool Creation.** Select the following tools and click the delete icon.

       1. **Launch Dell Server Administrator Console**

       2. **Launch Dell Server Administrator Web Server Console**

   c. Navigate to **Administration → Event Management Tools → CGI Registry.** In the right pane, select **omsalauncher_linux.cgi** and **omsalauncher_nt.cgi,** and then click **Unregister.**

   EqualLogic Web GUI Integration

   a. Remove the file **delleql_int_webgui.ver** from the **WEBGUI Install** directory.

   b. Navigate to **Administration → Event Management Tools → Tool Creation.** Select **Launch EqualLogic Group Manager Console** and click the delete icon.

iDRAC Web GUI Integration

    a. Remove the file **dellserveridrac_int_webgui.ver** from the **WEBGUI Install** directory.

    b. Navigate to **Administration** → **Event Management Tools** → **Tool Creation.** Select **Launch iDRAC Console** tools and click the delete icon.

    c. Navigate to **Administration** → **Event Management Tools** → **CGI Registry.** Select **idraclauncher_linux.cgi** and **idraclauncher_nt.cgi**, and then click **Unregister.**

CMC Web GUI Integration

    a. Remove the file **dellcmc_int_webgui.ver** from the **WEBGUI Install** directory.

    b. Navigate to **Administration** → **Event Management Tools** → **Tool Creation.** Select **Launch Dell Chassis Management Controller Console** tools and click the delete icon.

    c. Navigate to **Administration** → **Event Management Tools** → **CGI Registry.** On the right pane, select **cmclauncher_linux.cgi** and **cmclauncher_nt.cgi,** and then click **Unregister.**

Common Tools Web GUI Integration

    a. Remove the file **dellcommontools_int_webgui.ver** from the **WEBGUI Install** directory.

    b. Navigate to **Administration** → **Event Management Tools** → **Tool Creation.** Select **Launch Open Manage Essentials Console** and click the delete icon.

All Web GUI Integration

    a. Remove the following files from the **WEBGUI Install** directory.

        * **dellserver_int_webgui.ver**
        * **delleql_int_webgui.ver**
        * **dellserveridrac_int_webgui.ver**
        * **dellcmc_int_webgui.ver**
        * **dellcommontools_int_webgui.ver**
        * **dell_OMNIbus_Connection_SNMP_Configurator_v_2_0.jar**
        * **dell_OMNIbus_Connection_SNMP_Helper_v_2_0.jar**
        * **snmp4j-2.1.0.jar**
        * **dell_config.properties**

    b. Navigate to **Administration** → **Event Management Tools** → **Tool Creation.** Select following tools and click **Delete.**

        * **Launch Dell Server Administrator Console**
        * **Launch Dell Server Administrator Web Server Console**
        * **Launch EqualLogic Group Manager Console**
        * **Launch iDRAC Console**
        * **Launch Dell Chassis Management Controller Console**
        * **Launch OpenManage Essentials Console**

    c. Navigate to **Administration** → **Event Management Tools** → **Menu Configuration.** Under **Available menus,** select **DellTools** and click **Delete.**

    d. Navigate to **Administration** → **Event Management Tools** → **CGI Registry.** Select the following .cgi files, and then click **Unregister.**

        * **omsalauncher_linux.cgi**
        * **omsalauncher_nt.cgi**
        * **idraclauncher_linux.cgi**

* **idraclauncher_nt.cgi**
* **cmclauncher_linux.cgi**
* **cmclauncher_nt.cgi**

3. Restart the web GUI.

6

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. Visit **www.dell.com/support**.
2. Select your support category.
3. Verify your country or region in the Choose a Country/Region drop-down menu at the top of page.
4. Select the appropriate service or support link based on your need.