Dell Command | Integration Suite for System Center

Version 6.0

User's Guide



Notes, cautions, and warnings

(i) 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.

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

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Contents

Chapter 1: Introduction	5	
What's new in this release	5	
Key features and functionalities	5	
Supported System Center Configuration Manager versions	6	
Supported client operating systems	6	
Supported operating systems on managed client systems through AMT	6	
Supported server operating systems	7	
Chapter 2: Install, uninstall, and upgrade Dell Command Integration Suite for Microsof System Center		
Prerequisites to install Dell Command Integration Suite for System Center		
Configuring a network access account		
Installing Dell Command Integration Suite for System Center		
Changing or repairing program options in the installer		
Upgrading Dell Command Integration Suite for System Center		
Uninstalling Dell Command Integration Suite for System Center		
Chapter 3: Using Dell Command Integration Suite for System Center	11	
Managing and updating distribution points		
Creating a Dell WinPE boot image		
Creating a Dell client driver package		
Importing Dell Command Configure SCE packages		
Importing Dell Command Monitor		
Creating a task sequence	14	
Creating a task sequence using the Dell Client Deployment Template		
Configuring task sequence actions		
Configuring the system BIOS		
Applying SCE on the target system	16	
Creating applications using Dell Command Software Gallery	17	
Import and stage system management applications	17	
Synchronize Dell Command system management applications with the Dell catalog	18	
Chapter 4: The Dell Command Intel vPro Out Of Band Application	19	
Software prerequisites	19	
Configuring WinRM on client systems	20	
Launching the Dell Command Intel vPro Out of Band application	20	
Account setup	20	
Client discovery	20	
Settings	21	
Account setup	21	
Indications	21	
KVM	22	
Task queue	22	
Logging	22	

Remote provisioning	23	
Prerequisites for remote provisioning using Intel SCS	23	
Remote provisioning licensing		
Remote provisioning certificate setup		
Configuring the remote provisioning feature	24	
Configuring the Intel Endpoint Management Assistant	24	
Upgrading Intel Setup and Configuration Software after remote provisioning is enabled	25	
Preparing Intel vPro client systems for remote provisioning	25	
Provisioning remote client systems	25	
USB provisioning	26	
Provisioning using a USB device	26	
Indications	26	
Recommended and optional filters	27	
Policies	27	
Configure subscriptions	28	
Subscription status	30	
Events	31	
Client configuration	32	
Configuring power profile	32	
Configuring the Boot Order		
		Setting BIOS passwords Operations
Establishing KVM sessions	35	
Performing power management	35	
Wipe client data	35	
Generating reports	37	
Scheduling reports	37	
Retrieving reports	37	
Task Queue	38	
Chapter 5: Troubleshooting	39	
Chapter 6: Related reference	41	
Obtaining technical support		
Contacting Dell	41	

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:

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- What's new in this release
- Key features and functionalities
- Supported System Center Configuration Manager versions
- Supported client operating systems
- Supported operating systems on managed client systems through AMT
- Supported server operating systems

What's new in this release

Description

- Supports the Intel Endpoint Management Assistant (EMA) provisioned systems.
 - NOTE: Intel 12th-generation processor and later must be certified with Intel EMA for out of band provisioning and manageability.

Key features and functionalities

Feature	Description
Remote Provisioning	Remotely perform AMT provisioning of Intel vPro-enabled clients.
Configuring Windows Pre- Installation (WinPE) environment	Configure and push the customized operating system image on the client system. For more information about 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 about creating Dell client driver packages, see Creating a Dell 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 about 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 stand-alone 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 systems 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.

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 System Center Configuration Manager versions

Dell Command | Integration Suite for System Center supports the following versions of Configuration Manager:

- Microsoft System Center 2012 Configuration Manager
- Microsoft System Center 2012 SP1 Configuration Manager
- Microsoft System Center 2012 R2 Configuration Manager
- Microsoft System Center Current Branch Configuration Manager

NOTE: Dell Command | Integration Suite for System Center versions 4.0 and greater are not backward compatible with older versions of Microsoft System Center Configuration Manager. Dell Technologies recommends that you download and use Dell Client Integration Pack 3.1 (from dell.com/download) with Configuration Manager 2007.

Supported client operating systems

- Windows 11 64-bit Home
- Windows 11 64-bit Professional
- Windows 10 32-bit
- Windows 10 64-bit
- Windows 10 32-bit Professional
- Windows 10 64-bit Professional
- Windows 10 32-bit Enterprise
- Windows 10 64-bit Enterprise
- Windows 8.1 32-bit
- Windows 8.1 64-bit
- Windows 8.1 32-bit Professional
- Windows 8.1 64-bit Professional
- Windows 8.1 32-bit Enterprise
- Windows 8.1 64-bit Enterprise
- Windows 8 32-bit
- Windows 8 64-bit
- Windows 8 32-bit Professional
- Windows 8 64-bit Professional
- Windows 7 32-bit Professional
- Windows 7 64-bit Professional
- Windows 7 32-bit Ultimate
- Windows 7 64-bit Ultimate

Supported operating systems on managed client systems through AMT

- Windows 10
- Windows 8.x
- Windows 7

Supported server operating systems

- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012

Install, uninstall, and upgrade Dell Command | Integration Suite for Microsoft System Center

Manage install, uninstall, and upgrade procedures for Dell Command | Integration Suite for Microsoft System Center.

Before conducting any of the procedures described here, review the list of Supported client operating systems.

Topics:

- Prerequisites to install Dell Command | Integration Suite for System Center
- · Configuring a network access account
- Installing Dell Command | Integration Suite for System Center
- · Changing or repairing program options in the installer
- Upgrading Dell Command | Integration Suite for System Center
- Uninstalling Dell Command | Integration Suite for System Center

Prerequisites to install Dell Command | Integration Suite for System Center

This section lists the prerequisites to install Dell Command | Integration Suite for System Center:

- Install Configuration Manager 2012, Configuration Manager 2012 SP1, Configuration Manager 2012 R2, or Configuration Manager Current Branch on the system where you install Dell Command | Integration Suite for System Center. For details on how to download and install Configuration Manager, see docs.microsoft.com.
- Ensure that the Windows PowerShell is installed and configured on the system running Dell Command | Integration Suite for System Center.
- Ensure that .NET version 4.6.1 or higher is installed on the system where you install Dell Command | Integration Suite for System Center even if you are only installing the **Dell Warranty** portion of the software.
- To run the Configuration Manager task sequences on your client system, configure the **Network Access Account**. For more information, see Configuring a network access account.
- The Configuration Manager Plugin Extensions and Intel vPro OOB Management Extensions components of Dell Command | Integration Suite for System Center are supported only on systems running Configuration Manager console.
- You must have both administrative rights on the client systems on the network and one of the following types of rights to Configuration Manager:
 - Full Administrator
 - o Application Administrator
 - Application Author
 - o Operating System Deployment Manager
 - Operations Administrator
- NOTE: Remote provisioning of systems may fail on devices with 11th Generation Intel processors when you are using the Intel Setup and Configuration Software version 12.2.0.139 or 12.2.0.150. To provision devices with 11th Generation Intel processor, use the Intel Setup and Configuration Software version 12.2.0.152.
- NOTE: The minimum version of Intel Setup and Configuration Software that you can specify during remote provisioning of systems or the upgrade process is changed from version 12.1 to 12.2.
- NOTE: Intel Setup and Configuration Software is not available for download. Contact the Intel support team to get the Intel Setup and Configuration Software.

Configuring a network access account

The network access account is required when Configuration Manager clients from workgroups or nontrusted domains require access to resources in the site server's domain.

To configure the network access account:

- 1. Launch the Configuration Manager console.
- 2. In the Configuration Manager console, click Administration.
- 3. Expand Overview > Site Configuration, and click Sites.
- 4. Right-click the site that you want to configure, and then select **Configure Site Components** > **Software Distribution.**The **Software Distribution Component Properties** screen is displayed.
- 5. Click the Network Access Account tab.
- 6. Select the Specify the account that accesses network locations option, and then click Set.
- 7. Make a selection from the drop-down menu:
 - Existing Account—Use an existing account
 - a. Select your user account.
 - b. Click OK.

Or

- New Account—Add a new account
- a. Enter administrator credentials for accessing Configuration Manager from your client systems.
- b. Click OK

The username is displayed in the **Account** field.

8. Click OK.

Installing Dell Command | Integration Suite for System Center

Before you proceed, ensure that you are logged in with an account that has administrator privileges on the system where you want to install Dell Command | Integration Suite for System Center. On a system without Configuration Manager, only **Dell Command | Warranty** can be installed.

The Dell Command | Integration Suite for System Center installer offers several installation options:

- Complete Installation—All three tools are installed, Dell Command | Integration Suite for System Center, Dell Command |
 Intel vPro Out of Band, and Dell Command | Warranty.
- Custom Installation
 - o Only Dell Command | Integration Suite for System Center is installed.
 - o Both Dell Command | Integration Suite for System Center and Dell Command | Intel vPro Out of Band are installed.
 - o Both Dell Command | Integration Suite for System Center and Dell Command | Warranty are installed.
 - o Only Dell Command | Warranty is installed.
- NOTE: Dell Command | Intel vPro Out of Band cannot be installed without also installing or having previously installed Dell Command | Integration Suite for System Center.
- 1. Go to dell.com/downloads.
- 2. Download and run the installer for Dell Command | Integration Suite for System Center.
- 3. Follow the installer instructions, and select Complete Installation or Custom Installation based on your requirements.
 To prevent a specific feature from being installed, click the drop-down box next to the feature, and select This feature will not be available.

Changing or repairing program options in the installer

The Modify or Change option on the Dell Command | Integration Suite for System Center installer modifies the program features that are installed. This option enables you to perform the following actions:

Install a feature that you did not install earlier.

• Remove a feature that you installed earlier.

The repair option in the installer allows you to repair any installation errors that may have occurred during installation.

- 1. Open Control Panel and click Programs and Features, and then click the Uninstall tab.
- 2. Click **Dell Command | Integration Suite for System Center**, and then follow the uninstaller instructions to uninstall, change, or repair your installation.
 - NOTE: To use the Dell console extensions in the Microsoft System Center Configuration Manager version 2103 or higher, you must disable hierarchy approved console extensions setting. To enable or disable hierarchy approved console extensions, see **Enable or disable hierarchy approved console extensions** at docs.microsoft.com.

Upgrading Dell Command | Integration Suite for System Center

Run the latest Dell Command | Integration Suite for System Center installer to upgrade from previous versions of Dell Command | Integration Suite for System Center. For more information, see Installing Dell Command | Integration Suite for System Center.

Uninstalling Dell Command | Integration Suite for System Center

NOTE: If you have set up subscriptions using Dell Command | Intel Out Of Band Plug-in, uninstalling Dell Command | Integration Suite for System Center may leave clients subscribed and producing indications that use unnecessary bandwidth. Ensure that you have unsubscribed all clients prior to uninstalling Dell Command | Integration Suite for System Center. See Unsubscribing All Subscriptions in your User Guide.

To uninstall Dell Command | Integration Suite for System Center:

- 1. Close all running instances of Dell Command | Integration Suite for System Center and the Configuration Manager console.
- 2. Open Control Panel, click Programs and Features.
- 3. Right-click Dell Command | Integration Suite for System Center, and then click Uninstall.
- 4. To complete the uninstallation, follow the instructions on the screen.

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 Configure 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:

- Managing and updating distribution points
- Creating a Dell WinPE boot image
- Creating a Dell client driver package
- Importing Dell Command | Configure SCE packages
- Importing Dell Command | Monitor
- Creating a task sequence
- Configuring task sequence actions
- Creating applications using Dell Command | Software Gallery

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.
- 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 Dell WinPE boot image

The Dell Command | WinPE Driver Library Import feature allows you to create Dell Windows Preinstallation Environment (WinPE) boot images in two ways: using the streamlined, **Dell Update/Support site** import option to import up to five cab files at a time for automated injection into your WinPE boot image, or by using the **Local Driver Library** option to import the drivers in one locally stored cab file at a time.

- NOTE: You must use an account that has administrator privileges in order to create a Dell WinPE Boot Image. User accounts without administrator privileges encounter permission errors involving the SMS share and installation folder.
- NOTE: If you are using the Local Driver Library option, you must download the Dell Command | Deploy (WinPE) Driver Library file from dell.com/downloads before following the steps in this section. If you are using the Dell Update/Support

site option to insert driver libraries into a WinPE package, you must download the driver library file before the process described below.

- (i) NOTE: Ensure that Microsoft Windows Deployment Kit is installed before proceeding with this feature.
- 1. Launch the Configuration Manager console.
- 2. Click Software Library.
- 3. Expand Overview > Operating Systems.
- 4. Right-click Boot Images and click Dell Command | WinPE Driver Library Import.

The WinPE Driver Library Import Wizard opens.

- 5. Select a driver library source:
 - **Dell Update/Support site**—Select either the **Use current internet proxy settings** or the **Use custom proxy settings** option. If you choose the custom option, also enter a proxy server URL or IP address and a proxy port number. If you are using proxy authentication, enter a username and, optionally, a password.

The Dell Command | Deploy Driver Pack Catalog and the applicable WinPE driver libraries are downloaded from the Dell support site.

 Ω

- Local Driver Library—Click Browse and go to a locally stored Dell Command | Deploy Driver Package.
- 6. Click Next.

The **Select Driver Libraries** screen opens, displaying the driver libraries contained in the selected *.cab file(s). Sort the driver libraries table by clicking any column header.

- NOTE: The list of driver libraries that are displayed is based on the operating system version equal to or one version less than the default Configuration Manager boot image.
- 7. Select up to two driver libraries, and then click Next.

The Select Options screen opens.

- 8. Select the boot images into which you want to insert the drivers.
- 9. Select the target distribution points to which you want to distribute the boot image automatically once the Dell drivers have been inserted into the WinPE boot image package.

For more information, see Managing and updating distribution points.

- 10. Under **Specify a UNC destination path**, click **Browse** and then go to a location at which to store the Dell WinPE boot images. To replace your changes with the default UNC path, click **Restore to default path**.
- 11. To Optionally specify a tools .zip file (max 5MB), click Browse and go to a zip file containing the Dell WinPE tools.
- 12. Click Next.

The **Summary** screen is displayed.

13. Click Finish.

A progress bar displays the import and Dell WinPE start-up file creation status.

NOTE: Importing drivers may take a long time, especially if you are importing multiple driver packages.

A log file of the import process is maintained at %PROGRAMDATA%\Dell\CommandIntegrationSuite\Logs\ DriverPackageLogs for troubleshooting purposes unless you enter a tick in the **Delete WinPE boot image logs for this session** check box.

14. When the process has completed, click Close.

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

Creating a Dell client driver package

The Dell Command | Deploy Driver Package feature allows you to import drivers and create Dell client driver packages in two ways: import and package the drivers in one locally stored file at a time, or use the streamlined, multiple-cab file import option, Dell Command | Deploy Catalog.

- NOTE: You must use an account that has administrator privileges in order to create a Dell Client Driver Package. User accounts without administrator privileges encounter permission errors involving the SMS share and installation folders.
- 1. Launch the Configuration Manager console.
- 2. Click Software Library.
- 3. Expand Overview > Operating Systems.

- Right-click Driver Packages and click Dell Command | System Driver Library Import.
 The System Driver Library Import Wizard opens.
- 5. Select a driver library source:
 - **Dell Update/Support site**—Select either the **Use current internet proxy settings** or the **Use custom proxy settings** option. If you choose the custom option, also enter a proxy server URL or IP address and a proxy port number. If you are using proxy authentication, enter a username and, optionally, a password.

The Dell Command | Deploy Driver Pack Catalog is downloaded from the Dell support site.

Or

- Local Driver Library—Click Browse and go to a locally stored Dell Command | Deploy Driver Package.
- 6. Click Next.

The Select Driver Libraries screen opens, displaying the driver libraries contained in the selected cab file(s).

- 7. Sort the driver libraries table by clicking any column header, and then use the filters to limit the number of driver libraries displayed in the table. Filter fields are:
 - Operating System
 - Architecture
 - Line of Business (LOB)
 - Release Date range
- 8. Click Filter to apply the selected limits on the available driver libraries.
- 9. Select one to five driver libraries, and then click Next.

The Select Options screen opens.

- **10.** Select the target distribution points to which you want to distribute the driver package automatically once it is created. For more information, see Managing And Updating Distribution Points
- 11. Under **Specify a UNC destination path**, click **Browse** and then go to a location at which to store the Dell driver packages. To replace your changes with the default UNC path, click **Restore to default path**.
 - 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 about the appropriate storage driver selection, see the Dell TechCenter site at **delItechcenter.com**.
- 12. Click Next.

The **Summary** screen is displayed.

13. Click Finish.

A progress bar displays the package creation and deployment status. Driver packages are created and stored under the Dell System CAB Driver Packages folder according to the operating system architecture selected.

- (i) NOTE: Importing drivers may take a long time, especially if you are importing multiple driver packages.
- 14. When the process has completed, click Close.

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/downloads.
- 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.

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.
 - 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.

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 **Validation Password** dialog box.

- Report Click Export Report to export the configuration settings as aread-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:

- 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.

Creating applications using Dell Command | Software Gallery

The Software Gallery feature provides IT administrators an easy way to configure and deploy Dell systems management applications such as Dell Command | Update, Dell Command | Monitor, Dell Command | Configure, Dell Power Manager, and Dell Precision Optimizer in Configuration Manager.

NOTE: You must be connected to the internet to access the system management software available through the Software Gallery.

Import and stage system management applications

Search for system management applications available for deployment within Software Gallery.

- 1. Launch the Configuration Manager console.
- 2. Click Software Library.
- 3. Expand Overview > Application Management.
- Right-click Applications, then click Dell Command | Software Gallery.
 The Software Gallery wizard opens.
- 5. Click the **Publish** option.
- Select the default Use current internet proxy settings, or select the Custom proxy settings option and enter your desired settings.
- 7. Click Next.
 - Configuration Manager downloads and displays the list of currently available Dell system management applications.
- 8. Optionally, in the **Select Software** window, create a filter using the Operating System, Architecture, and Title criteria, then click **Filter Page** to apply the filter.
 - A list of application packages matching your criteria appears.
- 9. Select one or more application packages for import, and click **Next**.

- (i) NOTE: If you select an application that was already created, the existing application is recreated.
- 10. Select the check boxes beside the distribution points to which you want to stage the chosen system management applications.
 - NOTE: To manually add distribution points that do not automatically appear in the **Select the target distribution** points list box, see Managing and Updating Distribution Points.
- 11. Use the default UNC destination path or browse to a preferred one, then click Next.
- 12. Review your selections in the **Summary** window, then click **Finish**.
 - The **Progress** window displays. The wizard downloads the selected application packages, and creates a new application in Configuration Manger for each downloaded application package. This process may take some time depending on the number of application packages selected.
- 13. In Configuration Manager, go to **Application Management** > **Applications** > **Dell Software Gallery Applications** to confirm successful creation of the system management applications in Configuration Manager.
 - NOTE: Should an application package download fail, check the logs at C:\%PROGRAMDATA% \Dell\CommandIntegrationSuite\Logs to help troubleshoot the issue.
- 14. Deploy created applications to distribution points. For more information, see Managing and Updating Distribution Points.

Synchronize Dell Command system management applications with the Dell catalog

Use this feature to synchronize multiple versions of Dell Command system management applications already created in Configuration Manager with the regularly updated Dell catalog.

To use the Sync feature any application that is marked as superseded in the catalog must already exist in the Configuration Manager. See Import and stage system management applications.

- 1. Launch the Configuration Manager console.
- 2. Click Software Library.
- 3. Expand Overview > Application Management.
- Right-click Applications, then click Dell Command | Software Gallery. The Software Gallery wizard opens.
- 5. Click the **Sync** option.
- 6. Select the default **Use current internet proxy settings**, or select the **Custom proxy settings** option and enter your desired settings.
- 7. Click Next.
 - Configuration Manager downloads and displays the list of Dell system management applications which have been retired or superseded by newer versions.
- 8. Optionally, in the **Select Software** window, create a filter using the Operating System, Architecture, and Title criteria, then click **Filter Page** to apply the filter.
 - The list of application packages is further refined to match your filter criteria.
- 9. Select one or more application packages to synchronize, and click Next.
- 10. Review your selections in the Summary window, then click Finish.
 - The **Progress** window displays. The wizard downloads, compares, and synchronizes the metadata of the applications listed in the Dell catalog with the applications created in Configuration Manager..
- 11. Click Close.
 - The selected application packages are synchronized within Configuration Manager.

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:
 - o **Power Profile**—Configure and apply the preferred power policy.
 - o **Boot Order**—Configure or change the boot order.
 - o **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:
 - \circ $\,$ KVM Connect—Set up and run KVM sessions.
 - o 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
- Configuring WinRM on client systems
- Launching the Dell Command | Intel vPro Out of Band application
- Account setup
- Client discovery
- Settings
- Remote provisioning
- USB provisioning
- Indications
- Client configuration
- Operations
- Generating reports
- 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.

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

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 $(x86)\Dell\CommandIntegrationSuite\DellCommandvProOutOfBand.exe.$

Account setup

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

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

Client discovery

When you initially launch the Dell Command | Intel vPro Out of Band application, and right after you configure your Account Setup settings, the software performs the following actions:

- Updates the Configuration Manager .mof file and adds a Dell hardware inventory class to Configuration Manager.
- Creates vPro-AMT Capable, vPro-AMT Provisioned-Compliant, and vPro-AMT Provisioned-Not Compliant device collections in Configuration Manager.
- Creates a vPro-AMT ACUConfig Package package in Configuration Manager.
- Creates a vPro-AMT Discover Client task sequence in Configuration Manager.

To discover AMT capability and provisioning status client systems from Configuration Manager, do the following:

- 1. Distribute the **vPro-AMT ACUConfig Package** package by distributing the content of the vPro-AMT Discover Client task sequence.
- 2. Deploy the **vPro-AMT Discover Client** task sequence on a device collection.

The **vPro-AMT Discover Client** task sequence runs on all client systems in the targeted device collection, and the client systems will eventually end up in one of the three vPro-AMT device collections. It may take a few minutes for the clients to appear in the device collections. You must manually update the membership of the device collections or restart the Configuration Manager Admin Console to refresh the device collections.

- NOTE: Any Dell client systems that end up in the vPro-AMT Provisioned Compliant device collection will also appear in the Available clients list for the operations in the Dell Command | Intel vPro Out of Band application.
- NOTE: If you have upgraded from an earlier version of Dell Command | Integration Suite for System Center, or if you later upgrade Intel Setup and Configuration Software using Dell Command | Intel vPro Out of Band, you may see multiple versions of the vPro-AMT ACUConfig package and the vPro-AMT Discover Client task sequence in Configuration Manager. It is recommended that you use the highest version instance of these objects, v3 over v2, for example, when distributing content or deploying the task sequence.

Settings

On the Settings window you can configure and set the preferences for different components of the application such as:

- Account Setup
- Indications
- KVM
- Task Queue
- Logging

Account setup

You can set up and configure the account through which you want to manage your AMT enabled client systems.

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. Click the settings icon.
- 3. On the **Settings** screen, The **Account Setup** tab is displayed.
- 4. You can configure the following settings:
 - Configure the Configuration Manager SQL Server information.
 - Configure the Configuration Manager Database information.
 - Configure the **Operating System User Account** information.
 - Configure the AMT Administrative User Account information.
- 5. Click OK.

Indications

Configure indications settings such as Retention Days and Listener IP Address.

- 1. Launch Dell Command | Intel vPro Out of Band application.
- 2. Click the settings icon.
 - On the **Settings** screen, the **Indications** tab is displayed.
- **3.** Configure the following settings:
 - **Retention Days**—The number of days client events are stored in the database, ranging from a minimum of 7 and a maximum of 180 days. Events are removed once the retention day period is met.
 - **Retry Days**—The number of days the indications service attempts to connect the AMT service on the client. Both the default and maximum number of retry days is 3.
 - Attempts Per Day—The number of times in a day the indications service attempts to connect the AMT service on the client. Both the default and maximum number of attempts per day is 3.
 - **Listener IP Address**—Select from the available local server IP address to designate a Listener IP Address. The default is the first IP address in the list of available local server IP addresses.
 - (i) NOTE: If there are active subscriptions running, you cannot change the Listener IP Address or Port Number.
 - Port Number—The port number of the Listener IP Address. The default value is 65000.
- 4. Click OK.

Unsubscribing all subscriptions

Use the **Unsubscribe All** button to remove all subscriptions from all clients in cases where indications operations are negatively impacting network performance and you want to reduce congestion.

- 1. Launch Dell Command | Intel vPro Out of Band application.
- Click the settings icon in the upper right side of the screen.On the **Settings** screen, the **Indications** tab is displayed.
- 3. Click Unsubscribe All.
 - i NOTE: Unsubscribing all subscriptions may take some time depending on the number of subscribed clients.

KVM

Allows you to specify the duration of your KVM and User Consent sessions to time out.

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. Click the settings icon.
- 3. On the **Settings** screen, click **KVM**. The **KVM** tab is displayed.
- 4. Specify the time for the User Consent session to time out using the User consent response timeout.
- 5. Specify the time for the KVM session to time out after a period of inactivity using the Session Timeout .
 - i NOTE: Setting the value to zero disables the time-out session.
- 6. Click OK.

Task queue

This feature allows you to limit the number of completed tasks and displayed in the Task Queue window.

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. On the **Home** screen, click the settings icon.
- On the Settings screen, click Task Queue. The Task Queue tab is displayed.
- 4. To have your Task Queue automatically refresh, switch Refresh Automatically to On.
- 5. Set the **History Limit** to the number of tasks you want to retain in the database (1 1000).
 - NOTE: Only completed, canceled, or aborted tasks are removed as new tasks are created.
- 6. Click OK.

Logging

Set the preferences for the level of logging, and location of the logs you want to capture by Dell Command | Intel vPro Out of Band.

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. On the **Home** screen, click the settings icon.
- **3.** On the **Settings** screen, click **Logging**. The **Logging** tab is displayed.
- 4. Select one of the following options from the Log Level drop-down menu:
 - None—no logs are captured.
 - Normal—typical logging for client systems operating normally. This Log Level 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 View Folder.

Remote provisioning

Remote provisioning allows you to remotely perform AMT provisioning of Intel vPro-enabled clients.

i) NOTE: Read the Remote Provisioning feature documentation in full before attempting to use Remote Provisioning.

Prerequisites for remote provisioning using Intel SCS

To use the remote provisioning feature, ensure the following:

- You are a domain admin user who has administrator privileges on Active Directory, Certification Authority, and Configuration Manager.
- You are running on a Configuration Manager primary site server with the Configuration Manager Admin Console installed.
- Intel Setup and Configuration Software is not installed on the provisioning system.
 - NOTE: Intel Setup and Configuration Software (Intel SCS) is not available for download. Contact the Intel support team to get the Intel SCS.
- You have downloaded Intel Setup and Configuration Software version 12.2 or greater. Intel Setup and Configuration Software is available for download at intel.com/content.
- On your Intel vPro-enabled clients, the latest Intel MEI driver and Local Management Service are installed. These
 components are typically factory-installed, but you can also find them on dell.com/support.
- Intel vPro-enabled client systems are registered as Configuration Manager clients.
- If you plan on using an AMT provisioning certificate from a trusted third-party Certificate Authority, see Remote Provisioning
 Certificate Setup. If you plan to use a self-signed AMT provisioning certificate, you must have created one and have it on
 hand for the remote provisioning configuration process and for manual insertion of the hash into each vPro-enabled client to
 be remotely configured.

Remote provisioning licensing

You must complete the licensing process in order to enable the Remote Provisioning feature.

To complete the licensing process, do the following:

- Click Create License Request.
 The Create Licensing Request form opens.
- 2. Fill out the form, providing a Domain Name, Organization Name, and your email address where indicated.
- 3. Click Create License File, and save the resulting LicenseReq.xml file to your hard drive.
- 4. Send an email, attaching your LicenseReq.xml file, to AMTProvisioning@dell.com.
- 5. When you receive the license file from Dell, click the **Import License File** button to import the license file and enable Remote Provisioning.
 - NOTE: Receipt of your license file from Dell may take a couple of days, as it is a manual process.

Remote provisioning certificate setup

To use the AMT Remote Provisioning feature, you must have a valid AMT provisioning certificate. A valid certificate must come from a trusted third-party Certificate Authority (CA), or be a self-signed certificate, or both.

To obtain an AMT provisioning-related server certificate file from a trusted third-party CA, complete the following steps:

- 1. Create a Certificate Signing Request (CSR) text file.
 - a. Click Create CSR File.
 - b. Fill out the Create a Certificate Signing Request (CSR) File form, providing a Common Name, Organization Name, City/Locality, State/Province, and Country Code.
 - c. Click Create CSR File.
- 2. Take the CSR file to a trusted third-party CA, and acquire a server certificate file from the CA.

- i) NOTE: Receipt of your server certificate file from the CA may take several days.
- 3. To import the acquired server certificate file once you have received it from the CA, click Create PFX File.
- 4. Fill out the Create a Personal Information Exchange (PFX) File form, providing the path to your server certificate file, and a PFX File Password.
- 5. Click Create PFX File.

Configuring the remote provisioning feature

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. Click the Remote Provisioning Configuration tab, and enter the required information.
- 3. Click Save, and then click Apply.

The software makes the following changes to your environment:

- Creates the following objects in Active Directory:
 - o RCS administrator user
 - o AMT administrators security group
 - AMT system organization unit
- Adds an AMT web server certificate template to the selected Certificate Authority.
- Installs the Intel Setup and Configuration Software (Intel SCS).
- Imports the specified certificates into the personal store of the RCS administrator account.
- Creates an AMT profile in the Remote Configuration Service (RCS).
- Creates two task sequences in Configuration Manager.

Configuring the Intel Endpoint Management Assistant

- Intel EMA must be preinstalled with user authentication as Use Domain Authentication.
 - NOTE: Dell Technologies recommends that you do not install Intel EMA on Dell Command | Integration Suite for System Center server as it may break the management point of the configuration manager.
- Create all the users (Global admin, Tenant admin) and accounts like Tenants and Intel AMT profiles.
- Import an AMT provisioning certificate from a trusted third-party Certificate Authority or a self-signed AMT provisioning certificate in Intel EMA.
- Import Intel EMA MeshRoot Certificate from Certificates (Local Computer) > Personal > Certificates
 to Certificates (Local Computer) > Trusted Root Certification Authority > Certificates on
 the server.
 - NOTE: For more information about how to set up Intel EMA, see Intel Endpoint Management Assistant Quick Start Guide at intel.com/content.
- NOTE: This release supports the GET operation from Dell Command | Integration Suite for System Center, which means the objects that are created on the Intel EMA portal are fetched and displayed in the Intel EMA remote provisioning tab.

The remote provisioning through Intel EMA allows you to remotely provision the Intel AMT clients from a central provisioning system. In order to configure the remote provisioning from Dell Command | Integration Suite for System Center, follow the steps below:

- 1. Enter the Intel EMA server URL.
 - The EMA server URL is displayed, in case there is a change, you may change the URL.
- 2. Enter the global admin credentials.
- 3. Click Fetch Tenant Details and all the Tenants are displayed on Select Tenant.
- 4. Select the tenant from Select Tenant, which displays all the Tenant Admins in Select Tenant Admin.
- 5. Select the tenant admin from **Select Tenant Admin**, enter the password, and click **Fetch Endpoint Groups**. All the Endpoint groups on the **Endpoint Group** grid are displayed.
- 6. Select the digitally unsigned files checkbox to download the unsigned EMA Agent and Policy files, or you may leave it cleared.
- 7. Select the Endpoint Groups and Type as 32-bit or 64-bit, or both, depending on the client operating system type.
- 8. Click Apply Remote Provisioning.

This step downloads the selected EndPoint Groups Agent file, Policy file, and creates an Intel EMA package with the EndPoint Group Name in **Configuration Manager**. It also creates two Intel EMA task sequences, namely, **Configure** and **Unconfigure** with the EndPoint Group Name in **Configuration Manager**.

- 9. Launch the Configuration Manager and go to Software Libraray -> Operating Systems > Task Sequences > Dell vPro-AMT EMA Task Sequences.
- 10. To provision the client, select Configure Task Sequence to distribute the content, and deploy it to the client machine. On the client system software center, The Configure Task Sequence option appears and gets installed automatically. Once the installation completes, the client details are displayed on Dell Command | Integration Suite for System Center to perform the out of band operations.
- 11. Select **Unconfigure Task Sequence** and deploy it to the client system to unconfigure the client.

 On the client system software center, the **Unconfigure Task Sequence** option appears and gets installed automatically.

 Once the installation completes, the client details are removed from the Dell Command | Integration Suite for System Center.

Upgrading Intel Setup and Configuration Software after remote provisioning is enabled

Use Dell Command | Integration Suite for System Center v5.1 and higher to upgrade Intel Setup and Configuration Software (SCS) to a later version after remote provisioning has been enabled.

- NOTE: Intel Setup and Configuration Software (Intel SCS) is not available for download. Contact the Intel support team to get the Intel SCS.
- NOTE: Ensure that you have the Remote Configuration Service (RCS) administrator account password available before beginning the upgrade process.

To upgrade Intel SCS after configuring remote provisioning, do the following:

- 1. Save the Intel SCS ZIP file from Intel's SCS support site to a temporary directory on a local drive.
- 2. On the left panel in Dell Command | Intel vPro Out of Band, click the **Remote Provisioning** tab, and then click **Configuration**.
- 3. Scroll down to the Remote Configure Service (RCS) Installation section of the window.
- **4.** Click **Upgrade Intel SCS** and follow the wizard prompts. Intel SCS is upgraded on the system.

Preparing Intel vPro client systems for remote provisioning

If you specified a self-signed certificate during the Remote Provisioning configuration process, then insert the self-signed certificate hash into the MEBx of any client systems you intend to target for remote provisioning.

Provisioning remote client systems

From the Configuration Manager Admin Console, do the following:

- Deploy the vPro-AMT Configure Client task sequence on the vPro-AMT Capable device collection or a custom device collection. The task sequence runs on all client systems in the targeted device collection and attempt to provision the client systems for AMT.
 - After being provisioned, the AMT clients will eventually appear under the **vPro-AMT Provisioned-Compliant** device collection. It may take a few minutes for the clients to appear in the device collections.
- 2. You must manually update the membership of the device collections or restart the Configuration Manager Admin Console to refresh the device collections.
 - NOTE: Any Dell client systems that the software places in the **vPro-AMT Provisioned Compliant** device collection appears in the **Available clients** list for the operations in the Dell Command | Intel vPro Out of Band application.
 - (i) NOTE: If you have upgraded from an earlier version of Dell Command | Integration Suite for System Center, or if you later upgrade Intel Setup and Configuration Software using Dell Command | Intel vPro Out of Band, you may see multiple versions of the vPro-AMT objects in Configuration Manager. It is recommended that you use the highest version instance of these objects, v3 over v2, for example, when deploying the task sequence.

NOTE: Intel Setup and Configuration Software (Intel SCS) is not available for download. Contact the Intel support team to get the Intel SCS.

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.
- 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.

Indications

The Dell Command | Intel vPro Out Of Band application provides an indications feature that allows you remotely to monitor, diagnose, and manage clients using Distributed Management Task Force (DMTF) filters (indications) to monitor each client.

i) NOTE: More information about DMTF filters may be found at the DMTF website, www.dmtf.org.

Indications allow you to monitor diagnostic events such as:

- Motherboard failure
- CPU failure
- Power supply failure
- Memory subsystem failure

The indications feature has the following functionality:

- Settings—Set up configuration data for the feature
- Policies—Associate filters with a policy that can be applied to one or more clients
- Configure Subscriptions—Associate policies with clients on the network, and then apply the policies to the clients

- Subscription status—View and manage subscriptions
- Events—View, manage, and export events

Recommended and optional filters

Some indications are message intensive: when applied to a client, these filters will likely generate a large volume of messages, and they should therefore be used with extreme caution. To avoid network congestion, only one Optional filter may be applied to a single client on the network at a time. Supported filters are:

Recommended Filters

Intel® AMT: CorePlatform

Optional Filters

CAUTION: Use the following Optional Filters with great care, as they can impact network performance. Best use of these filters includes diagnosis of issues by applying a single Optional filter to a specific client for a short period.

- None—Default
- Intel® AMT: Platform
- Intel® AMT: ME Presence
- Intel® AMT: Features
- Intel® AMT: User
- Intel® AMT: FW ProgressEvents
- Intel® AMT: All

Policies

From the Policies screen, you can view the Indications policies that have been previously created, and perform the following tasks:

- Create a new policy
- Edit a policy
- Delete a policy

The table can be sorted by any of its fields in ascending or descending order by clicking the relevant column title.

Creating a policy

- 1. Click Indications > Policies.
- 2. Click New.

The Create Policy screen opens.

- **3.** Enter a policy name. The name must not be the same as an existing policy name, can only contain alphanumeric characters and spaces, and can be up to 64 characters in length.
- 4. Select the filter(s) to include in your policy. Ensure that you select at least one filter to create a new policy, but no more than two filters consisting of the CorePlatform (Recommended) filter and one of the Optional filters. See Recommended And Optional Filters for more information about when to use which filters.
 - i NOTE: You can only select one Optional filter to include in any given policy.
- 5. Click OK.

The new policy appears in the Policies table.

i) NOTE: A policy is considered "active" when it is included in one or more subscriptions.

Editing a policy

1. Click Indications > Policies in the left pane.

- 2. Select the policy that you want to edit.
 - i) NOTE: Only inactive policies can be edited.

The Edit button becomes active.

- 3. Click the Edit button.
 - The Edit Policy screen opens.
- 4. Make any required changes to the policy.
 - i NOTE: At least one filter must be selected before the policy can be saved.
 - CAUTION: Use the Optional Filters with great care, as they can impact network performance. Best use of these filters includes diagnosis of issues by applying a single Optional filter to a specific client for a short period.
- 5. Click OK.
 - NOTE: A policy is not active until it is included in a subscription.

Deleting a policy

- 1. Click Indications > Policies in the left pane.
- 2. Select the policy that you want to delete.
 - i NOTE: Only inactive policies can be deleted.

The Delete button becomes active.

3. Click the **Delete** button.

Configure subscriptions

A subscription is a collection of one policy with one or more clients that are selected from those on the network. From the Configure Subscriptions screen, you can view subscriptions that have been previously created, and perform the following operations:

- Create a new subscription
- Edit a subscription
- Delete a subscription
- Subscribe (apply a subscription to the selected clients)
- Unsubscribe (remove a subscription from a client)

Each subscription row can be in one of several states:

- Pending
- Running
- Stopping
- Completed
- Completed with error(s)
- Stopped

To sort the Subscriptions table by any of its fields in ascending or descending order, click the relevant column title. Columns in the Subscriptions table are:

- Subscription Name
- Operation
- Modifier—Modifies the Operation. Currently Stop is the only modifier.
- Status—The status of the Subscription; if a single client remains in the Pending or Retry state, then the Status of the Subscription will be Complete With Errors.
- Policy Name
- Policy Filters

• Clients—If one client is included in the subscription, its Fully Qualified Domain Name (FQDN) will be listed in the table. To see a list of client FQDNs included in the subscription if there are two or more, click the **Multiple . . .** hyperlink in the column.

To refresh the Subscriptions table, click the refresh button.

Creating a subscription

- (i) NOTE: You must have already created at least one policy and have clients available before you can create a subscription.
- Click Indications > Configure Subscriptions, and then click the New button.
 The Create Subscription screen appears.
- 2. Enter the name of the subscription. The name must be unique, contain only alphanumeric characters and spaces, and be no longer than 64 characters.
- **3.** Select the policy that you want to include in the subscription.
- 4. Click Next.
 - The Select Client(s) screen appears.
- 5. Optionally, use the **Search for clients** filters to limit the list of available clients.
 - NOTE: If the policy you have selected for this subscription contains only the Recommended Filter, then you can select multiple clients from the list of available clients to which to apply this subscription. However, if the policy you have selected for this subscription contains one of the Optional Filters, then you can select only one client.
- 6. Select one or more clients as appropriate from the list on the left, then move them to the list on the right.
- 7. Click Finish.

Editing a subscription

- 1. Click Indications > Configure Subscriptions.
 - i NOTE: You cannot edit an active subscription.
- 2. Select the subscription that you want to edit.
- **3.** Click the **Edit** button. The Edit Subscription screen displays.
- 4. Make any required changes on the Edit Subscription screen, and then click Next.
- 5. Make any required changes on the Edit Selected Client screen, and then click Finish.

Deleting a subscription

- 1. Click Indications > Configure Subscriptions.
 - i NOTE: You cannot delete an active subscription.
- 2. Select the subscription that you want to delete.
- 3. Click the **Delete** button.

Applying a subscription

- NOTE: You cannot apply a new subscription when the Listener IP Address setting is not set. Click **Settings** > **Indications** to set a Listener IP Address.
- NOTE: You cannot apply a new subscription that contains one or more of the same filters and one or more of the same clients as an existing, active subscription.

- NOTE: You cannot apply a subscription that includes one of the Optional filters when another subscription containing one of the message intensive filters is active.
- (i) NOTE: If an Unsubscribe All task is in progress, you cannot subscribe, unsubscribe, or stop subscriptions.
- NOTE: If the Indications service (DellAweSvc) is not running, you cannot subscribe, unsubscribe, or stop subscriptions. Check the status of the service on the Services console.
- 1. Click Indications > Configure Subscriptions.
- 2. Select the subscription that you want to apply.
- 3. Click Subscribe.

Unsubscribing a subscription

- (i) NOTE: If an Unsubscribe All task is in progress, you cannot subscribe, unsubscribe, or stop subscriptions.
- NOTE: If the Indications service (DellAweSvc) is not running, you cannot subscribe, unsubscribe, or stop subscriptions. Check the status of the service on the Services console.
- 1. Click Indications > Configure Subscriptions.
- 2. Select the subscription that you want to unsubscribe.
- 3. Click Unsubscribe..

Subscription status

On the Subscription Status screen, you can view the status of your subscriptions. For each subscription you have created, and for each of the filters that is included in the policy of the subscription, each of the clients to which the subscription has been applied are displayed on a separate line (number of filters x number of clients = number of table entries per subscription). Each subscription or client row can be in one of several states:

- Ready
- Pending Retry
- Processing
- Success
- Failure
- Stopped

To sort the subscriptions table by any of its fields in ascending or descending order by clicking the relevant column title. Columns in the table are:

- Subscription Name
- Operation
- Modifier
- Status
- Client
- Policy Filter

To refresh the Subscriptions Status table, click the refresh button.

Stopping a subscription

If one or more rows of a subscription are in the Ready, Processing, or Pending Retry state, then you can stop the subscription. Stopping a subscription does not affect any rows of a subscription that are in the Success or Failure states. Once you have stopped a subscription, you can return to the **Configure Subscription** screen and edit, delete, apply, or unsubscribe the subscription.

(i) NOTE: Stopping a subscription on one client applies the stop to all clients to which the subscription has been applied.

1. Click Indications > Subscription Status.

- 2. Select the subscription that you want to stop.
- 3. Click STOP SUBSCRIPTION.

Events

The Events screen displays a list of indications that are returned once a subscription has been applied. From this screen, you can not only view the list of events, but also export the list to a *.csv file. Should you no longer must track specific types of events, you can add the event Message ID to a Blocklist; the events can continue to occur, but they will no longer be stored until you remove them from the Blocklist.

The Event list is sortable by the Date column only. Other information that is provided in the Event list is:

- Client—The client system that generated the event.
- Message ID—Event type; many events may share the same Message ID
- Description—Brief description of the event
- Severity—Possible event severity levels are Unknown, Other, Information, Warning, Minor, Major, Critical, and Fatal.
- Alert Type—Possible alert types are Other, Communications, Quality Of Service, Processing Error, Device, Environmental, Model Change, and Security.

An event counter is provided in the upper right portion of the screen. Click the refresh button to update the event count and to update the Event list.

i) NOTE: The event counter is a count of all stored events, not of the displayed events in the Event list.

Viewing events

To view the Event list:

- 1. Click Indications > Events in the left pane.
- 2. Optionally, use a filter to restrict the events displayed in the Event list:
 - i NOTE: The event counter is a count of all stored events, not of the displayed events in the Event list.
 - a. Click FILTER SETTINGS.
 - The **Event Filter Setting** screen appears.
 - b. Select a filter method: None, Client, Message ID, Client, or Message ID.
 - c. Click Next, and depending on the filter option you selected, select a Client and/or a Message ID.
 - d. Click Finish.

The event list refreshes.

Adding events to the Blocklist

To suppress specific types of events (Message IDs) from appearing in the Event list, add them to the Blocklist:

- 1. Click Indications > Events in the left pane.
- 2. Select the Message IDs to add to the Blocklist by placing a check mark in the appropriate boxes.
- 3. Click ADD TO BLOCKLIST.

The Message IDs of the selected events are added to the Blocklist.

- NOTE: When a Message ID is added to the Blocklist, previous events with same Message ID remain in the Event list; only new events with that Message ID are discarded.
- i) NOTE: Adding all events to the Blocklist results in all or almost all new events being discarded.

Removing events from the Blocklist

To remove Message IDs from the Blocklist so that those types of events are no longer discarded:

- 1. Click Indications > Events in the left pane.
- 2. Click MANAGE BLOCKLIST.

The Event Blocklist screen displays. Blocklisted events are sortable by Message ID or Description fields.

- 3. Select the Message IDs to remove from the Blocklist by placing a check mark in the appropriate boxes.
- Click REMOVE FROM BLOCKLIST, and then click CLOSE.
 New events containing the removed Message IDs are no longer discarded, and will appear in the Event list.

Exporting events

To export a list of events to a *.cvs file:

- 1. Click Indications > Events in the left pane.
- 2. Select the events to export by placing a check mark in the appropriate boxes.
- 3. Click **EXPORT...**.
- Go to the location to which you want to save the event list file, and click Save.
 The selected events are saved to the *.cvs file.

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.
- 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.
 - 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 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.
 - 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.
- 10. Provide a name to the task you are running and clickNext.

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.

- i 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.
- i 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.
 - (i) NOTE: It is recommended to clear the system password before the administration password.
 - Set—Enter and confirm the administration or system password.
 - i 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.
 - 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.

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.

- 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.

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.

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

Wipe client data

CAUTION: This operation deletes all the data on your client systems.

i NOTE: The remote-wipe of client hard drive may take several hours to complete.

The Wipe Client Disk feature remotely erases data on supported client system's hard drives.

- 1. Launch the Dell Command | Intel vPro Out of Band application.
- 2. Click Operations > Wipe Client Data.

- 3. After selecting Wipe Client Data, you can perform one of the following actions:
 - Schedule to schedule a time for client system's hard disk wipe. For more information, see Scheduling Wipe Client Data.
 - NOTE: To schedule a Remote Wipe Client Data operation, the client must be accessible through the network.
 - Retrieve to retrieve status of client system's hard disk wipe. For more information, see Retrieving Wipe Client Data Status.

Scheduling wipe client data

The Wipe Client Data feature remotely erases data on supported client system hard drives. To schedule a Wipe Client Data:

- 1. Select Schedule and click Next.
 - The **Select Clients** tab is displayed.
- 2. Search for client systems to which you want to schedule a remote data wipe.
- 3. 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.
- 4. Click Next.
- 5. The Schedule Task tab is displayed.
- 6. 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 wipe client data operations are immediately applied and displays the Running status in the Task Queue.
 - (i) NOTE: If your client systems are not connected to the network, run the task again.
 - Run At—wipe client disk operations are queued in the Task Queue.
 - (i) NOTE: You can launch the Task Queue to view the list of completed and pending tasks.
- 7. Provide a brief description of the Task you are applying and click Next.
 - NOTE: It is recommended to run the **Retrieve Wipe Client Data** task to ensure that the hard drives of the client systems have been formatted successfully. For more information see, Retrieving Wipe Client Data.
- 8. Click Finish.

Retrieving wipe client data status

- i NOTE: Retrieve requests the status of the Wipe Client Data operation.
- NOTE: After the remote hard drive wipe command has been issued from the server to the client system, the task's status changes to **Complete**. The format process on the client system will begin only after the status changes to **Complete**.

To retrieve the status:

- Select Retrieve and click Next.
 The Select Clients tab is displayed.
- 2. Search for client systems to which you want to retrieve the status of Wipe Client Data.
- 3. 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.
- 4. Click Next.

36

- 5. The Schedule Task tab is displayed.
- 6. 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 status of Wipe Client Data operations is immediately retrieved and displays the Running status in the Task Queue.
 - i NOTE: If your client systems are not connected to the network, run the task again.
 - Run At—the status is queued in the Task Queue.
 - i NOTE: You can launch the Task Queue to view the list of completed and pending tasks.
- 7. Provide a brief description of the changes you are applying and click Next.

The **Summary** tab is displayed.

8. Click Finish.

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 for selected 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. 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.
- 4. Click Next.
 - The Schedule Task tab is displayed.
- 5. 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 Schedule report task is immediately applied and displays the Running status in the Task Queue.
 - (i) NOTE: If your client systems are not connected to the network, run the task again.
 - Run At—Schedule report task is gueued in the Task Queue.
 - i NOTE: You can launch the Task Queue to view the list of completed and pending tasks.
- 6. Provide a name to the task and click Next.

The **Summary** tab is displayed.

7. Click Finish.

The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or gets aueued.

Retrieving reports

i) NOTE: Retrieving reports requests a report for the data that are collected through Scheduled 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. 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.

- 4. Click Next.
- 5. 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 Retrieve report task is immediately applied and displays the Running status in the Task Queue.
 - NOTE: If your client systems are not connected to the network, run the task again.
- Run At—Retrieve report task is queued in the Task Queue.
 - i NOTE: You can launch the Task Queue to view the list of completed and pending tasks.
- 6. Provide a name to the task and click Next.

The **Summary** tab is displayed.

7. Click Finish.

The Task Queue window is opened and depending on how you scheduled the task, it starts running immediately or gets queued.

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.

Troubleshooting

Issue: Setting logs to Debug mode.

Resolution: Change the settings on your logs to debug mode to make best use of this troubleshooting tool. Dell Command | Integration Suite for System Center log files are located at C:\%PROGRAMDATA%\Dell\CommandIntegrationSuite\Logs.

- Open the Registry Editor by typing regedit at the command prompt.
- Expand the registry tree by selecting HKEY_LOCAL_MACHINE > SOFTWARE > Dell > CommandIntegrationSuite > ConfigManagerExtensions.
- Change the LogLevel setting from Normal to Debug.
- Open the log file to see the debug comments.

Issue: Error while uninstalling Dell Command | Integration Suite for System Center.

Resolution: An error message stating Error opening installation log file. Verify that the specified log file location exists and is writable is displayed while uninstalling Dell Command | Integration Suite for System Center through Programs and Features. Restart the system and ensure that the Windows Installer service is running, then perform the uninstall steps.

Issue: Authenticode signature

Resolution: 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/**.

Issue: KVM over wireless

Resolution: When you select 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, you select 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, you must select Tools > Link Preference > OS owns Wireless. In that case, the KVM connection is lost during the transfer process. To reestablish the connection, you 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.

Issue: Hardware inventory report memory speed is reported as zero

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

Issue: Max password length change

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

Issue: KVM power control to boot to OS in S3

Resolution: 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).

Issue: Apply operating system task sequence action has a red bang

Resolution: 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 dell.com/support.

- 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.