

Dell Client Integration Pack for Microsoft System Center 2012 Configuration Manager

Version 3.0 User's Guide



Notes, cautions, and warnings

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

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

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

Chapter 1: Introduction.....	5
What's new in this release.....	5
Key Features And Functionalities.....	5
Supported Client Operating Systems and Dell Devices.....	6
Supported operating systems.....	6
Supported Dell Client Systems.....	6
Chapter 2: Using Dell Command Integration Suite for System Center	7
Inserting Dell Drivers Into A Windows PE Boot Image.....	7
Creating Dell Client Driver Packages.....	8
Dell Command Configure Self-Contained-Executable File.....	8
Importing Dell Command Configure SCE packages.....	8
Importing Dell Command Monitor.....	9
Managing and updating distribution points.....	9
Creating a task sequence.....	10
Creating a task sequence using the Dell Client Deployment Template.....	10
Creating A Custom Task Sequence.....	10
Editing A Task Sequence.....	11
Configuring task sequence actions.....	11
Configuring the system BIOS.....	11
Applying SCE on the target system.....	12
Computer Association.....	13
Importing System Information.....	13
Import Computers Using A File.....	13
Import Single Computer.....	13
Advertising A Task Sequence.....	14
Best Practices For Advertising a Task Sequence.....	15
Deploying A Task Sequence.....	15
Chapter 3: Dell Command Warranty	16
Launching Dell Command Warranty	16
Configuring Dell Command Warranty.....	16
Saving The Configuration To The Registry.....	16
Saving The Configuration To A File.....	17
Retrieving warranty information.....	17
Exporting Service-Tags From Configuration Manager To A CSV File.....	18
Copying CSV Results To A Database.....	18
Generating Reports.....	18
Reporting Services Of The Configuration Manager.....	19
Viewing Reports Using Report Builder.....	19
Installing SQL Server Reporting Services.....	19
Disabling Logging.....	19
Chapter 4: The Dell Command Intel vPro Out Of Band Application.....	20

Software prerequisites.....	20
Launching the Dell Command Intel vPro Out of Band application.....	20
Database And Password Configuration.....	21
USB provisioning.....	21
Provisioning using a USB device.....	21
Client configuration.....	21
Configuring power profile.....	21
Configuring the Boot Order.....	22
Configuring BIOS settings.....	23
Setting BIOS passwords.....	23
Operations.....	24
Performing power management.....	24
Establishing KVM Sessions.....	25
Generating Reports	25
Scheduling Reports.....	25
Retrieving Reports.....	26
Application Preferences.....	26
DB and Passwords.....	26
KVM Setup.....	26
Logging.....	27
Task Queue Setup.....	27
Task Queue.....	27
Configuring WinRM on client systems.....	28
Chapter 5: Troubleshooting.....	29
Authenticode signature.....	29
Windows XP Installation Fails.....	29
KVM over wireless.....	29
Hardware inventory report memory speed is reported as zero.....	30
Max password length change.....	30
KVM power control to boot to OS in S3.....	30
Windows XP(x86) OS Deployment Hangs During Installation.....	30
Apply operating system task sequence action has a red bang.....	30
Chapter 6: Related reference.....	31
Obtaining technical support.....	31
Contacting Dell.....	31

Introduction

This document describes the activities that you can perform with Dell Command | Integration Suite for System Center on systems running Microsoft System Center Configuration Manager.

Topics:

- [What's new in this release](#)
- [Key Features And Functionalities](#)
- [Supported Client Operating Systems and Dell Devices](#)

What's new in this release

- In the **Password** feature, replaced the **Length** option with **Configure** option. The **Configure** option allows you to enable or disable a strong password feature, or customize individual password rules.

Key Features And Functionalities

Feature	Description
Remote Provisioning	Remotely perform AMT provisioning of Intel vPro-enabled clients.
Configuring Windows PreInstallation (WinPE) environment	Configure and push the customized operating system image on the client system. For more information on configuring the WinPE environment, see Creating A Dell WinPE Boot Image .
Creating and Importing Dell Client Driver Packages	Using streamlined access to Dell's catalog of system and WinPE driver cab files, configure and push customized driver packages onto client system. For more information on creating Dell client driver packages, see Creating Dell A Client Driver Package .
Integration of Dell Command Monitor	Use Dell Command Monitor features such as remote management applications, accessing managed node information, managing client state, and receiving alerts for client events. For more information on Dell Command Monitor integration, see Importing Dell Command Monitor .
Dell Command Configure	Configure the BIOS of Dell client systems such as OptiPlex, Latitude, and Dell Precision in an operating system-present environment using the Dell Command Configure Self Contained Executable (SCE) package.
Dell Command Intel vPro Out Of Band Application	An out-of-band management feature using Intel Active Management Technology (AMT). It is supported through a standalone application running on the Configuration Manager server. This feature provides the core functionality to manage client systems remotely and automatically regardless of the state of the operating system. For more information on Intel vPro Out Of Band Management, see Dell Intel vPro Out of Band Plugin .
Dell Command Warranty	Collects the warranty information of Dell client computers from the Dell support website. For more information on the Dell Warranty Information Utility, see <i>Dell Command Warranty User's Guide</i> at dell.com/support/manuals .
Distribution points	Simplified steps to manage and update the distribution points to push drivers and other application on to the client systems in your network.
Dell Command Software Gallery	Select from list of currently available Dell system management applications and create them in Configuration Manager.

Supported Client Operating Systems and Dell Devices

For the list of client operating systems that Dell Command | Integration Suite for System Center supports, see the `readme.txt` in the installation directory.

Supported operating systems

The following lists the types and specific versions of operating systems that are supported by this application.

Supported Dell Client Systems

For the list of supported Dell client systems that the Dell Command | Integration Suite for Configuration Manager 2012 supports, see the `readme.txt` in the installation directory.

Using Dell Command | Integration Suite for System Center

Before you begin using Dell Command | Integration Suite for System Center, make sure that the target Dell client systems are registered as Configuration Manager clients and present under **All Systems** on the Configuration Manager console. For more information on configuring clients through Configuration Manager, see the Microsoft TechNet article at technet.microsoft.com/en-us/library/gg682144.

You can use Dell Command | Integration Suite for System Center to perform the following tasks:

- Create Dell Windows PE boot images
- Create Dell client driver packages
- Import Dell client packages
- Create a bare-metal task sequence


Topics:

- [Inserting Dell Drivers Into A Windows PE Boot Image](#)
- [Creating Dell Client Driver Packages](#)
- [Dell Command | Configure Self-Contained-Executable File](#)
- [Importing Dell Command | Monitor](#)
- [Managing and updating distribution points](#)
- [Creating a task sequence](#)
- [Configuring task sequence actions](#)
- [Computer Association](#)
- [Advertising A Task Sequence](#)
- [Deploying A Task Sequence](#)

Inserting Dell Drivers Into A Windows PE Boot Image

To create a Dell Windows PE boot image:

1. Download the **Dell Command | Deploy (WinPE) Driver Library** file from dell.com/downloads.
2. Launch the Configuration Manager console.
3. Click **Software Library**.
4. Expand **Overview > Operating Systems**.
5. Right-click **Boot Images** and click **Dell Command | Integration Suite > Dell Command | Deploy (WinPE) Driver Library**.
The **Dell Command | Deploy (WinPE) Driver Library** screen is displayed.
6. Under the **Select boot image(s) to modify** select the boot images into which you want to insert the drivers.
7. Select the distribution point from the list available under **Select the distribution points to distribute content** to distribute the boot image automatically once the Dell drivers have been inserted into the Windows PE boot image package.
For more information, see [Managing And Updating Distribution Points](#)
8. Under **Specify the source driver library file:**, click **Browse** and select the Dell Windows PE driver **CAB** file. Click **Open**.
9. Under **Specify the WinPE tools file (optional)**, click **Browse** and select the ZIP file containing the Dell Windows PE tools. Click **Open**.

 **NOTE:** Make sure that the zip file containing the Windows PE tools is no larger than 5MB.

10. Under **Specify the destination network share path (UNC) the boot image(s)** click **Browse** and navigate to a location at which to store the Dell Windows PE boot images.
11. Click **OK**.
A progress bar displays the import status.

12. Click **Close**.

The Windows PE boot image is updated to include the selected Dell drivers.

Creating Dell Client Driver Packages

To create Dell client driver packages:

1. Download the operating system **Dell Command | Deploy (System) Driver Library** file from dell.com/downloads.
2. Launch Configuration Manager console.
3. Click **Software Library**.
4. Expand **Overview > Operating Systems**.
5. Right-click **Driver Packages** and click **Dell Command | Integration Suite > Dell Command | Deploy (System) Driver Library**.
The **Dell Command | Deploy (System) Driver Library Import Wizard** screen is displayed.
6. Under **Specify the source driver library file:**, click **Browse** to select the Dell Driver Pack file (.CAB).
7. Select your client system's model.
8. Select either the **x86** or **x64** architecture for creating driver packages.
9. Select the distribution point from the list available under **Select the distribution points to manage and update:** to distribute the package automatically once it is created.
10. Under **Specify the destination network share path (UNC) for the driver library content:** click **Browse** to provide a path to store the Dell Driver Packs.
NOTE: For Microsoft Windows XP operating systems, the **Storage Driver Package** option in the **Task Sequence Editor** is enabled. Select the appropriate storage driver during Microsoft Windows XP system deployment to avoid a continuous reboot with the following error: 0x0000007B (INACCESSIBLE_BOOT_DEVICE). For more information on the appropriate storage driver selection, see the Dell TechCenter site at delltechcenter.com.
11. Click **OK**.
The **Dell Command | Deploy (System) Driver Library Import Wizard** progress is displayed. Driver packages are created and stored under the **Dell System CAB Driver Packages** folder according to the operating systems architecture selected.
NOTE: Importing of drivers may take a long time. During this period, the progress bar may not be updated.
12. Click **Save** to save the path to the driver packages.
13. Click **Close** to exit the wizard.

Dell Command | Configure Self-Contained-Executable File

Dell Command | Configure Self-Contained Executable (SCE) file allows you to:

- customize configurations
- export a customized configuration to apply the same settings on a target client system
- export both supported and unsupported options
- customize your BIOS configuration

Importing Dell Command | Configure SCE packages

Dell Command | Configure Self-Contained Executable (SCE) file allows you to:

- Customize configurations
- Export a customized configuration to apply the same settings on a target client system.
- Export both supported and unsupported options.
- Customize your BIOS configuration.

To import Dell Command | Configure SCE packages:

1. Launch the Configuration Manager console.
2. Click **Software Library**.

3. Expand **Overview > Application Management**.
4. Right-click **Packages**, then click **Dell Command | Integration Suite > Import Dell Command | Configure Package**. The **Dell Command | Configure Package Import Wizard** screen is displayed.
5. Click **Browse** and browse the location of the Dell Command | Configure SCE file.

NOTE: The Dell Command | Configure SCE file is generated by exporting customized settings from the Dell Command | Configure. For more information, see *Dell Command | Configure User's Guide* on dell.com/support.

6. Select a distribution point from the list available under **Select the distribution points to manage and update** to distribute the package automatically once it is created.
7. Click **OK**.

If a package exists in the Configuration Manager, a message is displayed asking if you want to re-create or continue. If you select **No**, the process does not re-create the package. Otherwise, the package is removed from Configuration Manager, and a new package is created.

NOTE: If the following error message is displayed **Invalid SCE file**, then select a valid SCE package in step 5.

When the process is complete, a new package is created.

NOTE: To see the details of the newly created package, browse to **Packages > Dell Client Packages** on the Configuration Manager console. The newly created package is under Dell Client Packages.

8. After the wizard completes, the Dell Command | Configure SCE Software Package is created under **Packages**. Associate these packages with a task sequence for pre-OS deployment, or use them during post-OS configuration.

Importing Dell Command | Monitor

To import Dell Command | Monitor:

1. Download the **Dell Command | Monitor** application from dell.com/download.
2. Launch the Configuration Manager console.
3. Click **Software Library**.
4. Expand **Overview > Application Management**.
5. Right-click **Packages**, then click **Dell Command | Integration Suite > Import Dell Command | Monitor Package**. The **Dell Command | Monitor Package Import Wizard** screen is displayed.
6. Under **Specify the Dell Update Package (DUP) file to create the package** click **Browse** to go to the location where you have downloaded the Dell Command | Monitor DUP file, select it and click **Open**.
7. Select a distribution point from the list available under **Select the distribution points to manage and update** to distribute the Dell Command | Monitor DUP file automatically after it is created.
8. Click **Ok**.
A progress bar is displayed.
9. Click **Close**.
The **Dell Command | Monitor** DUP file is installed under **Packages**.

Managing and updating distribution points

Update the distribution points before creating a task sequence. To update and manage distribution points:

1. Launch the Configuration Manager console.
2. Click **Software Library**.
3. Expand **Overview > Application Management**. > **Packages** and click **Dell Client Deployment**.
4. Right-click **Client Custom Reboot Script** and click **Distribute Content**. The **Distribute Content Wizard** screen is displayed.
5. Click **Next** and follow the on-screen instructions to distribute content to the distribution points.
6. If the packages were not distributed while they were being created, repeat step 3 and step 4 to ensure that the client system can access the packages during an operating system installation.

Creating a task sequence

Task sequences are used to capture an operating system image, configure its settings, and deploy the image on a set of Dell client systems. You can create a task sequence in two ways:

- Create a Dell-specific task sequence, which has a set of pre-specified actions, using the **Client Operating System Deployment Task Template** template.
- Create a custom task sequence where you can add custom actions to the task sequence.

Creating a task sequence using the Dell Client Deployment Template

To create a task sequence using the Dell Client Deployment template:

1. Launch the Configuration Manager console.
2. Click **Software Library**.
3. Expand **Overview > Operating Systems**.
4. Right-click **Task Sequences**, then click **Dell Command | Integration Suite > Create Operating System Deployment Task Sequence**.
The **Client Operating System Deployment Task Template** window is displayed.
5. Enter the name of the task sequence in **Task Sequence Name** field.
6. Under **Client Hardware Configuration**, select the hardware items that you want to configure in this task sequence.
i **NOTE:** If you select the **Configure BIOS** check box and a Dell Command | Configure package has been previously created, then a task sequence template is created while configuring the system BIOS. The Dell Command | Configure package is selected by default and the command line to run the SCE on the target system is populated automatically. However, if a Dell Command | Configure package has not been created then a message that no Dell Command | Configure package has been detected is displayed. You can still configure the system BIOS but a package will not be selected.
7. Under **Network (Admin) Account**, enter the domain administrator account name and password.
8. Under **Operating System Installation**, select the operating system installation type. The options are:
 - Use an OS WIM image
 - Scripted OS install
9. Select an operating system package from the **Operating system package to use** drop-down menu.
10. If deploying Windows XP operating system, select the **sysprep.inf** info file from the **Package with Sysprep.inf info** drop-down menu.
11. Click **Create**.
A confirmation message is displayed.

Creating A Custom Task Sequence

To create a custom task sequence:

1. On the Configuration Manager console, click **Software Library**.
2. Expand **Overview > Application Management**.
3. Right-click **Task Sequences**, then click **Create Task Sequence**.
The **Create Task Sequence Wizard** is displayed.
4. Select the **Create a new custom task sequence** option and click **Next**.
5. Enter name, version number, and comments for the task sequence.
6. Browse for the Dell boot image that you had created, and click **Next**.
The **Confirm the settings** screen is displayed.
7. Review the settings and click **Next**.
8. After the task sequence has been created click **Close**.

Editing A Task Sequence

To edit a task sequence:

1. On the Configuration Manager console, click **Software Library**.
2. Expand **Overview > Operating Systems** and click **Task Sequence**.
3. Right-click the task sequence and click **Edit**.

The **Task Sequence Editor** window is displayed. You can now make changes to the task sequence accordingly.

NOTE: When editing a task sequence for the first time, an error message **Setup Windows and ConfigMgr** is displayed, create and select the Configurations Manager Client Upgrade package to resolve the error. For more information creating packages, see the Configuration Manager documentation at technet.microsoft.com.

Configuring task sequence actions

To edit the actions in a task sequence, select **Client Operating System Deployment Task Template** from the Task Sequence Editor.

Configuring the system BIOS

The **Configure BIOS** option is enabled on the task sequence after adding **Dell Client Configuration**. Make sure that Dell Command | Configure version 3.0 or later is installed on the target system to create a BIOS Package.

NOTE: While configuring the BIOS, if more than one Dell Command | Configure package exists, then the latest Dell Command | Configure package is selected. Older packages are available under **Dell Client Packages**. To select an older package, click **Browse** and select the older package while configuring the task sequence. For more information on creating a task sequence, see [Creating a Task Sequence](#).

NOTE: Switching the client-systems **Boot Modes** (both UEFI or Legacy BIOS) is not supported through the Task Sequence Editor. For more information, see technet.microsoft.com/en-us/library/jj938037.aspx.

Exporting the BIOS configuration file

Launch the Dell Command | Configure standalone application. For more information, see the *Dell Command | Configure User's Guide* at dell.com/support.

Prerequisites for exporting

The following are the prerequisites for exporting:

- The BIOS options is configured.
- The **Apply Settings** check box of the option is selected.

Export the configuration in the following formats:

- **Self-Contained Executable (SCE)** — Click **Export Configuration.exe** on the **Create Configuration** screen to export the configuration settings as an SCE (.exe file).

A **Validation Password** dialog box is displayed prompting the user to provide an optional password. If you have configured the system or setup password in the target system, type the same system or setup password in the **Validation Password** dialog box.

- **Report** — Click **Export Report** to export the configuration settings as a read-only *.html file. If you have configured the system or setup password in the exporting file, see [Password Protection Dialog Box](#).
- **Configuration file** — Click **Export Configuration** to export the configuration settings as a *.cctk or *.ini file. If you have configured the system or setup password in the exporting file, see [Password Protection Dialog Box](#).
- **Shell script** — The shell script is used to configure a Linux system. The shell script is generated at the same location to which the SCE file is exported, and contains the same configuration as that of the SCE file.

Exporting options without setting values

You can export certain options without specifying any values. The options are **asset** and **propowntag**.

To export **asset** and **propowntag** without specifying any values, select the **Apply Settings** check box of the corresponding option and export.

Password protection dialog box

If you have configured the system or setup password in the exporting file (configuration file or report), a password protection dialog box is displayed. To export the file with the password as clear text, click **Continue**. To hide the password and export, click **Mask**. If you have chosen to hide the password in the configuration (.cctk or .ini) file, the **setuppwd** is displayed as **<password removed>** indicating that password is hidden.

Applying SCE on the target system

You can apply SCE on the target system in one of the following ways:

- Using the Dell Command | Configure application package. For more information, see [Importing Dell Command | Configure SCE Packages](#).

or

- Using the Dell Command | Configure standalone application. For more information, see [Using the Standalone Application](#).

Using the standalone application

You can apply SCE on the target system using the Dell Command | Configure standalone application in one of the following ways:

- Double-click the SCE, or
- From the command prompt, navigate to the directory where SCE is located, and type the name of the SCE file.

Example:

```
C:\Windows\DCC\SCE>"<filename>"
```

SCE silently installs the settings on the target system. When the installation completes, SCE generates a text file with the same name at the same location. The text file contains all the applied options and the status of execution for the SCE file.

If you have configured a setup or system password on the target system, and if you have not provided the same password in the **Validation Password** dialog box while exporting SCE, (for more information, see [Exporting The BIOS Configuration File](#)), SCE cannot be applied on the target system. However, while applying SCE from the command prompt, you can provide the setup or system password of the target system.


Example of providing setup password:

```
C:\Windows\DCC\SCE>"<filename>" --valsetuppwd=<password string>
```

Example of providing system password:

```
C:\Windows\DCC\SCE>"<filename>"--valsyspwd=<password string>
```

Apply operating system image

 **NOTE:** Before you begin this task, ensure that you have the required operating system image file (.wim file) under the **Operating System Images** tree in Configuration Manager.

To apply operating system image:

1. From the left-hand side of the **Task Sequence Editor**, under **Deploy Operating System**, click **Apply Operating System Image**.
2. Choose from the following options:

- Apply operating system from a captured image
 - Apply operating system from an original installation source
3. Click **Browse** and select the operating system image or package.
 4. Under **Select the location where you want to apply this operating system** select the **Destination** and **Drive Letter**.
 5. Click **OK**.

You have successfully applied an operating system image.

Apply driver packages

To apply driver packages:

1. From the left side of the **Task Sequence Editor**, under **Deploy Operating System**, click **Apply Driver Package**.
2. **Browse** and select the **Dell Client Driver Packages**. The list of driver packages available in the **Dell Deployment Pack** is displayed.
3. Select a package for your Dell client system and click **Apply**.

You have successfully added drivers.

Computer Association

A computer association organizes the migration of user state and settings from a reference client system to a client destination system. The reference client system is an existing client system that is managed by Configuration Manager. This system contains state and settings of the system that is migrated to the specified destination client system.

The **Computer Association** node displays a list of the computer associations that have been created. It also displays specific actions that can be run for that computer association when you select a computer association from the **Computer Association** results pane.

1. On the Configuration Manager console, click **Assets and Compliance** and expand **Overview**.
2. Right-click **Devices** > **Import Computer Information**.
The **Import Computer Information Wizard** is displayed.
3. The **Select Source** window displays the following options:
 - Import computers using a file.
 - Import single computer.
4. Select [Import computers using a file](#) or [Import single computer](#) based on the requirement.

Importing System Information

Use the **Import Computer Information** when you right-click on **Computer Association** option to import new client system information into the ConfigMgr database. This allows you to deploy an operating system to a new client system.


Import Computers Using A File

To import computers using a database file containing the details of the computers in your network:

1. On the **Select Source** window, select **Import single computer**. Click **Next**.
2. Click **Browse** to browse to the location of the database file and open it.
3. Click **Next**.
The **File Preview** lists the details of the systems in the database file.
4. Click **Next**.
5. From the list of systems displayed, select the systems you want to associate.
6. Click **Finish**.

Import Single Computer

To import computers using a file:

1. On the **Select Source** window, select **Import single computer**. Click **Next**.
2. Specify information relating to the computer you are importing in the following fields:
 - Computer name
 - MAC address (12 hex characters)
 - SMBIOS GUID (32 hex characters) - (optional)
3. Click **Next**.
 **NOTE:** Ensure that the computer name you enter starts with a letter. Otherwise, the deployment will fail.
4. The **Choose Target Collection** window opens. The following options are available:
 - Add new computers only to the All Systems collection
 - Add computers to the following location
5. To add the computer to the all systems collection:
 - a. On the **Choose Target Collection** window, select **Add new computers only to the All Systems** collection.
 - b. Click **Next**.
The **Summary** window with details of the imported system setting is displayed.
 - c. Click **Finish** to apply settings.
6. To add the computer to a specific location:
 - a. On the **Choose Target Collection** window, select the **Add computers to the following location** option.
 - b. Browse to the location of the computer collection you want to add.
 - c. Click **Next**.
The **Summary** window with details of the imported system setting is displayed.
 - d. Click **Finish** to apply settings.

All System Collection

To add the computer to the all systems collection

1. On the **Choose Target Collection window**, select **Add new computers only to the All Systems** collection.
2. Click **Next**.
The **Summary** window with details of the imported system setting is displayed.
3. Click **Finish** to apply settings.

Specific Location


To add the computer to a specific location:

1. On the **Choose Target Collection** window, select the **Add computers to the following location** option.
2. **Browse** to the location of the computer collection you want to add.
3. Click **Next**.
The **Summary** window with details of the imported system setting is displayed.
4. Click **Finish** to apply settings.

Advertising A Task Sequence

After saving the task sequence, assign it to the collection of systems by advertising it.

To advertise a task sequence:

1. Right-click on the task sequence and select **Deploy**.
The **Deploy Software Wizard** window is displayed.
2. Follow the steps in the wizard to advertise the task sequence. For more information on advertising a task sequence, see the Configuration manager *Online Help*.
 **NOTE:** In the New Advertisement Wizard, ensure that you select the **Make this task sequence available to boot media and Preboot Execution Environment (PXE)** option.

Best Practices For Advertising a Task Sequence

The following settings are recommendations for advertising a task sequence.

Always configure advertisements with the following settings when using PXE:

- General — Make this task sequence available to boot media and PXE
- General — Browse to select the collection of the target system
- Schedule — Mandatory assignment: “As soon as possible”
- Distribution Points — Access content directly from a distribution point when needed by the running task sequence
- Interaction — Show task sequence progress

Always configure Windows PE boot images with the following settings:

- Windows PE — Enable command support (testing only)

Deploying A Task Sequence

When the task sequence is ready, use any of the following methods to deploy the task sequence you have created:

- Deploy using a CD
- Deploy using a USB
- Deploy using PXE

For more information on how to deploy a task sequence using the above methods, see the Configuration Manager documentation at technet.microsoft.com.

Dell Command | Warranty

The Dell Command | Warranty can be installed as a stand-alone application or part of the Dell Command | Integration Suite for System Center on systems running Microsoft System Center 2012 Configuration Manager, System Center 2012 SP1 Configuration Manager, System Center 2012 R2 Configuration Manager, and Microsoft System Center Current Branch. Dell Command | Warranty helps you to retrieve the warranty information for a list of client systems stored in the Configuration Manager's database, or in a file. Client systems are specified by their Service Tags.

Topics:

- [Launching Dell Command | Warranty](#)
- [Configuring Dell Command | Warranty](#)
- [Retrieving warranty information](#)
- [Exporting Service-Tags From Configuration Manager To A CSV File](#)
- [Copying CSV Results To A Database](#)
- [Generating Reports](#)
- [Disabling Logging](#)

Launching Dell Command | Warranty


Launch Dell Command | Warranty using a command-line tool.

1. Open a command prompt.
2. Go to the folder in which you have placed the Dell Command | Warranty files.
For example, type: `cd C:\Program Files\Dell\Command . . .`
3. Type the name of the executable file.
For example, type: `DellWarranty-CLI.exe`

Configuring Dell Command | Warranty

Before you use Dell Command | Warranty, do the following:


1. Launch Dell Command | Warranty.
For more information, see **Launching Dell | Command Warranty**.
2. Enter `DellWarranty-CLI.exe /H` to display usage.

 **NOTE:** For Dell Command | Warranty to function you must provide an `/InputFile` or an `/InputCfgMgrConnectionString` parameter. See **CLI Options**.

Saving The Configuration To The Registry

To save the Dell Warranty configuration to the registry, enter the following command `DellWarranty-CLI.exe setup_config` in the Dell Warranty window. Enter all the configuration information required to set up Dell Warranty. For more information, see [Configuring Dell Warranty](#).

The configuration parameters are stored in the **HKEY_CURRENT_USER\Software\Dell\Warranty** registry location.

 **NOTE:** The password is stored in an encrypted form.


Saving The Configuration To A File

To save the Dell Warranty configuration to a file, enter the following command

```
DellWarranty-CLI.exe setup_config config_file=admin.cfg
```

(where `admin.cfg` is the name of the configuration file.)

Enter the configuration information required to set up the Dell Warranty. For more information, see [Configuring Dell Warranty](#).

 **NOTE:** The password is stored in an encrypted form.

Retrieving warranty information

1. If the system on which Dell Command | Warranty is installed has access to Configuration Manager and connects to the Internet (including through proxy):

a. Launch Dell Command | Warranty.

For more information, see **Launching Dell Command | Warranty**.

b. Configure Dell Command | Warranty.

For more information, see **Configuring Dell Command | Warranty**.

c. To retrieve the warranty information through the Configuration Manager database:

- Use the command: `DellWarranty-CLI.exe /ICS="Data Source=[host];Database=[Configuration Manager dbname];Integrated Security=true;"`


- Connection string to the Configuration Manager database:

"Data Source=[host];Database=[Configuration Manager dbname];Integrated Security=true;"

"Data Source=[host];Database=[Configuration Manager dbname];User id=[username];Password=[userpwd]"

See **CLI Options** for more information.

The warranty information of the Dell client systems is retrieved and saved as a .csv file in the Default :
[%ProgramData%\Dell\Warranty\[WarrantyOutput_[yyyyMMddhhmmss].csv folder.

 **NOTE:** The file is saved as `WarrantyInformation_YYYY_MM_DD.xml` (where **YYYY** is the year, **MM** is the month and **DD** is the day).

2. If the system on which Dell Command | Warranty is installed does not have access to Configuration Manager, but connects to the Internet (including through proxy):

a. Launch Dell Command | Warranty.

For more information, see **Launching Dell Command | Warranty**.


b. Create a .csv file containing the service tags.


c. To retrieve the warranty information for the service tags saved in the .csv file you created in the previous step:

- Enter the following command: `DellWarranty-CLI.exe /I=C:\FileName.csv`.

The warranty information of the Dell client systems is retrieved and saved as a .csv file in the Default :

[ProgramData\Dell\Warranty\[WarrantyOutput_[yyyyMMddhhmmss].csv folder. To override the default path, use the command-line option `/Ocs`. See **CLI Options**.

 **NOTE:** The file is saved as `WarrantyOutput_[yyyMMddhhmmss].csv` (where **yyyy** is the year, **MM** is the month, **dd** is the day, **hh** is the hour, **mm** is the minute, and **ss** is the second).

 **NOTE:** The default name can also be overwritten when you use the command-line option `/Ocs`. Also, if invalid tags are found in the request file, a `%ProgramData%\Dell\Warranty\[WarrantyerrorOutput_[yyyyMMddhhmmss].csv` file is created.

Exporting Service-Tags From Configuration Manager To A CSV File


In order to retrieve a list of Service Tags present in the Configuration Manager inventory and export them to a .csv file, you can use the `export_svc_tags` command.

To retrieve the warranty information through WMI:

- Using the configuration settings saved to the registry, enter the following command: `Dell.WarrantyInfo.exe export_svc_tags tags.csv`.
- Using the configuration settings saved to a file, enter the following command: `Dell.WarrantyInfo.exe export_svc_tags tags.csv config_file=<name of the file>`.

To retrieve the warranty information through Configuration Manager database:

- Using the configuration settings saved to the registry, enter the following command: `Dell.WarrantyInfo.exe export_svc_tags tags.csv internal_sccm_db`.
- Using the configuration settings saved to a file, enter the following command: `Dell.WarrantyInfo.exe export_svc_tags tags.csv internal_sccm_db config_file=<name of the file>`.

 **NOTE:** The `export_svc_tags` command generates a .csv file in the current directory.

Copying CSV Results To A Database

To copy the warranty information from a .CSV file to the Configuration Manager database use the `csv_to_db` command.

 **NOTE:** The connection strings specified in the configuration file or registry is used.

To copy the warranty information to the Configuration Manager:

- Using the configuration settings saved to the registry, enter the following command: `Dell.WarrantyInfo.exe csv_to_db <name of the .csv file>`.
- Using the configuration settings saved to a file, enter the following command: `Dell.WarrantyInfo.exe csv_to_db <name of the .csv file> config_file=<name of the file>`.

Generating Reports

There are three report templates stored in the same location where you have installed the Dell Warranty. `ActiveSystem.rdl`, `AllSystems.rdl`, and `SystemsWithWarranty.rdl`. These reports have the following placeholders for the database connection string:

`<!--PROVIDER-->`, `<!--CONNECTION_STRING-->`, and `<!--INTEGRATED_SECURITY-->`.

 **NOTE:** The templates are in .rdl (Report Definition Language) format. To view or edit the file on systems running Windows 2008 R2 server install **Microsoft Report Viewer**.

 **NOTE:** The SRS Templates generated by **Dell Warranty** are compatible with the Report Builder v2.0 or greater.

You can use the `generate_srs_templates` command to generate the report definition files using the report templates. The placeholders are substituted with the database connection string that you specify either in the registry or the configuration file. To run the report:

- Using the configuration settings saved to the registry, enter the following command: `Dell.WarrantyInfo.exe generate_srs_templates`.
- Using the configuration settings saved to a file, enter the following command: `Dell.WarrantyInfo.exe generate_srs_templates config_file=<name of the file>`.

You can view these reports using the reporting services of the Configuration Manager or using the Report Builder services. For more information, see [Reporting Services of the Configuration Manager](#).

Reporting Services Of The Configuration Manager

To use the reporting services of Configuration Manager:

1. Install SQL Server Reporting Services (SSRS).
For more information, see the Configuration Manager documentation at technet.microsoft.com.
2. Navigate to reports using `http://<servername>/reports`.
3. Import RDL Template provided with Dell Warranty. Provide a suitable name to the report.
For more information, see the Configuration Manager documentation at technet.microsoft.com.
4. After running Dell Warranty, the **DellWarrantyInformation** table is created in the Configuration Manager database.
5. Run the reports to generate Custom Reports provided by Dell.

Viewing Reports Using Report Builder

To view reports using report builder:

1. Download **SQL Server Report Builder version 2.0** or higher.
2. Open the report using this installed **Report Builder** and Run the report to view the data.

Installing SQL Server Reporting Services

1. On the Configuration Manager console, click **Administration**.
2. Expand **Overview > Site Configuration** and click **Sites**.
3. Right-click on the target **Site** and click **Add Site System Roles**.
4. Select **Specify a fully qualified domain name (FQDN) for this site system on the internet** option and enter the domain name under it.
5. Click **Next**.
6. Under **Available roles**, select the **Reporting services point** option and click **Next**.
7. Under **Folder name**, enter the reporting folder name and click **Next**.
8. On the **Summary** tab click **Next**.
The **Add Site System Roles Wizard Completed Successfully** screen is displayed.
9. Click **Close**.

Disabling Logging

By default, logs for Dell Warranty Information tool are generated under **%USERPROFILE%\AppData\Local\Dell\ClientIntegrationPack\log** folder. You can turn off the logging by setting the registry value **DisableLogging** to **1** under **HKEY_LOCAL_MACHINE\SOFTWARE Wow6432Node\Dell\ClientIntegrationPack\Warranty** for x64 systems and **HKEY_LOCAL_MACHINE\SOFTWARE\Dell\ClientIntegrationPack\Warranty** for x86 systems.

The Dell Command | Intel vPro Out Of Band Application

The Dell Command | Intel vPro Out of Band application provides an out-of-band management solution through a stand-alone application on the system running Dell Command | Integration Suite for System Center. The application allows you remotely to manage client systems regardless of the system power or operating state.

You can use the Dell Command | Intel vPro Out of Band application to perform the following tasks:

- **Remote Provisioning**—Configure your environment to allow you to easily perform remote AMT provisioning of client systems.
- **USB Provisioning**—Provision and setup Intel AMT enabled client systems.
- **Indications**—Remotely monitor, diagnose, and manage clients using Distributed Management Task Force (DMTF) filters.
- **Client Configuration**—Configure client system settings:
 - **Power Profile**—Configure and apply the preferred power policy.
 - **Boot Order**—Configure or change the boot order.
 - **BIOS Settings**—Configure and update the BIOS settings
 - **BIOS Passwords**—Clear, set, or specify the length of your **Administrator** and **System** passwords.
- **Operations**—Perform remote operations:
 - **KVM Connect**—Set up and run KVM sessions.
 - **Power Management**—Remotely manage power settings.
 - **Wipe Client Data**—Remotely format client hard drives.
- **Reports**—Generate reports for out-of-band manageability, provisioned systems, battery health, and hardware inventory.
- **Task Queue**—Monitor task progress and details.

Topics:

- [Software prerequisites](#)
- [Launching the Dell Command | Intel vPro Out of Band application](#)
- [Database And Password Configuration](#)
- [USB provisioning](#)
- [Client configuration](#)
- [Operations](#)
- [Generating Reports](#)
- [Application Preferences](#)
- [Task Queue](#)

Software prerequisites

Before running the Dell Command | Intel vPro Out of Band application:

- For In-Band shutdown to work correctly, the system running Dell Command | Integration Suite for System Center must have Windows PowerShell version 2.0 or greater installed, and WinRM configured. For more information about configuring WinRM, see [Configuring WinRM on Client Systems](#).

Launching the Dell Command | Intel vPro Out of Band application

The Dell Command | Intel vPro Out of Band application is installed in following location by default: `C:\Program Files (x86)\Dell\CommandIntegrationSuite\DellCommandvProOutOfBand.exe`.

Database And Password Configuration

The **Account Setup** window is displayed the first time you launch the Dell Command | Intel vPro Out of Band application. From here you can configure the following settings:

1. Retrieve and select an available **Configuration Manager SQL Server** option from drop-down list.
2. Select the type of SQL Server Security (Integrated or Username / Password) you want to set.
3. Retrieve and select an available **Configuration Manager Database** from the drop-down list.
4. Configure the **Operating System User Account** settings.
5. Configure the **AMT Administrative User Account** settings.

USB provisioning


Before Intel Active Management Technology-based client systems are managed out-of-band, provision the client systems for AMT.

Provisioning using a USB device

The client systems on the network have to procure a digital provisioning certificate before deploying Intel vPro AMT management application using remote configuration.

To export your certificate hash to the client systems using a USB storage device:

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click the **USB Provisioning** tab.
3. Enter your Management Engine (ME) password in the **Current Password** section, and then enter a **New Password** for AMT and confirm it.

 **NOTE:** The AMT password must contain a minimum of eight characters that are made up of uppercase, lowercase, numbers, and nonalphanumeric characters excluding **:**, **_**, and **"**.

4. Under **USB Key** click **Browse** and hover over the location of the USB storage device.
5. Select the file format for your USB storage device.
6. Select the **Enable remote configuration of user consent policy** option if you want to allow the administrator to override the client system's user consent policy.
7. Select the type of **Hash Algorithm** required for your out-of-band management environment.
8. Select the **OOB Provisioning (enabling will start hello packets immediately)** option if you want to send hello packets immediately.
9. Select the **Consumable Records** option to record the systems that are provisioned.
10. Browse and select the **Certificate File** you want to apply on your client systems for AMT provisioning.
11. Enter a name for the certificate file.
12. Click **Create Key**.
The USB provision key is created.
13. Click **Export...**
The USB provisioning key is exported to the USB storage device.

Client configuration

Allows you to configure the Power Profile, Boot Order, BIOS Settings, and BIOS Passwords on the target client systems.

Configuring power profile

Define the various power profiles on the client systems managed by Dell Command | Intel vPro Out of Band. You can control functions like Wake-up On Lan (WOL), ON, OFF after power loss, and so on, in the different power states (S0 to S5) of your client system.

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click **Client Configuration > Power Profile**.
3. Select the power policy for your Desktop and/or Mobile computers. Click **Next**.
The **Select Clients** tab is displayed.
4. Search for client systems to which you want to apply the power packages.
5. From the **Available clients** list select the client systems you want to manage and click the **>** button to move your selected systems or press the **>>** button to move all the discovered Dell clients into the **Selected clients** list.
6. Click **Next**.
The **Schedule Task** tab is displayed.
7. You can either choose to apply the changes immediately or schedule it to run later.
Depending on your schedule, select one of the following options:
 - **Run now** — the changes to the Power Profiles are immediately applied.
 - **Run At** — the changes to the Power Profiles are queued in the **Task Queue**.

i **NOTE:** You can launch the **Task Queue** to view the list of completed and pending tasks.

i **NOTE:** If your client systems are not connected to the network, run the task again after the client system is coming back online..
8. Provide a name to the task you are running and click **Next**.
The **Summary** tab is displayed.
9. Click **Finish**.
The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or will be queued.


Configuring the Boot Order

Change or configure the boot order on the targeted client-systems. On client systems with Legacy Boot Devices, the Boot Order feature allows you to make permanent or one-time boot sequence changes.

i **NOTE:** This **Boot Order** feature is not supported in **UEFI** boot mode.

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click **Client Configuration > Boot Order**.
3. The table lists all the possible Boot devices. Change the boot order by:
 - Moving the boot devices up or down the order by clicking the **Up** or **Down** arrows at the bottom of the table.
 - Disabling boot devices by selecting or deselecting the check-box next to the Boot Device.
4. Select one of the configuration options:
 - **One-time boot configuration** — If you want the boot-order to be changed for only one reboot cycle.
i **NOTE:** The boot-order is permanently changed if this option is not selected.
 - **Continue on error** — If you want the task execution to continue to subsequent clients systems when an error occurs, select the **Continue on error** option. Otherwise, task execution stops on the first client system where an error is encountered.
 - **Reboot client after applying changes** — If you want to reboot the client systems after applying changes.
5. Click **Next**.
The **Select Clients** tab is opened.
6. Search for client systems to which you want to apply the Boot Order changes to.
7. From the **Available clients** list select the client systems you want to manage and click the **>** button to move your selected systems or press the **>>** button to move all the discovered Dell clients into the **Selected clients** list.
8. Click **Next**.
The **Schedule Task** tab is displayed.
9. You can either choose to apply the changes immediately or schedule it to run later.
Depending on your schedule, select one of the following options:
 - **Run now** — the changes to the Boot Order is immediately applied and displays the **Running** status in the **Task Queue**.
 - **Run At** — the changes to the Boot Order is queued in the **Task Queue**.


i **NOTE:** You can launch the **Task Queue** to view the list of completed and pending tasks.

 **NOTE:** If your client systems are not connected to the network, run the task again.


10. Provide a name to the task you are running and click **Next**.
The **Summary** tab is displayed.
11. Click **Finish**.
The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or will be queued.


Configuring BIOS settings

This feature allows you to remotely configure, change, and reset the BIOS settings on one or several client systems.

 **NOTE:** The supported BIOS configuration options vary for each client system.



1. Launch the Intel vPro OOB Management Extensions.
2. Click **Client Configuration > BIOS Settings**.
3. Make the changes you want to the BIOS settings for your client-systems and select the check box under **Apply**.
4. If you want the Task execution to continue to subsequent clients systems when an error occurs, select the **Continue on error** option. Otherwise, Task execution stops on the first client system where an error is encountered.
5. Select the **Continue on unavailable BIOS Setting** option to continue with the BIOS changes if a particular BIOS feature is not available on the client system.
6. Select the **Reboot after applying changes** option if you want to reboot after applying changes.
7. Click **Next**.
The **Select Clients** tab is displayed.
8. Search for client systems to which you want to apply the Boot Order changes to.
9. From the **Available clients** list select the client systems you want to manage and click the **>** button to move your selected systems or press the **>>** button to move all the discovered Dell clients into the **Selected clients** list.
10. Click **Next**.
The **Schedule Task** tab is displayed.
11. You can either choose to apply the changes immediately or schedule it to run later.
Depending on the schedule, select one of the following options:
 - **Run now** — the BIOS setting configuration is immediately applied and displays the **Running** status in the **Task Queue**.
 - **Run At** — the BIOS setting configuration is queued in the **Task Queue**.

 **NOTE:** You can launch the **Task Queue** to view the list of completed and pending tasks.

 **NOTE:** If the Dell client systems are not connected to the network, run the task again.
12. Provide a name to the task and click **Next**.
The **Summary** tab is displayed.
13. Click **Finish**.
The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or will be queued.

Setting BIOS passwords

This feature allows you to manage your BIOS password.

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click **Client Configuration > Passwords**.
The Password tab is displayed.
3. Select one of the following options:
 - **Clear**—Clears the administration or system password.
 **NOTE:** It is recommended to clear the system password before the administration password.
 - **Set**—Enter and confirm the administration or system password.
 **NOTE:** Client systems have to reboot after setting the administration or system passwords.
 - **Configure**—Enables or disables the strong password feature or allows you to customize various password rules.

4. If you want the Task execution to continue to subsequent clients systems when an error occurs, select the **Continue on error** option. Otherwise, Task execution stops on the first client system where an error is encountered..
5. If you want to reboot after applying changes select the **Reboot after applying changes** option.
6. Click **Next**.
The **Select Clients** tab is displayed.
7. Search for client systems to which you want to apply the Boot Order changes to.
8. From the **Available clients** list, select the client systems that you want to manage and click the **>** button to move your selected systems or press the **>>** button to move all the discovered Dell clients into the **Selected clients** list.
9. Click **Next**.
The **Schedule Task** tab is displayed.
10. You can either choose to apply the password changes immediately or schedule it to run later.
Depending on the schedule, select one of the following options:
 - **Run now** — the BIOS password configuration is immediately applied and displays the **Running** status in the **Task Queue**.
i **NOTE:** If the Dell client systems are not connected to the network, run the task again.
 - **Run At** — the BIOS password configuration is queued in the **Task Queue**.
i **NOTE:** You can launch the **Task Queue** to view the list of completed and pending tasks.
11. Provide a brief description of the changes you are applying and click **Next**.
The **Summary** tab is displayed.
12. Click **Finish**.
The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or will be queued.

Operations

This feature allows you to set up KVM sessions, turn off, turn on, and reboot Dell client systems, and remote wipe the hard drives of Dell client systems.

Performing power management

This feature allows you to gracefully shut down or restart your client system, through the Windows operating system enabled by the AMT operation.

i **NOTE:** Windows firewall can block graceful power request by Dell Command | Integration Suite for System Center.

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click **Operations > Power Management**.
The **Power Management** tab is displayed.
3. Select the power control option you want to run on the client-systems from the drop-down list.
4. Click **Next**.
The **Select Clients** tab is displayed.
5. Search for client system you want to apply the Power Management changes.
6. From the **Available clients** list select the client systems you want to manage and click the **>** button to move your selected systems or press the **>>** button to move all the discovered Dell clients into the **Selected clients** list.
7. Click **Next**.
The **Schedule Task** tab is displayed.
8. You can either choose to apply the task immediately or schedule it to run later.
Depending on your schedule, select one of the following options:
 - **Run now** — the power management changes are immediately applied and displays the **Running** status in the **Task Queue**.
i **NOTE:** If the Dell client systems are not connected to the network, run the task again.
 - **Run At** — the power management changes are queued in the **Task Queue**.
i **NOTE:** You can launch the **Task Queue** to view the list of completed and pending tasks.

9. Provide a brief description of the changes you are applying and click **Next**.
The **Summary** tab is displayed.
10. Click **Finish**.

Establishing KVM Sessions

This feature allows you to remotely view the primary or secondary (if present) monitors of your client systems with an Intel Graphics card. For more information, see your client systems documentation on dell.com/support/manuals.

NOTE: Before a remote KVM session can be established, enable KVM through the Intel Management Engine BIOS Extension (MEBx) interface.

NOTE: After a period of inactivity if the KVM session times out, re-establish the KVM session. To specify the time-out period, see KVM.

To establish KVM sessions with remote client systems with Intel graphics card:

1. Launch the Dell Command | Intel vPro Out of Band application.
2. Click **Operations > KVM Connect**.
The **KVM Connect** tab is displayed.
3. Search for the list of client systems on which you want to establish KVM sessions.
4. Select a client system on which you want to start the KVM session and click **Connect**.

Generating Reports

This feature allows you to generate and view detailed reports on Out-Of-Band Manageability, Provisioning, Battery Health of laptop client-systems, and Hardware Inventory reports for single or multiple-client systems. These reports can be exported as a spreadsheet.

1. Launch the Dell Command | Intel vPro Out of Band application.
2. On the **Home** screen click **Reports**.
3. On the **Welcome** screen you can generate the following reports:
 - **Out Of Band Manageability** — you can see the AMT Management Engine configuration for client systems.
 - **Provisioning** — view the provisioning status of all the client systems in the network.
 - **Battery Health** — view the battery health of all the AMT enabled client systems on the network.
 - **Hardware Inventory** — collect the inventory information of all the client systems on the network.
4. After selecting the type of report you want, you can perform one of the following actions:
 - **Schedule** — for more information, see **Scheduling Reports**.
 - **Retrieve** — for more information, see **Retrieving Reports**.

Scheduling Reports

Generate reports from all the active client systems on the network.

To schedule a report:


1. Click **Schedule**.
The **Select Clients** tab is displayed.
2. Search for the list of client systems you want to view the reports on.
3. Select the client systems you want to view the reports and click **Add**.
4. Click **Next**.
5. The **Schedule Report** tab is displayed.
6. You can either choose to apply the Task immediately or schedule it to run at a later time.
7. Provide a brief description of the Task you are applying and click **Finish**.


NOTE: Schedule reports creates a task that populates data about client systems.

Retrieving Reports

View existing reports. To retrieve a report:

1. Click **Retrieve**.
The **Select Clients** tab is displayed.
2. Search for the list of client systems you want to view the reports on.
3. Select the client systems you want to view the reports. Click **Add**.
4. Click **Next**.
5. The **Retrieve Report** tab is displayed.
6. **Print**, **Copy**, or **Export** the report.

 **NOTE:** The report is exported as a Microsoft Excel (**.xlsx**) file.

 **NOTE:** Retrieving reports requests a report for whatever data has been collected by the scheduled reports.

Application Preferences

On this screen you can configure and set your preferences for different components of the application like:

- Data Base(DB) and Passwords
- KVM Setup
- Logging
- Task Queue


DB and Passwords


You can configure where the task requests, and configuration data are stored.

1. Launch the Dell Intel vPro AMT Plugin.
For more information, see [Launching The Dell Intel vPro AMT Plugin](#).
2. On the **Home** screen, click **Preferences**.
3. On the **Welcome** screen, click **DB & Passwords**.
The **DB & Passwords** tab is displayed.
4. You can configure the following settings:
 - Retrieve and select the available **SCCM SQL Server** option from drop-down list.
 - Select the type of SQL Server Security (Integrated or Username / Password) you want to set.
 - Configure your **Windows Account** settings.
 - Configure your **AMT ME Account** settings.
5. Click **Save** and **Finish**.

KVM Setup

This feature allows you to configure and setup your Keyboard, Video, and Monitor (KVM) sessions.

 **NOTE:** Before a remote KVM session is established, enable KVM through the Intel Management Engine BIOS Extension (MEBx) interface.

 **NOTE:** If the client system goes to sleep, hibernate state, or shutdown, the current KVM session has to be closed and re-started.

1. Launch the Dell Intel vPro AMT Plugin.
For more information, see [Launching The Dell Intel vPro AMT Plugin](#).
2. On the DCIP's **Home** screen, click **Client Configuration**.
3. On the **Client Configuration** window, click **KVM Setup**.
The **KVM Setup** tab is displayed.

4. Select the **Default Video Screen**, that is the screen you want to connect at the start of the KVM session.
5. If you want the user to provide consent, select the **User Consent** check box.
6. Set the time-out through the **User Consent Timeout**.
7. Set the time frame for the KVM session to time-out after a period of inactivity using the **Session Timeout**.
8. Click **Finish**.



Logging

Set your preferences for the type of logs you want to capture by Dell Intel vPro AMT Plugin. The log files are located in the installation folder.

1. Launch the Dell Intel vPro AMT Plugin.
For more information, see [Launching The Dell Intel vPro AMT Plugin](#).
2. On the Dell AMT vPro Plugin **Home** screen, click **Application Preferences**.
3. On the **Welcome** screen, click **Logging**.
The **Logging** screen is displayed.
4. Select one of the following type of Logs from the Log Level drop-down menu:
 - **None** — no logs are captured.
 - **Normal** — typical logging for client systems operating normally. This is the recommended setting.
 - **Debug** — detailed logging for troubleshooting unexpected issues.
5. Click **Browse** to choose the location where your log files are created.
6. To view existing logs, click **Open Containing Folder**.
7. Click **Save** and **Finish**

Task Queue Setup

This feature allows you to limit the number of task requests saved and displayed in the window. **Task Queue**

1. Launch the AMT plug-in. For more information, see [Launching the AMT Plug-in](#).
2. On the DCIP's **Home** screen, click **Preferences**.
3. On the **Welcome** screen, click **Task Queue**.
The **Task Queue** tab is displayed.
4. Set the **Task History Limit** to the number of tasks you wish to retain in the database (1-500).
 **NOTE:** The older completed tasks is automatically deleted from the database as new tasks are created.
5. To have your **Task Queue** automatically refresh every 15 seconds, select the **Refresh the task list automatically** check box.
 **NOTE:** To reduce database activity, deselect the **Refresh the task list automatically** box and click **Refresh** on the **Task Queue** to update the Task list.

Task Queue

The **Task Queue** window allows you to review scheduled and completed tasks. You can also click:

- **Refresh**—to refresh the task queue.
- **View**—to get detailed information about an individual task in the task queue. Click **Export**—to export the information to an excel file.
- **Re-Run**—to rerun an existing task which has failed on client systems while skipping those client systems on which the task has run successfully. If a Task was completed without any errors, then **Re-Run**—restarts all client systems in the Task.
- **Retrieve**—runs the Retrieve (instead of the Schedule) path of a report task.
- **Edit**—edit tasks that are pending (waiting to be run). Tasks are placed on **Hold** while editing is underway.
- **Duplicate**—duplicate any pending, completed, and canceled tasks.
- **Cancel**—cancel tasks that are not yet **Completed**.

Configuring WinRM on client systems

If WinRM has not been configured on any client systems with which you are working that were not provisioned by the Remote Provisioning feature, do the following command at an administrative command prompt:

i **NOTE:** Configure the client system's firewall to accept WinRM commands.

i **NOTE:** To retrieve the current WinRM settings, use the following command: `winrm get winrm/config`. If you are using a Group Policy Object-controlled setting, the command displays this information.

1. Enter `winrm quickconfig`
2. Press `y` to continue if prompted **Do you want to configure winrm?**
3. `winrm set winrm/config/client @{AllowUnencrypted="false"}`
4. `winrm set winrm/config/client/auth @{Digest="true"}`
5. `winrm set winrm/config/client @{TrustedHosts="MANAGEMENT_SERVER_IP_ADDRESS"}`

The WinRM is configured.

i **NOTE:** When you provision a client system by Remote Provisioning, WinRm is automatically configured on the client system.

Troubleshooting

This section contains troubleshooting information for the Dell Command | Integration Suite for System Center.

Topics:

- [Authenticode signature](#)
- [Windows XP Installation Fails](#)
- [KVM over wireless](#)
- [Hardware inventory report memory speed is reported as zero](#)
- [Max password length change](#)
- [KVM power control to boot to OS in S3](#)
- [Windows XP\(x86\) OS Deployment Hangs During Installation](#)
- [Apply operating system task sequence action has a red bang](#)

Authenticode signature

If authenticode signature takes longer than usual to start because **.Net** is searching for the signature, follow the steps that are mentioned in support.microsoft.com/kb/936707/.

Windows XP Installation Fails

Installation of Windows XP operating system fails if the mass storage driver to be installed is not selected in the task Sequence. To do this in the **Apply Driver Packages** step ensure that you select the **Mass Storage Driver** that is required for the operating system installation.

KVM over wireless

Anytime the user selects **Tools Link Preference > OS owns Wireless**, control of the wireless link is transferred from the Intel Management Engine to the operating system. (ME gains control of the wireless link anytime a shutdown or reboot command is selected from **Tools Power Control**.)

Whenever ME is given control of the wireless link (Link Preference), a timeout value is supplied that indicates how long ME is to maintain control of the wireless link, after which, control is given back to the operating system. For example, a user selects Reboot To OS to reboot the client operating system.

In order to maintain the KVM link, ME is first given control of the wireless link. The timeout is set by default to 10 minutes to provide ample time for the system to complete the reboot process. ME will maintain control even after the operating system has rebooted if the reboot completes in under 10 minutes. To give control back to the operating system immediately, the user must select **Tools > Link Preference > OS owns Wireless**. In that case, the KVM connection is lost during the transfer process. To reestablish the connection, the user must select **Connection > Start**. Also note that when control of the wireless link is automatically reverted as a result of the Link Preference Timeout expiring, there is no loss of connectivity. There are individual timeout values for each shutdown and reboot operation (defined in KVM View app.config settings) that can be configured externally:

- LPTimeoutRebootToOS
- LPTimeoutRebootToBIOS
- LPTimeoutRebootToDiagnostics
- LPTimeoutRebootWithIDER
- LPTimeoutShutdown

For more information, see http://software.intel.com/sites/manageability/AMT_Implementation_and_Reference_Guide/DOCS/Implementation%20and%20Reference%20Guide/default.htm.

Hardware inventory report memory speed is reported as zero

This is a DMTF issue where memory speed is defined in seconds. Configuration Manager Resource Explorer today reports this as 0.

Max password length change

Some system BIOS does not support reducing the Maximum password length down from 32.

KVM power control to boot to OS in S3

If after a KVM connection is established, the AMT client enters power state S3 or S4, the KVM connection is lost within 30 seconds of entering the sleep state. (This issue occurs in both wired and wireless environments.) In such a case, the administrator must restart the connection (**Connection**→**Start**), before issuing a reboot command (operating system, BIOS, Diagnostics, IDE-R).

Windows XP(x86) OS Deployment Hangs During Installation

Microsoft Windows XP(x86) operating system deployment hangs while installing drivers that use Kernel Mode Driver Framework (KMDF) version 1.9, such as, Accelerometer device from ST Micro. To resolve this issue, follow the steps mentioned in support.microsoft.com/kb/2494168/.

Apply operating system task sequence action has a red bang

When creating a Task Sequence using the Bare Metal Client Deployment Template the **Apply Operating System** Task Sequence action has a Red Bang. To resolve this:

1. In the Task Sequence editor, click **Apply Operating System Image**.
2. Select an operating system image by:
 - Selecting **Apply operating system from a capture image** option.
 - Selecting **Apply operating system from an original installation source** option.
3. Click **Browse**.
4. Browse and select the Operating System Image and click **OK**.
5. Clear the **Use an unattended or Sysprep answer file for a custom installation** option.
6. Click the **Options** tab.
7. Select **Disable this step** option.
8. Click **Apply**.
9. Click the **Options** tab.
10. Clear the **Disable this step** option.
11. Click **Apply**.

Related reference

In addition to this guide, there are other product guides you should have for reference. You can find the following guides on the Dell Support website at support.dell.com/manuals.

- The *Dell Command | Configure User's Guide* describes the installation and use of the **Dell Command | Configure** to configure various BIOS features for Dell business client platforms.
- The *Dell Command | Monitor User's Guide* describes the installation and the use of the **Dell Command | Monitor** software.
- The *Hardware Service Manual* provides information about your system, installing the system components and troubleshooting your system.

For more information on Microsoft System Center Configuration Manager (Configuration Manager), its installation, or features and functionalities. See the Microsoft TechNet site at technet.microsoft.com for details on Configuration Manager.


Topics:

- [Obtaining technical support](#)
- [Contacting Dell](#)

Obtaining technical support

If at any time you do not understand a procedure in this guide, or if your product does not perform as expected, there are different types of help available. For more information, see **Getting Help** in your system's *Hardware Owner's Manual*.

Contacting Dell

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

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

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