

Dell Lifecycle Controller Integration For Microsoft System Center Configuration Manager Version 2.1 Installation Guide



Messaggi di N.B., Attenzione e Avvertenza



N.B.: Un messaggio di N.B. indica informazioni importanti che contribuiscono a migliorare l'utilizzo del computer.



ATTENZIONE: Un messaggio di ATTENZIONE indica un danno potenziale all'hardware o la perdita di dati, e spiega come evitare il problema.



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Introduction

This guide provides information on software prerequisites and requirements to install, upgrade, and uninstall Dell Lifecycle Controller Integration (DLCI) for Microsoft System Center 2012 SP1 Configuration Manager (Configuration Manager), Microsoft System Center 2012 Configuration Manager (Configuration Manager), and Microsoft System Center Configuration Manager 2007 (Configuration Manager).

Prerequisites


You require familiarity with deploying operating systems using Dell Server Deployment Pack for Microsoft System Center Configuration Manager (DSDP version 2.1 for Configuration Manager).

For more information, see the *Dell Server Deployment Pack for Microsoft System Center Configuration Manager User's Guide* available at dell.com/support/manuals. Before you install Dell Lifecycle Controller Integration for Configuration Manager 2012 SP1, Dell Lifecycle Controller Integration for Configuration Manager 2012 or Dell Lifecycle Controller Integration for Configuration Manager 2007, complete the following:

1. Configure an account for use with Discovery and Handshake. For more information, see [Configuring an Account for Use With Discovery and Handshake](#).
2. Make sure that the software prerequisites and requirements are available. For more information, see [Software Prerequisites and Requirements](#).
3. Make sure that the component specific prerequisites are available. For more information, see [Component-Specific Prerequisites](#).

Configuring an Account for Use With Discovery and Handshake

If you do not want to use an administrator account for the Dell Provisioning Service (DPS) to access the Configuration Manager server, create a user account with minimal permissions.

 **NOTE:** If you install DLCI by providing user credentials authenticated in Active Directory, and then perform the discovery and handshake with a target system using a Non-Active Directory authenticated user credentials, the discovery and handshake with the target system fails; to resolve this, disable the Active directory credentials.

To create a user account with minimal user permissions:

1. Create a user account on the domain, as the DPS impersonates this account while writing the Data Discovery Record (DDR) to the inbox of the site server.
2. In the Configuration Manager 2007 console, check for the user name under **Security Rights** → **Users**. In the Configuration Manager 2012 console check, for the user name under **Administration** → **Security** → **Administrative Users**. Provide the user with the following permissions:
 - **Collection** — **Read, Modify** and **Create**
 - **Site** — **Read** and **Import computer entry**
3. Configure user access to Windows Management Instrumentation (WMI). For more information, see [Configuring User Access to WMI](#).
4. Provide share and folder permissions to write files to the DDR inbox. For more information, see [Providing Share and Folder Permissions](#).

Configuring User Access to WMI

To configure user access to WMI remotely:



NOTE: Make sure that firewall of the system does not block the WMI connection.

1. To access the Distributed Component Object Model (DCOM) remotely using **dcomcnfg.exe**, provide user permissions to the Dell Provisioning Server. For more information, see [Providing User Permissions for DCOM](#).
2. To access the DCOM Config Windows Management and Instrumentation (WMI) components using **dcomcnfg.exe**, provide user permissions to the Dell Provisioning Server. For more information, see [Providing User Permissions for DCOM Config WMI](#).
3. Set the namespace security and grant permissions. For more information, see [Setting Namespace Security and Granting Permissions](#).
4. From the Dell Provisioning Server, validate user permissions for the account. For more information, see [Validating User Permissions From the Dell Provisioning Server](#).

Providing User Permissions for DCOM

To grant user permissions for DCOM:

1. Launch **dcomcnfg.exe**.
2. From the left pane, in the **Component Services** console, expand **Computers**, right-click the Provisioning Server Computer, and select **Properties**.
3. On **COM Security**:
 - From **Access Permissions**, click **Edit Limits** and select **Remote Access**.
 - From **Launch and Activation Permission**, click **Edit Limits** and select **Local Launch**, **Remote Launch**, and **Remote Activation**.

Providing User Permissions for DCOM Config WMI

To grant user permissions for DCOM Config WMI:

1. Launch **dcomcnfg.exe**.
2. Expand **My Computer** → **DCOM Config**.
3. Right-click **Windows Management and Instrumentation**, and select **Properties**.
4. On **Security**, from **Launch and Activation Permission**, click **Edit** and select the **Remote Launch and Remote Activation** permissions.

Setting Namespace Security and Granting Permissions

To set namespace security and grant permissions:

1. Launch **wmimgmt.msc** to set the namespace security.
2. In the **WMI Control** pane, right-click **WMI Control**, select **Properties**, and then select **Security**.
3. Navigate to **ROOT\SMS Namespace**.
4. Select the **Execute Methods**, **Provide Write**, **Enable Account**, and **Remote Enable** permissions.

Alternatively, the Configuration Manager user becomes a member of the **SMS_Admin** group, and you can grant **Remote Enable** to the existing permissions of the group.

Validating User Permissions From the Dell Provisioning Server

To validate user permissions:

1. Use **WBEMTest** to verify that you can connect to the Site Server using WMI.
Make sure that you select **Packet privacy** in the **Authentication level** group box when connecting to the **Site_<sitecode> Namespace**.
2. After establishing the connection, run the `Select*from SMS_Site` query. If permissions are properly assigned, this command returns a record with the site code.

Providing Share and Folder Permissions

To grant share and folder permissions to write files to the DDR inbox:


1. Do the following:
 - From the Configuration Manager 2012 console, under **Administration**, grant the user permission to write to the **SMS_<sitecode>** share.
 - From the Configuration Manager 2007 console, under **Computer Management**, grant the user permission to write to the **SMS_<sitecode>** share.
2. Using **File Explorer**, go to the share location **SMS_<sitecode>** share, and then to the **ddm.box** folder. Grant full control to the domain user for the following folders:
 - **SMS_<sitecode>**
 - **inboxes**
 - **ddm.box**
3. Add a configuration point to provide full control permission at this registry location: **HKEY_LOCAL_MACHINE\SOFTWAREWow6432Node\DELL\Provisioning Service\Repository**.
4. Validate these permissions by temporarily mapping a drive from the Dell Provisioning Server with user credentials, and then creating, writing, modifying, and deleting a new file.

Software Prerequisites and Requirements

Before you install DLCI for Configuration Manager, complete the following prerequisites:

1. Install Microsoft System Center 2012 SP1 Configuration Manager, Microsoft System Center 2012 Configuration Manager, Microsoft System Center Configuration Manager 2007 R2/SP2, or R3. For details on how to download and install Configuration Manager, see technet.microsoft.com.
2. Make sure that at least 40 MB of free disk space is available on the system to install DLCI.
3. Install Dell Server Deployment Pack (DSDP) version 2.1 for Configuration Manager. For details on how to install DSDP for Configuration Manager, see the *Dell Server Deployment Pack for Microsoft System Center Configuration Manager User's Guide* available at dell.com/support/manuals.
4. Install .NET version based on the Configuration Manager:
 - Install .NET version 3.5 SP1 or 4.0 on systems running Microsoft System Center Configuration Manager 2007 R2/SP2/R3.
 - Install .NET version 4.0 on systems running Microsoft System Center 2012 SP1 Configuration Manager, Microsoft System Center 2012 Configuration Manager.
5. Install Windows Remote Management (WinRM) and .NET 4.0 if you are installing DPS on systems running Microsoft Windows Server 2008 and 2008 R2.

6. Ensure that you have installed the Configuration Manager Console (admin console) before you install DPS.
Before installing DPS, the DLCI installer checks if the admin console is installed. If the admin console is not installed, the installer displays an error message. The installation will not continue until the admin console is installed.

 **NOTE:** The DLCI installer only checks for the installation of Configuration Manager 2012 SP1, Configuration Manager 2012 or Configuration Manager 2007 admin console. It does not check whether the same version of Configuration Manager is installed on Site Server where DPS will drop the discovery records. Make sure that you have installed the correct version of the admin console.
7. Make sure that the required KB articles are available:
If you are installing DLCI on a system running Windows Server 2008 R2 64-bit, then do this update: **KB981506** — "SSL Certificate add failed, Error: 1312" error message when you try to add a CTL in Windows Server 2008 R2 or in Windows 7. See support.microsoft.com/kb/981506.
8. This release of DLCI is licensed. To work with DLCI, you must install and set up Dell Connections License Manager (DCLM).
For more information on setting up DCLM, see the documentation at dell.com/support/manuals.
After you install and set up DCLM, to work with DLCI, you must procure a license, and import the license into DCLM. This license is required for DLCI to access the target systems.
To procure the license, contact Dell sales.
9. If you are not a user with administrator privileges and you want to automatically configure Dell Provisioning Server; Also, you are planning on installing DPS on one server and Dell Lifecycle Controller Integration on another server, then consider the following:
 - To configure firewall settings before installing DPS, see [Enabling or Disabling WMI Traffic Using Firewall](#).
 - On the system where Dell Lifecycle Controller Integration is being installed, provide **Write** permission for the **<Configuration Manager Admin Console Install Dir >\XmlStorage\Extensions\DLPlugin** folder.
 - Provide write permissions using PowerShell, see [Providing Read and Execute Permissions to Users](#).
10. If you are a non-administrator user and you want to discover servers automatically, you must add the user to Dell Connections License Users group in Active Directory to provide access to Dell Connections License Manager.

11. For working with the deploying non-Windows operating systems on target systems task, complete these prerequisites:

- For deploying non-Windows operating systems, you require Network File System (NFS); Either Client for NFS or Services for Network File System.

However, Client for NFS is not available on operating systems such as Windows 7 Professional Edition (without service pack, or with SP1), and Windows Vista Business.

- Install Client for NFS on the system where site server/admin console or Dell Lifecycle Controller Integration is installed. NFS share name is case-sensitive.
- NFS is configured to have Anonymous/Unmapped read access for all systems. The NFS has read and write access for site server and admin console. Confirm that the site server, admin console, and the system on which the NFS share is present are in the same domain. NFS must contain at least 60% of free space. It is recommended that NFS share is hosted on a private network with no access to Internet. However, make NFS accessible from site server, admin console, and all the iDRACs.

To configure NFS:

- * On systems running Windows Server 2008, see [technet.microsoft.com/enus/library/cc753302\(v=ws.10\).aspx](http://technet.microsoft.com/enus/library/cc753302(v=ws.10).aspx)
- * On systems running Windows Server 2008 R2, see [technet.microsoft.com/enus/library/dd758767\(v=ws.10\).aspx](http://technet.microsoft.com/enus/library/dd758767(v=ws.10).aspx)

- Status messages are received at port 4434. Confirm that a firewall exception is set for this port, else the TaskViewer will not receive any operating system deployment status messages from the server on which the operating system is being installed.

To change the port on which TaskViewer can get the status messages: In the **DLCTaskManager.exe.config** configuration file, modify key= "NON_WIN_OSD_STATUS_PORT" and value="4434".

Ensure that the new port is not in use.

- Connect the network adapter to the network for the server on which the operating system is deployed.
- Confirm that virtual disk is available on the target system.
- Servers, where ESXi are deployed, are moved to another collection Managed Dell Lifecycle Controller (VMware ESXi 5.5, VMware ESXi 5.1 U1).
- If DHCP lookup fails while deployment then the server times out and it is not moved into **Managed Dell Lifecycle Controller (VMware ESXi 5.5, VMware ESXi 5.1 U1)**.

It is recommended that the network adapter is connected to the network port in the server on which the operating system is being deployed. For information on component-specific software prerequisites and requirements, see [Component-Specific Prerequisites](#).

Component-Specific Prerequisites

The DLCI for Configuration Manager installer verifies the following prerequisites before installation:

During Initial Startup

- **Regsrv32.exe**
- WinRM
- Client for NFS
- For Configuration Manager 2012 SP1
 - Windows 8 Pro and Windows 8 Enterprise
 - Windows Server 2012 Standard Edition
 - Windows Server 2012 Datacenter Edition
 - Microsoft Windows Server 2008 (x64)

- Microsoft .NET version 4.0
- For Configuration Manager 2012
 - Microsoft Windows Server 2008 and 2008 R2
 - Microsoft .NET version 4.0
- For Configuration Manager 2007
 - Microsoft Windows Server 2003 SP1 or later
 - Microsoft .NET version 3.5 SP1 or 4.0

For DLCU

- Installation on primary Site Server or Configuration Manager Admin console
- Dell Server Deployment Pack 2.1
- Windows Automation Install Kit (WAIC)/ADK
- For working with non-Windows operation system deployment feature, on a server running Red Hat Linux operating system, use Network File System version 3.0 (NFSv3)

For DPS

- The admin console is installed
- Internet Information Services (IIS) 6, IIS 7, IIS 7.5, or IIS 8
- IIS WMI compatibility is enabled on IIS 7 or IIS 8
- IIS6 WMI Metabase compatibility is enabled on IIS 7 or IIS 8
- **icacls.exe**

DPS and DLCU are present in the same domain.





Supported Operating Systems












The following table provides information on supported operating systems for the Dell Provisioning Server. The matrix presented in the table lists the operating systems supported to install DLCI for Configuration Manager.

For information on the supported configurations for Configuration Manager 2007, see: technet.microsoft.com/en-us/library/cc161860.aspx.

For information on the supported configurations for Configuration Manager 2012 SP1, Configuration Manager 2012, see: technet.microsoft.com/en-us/library/gg682077.aspx.

Table 1. Support Matrix for Dell Provisioning Server

Operating Systems	Dell Provisioning Service
The following operating systems are supported for Configuration Manager 2007 only.	
Windows Server 2008 SP2 — Standard and Enterprise x86 Editions	
Windows Server 2008 — Standard and Enterprise x86 Editions	
Windows 8	
Windows 7 x86 Edition	

Operating Systems	Dell Provisioning Service
Windows Vista SP1 x86 Business Edition	
Windows Vista x86 Business Edition	
The following operating systems are supported for Configuration Manager 2007/2012.	
Windows Server 2008 SP2 — Standard, Enterprise, and Datacenter x64 Editions	
Windows Server 2008 — Standard, Enterprise, and Datacenter x64 Editions	
Windows Server 2008 R2 — Standard, Enterprise, and Datacenter Editions	
Windows Vista SP1 x64 Business Edition	
Windows Vista x64 Business Edition	
The following operating systems are supported for Configuration Manager 2012 SP1.	
Windows Server 2012 — Standard and Datacenter x64 Editions	
Windows 7 x64 Edition	
Windows Vista SP1 x64 Business Edition	
Windows Vista x64 Business Edition	

Enabling or Disabling WMI Traffic Using Firewall

If firewall is enabled on Dell Lifecycle Controller Utility for Configuration Manager 2012 SP1, Configuration Manager 2012, Configuration Manager 2007; then, to run remote PowerShell commands for the WMI class, you must enable the WMI traffic.

To enable WMI traffic using firewall user interface:

1. In **Control Panel**, click **Security** and then click **Windows Firewall**.
2. Click **Change Settings**, and then click **Exceptions**.
3. In **Exceptions**, to enable WMI traffic, select **Windows Management Instrumentation (WMI)**.



NOTE: To disable WMI traffic, clear **Windows Management Instrumentation (WMI)**.

Providing Read and Execute Permissions to Users

Non-administrator users are required to complete the following prerequisites on the Site Server, SMS provider Server, and DPS Server before installing DLCU and DPS components:

1. In PowerShell, run this command: `Enable-PSRemoting`.
2. In the confirmation message, type `Y`.
3. In PowerShell, run this command: `Set-ExecutionPolicy RemoteSigned`.
4. In the confirmation message, type `Y`.

Installing DLCI for Configuration Manager

The Dell Lifecycle Controller Integration (DLCI) for Configuration Manager installer contains two components — Dell Lifecycle Controller Utility (DLCU) and Dell Provisioning Service (DPS).

DLCU is a plug-in for Configuration Manager; select this option when you have Configuration Manager installed on a site server.

DPS is a component for provisioning Dell servers into Configuration Manager. For DPS, Configuration Manager installation is not required.

The server on which DPS is installed is known as Dell Provisioning Server.

You can install both the components together or install them individually on separate systems.

Table 2. Installer Support for Client and Server Operating Systems

Operating System Version	Initial Prerequisites Check	DLCU Component	DPS Component
Client OS only	Installation is not supported. An error message is displayed.	Not Applicable	Not Applicable
Client OS + Admin Console	Pass	Pass	Not Applicable
Server OS only	Installation is not supported. An error message is displayed.	Not Applicable	Not Applicable
Server OS + Admin Console	Pass	Pass	Pass
Server OS + Site Server only	Installation is not supported. An error message is displayed.	Not Applicable	Not Applicable
Server OS + Admin Console + Site Server	Pass	Pass	Pass

It is recommended that you close Configuration Manager before installing, upgrading, or uninstalling the DLCI for Configuration Manager.

To Install DLCI for Configuration Manager


1. Go to dell.com/support/manuals → **Drivers & Downloads**.
2. Select the product, which is ideally a Dell PowerEdge $\gamma x 2x$ (12th generation or 12 G) system.
In the server name format γxxx , γ denotes alphabets, for example M, R, or T; and x denotes numbers.
3. Select the operating system.
4. In **Category**, select **All**.
5. Click **Lifecycle Controller** from the list displayed.
6. Click **Download** against **Dell Lifecycle Controller Integration**.
7. Download **Dell_Lifecycle_Controller_Integration_2.1.0_Axx.zip** and extract the contents to a folder on the system.


8. To install the package, if UAC is enabled, see [Working With DLCI on a User Account Control Enabled System](#), else double-click **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe**.
The **Welcome** screen is displayed.
9. Click **Next**.
The license agreement is displayed.
10. Accept the license agreement and click **Next**.
The **Custom Setup** screen is displayed.
11. Select the option to install either the **Dell Lifecycle Controller Utility** or the **Dell Provisioning Service**, or both.
If you are installing DPS on a system where Configuration Manager is not available, both the options, DLCI for Configuration Manager 2007 and DLCI for Configuration Manager 2012 are available. When you clear either option, the space required on the hard drive is incorrect in **Feature Description**.
You can select from the following custom options based on your requirement:
 - [Installing DLCU and DPS](#)
 - [Installing DLCU Only](#)
 - [Installing DPS Only](#)

Installing DLCU and DPS


To install the DLCU and DPS on a Site Server or Admin Console:

1. From **Custom Setup**, select both **Dell Lifecycle Controller Utility** and **Dell Provisioning Service** and click **Next**.
The **Custom Setup Confirmation** screen is displayed.
2. Click **Next**.
The **Dell Provisioning Service User Credentials for Configuration Manager Access** screen is displayed.
3. Perform one of the following:
 - a) On a Site Server, enter an account (with required privileges) for use by Dell Provisioning Service to access Configuration Manager, on all newly discovered systems with iDRAC, and click **Next**.
 - b) On a Configuration Manager Admin Console with IIS, type the primary site server name, user name, and password that is provisioned on all newly discovered systems with iDRAC, and click **Next**.
To automatically configure the Dell Provisioning Server, select **Automatically configure Dell Provisioning Server user permissions**.

 **NOTE:** If the user name is not part of **SMS_Admins** group, then you must provide additional permissions to the WMI namespace, for more information, see [Setting Namespace Security and Granting Permissions](#).
- The **Dell Lifecycle Controller Utility User Credentials for iDRAC Access** screen is displayed.
4. Type the iDRAC credentials, retain the default settings for skipping CN and CA checks, and then click **Next**.
The **Change Firewall Setting** screen is displayed.
5. Select the **Add Provision Web Site Port in the firewall exception list** option. This enables the DPS to discover the target systems even when firewall is enabled.


 **NOTE:** This screen is displayed only when you select the **Dell Provisioning Service** in the installer.
6. Click **Next**.
The **Ready to Install the Program** window is displayed.
7. Click **Install**.
The Progress bar is displayed. After installation, the completion message is displayed.
8. Click **Next**.

9. In **Installation Completed Successfully**, click **Finish**.

 **NOTE:** As part of the installation, a provisioning website is created and configured under Internet Information Services (IIS).


Installing DLCU Only

For information on component-specific requirements, see [Component-Specific Prerequisites](#).

 **NOTE:** Make sure that you install the DLCU on the Site Server before using it on the Admin Console.

To install only the DLCU:

1. In **Custom Setup**, select **Dell Lifecycle Controller Utility**, clear **Dell Provisioning Service**, and click **Next**.
In the **Custom Setup Confirmation** screen, the selected component is displayed.
2. Click **Next**.
3. In **Dell Lifecycle Controller Utility User Credentials for iDRAC Access**, enter the user name and password for out-of-band controller management. This account is provisioned on the iDRAC.
Retain the default settings for skipping CN and CA checks.

 **NOTE:** This screen is displayed only if you are installing DLCU for Configuration Manager on a Site Server.


4. Click **Next**.
The **Ready to Install the Program** screen is displayed.
5. Click **Install**.
The progress bar is displayed. After installation, the completion message is displayed.
6. Click **Next**.
7. In **Installation Completed Successfully**, click **Finish**.

Installing DPS Only


For information on component-specific requirements, see [Component-Specific Prerequisites](#).

To install only the DPS:

1. In **Custom Setup**, select **Dell Provisioning Service**, clear **Dell Lifecycle Controller Utility** and click **Next**.
In the **Custom Setup Confirmation** screen, the selected component is displayed.
2. Click **Next**.
3. In the **Dell Provisioning Service User Credentials for Configuration Manager Access** screen, enter the primary site server name or IP of the server, user name, and password.
To automatically configure the **Dell Provisioning Server** for non-administrator user, select **Automatically configure Dell Provisioning Server user permissions**.

 **NOTE:** If the user name is not part of **SMS_Admins** group, then you must provide additional permissions to the WMI namespace, for more information, see [Setting Namespace Security and Granting Permissions](#).

4. Click **Next**.
The **Change Firewall Setting** screen is displayed.
5. Select **Add Provision Web Site Port in the firewall exception list**. This enables the DPS to discover the target systems even when firewall is enabled.

 **NOTE:** This screen is displayed only when you select the **Dell Provisioning Service** in the installer.

6. Click **Next**.
The **Ready to Install the Program** message is displayed.

7. Click **Install**.

The progress bar is displayed. After installation, the completion message is displayed.

8. Click **Next** and then click **Finish**.

Working With DLCI on a User Account Control Enabled System

The permissions required to install or uninstall the DLCU feature on a site server are as follows:

- You have a local administrator or a domain administrator access to the server.
- On an operating system, such as Microsoft Windows Server 2008, with User Account Control (UAC) enabled, launch the EXE file from a command prompt using **Run As Administrator**.
- The permissions on Configuration Manager are:
 - Site = Read
 - Package = Read, Delete, and Create

Using DLCI for Configuration Manager on a UAC-Enabled System

1. Right-click **Command Prompt** and select **Run As Administrator**.
2. Run **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe** from the folder where you have extracted it.
3. Follow the instructions in the installation wizard to install DLCI on the system.

Using the Repair Option in the Installer

1. To repair the installation of DLCI for Configuration Manager, if UAC is enabled, see [Working With DLCI on a User Account Control Enabled System](#), else double-click **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe**.
The **Welcome** screen is displayed.
2. Click **Next**.
3. In **Program Maintenance**, select **Repair**, and then click **Next**.
The **Ready to Repair the Program** screen is displayed.
4. Click **Install**.
A progress screen displays the progress of the installation. After the installation is complete, the InstallShield Wizard Completed window is displayed.
5. Click **Finish**.

Upgrading DLCI for Configuration Manager From a Previous Version




NOTE:

- Before upgrading to Configuration Manager 2012 SP1 from Configuration Manager 2012, first you must uninstall DLCI and DSDP, and delete the boot images created using DSDP 2.0 or DSDP 2.1. After the upgrade, install DSDP and DLCI.
- DLCI for Configuration Manager supports upgrading only from version 2.0.1 to later versions.
If you have lower version installed, you must first uninstall the lower version and then install version 2.1. When you uninstall the lower version, the previous settings are not retained and you must rediscover the target systems after you install version 2.1. For example, as DLCI for Configuration Manager does not support upgrade from DLCI 2.0 to DLCI 2.1, uninstall DLCI 2.0 and re-install DLCI 2.1.


Prerequisites for Upgrading

Before you upgrade to DLCI version 2.1 for Configuration Manager, you must upgrade the firmware on the target systems. If the blade servers are part of the Chassis, then upgrade the Chassis Management Controller (CMC) firmware before upgrading other firmware.


If you are using Dell Update Packages (DUPs) to perform the updates on the *yx1x* (PowerEdge 11G servers), then update firmware as follows:

 **NOTE:** In the server name format *yx1x*, y denotes alphabets, for example M, R, or T; and x denotes numbers.

1. Upgrade the BIOS of the target systems to the latest version.
2. Upgrade Lifecycle Controller on the target systems to version 1.5.5 or later. For more information, see the *Dell Lifecycle Controller USC/USC-LCE Version 1.5 User's Guide* available at dell.com/support/manuals. To upgrade Lifecycle Controller, use the Firmware Upgrade Tool in DLCI version 2.1 for Configuration Manager. Lifecycle Controller version 1.5.5 is delivered as part of iDRAC version 1.9 for rack and tower servers and iDRAC version 3.4 for blade servers.
3. Upgrade iDRAC on the target systems to version 1.9 or later for monolithic systems and iDRAC version 3.4 or later for modular systems. For more information, see the *Integrated Dell Remote Access Controller 6 (iDRAC7) Version 1.9 User's Guide*, and the *Integrated Dell Remote Access Controller 6 (iDRAC6) Enterprise for Blade Servers Version 3.4 User's Guide* available at dell.com/support/manuals.

 **NOTE:** You cannot abort the upgrade process by closing the installation wizard. If you close the installation wizard, the following message is displayed: Are you sure you want to cancel Dell Lifecycle Controller Integration installation? The upgrade process continues irrespective of the selection you make on the message box.

If you are updating iDRAC firmware to version 3.0 or greater from an iDRAC on version less than 2.3, then first update the iDRAC firmware to version 2.3 before updating to version 3.0 or greater on 11G servers.

 **NOTE:** For PowerEdge 12G servers, you do not require to update firmware before installing DLCI.

Upgrading DLCI for Configuration Manager From Version 2.0.1 to Version 2.1

To upgrade DLCI for Configuration Manager from version 2.0.1 to version 2.1:

1. Run the **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe** file from the folder where you have extracted it.
2. A dialog box displays the message that another version of DLCI for Configuration Manager is found; asking you if you want to upgrade. Click **Yes** to continue.
The **Welcome** screen is displayed.
3. Click **Next**.
The license agreement is displayed.
4. Accept the license agreement and click **Next**.
The **Custom Setup** screen is displayed.
5. Select one or both the components. Follow the steps provided:
 - [Installing DLCU and DPS](#)
 - [Installing DLCU Only](#)
 - [Installing DPS Only](#)



NOTE: You cannot abort the upgrade process by closing the installation wizard. If you close the installation wizard, the following message is displayed: Are you sure you want to cancel Dell Lifecycle Controller Integration installation? The upgrade process continues irrespective of the selection you make on the message box.

Using the Modify Option in the Installer

The **Modify** option in the DLCI for Configuration Manager installer, modifies the program features that are installed. This option enables you to perform the following actions:

- [Installing a Feature That You Did Not Install Earlier](#)
- [Removing a Feature That You Had Installed Earlier](#)

If you uninstall DLCU in the DLCI server using the **Modify** option, then uninstall DPS and install again.

Installing a Feature That You Did Not Install Earlier

To install a feature that you did not install earlier:

1. Run **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe** from the folder where you have extracted it.
2. Click **Next**.
The installer displays three options.
3. Select the **Modify** option.
The **Custom Setup** screen is displayed.
4. In **Custom Setup**, select the feature that you did not install earlier.
5. Click **Next**.
6. In **Ready to Modify the Program**, click **Install** to begin installing the feature.
When the installation process completes, click **Finish** to exit the installer.

Removing a Feature That You Had Installed Earlier

To remove a feature that you had installed earlier:

1. Run **Dell_Lifecycle_Controller_Integration_2.0.0.xxx.exe** from the folder where you have extracted it.
2. Click **Next**.
The installer displays three options.
3. Select the **Modify** option.
The **Custom Setup** screen is displayed.
4. In **Custom Setup**, select the feature that you want to remove.
5. Click the feature and select the option **This feature will not be available** and click **Next**.
6. Click **Install**.
The installer removes the feature.

Uninstalling DLCI for Configuration Manager

To uninstall the DLCI for Configuration Manager:

1. Click **Start** → **Control Panel** → **Add or Remove Programs**.

2. Select **Dell Lifecycle Controller Integration 2.1.0** and click **Remove**.
3. Follow the instructions to complete the uninstallation.

Or, if you are uninstalling by using the package that you downloaded and if UAC is enabled, see [Working With DLCI on a User Account Control Enabled System](#), else double-click **Dell_Lifecycle_Controller_Integration_2.1.0.xxx.exe**, select **Remove**, and follow the instructions on the screen.

Troubleshooting

Errors During Dell Provisioning Service (DPS) Installation on System

When installing DPS on a system other than the site server, if you specify incorrect system name or user credentials for accessing the site server, the information is not authenticated by the installer, and the installation is completed.

However, when DPS is trying to access the site server, failure to access the site server occurs. When such failure occurs; from the DPS installation directory location, in the file import.log, check the log information for this error message:

```
ERROR2011-10-14 03:01:02 - SCCMProxy::Connect()-Failed to connect - Error The  
RPC server is unavailable. (Exception from HRESULT: 0x800706BA) at  
Microsoft.ConfigurationManagement.ManagementProvider.WqlQueryEngine.WqlConnectio  
nManager.Connect(String configMgrServerPath)
```

If the error message is present, then install DPS again and provide the correct system name.