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.
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Dell Server Deployment Pack installation guide overview

This guide provides information on software prerequisites and requirements to install and uninstall Dell Server Deployment Pack (DSDP) for Microsoft System Center Configuration Manager (Configuration Manager).

Before you begin configuring the server, make sure that you have set up the server and the environment by using Microsoft System Center 2012 SP2 Configuration Manager, Microsoft System Center 2012 R2 SP1 Configuration Manager, Microsoft System Center 2012 R2 Configuration Manager, Microsoft System Center 2012 SP1 Configuration Manager, Microsoft System Center 2012 Configuration Manager. Visit the Microsoft TechNet site at technet.microsoft.com for details.

Prerequisites and requirements

**NOTE:** This document contains information on requirements and the supported software necessary for installing DSDP and this document is packaged in the DSDP installable. If you are installing this version of DSDP after a long time after its release date, check to see if there is an updated version of this document on the support site. For accessing documents on support site, see Accessing Documents From The Dell Support Site or visit dell.com/support/Manu.../Product/dell-srvr-dploymnt-pck-v3.0-for-systm-center-config-mang.

- Familiarity with deploying operating systems by using supported Configuration Manager versions.
- Configuration Manager 2012 SP2, 2012 R2 SP1, 2012 R2, 2012 SP1, or 2012 is installed on the server. For details on how to download and install Configuration Manager, visit the Microsoft TechNet site at technet.microsoft.com.
- At least 100 MB of free disk space to install and use DSDP.
- KB articles are referred; for Configuration Manager 2012 R2 installed on a site server operating system Windows Server 2012 R2, see Microsoft KB 2907591.
- KB articles are referred; for Configuration Manager 2012 SP2, Configuration Manager 2012 R2 SP1, Configuration Manager 2012 R2, Configuration Manager 2012 SP1, or Configuration Manager 2012 installed on a site server operating system Windows Server 2008 SP2, Windows Server 2008 SP1, or Windows Server 2008, see Microsoft KB 979492.
- **Network Access Account** configured to run the Configuration Manager task sequences on the client system. For more information, see Configuring Network Access Account.
- Fully Qualified Domain Name (FQDN) is specified. For more information, see Specifying a Fully Qualified Domain Name.
- .NET 4.0 is installed on the system where you want to install DSDP.
- Ensure that the administration console or Configuration Manager is installed on the primary site server.
- Before installing or uninstalling DSDP, ensure that the SMS provider is up and running.
- For other requirements, see Troubleshooting.
- Ensure that these site server configurations are supported:
  - Options:
    - * Configuration Manager and SMS providers are installed in the same system.
* Configuration Manager and SMS providers are installed in different systems.
  – Site server with all Configuration Manager components installed on the same system and DSDP is installed on the same system.
  – Site server and SMS provider, with DSDP installed on the site server.
  – Central administrative site (CAS), primary site server, and secondary site server, with DSDP installed on the CAS and primary site server. You can install DSDP only on the CAS and primary site server.
  – Site server and admin console, with DSDP installed in both site server and admin console.

You must have administrator login credentials on servers that are used for setting up SMS providers and site servers.

**Supported operating systems**

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Configuration Manager Site Server Support</th>
<th>Configuration Manager Admin Console Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Server 2012 R2</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows Server 2012 Datacenter Edition x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows Server 2012 Standard Edition x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 Ultimate</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 R2 SP1 x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 R2 x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 Standard Editions x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Server 2008 Enterprise Editions x86 and x64</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Windows 8 Pro x64</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Windows 8 Enterprise x64</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows 7 x86 and x64</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Microsoft Windows Vista Business Edition x86 and x64 SP1</td>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>
Supported systems

For information on the supported Dell systems, see the Dell Server Deployment Pack 3.0 Readme at dell.com/support/manuals.

Configuring network access account in Configuration Manager 2012 SP2, 2012 R2 SP1, 2012 R2, 2012 SP1, or 2012

1. Launch Configuration Manager Console. The Configuration Manager Console screen is displayed.
2. In the left pane of the Configuration Manager Console, click Administration.
3. Expand Site Configuration and click Sites.
4. Right-click the site that you want to configure, select Configure Site Components → Software Distribution. The Software Distribution Component Properties screen is displayed.
5. Click Network Access Account.
6. Select Specify the account that accesses network locations and then click Set. The following options are displayed:
   - Existing Account — To use an already existing account.
   - New Account — To add a new account.
7. Perform one of the following:
   a. Click Existing Account. The Select Account screen is displayed.
      b. Select your user account and click OK.
   Or
      b. Enter the administrator credentials for accessing Configuration Manager from client systems, and click OK.
      The user name is displayed in the Account field.
8. Click OK.

Specifying a Fully Qualified Domain Name

Specifying an FQDN in Configuration Manager 2012 SP2, 2012 R2 SP1, 2012 R2, 2012 SP1, or 2012

1. Launch Configuration Manager Console.
2. In the left pane of the Configuration Manager Console, click Administration.
3. Expand Site Configuration and click Servers and Site System Roles.
4. Click the server or site system.
5. On the bottom pane under Site System Roles, right-click Site system and click Properties.
6. Select the Specify an FQDN for this site system for use on the Internet check box.
7. In the Internet FQDN field, provide the full FQDN.
8. Click Apply and then click OK.

## Installing Dell Server Deployment Pack

Before you proceed, make sure that you are logged in with administrator privileges on the server where you want to install Dell Server Deployment Pack.

### Installing Dell Server Deployment Pack for the first time on the system

Perform the following steps if you are installing Dell Server Deployment Pack for the first time on the system:

1. Go to dell.com/support and then click Drivers & Downloads.
2. Download the Dell_Server_Deployment_Pack_v3.0_for_Configuration_Manager_Axx.exe (where xx is the Dell Server Deployment Pack release number).
3. Run the .exe file and specify a path to extract the contents of the self extractable zip file, for example, C:\DSDP.
   The Dell_Server_Deployment_Pack__v3.0_for_Configuration_Manager.exe file is extracted to the Dell_Server_Deployment_Pack_v3.0_for_Configuration_Manager folder in the specified path.
4. Open the command prompt using the Run As Administrator option, navigate to the location of the executable file, and launch the executable file.
   The Welcome screen for Dell Server Deployment Pack is displayed.
5. Click Next.
   The license agreement is displayed.
6. Accept the license terms after reading them, and click Next.
   If the Configuration Manager console is running, then a message is displayed that the Configuration Manager must be closed for the installation to continue.
7. Click Next to close the Configuration Manager console automatically.
   The Ready to Install the Program screen is displayed.
8. Click Install.
   The Installing Dell Server Deployment pack for Configuration Manager progress screen is displayed and after the installation is complete, the Installation Completed Successfully screen is displayed.
9. Click Finish.

## Upgrading Dell Server Deployment Pack

- **NOTE:** You can upgrade to DSDP 3.0 from DSDP 2.1, DSDP 2.1 SP01, or DSDP 2.1 SP02.
- **NOTE:** Task sequences created in a previous version of Dell Server Deployment Pack will not work. For information on how to make these task sequences work, see the “Troubleshooting” section in the Dell Server Deployment Pack Version 3.0 for Microsoft System Center Configuration Manager User’s Guide on dell.com/support/manuals.
NOTE: To upgrade the Configuration Manager, on which DSDP is installed, to the newer version available, first upgrade the Configuration Manager to the newer version and then upgrade DSDP to the latest version.

However, before you upgrade the console, it is recommended that you delete all the Dell boot images that were created by using the earlier versions.

Perform the following steps to upgrade to Dell Server Deployment Pack version 3.0:

1. Download and extract the executable file. For information, see step 1 to step 3 of Installing Dell Server Deployment Pack for the First Time.
2. Run the executable file.
   A message to confirm whether you want to upgrade to a newer version is displayed.
3. Click Yes.
   The Welcome screen is displayed.
4. Click Next.
   The license agreement is displayed.
5. Accept the license terms after reading them, and click Next.
   If Configuration Manager console is running, then a message is displayed that the Configuration Manager must be closed for the installation to continue. Close the Configuration Manager Console and proceed with the installation.
6. Click Yes.
   The Remove/Retain Dell Deployment ToolKit (DTK) utilities and Windows PE drivers screen displays the following options:
   - Retain Dell Deployment ToolKit (DTK) utilities and Windows PE drivers — Select this option to retain the DTK utilities and Windows PE drivers imported in to Configuration Manager during the previous installation of Dell Server Deployment Pack.
   - Remove Dell Deployment ToolKit (DTK) utilities and Windows PE drivers — Select this option to remove the DTK utilities and Windows PE drivers imported in to Configuration Manager during the previous installation of Dell Server Deployment Pack.

   NOTE: If you select Remove Dell Deployment ToolKit (DTK) utilities and Windows PE drivers, use the Deployment ToolKit Configuration Wizard to import the DTK package and create Dell boot images after the installation. For more information on creating Dell boot images, see the "Importing a DTK Package" section of the Dell Server Deployment Pack Version 3.0 for Microsoft System Center Configuration Manager User’s Guide at dell.com/support/manuals.
7. Click Next.
   The Ready to Install the Program screen is displayed.
8. Click Install.
   The Installing Dell Server Deployment pack for Configuration Manager progress screen is displayed.
   If a boot image is already present, then a message is displayed asking if you want to delete the boot images previously created.
9. Select an option to proceed
   The Installation Completed Successfully screen is displayed.
10. Click Finish.

After the installation is complete, use the Deployment ToolKit Configuration Wizard to import the DTK5.x-WINPE-xxx_Axx.exe (where xxx is the DTK build number and Axx is the DTK revision number) or later. You can download the latest DTK pack from support.dell.com. For more information, see
Migrating to Microsoft System Center Configuration Manager 2012 SP2, 2012 R2 SP1, 2012 R2, 2012 SP1, or 2012

It is recommended to uninstall DSDP (including any boot images, DTK Utilities, and Windows PE Drivers) before you migrate your system to Configuration Manager 2012 SP2, 2012 R2 SP1, 2012 R2, 2012 SP1, or 2012. For more information on uninstalling DSDP, see Uninstalling DSDP.

Uninstalling Dell Server Deployment Pack using the GUI

NOTE: The drivers injected into the Windows PE boot images are removed while uninstalling DSDP 3.0.

To uninstall the DSDP:

1. Click Start → Control Panel → Programs → Uninstall a program.
2. In the Uninstall a program window, right-click Dell Server Deployment Pack v3.0 for Configuration Manager and click Uninstall.
3. A message is displayed to confirm if you want to retain or remove the Dell boot images created using the Deployment Toolkit Configuration Wizard. Click Yes to delete or No to retain.
4. Follow the instructions in the wizard to complete the uninstallation.

You can also uninstall DSDP by running the executable file used for installing, and following the uninstallation instructions.

NOTE: Delete all DSDP task sequences before uninstalling DSDP. You cannot use the task sequences after DSDP is uninstalled.

Installing, upgrading, and uninstalling Dell Server Deployment Pack using the command line

NOTE: It is recommended to close Configuration Manager before installing, upgrading, and uninstalling DSDP through command line.

Installing Dell Server Deployment Pack

1. Open a Command Prompt window.
2. Type the following command to install DSDP:
   "<name of the executable file> /s /v"/L*v "a.log" /qn"

For Example:
"Dell_Server_Deployment_Pack_3.0_for_Configuration_Manager.exe /s /v"/L*v "a.log" /qn"
Uninstalling Dell Server Deployment Pack

1. Open a Command Prompt window.
2. Type the following command to uninstall DSDP:
   "<Name of the executable file>" /s /x /v /L*v "a.log" /qn"
   For Example:
   "Dell_Server_Deployment_Pack_3.0_for_Configuration_Manager.exe" /s /x /v /L*v "a.log" /qn"
3. To retain boot images, run this command:
   "<Name of the executable file>" /s /x /v CP_REMOVEBOOTIMAGE="NO" /L*v "a.log" /qn"
   For Example:
   "Dell_Server_Deployment_Pack_3.0_for_Configuration_Manager.exe" /s /x /v CP_REMOVEBOOTIMAGE="NO" /L*v "a.log" /qn"

   NOTE: Delete all DSDP task sequences before uninstalling DSDP. You cannot use the task sequences after DSDP is uninstalled.

Upgrading Dell Server Deployment Pack

NOTE: You can upgrade to Dell Server Deployment Pack 3.0 on systems running Configuration Manager 2012 SP2, Configuration Manager 2012 R2 SP1, Configuration Manager 2012 R2, Configuration Manager 2012 SP1, or Configuration Manager 2012, installed with DSDP 2.1, DSDP 2.1 SP01, or DSDP 2.1 SP02.

NOTE: You can only upgrade DSDP 2.0 to DSDP 2.1. To upgrade versions of DSDP earlier than 2.0 to DSDP 2.1, you must first upgrade to DSDP 2.0.

Upgrading with the Retain Dell Deployment ToolKit DTK Utilities and Windows PE Drivers option

1. Open a Command Prompt window.
2. Type the following command to upgrade DSDP with the Retain Dell Deployment ToolKit (DTK) Utilities and Windows PE Drivers option.
   "<name of the executable file>" > /s /v /L*v "a.log" /qn"
   or
   "<name of the executable file>" /s /v CP_WINPESTATE="RetainWinPE" /L*v "a.log" /qn"

   NOTE: Boot-images created using previous versions of DSDP will not be retained when upgrading through command line interface.

   For Example:
   "Dell_Server_Deployment_Pack_3.0_for_Configuration_Manager.exe" /s /v CP_WINPESTATE="RetainWinPE" /L*v "a.log" /qn"
Upgrading with the Remove Dell Deployment ToolKit DTK Utilities and Windows PE Drivers option

1. Open a Command Prompt window.
2. Type the following command to upgrade DSDP with the Remove Dell Deployment ToolKit (DTK) Utilities and Windows PE Drivers Option.
   
   
   "<name of the executable file>" CP_WINPESTATE="RemoveWinPE" /qn /L*v <log file name>
   
   For Example:
   
   "Dell_Server_Deployment_Pack_3.0_for_Configuration_Manager.exe" CP_WINPESTATE="RemoveWinPE" /qn /L*v a.log

Working with the Configuration Manager Admin console

The Configuration Manager Admin Console supports installation, uninstallation, and upgrade of Dell Server Deployment Pack and deployment of tasks such as creating task sequences and creating Dell server driver packages.

⚠️ NOTE: Make sure that the versions of Dell Server Deployment Pack are the same on Configuration Manager Site Server and Configuration Manager Admin Console.

⚠️ NOTE: All procedures mentioned in the document like installing, uninstalling and so on for Configuration Manager Site Server are applicable to Configuration Manager Admin Console.

Other Dell documents you might need

In addition to this guide and the online help, you might need to refer the following documents to get details on specific Dell OpenManage products. These documents are available at dell.com/support/manuals.

- The Dell Server Deployment Pack Version 3.0 for Microsoft System Center Configuration Manager User’s Guide provides information on using DSDP 3.0 on your system.
- The Dell Remote Access Controller 5 Firmware User’s Guide provides comprehensive information about using the RACADM command line utility to configure a DRAC 5.
- The Dell Chassis Management Controller User’s Guide provides comprehensive information about using the controller that manages all modules in the chassis containing your Dell server.
- The Command Line Reference Guide for iDRAC6 and CMC provides comprehensive information about using the RACADM command line utility.
- The Command Line Reference Guide for iDRAC 2.00.00.00 and CMC provides comprehensive information about using the RACADM command line utility on Dell’s 10th generation to 13th generation PowerEdge platforms.
- The Dell OpenManage Deployment ToolKit User’s Guide provides general, best practices procedures that focus on the basic tasks for a successful deployment using Windows Preinstallation Environment (Windows PE) or embedded Linux.
- The Dell OpenManage Deployment ToolKit Command Line Interface Reference Guide provides information on the command line utilities to configure system features.
The Server Update Utility User's Guide provides information on how to identify and apply updates to your system.

The Glossary for information on terms used in this document.

Troubleshooting

This section contains troubleshooting information for the DSDP.

Uninstalling Dell Server Deployment Pack using the Control Panel

When uninstalling DSDP using the Control Panel, if uninstallation fails with the following error message:

"Error 1316. A network error occurred while attempting to read from the file C:\Windows\Installer\Dell Server Deployment Pack v3.0 for Configuration Manager.msi"

Then to uninstall DSDP, double-click the DSDP setup executable or use the command line method.

Installing Dell Server Deployment Pack when one or more SMS providers are down

You cannot install DSDP successfully when one or more SMS providers are down. You can verify if the SMS providers are running in the Configuration Manager.

To verify the status of the SMS providers in the Configuration Manager, click Monitoring → Overview → System Status → Component Status. The status of the components is displayed on the right-hand side. Ensure that the SMS providers are up and running.

Deploying OS on Dell’s 13th generation PowerEdge platforms using WinPE 3.0

As the drivers for USB3.0 are not available in WinPE 3.0, the OS deployment may fail if the BIOS config settings for USB 3.0 Setting and Memory Mapped I/O above 4 GB are enabled.

Solution: To boot to winPE3.x (32–bit and 64–bit) in BIOS boot mode on R730, R730 XD, R630, T630 and Precision 7910, disable USB 3.0 Setting and Memory Mapped I/O above 4 GB.

Contacting Dell

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

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

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

You can access the required documents in one of the following ways:

• Using the following links:
  – For all Enterprise Systems Management documents — dell.com/softwaresecuritymanuals
  – For OpenManage documents — dell.com/openmanagemanuals
  – For Remote Enterprise Systems Management documents — dell.com/esmmanuals
  – For OpenManage Connections Enterprise Systems Management documents — dell.com/OMConnectionsEnterpriseSystemsManagement
  – For Serviceability Tools documents — dell.com/serviceabilitytools
  – For OpenManage Connections Client Systems Management documents — dell.com/dellclientcommandsuitemanuals

• From the Dell Support site:
  a. Go to dell.com/support/home.
  c. In the Software & Security group box, click the required link from the following:
     – Enterprise Systems Management
     – Remote Enterprise Systems Management
     – Serviceability Tools
     – Dell Client Command Suite
     – Connections Client Systems Management
  d. To view a document, click the required product version.

• Using search engines:
  – Type the name and version of the document in the search box.