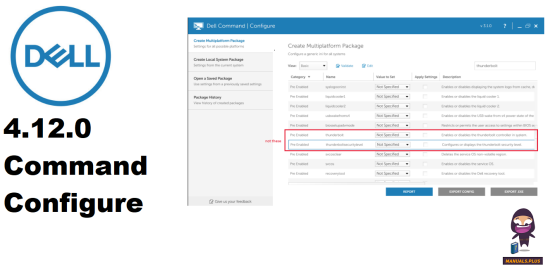

DELL 4.12.0 Command Configure User Guide

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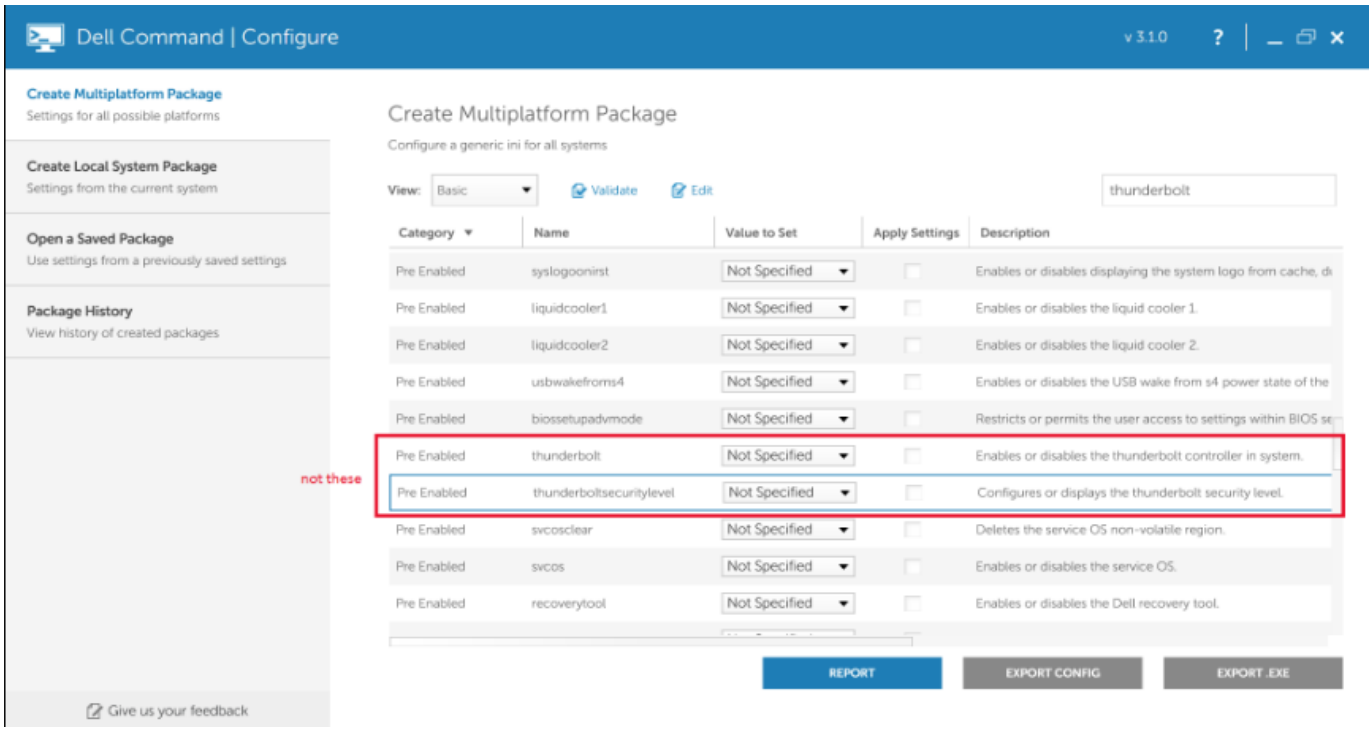
DELL 4.12.0 Command Configure



Product Information

Specifications:

- **Product Name**: Dell Command | Configure
- **Version**: 4.12.0
- **User's Guide**: June 2024 Rev. A00
- **Compatibility**: Not compatible with ARM64-bit systems
- **Supports**: ARM64 processors

Product Usage Instructions

Installation:

1. Download the Dell Command | Configure software from **dell.com/support**.
2. Follow the instructions in the Dell Command | Configure Installation Guide for installation on supported client systems.
3. Ensure WSMT compatibility for configuring platform features on Dell Client Systems.

Configuration:

Use the Dell Command | Configure Command Line Interface Reference Guide for configuring BIOS options on supported Dell client systems.

Accessing Documents:

1. Go to Support | Dell on **dell.com**.
2. Click Browse All Products, then Software, and select Client Systems Management.
3. Select your product name and version number to access the required documents.

Notes, cautions, and warnings

- **NOTE**: A NOTE indicates important information that helps you make better use of your product.
- **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.
- **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

Introduction to Dell Command | Configure 4.12.0

Dell Command | Configure is a software package that provides BIOS configuration capability for Dell client systems. IT administrators can use this tool to configure BIOS settings and create BIOS packages using the Dell Command | Configure User Interface (UI) or Command Line Interface (CLI).

Dell Command | Configure 4.11.1 supports the following Windows operating systems:

- Windows 11
- Windows 10
- Windows Preinstallation Environment (Windows PE)

For information about using the CLI, see Dell Command | Configure Command Line Interface Reference Guide available at **dell.com/support**.

- **NOTE:** Windows 10 is not compatible with ARM64–bit systems.
- **NOTE:** Dell Command | Configure 4.12.0 for Windows Preinstallation Environment is not compatible with ARM64-bit systems.
- **NOTE:** This software was rebranded as Dell Command | Configure after Dell Client Configuration Toolkit version 2.2.1.

Topics:

- What’s new in this release
- Other documents you may need

What’s new in this release

- Supports ARM64 processors. Other documents you may need In addition to this guide, you can access the following documents at **dell.com/support**:
    - The Dell Command | Configure Installation Guide provides information about installing Dell Command | Configure on supported client systems. The guide is available on the Dell Command | Configure documentation page.
    - The Dell Command | Configure Command Line Interface Reference Guide provides information about configuring the BIOS options on supported Dell client systems.

The Release Notes documentation is available as part of the Dell Command | Configure download on **dell.com/support** and provides the latest available information for the installation and operation of Dell Command | Configure . Accessing documents from the Dell EMC support site

You can access the required documents by selecting your product.

1. Go to Support | Dell.
2. Click Browse All Products, click Software, and then click Client Systems Management.
3. To view the documents, click the required product name and version number.

Windows SMM Security Mitigations Table (WSMT) Compliance for Dell Command | Configure 4.12.0

Windows (SMM) Security Mitigations Table contains information about the ACPI table that was created for the Windows operating system, which supports Windows virtualization-based security (VBS) features. Dell Command | Configure is WSMT compatible. This is used for configuring the platform features on Dell Client Systems with WSMT-enabled BIOS.

Following are the behavioral changes due to WSMT compliance:

- Configuration functionalities are available on the Dell Client Platforms, which have the compatible version of BIOS supporting WMI or ACPI.
- **The following limited functionalities are available when the systems have incompatible BIOS:**
  - Dell Command | Configure user interface is used for viewing all the configuration features.
  - Dell Command | Configure generates SCE for multiplatform packages.
  - Dell Command | Configure generates the reports with the configured values.
  - Dell Command | Configure opens a saved package. You may see the following warning messages with systems running an incompatible BIOS.
- **During installation:** This system does not have a WMI-ACPI compliant BIOS, so limited functionality is available. Update the BIOS with a compatible version, if available. For more information, see Dell Command | Configure Release Notes.
- **Using CLI**: This system does not have a WMI-ACPI-compliant BIOS. Update the BIOS with a compatible version, if available.
- **For local system packages in the user interface:** This system does not have a WMI-ACPI compatible BIOS, and the local system SCE package does not work on this system. Update the BIOS with a compatible version, if available.
- **While running the SCE packages:** This system does not have a WMI-ACPI compliant BIOS. Update the BIOS with a compatible version, if available.

Using user interface for Dell Command | Configure 4.12.0

Dell Command | Configure Graphical User Interface (Dell Command | Configure user interface) displays all BIOS configurations that are supported by Dell Command | Configure .

Using the Dell Command | Configure user interface, you can perform the following:

- Create BIOS configuration for client systems. For more information, see Creating a BIOS Package using GUI.
- Validate the BIOS configuration against the BIOS configuration of the host system. For more information, see BIOS option validation.
- Export the customized BIOS configurations as a configuration file (INI or CCTK), Self-Contained Executable

(SCE), shell script, or report. For more information, see Exporting the BIOS configuration.

NOTE:

- To apply the configuration using the Dell Command | Configure Command Line Interface (CLI), run the required file (INI, CCTK, or SCE).
- This system does not have a WMI-ACPI-compliant BIOS, so limited functionality is available. Update the BIOS with a compatible version, if available. For more information, see the Dell Command | Configure Release Notes.

Topics:

- Accessing Dell Command | Configure within the Windows system
- Accessing Dell Command | Configure within Linux
- Files and folders of Dell Command | Configure
- Accessing the Dell Command | Configure GUI
- Creating a BIOS package using the GUI
- Advanced System Management
- BIOS option validation
- Exporting the BIOS configuration
- Target system configuration
- Log details in Package History

Accessing Dell Command | Configure within the Windows system

1. Click the Windows icon.
2. Enter Dell Command | Configure.

Accessing Dell Command | Configure within Linux Browse to /opt/dell/dcc directory.
NOTE: On the systems running Ubuntu Core, Dell Command | Configure can be accessed from any location using the following command: dcc. cctk.

Files and folders of Dell Command | Configure
The following table displays the files and folders of Dell Command | Configure on systems running the Windows operating system.

Table 1. Files and folders of Dell Command | Configure

Files/Folders	Description
Dell Command | Configure Command Prompt	Allows access to the Dell Command | Configure command prompt.
Dell Command | Configure Wizard	Allows access to the Dell Command | Configure GUI.
Dell Command | Configure WINPE	Allows access to the Windows PE scripts to create a bootable image. For more details, see the Dell Command | Configure Installation Guide available at **dell.com/support**.
User's Guide Online	Provides access to the Dell Command | Configure documentation that is available at **dell.com/support**.

Accessing the Dell Command | Configure GUI
NOTE: Dell Command | Configure GUI is supported only on systems running the Windows operating system.

To access the GUI, click Start > All Programs > Dell > Dell Command | Configure Wizard or double-click Dell Command | Configure Wizard on the desktop.

Creating a BIOS package using the GUI
Using the Dell Command | Configure user interface, you can create a BIOS package containing valid settings to apply to target client systems.

1. **To create a BIOS package:**
   Access the Configuration wizard. For more information, see Accessing Dell Command | Configure GUI.
   The Create Multiplatform Package screen is displayed with the following configuration options:
   - Create Multiplatform Package—Click to view the BIOS settings that are supported on all possible client systems. Configure, validate, and export the settings as INI, CCTK, EXE, shell script, or HTML file.
   - Open a Dell Recommended Package—Click the Profile drop-down list and select the profiles. For example, the Security Profile supports security features and the BIOS options in the system. Values that are recommended by Dell Technologies are set in order to secure the system. There are options to modify the values as per requirements, such as Configure, Validate, and Export the settings as INI, CCTK, EXE, shell script, or HTML file.
     NOTE: The Dell Recommended Package of BIOS attributes must be checked by the organization's security team prior to deployment. Dell is not responsible for security vulnerabilities that may arise which is related to the deployment or modification of the Dell Recommended Package of the BIOS attributes.
     NOTE: The status changes to caution when you modify a value that is not recommended by Dell. For a complete list of the BIOS attributes, which are in the Dell Recommended Package, see Dell Command | Configure Version 4.x Command Line **Interface Reference Guide.**
   - Create Local System Package—Click to view the BIOS settings of the host system. Configure, validate, and export the settings as INI, CCTK, EXE, or HTML file. The file displays the supported and unsupported BIOS options for the system.
   - Open a Saved Package—Click to import a saved configuration file. Configure, validate, and export the settings as INI, CCTK, EXE, shell script, or HTML file.
     NOTE: To open a saved package, click Open a Saved Package, browse to the file location and then click Open.
2. Click the required option. All the options that are supported for configuration are displayed. For more

information, see Configuration options.
3. Click Edit or double-click the option.
4. From the Value to Set drop-down list, select the values of the required option. The Apply Settings check box of the edited options is displayed as selected.
5. Select the required export option to export the edited options.

For more information, see Exporting the BIOS configuration.

NOTE:

- If you do not want to export an option, and then clear the Apply Settings check box.
- If the option accepts the string as an input, and then it is not required to add an escape sequence to that option.

Related Links:

- Configuration options
- Configuring the setup, system, and hard disk drive passwords
- Clearing setup, system and hard disk drive passwords
- Configuring auto on option
- Configuring boot order
- Configuring primary battery charging
- Configuring advanced battery charging
- Configuring peak shift battery charging
- Configuring the keyboard backlight color option

Configure the general settings
In the General tab, you can update the source catalog location and the download location, configure or modify Internet proxy settings for Dell Command | Configure to gather information of the update experience.

To configure the general settings:

1. On the title bar, click Settings. The Settings screen is displayed.
2. On the left pane, click General.
3. Click Browse under Download File Location, click Browse to set the default location or to change the default location.
   NOTE: Dell Command | Configure automatically deletes the update files from this location after installing the updates.
4. You have the following options to set the Internet proxy settings:
   - To use the current Internet proxy settings, select Use current Internet proxy setting.
   - To configure a proxy server and port, select Custom proxy setting. To enable proxy authentication, select the Use Proxy Authentication and provide proxy server, proxy port, username, and password.
     NOTE: The username and password credentials are encrypted and saved.
5. On the left pane, click Sync.
   In the Sync tab, there are two options available for the BIOS update:
   - Update the BIOS feature from Support | Dell.

- Update the BIOS feature offline. Select the appropriate option as per your requirement.

  NOTE: The sync feature is used to get Dell Command | Configure support for new BIOS features that got added with the BIOS update. Sync feature version that is displayed is for internal use.

6. Click CHECK to check for Dell Command | Configure updates. If there are updates available for Dell Command | Configure, a warning message is displayed Updates available. Would you like to proceed?, click YES to proceed with the updates.

   NOTE: Internet connection is mandatory to check for the updates.
7. **To update the Dell Command | Configure without an Internet connection, do the following:**
   1. Select Update The BIOS Feature Offline option, navigate to the DellCommandConfigureCatalog.cab file, then click Check to update or downgrade the BIOS feature.
   2. Download a local copy of DellCommandConfigureCatalog.cab files from Support | Dell.
   3. Extract the .cab file and replace the syscfg.xml and resdictionary.xml with the files that are available in Dell Command | Configure. The installation path is C:\Program Files (x86)\Dell\Command Configure.
   4. Replace Optionames_<language code>.xml file with the files that are available in Dell Command | Configure. The installation path is C:\Program Files (x86)\Dell\Command Configure\Localization.

Configuration options

You can customize the BIOS settings and create a configuration package using the available configuration options that are described in the following table:

Table 2. Configuration options

Options	Description
View/Change	Click to view or change the selected configuration and load a new configuration. When you click **View**/**Change** to load a new configuration, the configuration screen is displayed. After you have made the preferred modifications, click **Save** to save the changes, or cl ick **Cancel** to return to the previous configuration. **NOTE:** If you try to load a new configuration without exporting the configured BIOS op tions, and then a screen is displayed. Click **Discard Changes** to discard the configure d values or click **Cancel** to go to the same configuration.
Edit	Click to edit the loaded configuration.
Advanced view	Click to view the configuration details such as, command-line options and possible val ues that you can set for the option, current value of the option, options to apply setting s, and description of the option. **NOTE:** You can view the current value of an option if you have loaded the settings of t he host system.
Basic view	Click to view the configuration details such as, category to which the option belongs, n ame of the option, possible values that you can set for the option, current value of the option, options to apply settings, and the description of the option. **NOTE:** You can view the current value of an option if you have loaded the settings of t he host system.

Validate	Click to validate the loaded configuration against the configuration of the host system. For more information, see **BIOS option validation**.
Search	Search for a text string in the table. Type the text in the search box and the first occurr ence of the text in the table is selected.
Category	Click to select the required categories from the drop-down list. **NOTE:** You can view this option only in Basic View.
Name	Displays the name of the options. **NOTE:** You can view this option only in Basic View.
Value to set	Displays the value of the option. Double-click the row or click **Edit** to change the value s.
Present Value	Displays the current value of the option. **NOTE:** You can view this option if you have loaded the settings of the host system.
Apply settings	Select the check box to export the option. By default, all the options that contain a valu e in the **Value to set** column are selected.
Description	Displays a short description of the option.
Command-Line Optio ns	Displays the command-line representation of the options. **NOTE:** You can view this option only in Advance View.
Status	Displays the status of the options of the loaded configuration. **NOTE:** The **Status** column is displayed only when you validate.

Configuring the setup, system, and hard disk drive passwords
You can set or change the setup password (setuppwd) also known as BIOS password, the system password (syspwd), and the hard disk drive password (hddpwd).

To edit the setup, system, or hard disk drive password:

1. In the Edit mode, click the Value to Set text box of the required option. The corresponding password screen is displayed.
   NOTE: To display the password as clear text, select Show Password. When you select Show Password, then the Confirm Password text box is not displayed. Type the password in the Password text box.
   NOTE: The setup and system passwords must contain a minimum of four characters.
2. Type the same password in the Confirm Password text box to confirm the password.
   If both the entries match, then a green color check mark is displayed next to the Confirm Password text box. A red X mark is displayed if both entries do not match.
3. Click SUBMIT.
4. To apply the modifications, export the configuration in , ini or .exe format. See, Exporting the BIOS

configuration.

NOTE:

- The hard disk drive password (hddpwd) is not compatible with ARM64-bit systems. Clearing setup, system and hard disk drive passwords using the existing password You can clear the configured setup, system, and hard disk drive passwords using the existing password.
- It is not possible to clear the password without knowing the existing password.

To clear the passwords:

1. In the Edit mode, click the Value to Set text box of the required option. The corresponding password screen is displayed.
   NOTE: To display the password as clear text, select Show Password. If you select Show Password, then the Confirm Password text box is not displayed.
2. Enter a blank space in the Password text box.
3. Enter a blank space in the Confirm Password text box to confirm the password. If both the entries match, a green check mark is displayed next to the Confirm Password text box. A red X mark is displayed if both entries do not match.
4. Click SUBMIT.
5. To apply the modifications, export the configuration in , ini or .exe format. See, Exporting the BIOS configuration.

NOTE: The hard disk drive password (hddpwd) is not compatible with ARM64-bit systems.

Password protection screen
A password protection screen is displayed while exporting a file or report with a computer, setup, or hard drive password. To export the file with the password as clear text, click Continue. To export the file without the password, click Remove Password.

NOTE:

- On selecting the Remove Password option, the file is exported without the computer, setup, or hard drive password and the password is not applied to the computer during configuration.
- The hard disk drive password (hddpwd) is not compatible with ARM64-bit systems. Configuring the auto on option
- The autoon option is not compatible with ARM64-bit systems.

You can configure the days on which you want the system to automatically turn on using the autoon option from the Power and Performance Management category.

To configure the days:

1. **Click the required option:**
   - Create Multiplatform Package
   - Create Local System Package

- Open a Dell Recommended Package
- Open a Saved Package

  NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and then click Open.

2. Click Edit, or double-click the option.
3. In the autoon option row, click View/Change in the Value to set column. The auto on screen is displayed.
4. **Select one of the following options from Auto On screen:**
   - Disabled—To turn off the feature.
   - Weekdays—To turn on the target system automatically only on weekdays.
   - Every Day—To turn on the target system automatically everyday.
   - elected Days—To choose the days on which the target system has to turn on automatically.
5. Click OK.
6. To apply the modifications, export the configuration in, ini or .exe format. See, Exporting the BIOS configuration.

Configuring the BIOSConnect profiles
NOTE: The BIOSConnect Profiles is not compatible with ARM64-bit systems.

A BIOSConnect profile can be configured by using either the Connection, CloudApp, Fota, Csos, or HttpBoot profile option from the BIOS Connect profile category. You can edit or set the input data fields for the following BIOSConnect profiles:

- ConnectionProfile
- CloudAppProfile
- CsosProfile
- FotaProfile
- HttpBootProfile

To configure the BIOSConnect profile:

1. **Click the required option:**
   - Create Multiplatform Package
   - Create Local System Package
   - Open a Dell-Recommended Package
   - Open a Saved Package

     NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and then click Open.
2. Click Edit, or double-click the option.
3. In the BIOSConnect profile option, click View/Change in the Value to set column. The profile screen is displayed with the current value for data fields.
   - To create a Multiplatform Package, update the value of data fields on the profile screen.
   - To create a Local System Package and to open a Saved Package, update the existing value of data fields on the profile screens.

     NOTE: Get for BIOSConnect profile is protected when the BIOS password is Set. After you click the Local System Package, the BIOS password screen is displayed. It allows three attempts to provide the correct password. If the correct password is not provided within three attempts, enumeration of the existing

values for the data field fails. If the correct password is provided, the existing data for BIOSConnect profiles are displayed.

4. Click OK to save the configuration, or click CLOSE to discard the changes and close the BIOSConnect profile screen.
5. To apply the modifications, export the configuration in an ini or .exe format. See, Exporting the BIOS configuration.

NOTE: After selecting export config or export .exe option, a warning message is displayed to mask the sensitive values. Select Mask to hide the values of the sensitive data fields of BIOSConnect profiles.

The masked values are set as Hidden in exported .xml files. Select Continue to save the data fields in plain text. The following table displays the available data fields to be provided for configuring BIOSConnect Profiles with Dell

Command | Configure:
Table 3. BIOSConnect Profiles

Profile	Data field	Description
ConnectionProfile	NA	This feature displays and configures the BIOSConnect connection interface.
	Preferred Interface	Displays the preferred connection interface for Internet connectivity.
	SSID Hidden	When SSID is hidden, this option must be enabled.
	SSID Name	Displays the name of the SSID.
	Pre Shared Key	The data field is the authorization key to connect the SSID.
	Auto Preferred Interface	When an option is selected as a preferred interface, you can select a Wi-Fi or a wired connection.
CloudAppProfile	NA	This feature displays and configures BIOSConnect for downloading recovery applications.
	URL Type	Displays the URL type.
	URL	Displays the URL to download the files.
	Select Certificate	Allows you to import the certificate to connect the URL over https.
	Response Format	Displays the format in which responses are available or downloaded.
	Signed	When enabled, this option displays the response information that is signed.

	Select Response Certificate	Allows you to import the key or certificate to validate the response information.
FotaProfile	NA	This feature displays and configures the BIOSConnect to download the BIOS catalogs.
	URL Type	Displays the URL type.
	URL	Displays the URL to download the files.
	Select Certificate	Allows you to import the certificate to connect the URL over https.
	Response Format	Displays the format in which responses are available or downloaded.
	Signed	When enabled, this option displays the response information that is signed.
	Select Response Certificate	Allows you to import the key or certificate to validate the response information.

Profile	**Data field**	**Description**
CsosProfile	NA	This feature displays and configures the BIOSConnect to download the system recovery files.
	URL Type	Displays the URL type.
	URL	Displays the URL to download the files.
	Select Certificate	Allows you to import the certificate to connect the URL over https.
	Response Format	Displays the format in which responses are available or downloaded.
	Signed	When enabled, this option displays the response information that is signed.
	Select Response Certificate	Allows you to import the key or certificate to validate the response information.
	OAuth Enabled	When enabled, this option ensures that the server requires OAuth to download the required files.
	OAuth URL Type	Displays the URL type for OAuth.
	OAuth URL	Displays the URL for OAuth.

	OAuth Certificate	Allows you to import the certificate to connect the OAuth over https.
	OAuth URL Format	Displays the format of the OAuth response.
	Signed	When enabled, this option displays the OAuth response information that is signed.
	Select OAuth Response Certificate	Allows you to import the key or certificate to validate the response information.
	ClientID	Displays the ClientID for the OAuth.
	Client Secret	Displays the Client's Secret for the OAuth.
	OAuth Grant	Displays the OAuth Grant status.
HttpBootProfile	NA	This feature displays and configures the BIOSConnect to install the operating system through HttpsBoot.
	URL Type	Displays the URL type.
	URL	Displays the URL to download the files.
	Select Certificate	Allows you to import the certificate to connect the URL over https.

NOTE: The CloudApp, Fota, and HttpBoot profile pages have fields to display the certificate validation details. You can proceed with the selected certificate even if the validation fails.

Configuring the boot order option
You can configure the boot order of a client system using the bootorder option from the Boot Management category. You can add, remove, enable, disable, or change the boot order of the legacy and Unified Extensible Firmware Interface (UEFI) boot items.

To configure the boot order:

1. **Click the required option:**
    - Create Multiplatform Package
    - Create Local System Package
    - Open a Dell Recommended Package
    - Open a Saved Package

      NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and then click Open.
2. Click Edit , or double-click the option.
3. In the bootorder option row, click View/Change in the Value to set column. The boot order screen is displayed with the current boot order type and boot order options. For more information, see Configure boot order.
    - To create a multiplatform package, you can add devices.
    - To create a local system package and to open a saved package, you can add devices and edit the

existing boot order, if present.

NOTE: Use the arrow buttons at the bottom of the Boot Order screen to change the boot order of the devices.

4. Click OK to save the configuration, or click CLOSE to discard the changes and close the Boot Order screen.
5. To apply the modifications, export the configuration in, ini or .exe format. See, Exporting the BIOS configuration.

Related Links:

- Adding a new device to the boot order
- Boot order type

Boot order screen

The following table displays the available options on the Dell Command | Configure – Boot Order screen.

Table 4. Options on the boot order screen

Options	Description
Active Boot List	You can configure or modify the **Active Boot List** for UEFI or Legacy based on the requirement. If the active boot list is **ON**, and then the system boots with UEFI or Legacy based on the boot order type. **NOTE:** In **Local System Package**, you cannot modify **Active Boot List** if the system supports only UEFI.
Device Type	Displays the type of device.
Device Instance	Displays a unique number to identify the device on the system.
Shortform	Displays the short form of the device name. If the system has many devices of the same device type, and then the short form of the device is displayed with a .<number> notation. For example, if the system has an internal hard drive, eSATA HDD, and eSATA Dock HDD, and then the short forms are displayed as hdd.1, hdd.2, and hdd.3 respectively.
Description	Displays a short description for the device.
Status	Displays if the device is turned on or off.
Delete	Removes the device from the boot order. Click **X** to remove a device. **NOTE:** You can view this option if the boot order screen is in **Edit** mode.

Adding a new device to the boot order

To add a new device to the boot order:

1. Click Add Device on the Boot Order screen.
2. Select the device from the Device Type drop-down list. The Shortform, Description, and Status fields are automatically populated. By default, the Status of the device is On.
3. Select an instance for the device from the Device Instance drop-down list.
4. Click OK.

NOTE: If you select the same Device Type and Device Instance in the Boot Order Type for UEFI or Legacy, and then the following warning message “Remove the duplicate entry from the input list.” is displayed.

Boot order type
The boot order type displays the type of the loaded configuration. The two types of boot order are Legacy and UEFI. If the host system file is loaded, and then it displays the currently active boot order type. If a saved file is loaded, and then it displays the boot order type that is saved in the file.

The common scenarios for boot order type are:

- If boot order type is not specified in the file and if any UEFI devices are present on the system, and then the system displays the boot order type as UEFI.
- If the boot order type is not specified in the file and if any legacy devices (other than hdd) are present on the system, and then the system displays the boot order type as Legacy.
- If the boot order type is not specified and the loaded configuration file has only hdd items, and then the system prompts the user to select the boot order type.
- If the boot order type is not specified for a legacy system and if both UEFI and legacy devices are present, and then the system displays a warning message and removes the legacy or UEFI devices depending on the order of occurrence of the device.

Configuring the primarybatterycfg option
NOTE: The Primarybatterycfg option is not compatible with ARM64-bit systems. You can configure the primary battery charging mode using the primary battery option from the Power and Performance Management category.

To configure the primary battery charging option:

1. **Click the required option:**
    - Create Multiplatform Package
    - Create Local System Package
    - Open a Dell-Recommended Package
    - Open a Saved Package

      NOTE: To open a saved package click Open a Saved Package, browse to the file location and then click Open.
2. Click Edit, or double-click the option.
3. In the primarybatterycfg option row, click View/Change in the Value to set column. The Primary Battery screen is displayed.
4. Select the mode to charge the battery in the Primary Battery screen.
    - **Standard Charge**—Charges the battery over a longer period of time.
    - **Express Charge**—Charges the battery using the express charging algorithm, Dell’s fast charging technology.
    - **AC Use**—Charges the battery while plugged-in.
    - **Auto Charge—**Charges the battery based on a periodic evaluation of battery usage to deliver the best balance capacity.
    - **Custom Charge**—The battery charging starts and stops based on user settings.

      NOTE: If you have selected Custom Charge, then specify the Start Charging (50 – 95 %) and Stop Charging (55 – 100 %) values.

5. Click OK.
6. To apply the modifications, export the configuration in , ini or .exe format. See, Exporting the BIOS configuration.

Configuring the advbatterychargecfg option
NOTE: The Advbatterychargecfg option is not compatible with ARM64-bit systems.

You can configure the advanced battery charging mode using the advbatterychargecfg option from the Power and Performance Management category. Advanced Battery charge mode uses standard charging algorithm and other methods during nonworking hours to maximize battery health. During working hours, ExpressCharge is used to charge the batteries faster. You can configure the days and the work period during which the battery has to be charged. To enable advanced battery charging, provide the day, start time, and the duration of charging (optimal usage duration).

To configure the advanced battery charging option:

1. **Click the required option:**
   - Create Multiplatform Package
   - Create a Local System Package
   - Open a Dell-Recommended Package
   - Open a Saved Package

     NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and then click Open.
2. Click Edit or double-click the option.
3. In the advbatterychargecfg option row, click View/Change in the Value to set column. The Advanced Battery Settings screen is displayed.
4. **Enable Advanced Battery Charge.**

   NOTE: If advanced battery charge mode is enabled in the BIOS Setup screen, the Enable Advanced Battery Charge is selected by default.
5. Select the day of the week.

   NOTE: To apply the same settings to all the days select the Apply these settings to other days option.
6. In the Beginning of Day drop-down list, select the time at which the advanced charging has to start.
7. In the Work Period drop-down list, select the duration of advanced charging.
8. Click OK.
9. To apply the modifications, export the configuration in, ini or .exe format. See, Exporting the BIOS configuration.

Configuring the peakshiftcfg option
NOTE: The Peakshiftcfg option is not compatible with ARM64-bit systems. You can configure the Peak Shift battery charging mode using the peak shift cfg option from the Power and Performance Management category. Using the Peak Shift configuration, you can minimize the consumption of AC power during the peak power usage period of the day. You can set a start and end time for the Peak Shift period. During this period, the system runs on the battery if the battery charge is above the set battery threshold value. After the Peak Shift period, the system runs on AC power without charging the battery. The system functions normally by using AC power and recharging the battery at the specified Charge Start Time.

To configure the Peak Shift Battery charging option:

1. **Click the required option:**

- Create Multiplatform Package
- Create a Local System Package
- Open a Dell-Recommended Package
- Open a Saved Package

  NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and click Open.

2. Click Edit, or double-click the option.
3. In the peakshiftcfg option row, click View/Change in the Value to set column. The Peak Shift screen is displayed.
4. Enable the peak shift settings option.
5. Select the day of the week.

   NOTE: To apply the same settings to all the days select the Apply these settings to other days option.
6. From the Operate only on battery drop-down list, select the time from when you want the system to operate only on battery.
7. From the Operate only on AC drop-down list, select the time from when you want the system to operate only on AC.
8. From the Resume normal power/charge drop-down list, select the time from when the system has to start using the AC power and recharging the battery.

   NOTE: The system adjusts the value in the drop-down list to meet the following criteria:
   - Operate only on battery time should be less than or equal to the time specified for Operate only on AC.
   - Operate only on battery time and Operate only on AC time should be less than or greater than the Resume normal power/charge time.
9. Click OK.

   NOTE: Select Apply these settings to other days check box to apply the same settings for all days of the week.
10. To apply the modifications, export the configuration in, ini or .exe format. See, Exporting the BIOS configuration.

Password Configuration option
NOTE: The hard disk drive password (hddpwd) is not compatible with ARM64-bit systems.
This feature displays and configures the password rules that are applicable to set SysPwd, SetupPwd, OwnerPwd, and HddPwd.

To configure the password configuration option:

1. **Click the required option:**
   - Create Multiplatform Package
   - Create La ocal System Package
   - Open a DDell-RecommendedPackage
   - Open a Saved Package

     NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and click Open.
2. Click Edit, or double-click the option.
3. In the PasswordConfiguration option row, click View/Change in the Value to set column. The PasswordConfiguration screen is displayed.
4. Enable the Password Configuration settings option.
5. Select Lower Case Character, Upper Case Character, Digit, and Special Character, and then set the minimum

number of characters that are mandatory for the password.

NOTE: If the criteria PwdMinLen >=8, PwdLowerCaseRqd=Enabled, and PwdUpperCaseRqd=Enabled are followed, then StrongPassword is Enabled. If this criteria are not followed, then StrongPassword is Disabled. Vice versa is also applicable.

6. To apply the modifications, export the configuration in, ini or .exe format. See, Exporting the BIOS configuration.

Configuring the keyboard backlight color option

You can configure the keyboard backlight color for the Dell Latitude rugged Extreme systems using the keyboard backlight color option from the System Configuration category. You can enable supported colors, set active colors, and configure customcolor1 and customcolor2.

To configure the keyboard backlight color:

1. **Click the required option:**
   - Create Multiplatform Package
   - Create Local System Package
   - Open a Dell Recommended Package
   - Open a Saved Package

     NOTE: To open a saved package click Open a Saved Package, browse to the file location and then click Open.
2. Click Edit or double-click the option.
3. In the keyboardbacklightcolor option row, click View/Change in the Value to set column. The Keyboard Backlight Color screen is displayed.
4. Select the colors that you want to enable for the keyboard backlight from the list Enable.

   NOTE:
   - You can select and enable multiple colors at a time.
   - If you select None, no color will be enabled. You cannot select other colors if you have selected the option None.
5. Select the color that you want to set as an active color for the keyboard backlight from the list Active.

   NOTE: You can select only one active color for your keyboard backlight at a time.
6. Configure the Red, Green, and Blue (RGB) values if you have selected CustomColor1 or CustomColor2.

   To configure the RGB values for customcolor1 or customcolor2,
   1. Click CHANGE.
   2. Choose the color from the color canvas.
   3. Click Select.
7. Click OK.
8. To apply the modifications, export the configuration in ,ini or .exe format. See, Exporting the BIOS configuration.

Advanced System Management

Advanced System Management (ASM) is a feature that is supported on Dell Precision R7610, T5810 ,T7810, T7910, and later workstations. The feature displays information about voltage, temperature, current, cooling device, and power supply probes. The feature also allows you to set the noncritical upper threshold values of voltage, current, cooling, and temperature probes. Contact the support team for information about system models with this feature.

Setting the non-critical threshold values
NOTE: You can set the critical and non-critical upper threshold values only for voltage, current, cooling and temperature probes.

To set the non-critical threshold values for the probes:

1. **Click the required option:**
    - Create Multiplatform Package
    - Create Local System Package
    - Open a Saved Package

      NOTE: To open a saved package, click Open a Saved Package, browse to the file location, and then click Open.
2. Click Edit, or double-click the option.
3. In the advsm option row, click View/Change in the Value to set column. The Advanced System Management screen is displayed.

   NOTE:
    - If you are setting the non-critical threshold values for Create Local System Package, the columns displayed are: Description, Type, Index, Location, Minimum, Maximum, Critical Upper Threshold, NonCritical Upper Threshold, and Delete. The system displays the details of the available probes. You cannot edit the Type and Index fields of the listed probes.
    - If you are setting the non-critical threshold values for Create Multiplatform System Package, the columns displayed are Type, Index, NonCritical Upper Threshold and Delete. The system does not display any values for the probes. You have to set the values for Index, and NonCritical Upper Threshold fields for each of the selected probes. Set the value of the Index depending on the number of instances of the probes running on the system. The value of the NonCritical Upper Threshold must be within the critical upper threshold range.
4. To set the non-critical threshold values for a new probe, click Add Probe, and then type the values in the required fields.
5. To set the non-critical threshold value for the listed probes, provide the value in the respective column.
6. To delete a probe, click X mark.
7. Click OK.
8. To apply the modifications, export the configuration in ,ini or .exe format. See, Exporting the BIOS configuration.

BIOS option validation
You can validate the options of a BIOS package against the configuration of the host system using the Validate option. You can validate the settings of a multiplatform package, local system package, or a saved package. You can validate all the options except the bootor er, syspwd, and setuppwd options.

Validating a multiplatform package or saved package
To validate the options of a multiplatform or saved package: On the Create Multiplatform Package screen, click Validate.

- If the option and the configured value are supported on the host system, then a green check mark is displayed in the Status column.
- If the option is supported and if the configured value is not supported on the host system, then a red X mark is

displayed in the Status column.

- All unsupported options are greyed out and the Status column remains blank.
- All the supported options on the host system are highlighted and the Status column remains blank with the Value to Set field as Not Specified. Validating a local system package

To validate the options of a local system package:
On the Create Local System Package screen, click Validate.

- All the options that are applicable on the host system are highlighted, and a green check mark is displayed in the Status column.
- All unsupported options are greyed out, and the Status column remains blank.

NOTE: You can configure the supported options on the host system even after you validate the local system package.

Exporting the BIOS configuration
You can export a customized configuration to apply the same settings on a target client system. You can export both supported and unsupported options. You can export certain options (asset and propowntag) without specifying any values.

To export an option:
Select the Apply Settings check box of that option, and then export in any of the following formats:

- **Self-Contained Executable**—Click EXPORT.EXE to export the configuration settings as an SCE (EXE file). For more information, see Setup, system, or hard disk drive passwords screen.
- **Report—**Click Report to export the configuration settings as a read-only HTML file.
- **Configuration file—**Click EXPORT CONFIG to export the configuration settings as a CCTK or INI file.
  NOTE: To display and configure the options on the user interface, double-click the CCTK file.
- **Shell script**—The shell script is generated at the location where the SCE file is exported, and contains the same configuration as that of the SCE file. The shell script is used to configure a system running the Linux operating system.

Exporting the SCE (.EXE) file
Perform the following steps to export the BIOS configuration:

1. Click the EXPORT.EXE option to export the BIOS configuration as an .exe file.
   NOTE: The .exe file that is exported will be saved in an ACL-protected directory that is created during runtime. This safe directory is created as a subdirectory to the path that is selected by the user while exporting.
2. The Setup, System or Hard Disk Drive Password and the Encryption Passphrase screen is displayed prompting you to type a password and an encryption passphrase.
3. The Encryption Passphrase encrypts the data in the SCE Payload.

NOTE:

- Dell Command | Configure uses OpenSSL libraries to encrypt and decrypt the payload data.
- If you do not want to provide an encryption passphrase, then select the No passphrase is required option and

click OK to continue with the Export . EXE option.

- **The encryption passphrase must contain the following:**
  - 10-32 characters
  - 1 uppercase letter
  - 1 lowercase letter
  - 1 special character
  - 1 numeric character

NOTE: If the Show Passphrase option on the Encryption Passphrase screen is not selected, then the passphrase that is provided in the Confirm Passphrase option must match the passphrase that is provided in the Passphrase field to continue with the Export . EXE option.

Depending on the type of password set on the target system, determine which password to provide based on the table below:

Settings you want to configure	Passwords set on the target system
	Setup Password
BIOS Tokens/features	Setup Password
Setup Password	Setup Password
System Password	Setup Password
Hard Disk Drive Password	Setup Password

Figure 1. Password Reference Table

For example,

- If the setup password is set in the system, and you want to configure BIOS tokens/features, you must provide a setup password.
- If the setup and system passwords are set in the system, and you want to configure BIOS tokens or features, you must provide a setup password.
- If the setup and system passwords are set in the system, and if you want to configure BIOS tokens/features as well as change system password, you must provide both system and setup passwords.
- If the setup, system and hard disk drive passwords are set in the system, and if you want to configure BIOS tokens/features as well as change hard disk drive password, you must provide both setup and hard disk drive passwords.
  1. Provide the appropriate passwords in order to be able to configure the desired settings.
     - To provide a setup password, click Setup Password, then select the Use the password information below option, and then type the setup password.
     - To provide a system password, click System Password, then select the Use the password information below option and type the system password.
     - To provide a hard disk drive password, click Hard Disk Drive Password, then select the Use the password information below option and type the hard disk drive password.
  2. If the target system does not have a setup, system, or hard disk drive password, then select No password

is required.

3. The following warning message By exporting this BIOS configuration, your system, setup and hdd passwords will no longer be secure. If you would like to proceed with your passwords displayed in clear text, select Contonue. If you want to hide your passwords, select Mask is displayed. Click MASK to protect your password, else click Continue.
4. Click OK.

NOTE:

- SCE can be generated on a non-WMI-ACPI system using multisystem package.
- Windows 64-bit systems generate 64-bit and 32-bit SCEs, while windows ARM64-bit systems generate ARM64- bit SCE.
- The hard disk drive password (hddpwd) is not compatible with ARM64-bit systems.

Exporting the configuration without setting values
To export asset and propowntag without specifying changes to values: Select the Apply Settings check box of the corresponding option and export.

Target system configuration
You can apply the exported INI, CCTK, SCE, and shell script files to configure the target client systems.

Applying INI or CCTK file
The prerequisites for applying INI file or CCTK file are as follows:

- Administrator privileges
- Dell Command | Configure installed on the client system

To apply INI file or CCTK file, run cctk -i <filename>.

NOTE: For systems running Ubuntu Core operating system, copy the file at var/snap/dcc/current and run, dcc.cctk -i /var/snap/dcc/current/<filename>.ini

Applying a shell script on Linux

1. Copy the script and INI file to a system running the Linux operation system.
2. Run dos2unix on the system.
3. Run the script as: sh <filename.sh> Applying a SCE file

NOTE: You must have Administrator privileges.

To apply SCE on a target computer, double-click the SCE, or from the command prompt, go to the directory where SCE is located and type the name of the SCE file. For example, C:\Users\SystemName\Documents>”<filename>”

Important Notes

- You cannot run SCE on Windows PE computers. For more information about applying SCE on target computers running the Windows PE operating systems, see Troubleshooting.

- The generated SCE file does not work on non-WMI-ACPI computer.
- You must have admin privileges to access the directory where SCE is exported.
- If you have configured an Encryption Passphrase while exporting the SCE, then the SCE can only be applied through the command prompt. For more information, see SCE details section.
- For computers running Windows 11 with Smart App Control enabled, there may be issues with applying the SCE file. To avoid the issues, digitally sign the generated SCE files before applying them.

SCE details
Some of the common scenarios in which you might use SCE are:

- When you apply SCE on a target system, it performs a silent installation for the BIOS settings on the target system. When the installation is complete, SCE generates a log file with the SCE name at the same location. The log file contains all the applied options and the status of the SCE file.
  NOTE: To generate the log file in the required location, specify the location of the log file. For example, SCE.exe / l=”<folder_path>\log.txt”.
- When you apply SCE on a target system from a read-only location, provide the /nolog option to prevent generation of the log file. For example, SCE.exe /nolog. The /nolog option helps the SCE to run successfully and informs that a log file is not created as SCE is in a read-only location.
- If you run SCE from a read-only location without providing /nolog, then SCE fails to run.
- To apply SCE on Windows PE, extract SCE from a system running the Window operating system using the /e option. For example, SCE.exe /s /e=<folder_path_to_extract_SCE>.
- If you have configured a setup or system password on the target system, and while exporting SCE, if you have not provided the same password in the Setup, System, or Hard Disk Drive Password screen, then you cannot double-click and apply SCE on the target system. However, while applying SCE from the command prompt, you can provide the setup or system password of the target system.
- If you have configured an Encryption Passphrase while exporting the SCE, then provide the same Encryption Passphrase while applying the SCE through the command prompt.

NOTE:

- **Example of providing the Encryption Passphrase:** C:\Windows\Command Configure\SCE>”<filename>” –passphrase = <EncryptionPassphrase string>
- **Example of providing the setup password:** C:\Windows\Command Configure\SCE>”<filename>” —valsetuppwd= <password string>
- **Example of providing the system password:** C:\Windows\Command Configure\SCE>”<filename>” —valsyspwd= <password string>

Related Links:

- Exporting the BIOS configuration
- Exporting the configuration without setting values

Log details in Package History
You can view the details of the BIOS configuration exports in the Package History screen. The Package History displays the details such as time, date, type of export, and the location to which the file is exported.

Related Links:

- Viewing a log file
- Deleting log details

Viewing a log file
Click Package History, on the Dell Command | Configure page.

Deleting log details
On the Package History page, click the Clear Log.

Providing feedback on Dell Command | Configure
You can provide feedback on the Dell Command | Configure using the link on Dell Command | Configure GUI.

1. Click the Give us your feedback link to launch the online survey page.
2. Provide your feedback and satisfactory ratings.
3. Click Submit to share it with Dell.

Troubleshooting scenarios in Dell Command | Configure 4.12.0

Running Dell Command | Configure displays error messages

- If you get the error message Required BIOS interface not found or HAPI load error, then uninstall and reinstall the Hardware Application Programming Interface (HAPI).

Running Dell Command | Configure on 32-bit, 64-bit, and ARM64-bit Windows supported system
Ensure that you are running cctk.exe based on the architecture of the system. If you are running Dell Command | Configure on a 32-bit supported system, browse to the x86 directory in the installation directory, and run Dell Command | Configure commands. If you are running cctk.exe on a 64-bit supported system, then browse to the x86_64 directory and run the Dell Command | Configure commands.

- If you are running cctk.exe on an ARM64-bit supported system, then browse to the ARM64 directory and run the Dell Command | Configure commands.
- If you are running Dell Command | Configure for 32-bit supported systems on a 64-bit supported system, then an error message is displayed: HAPI Driver Load Error.
- If you are running Dell Command | Configure for 64-bit supported systems on a 32-bit supported system, then an error message is displayed: Not a valid Win32 application.
- If you are running Dell Command | Configure for ARM64-bit supported systems on a 64-bit or 32-bit supported system, then an error message is displayed. The error message has the wording The specified executable is not a valid application for this OS platform.

Running Dell Command | Configure on Windows 7, Windows 8, Windows 8.1, or Windows 10 when user account control is enabled
To run Dell Command | Configure on systems running Windows 7 or later with User Account Control (UAC) enabled, right-click the Dell Command | Configure Command Prompt and select Run as administrator.

NOTE: On a Windows 7, Windows 8, or Windows 8.1, if UAC is enabled, and then a user with Administrator privileges cannot install or uninstall Dell Command | Configure in silent mode. Ensure that you have an

administrative privilege before installing Dell Command | Configure in silent mode.

Running Dell Command | Configure on Linux
When you install Dell Command | Configure on a system running the Linux operating system, the entry, modprobe dcdbas, is added in the /etc/rc.modules file. After uninstalling Dell Command | Configure, the entry is not removed.

TPM activation
Trusted Platform Module (TPM) is an industry standard cryptographic module that provides attestation, integrity metrics and reporting, and a secure key hierarchy. Client systems use TPM to verify if the state of the system has changed between two boot cycles.

To activate and check the TPM activation:

1. If not set, set the BIOS password on the system. Type: cctk –setuppwd=<new-BIOS-password>
2. If not enabled, enable TPM by typing the following command: cctk –tpm=on
3. Reboot the system.
4. To activate TPM, type the following command: cctk –tpmactivation=activate –valsetuppwd=<Setuppwd>
5. Reboot the system without interruption till the operating system loads.
6. To check the status of TPM, type: cctk –TPM activation The status is displayed as activate.

NOTE:

- If TPM does not support the system, then the following error message is displayed:
- The option TpmActivation is not available or cannot be configured through this tool.

SCE failing to run on Windows Preinstallation Environment (Windows PE)
The SCE generated using the Export option on the user interface is failing to run on Windows PE. To configure BIOS using SCE, on the target system running the Windows PE operating systems:

1. On systems running Windows operating systems, extract the contents of SCE to a folder using the following command: SCE.exe /s /e=<folder_path_to_extract_SCE>
   NOTE: For more information about using the command, use /h switch.
2. Copy the extracted contents to an accessible location on the system.
3. From the location of the extracted contents, run the following command to apply the configuration: applyconfig.bat /logfile <A valid and existing folder with write permission>\<A valid file name> For example, applyconfig.bat /logfile C:\log.txt
   To apply the configuration on a system, where setup or system password has been set, run the following command: applyconfig.bat /logfile <A valid and existing folder with write permission>\<A valid file name> “–valsetuppwd= <setup password>”
   - Example 1: applyconfig.bat /logfile C:\log.txt “–valsetuppwd=password”
   - Example 2: applyconfig.bat /logfile C:\log.txt “–valsyspwd=password”

Topics:
Contacting Dell

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.

FAQ

Q: Is Dell Command | Configure compatible with ARM64-bit systems?
A: No, Dell Command | Configure 4.12.0 for Windows Preinstallation Environment is not compatible with ARM64-bit systems.

Q: Where can I find additional documentation for Dell Command | Configure?
A: You can access the Installation Guide, Command Line Interface Reference Guide, and Release Notes on **dell.com/support** under Client Systems Management.

Documents / Resources

	DELL 4.12.0 Command Configure [pdf] User Guide 4.12.0 Command Configure, 4.12.0, Command Configure, Configure

References

- **downloads.dell.com/catalog/DellCommandConfigureCatalog.cab**
- **filename.sh**
- **User Manual**

Manuals+, **Privacy Policy**

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