

Dell Command | Update

Version 4.x Reference Guide



Notes, cautions, and warnings

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

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

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

Contents

Chapter 1: Dell Command Update	4
Chapter 2: Dell Command Update command-line interface	5
Dell Command Update CLI commands.....	5
Command Line Interface Error codes.....	14
Chapter 3: Accessing documents from the Dell EMC support site	18

Dell Command | Update

Dell Command | Update is a one-to-one standalone utility that enables a simplified process to manage updates for Dell client systems. With Dell Command | Update, devices can stay-up-to-date and secure with the latest drivers, BIOS, firmware, and applications.

Dell Command | Update provides:

- An easy-to-use UI, which helps to identify, apply, and schedule the required updates for client systems.
- An easy-to-use CLI, which can be used to automate driver installations and updates.

You can find other product guides and third-party licenses documents for your reference at dell.com/support.

Dell Command | Update command-line interface

Dell Command | Update provides a command-line version of the application which can be used for batch and scripting setups.

The CLI enables administrators to use an automated remote deployment infrastructure for updates. It provides basic options with no interactive user prompts, and does not include all the features that can be performed using the Graphical User Interface (user interface) version of Dell Command | Update.

To run the CLI: Launch the command prompt as an **Administrator**, then go to **%PROGRAMFILES%\Dell\CommandUpdate** and run the `dcu-cli.exe` command in the command prompt.

To view additional information about the commands and options available in Dell Command | Update: Run `dcu-cli.exe / help`.

NOTE: If some updates require a restart to complete the installation, the system does not restart automatically. Some updates cannot be installed unless the power adapter is plugged into the system.

For more information about command-line interface for Dell Command | Update, see **Dell Command | Update Version 4.x Reference Guide**.

Topics:

- [Dell Command | Update CLI commands](#)
- [Command Line Interface Error codes](#)

Dell Command | Update CLI commands

This section provides information about the CLI commands available in Dell Command | Update.

The CLI syntax is as follows:

```
<command> -option1=value1 -option2=value2 -option3=value3...
```

NOTE: When entering the command, ensure that you do not enter a space after the forward slash.

NOTE: If the files or folder paths contain spaces, then use double quotes for the option values.

Table 1. Dell Command | Update CLI Commands

CLI options	Description	Syntax	Supported Options
/help or -help	Displays usage information. NOTE: Any other command that is specified with this command is ignored.	<code>dcu-cli.exe /help</code>	Not Applicable
/?	Displays usage information. NOTE: Any other command that is specified with this command is ignored.	<code>dcu-cli.exe /?</code>	Not Applicable
-?	Displays usage information. NOTE: Any other command that is specified with this command is ignored.	<code>dcu-cli.exe -?</code>	Not Applicable

Table 1. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options
/version	Displays the Dell Command Update version. <i>i</i> NOTE: Any other command that is specified with this command is ignored.	dcu-cli.exe / version	Not Applicable
/configure	Allows configuration of Dell Command Update based on settings that are provided in the supported options. <i>i</i> NOTE: Options that passed here are persistent, available through the life of the application on the system.	dcu-cli.exe / configure - <option>=<value> Examples: dcu-cli.exe / configure - userConsent=disable	-importSettings -exportSettings -lockSettings - advancedDriverRe store - driverLibraryLoc ation -catalogLocation - downloadLocation -updateSeverity -updateType - updateDeviceCate gory -userConsent -biosPassword -customProxy - proxyAuthenticat ion -proxyHost -proxyPort -proxyUserName -proxyPassword -scheduleWeekly -scheduleMonthly -scheduleManual -scheduleAuto -scheduleAction -scheduledReboot -silent -outputLog -restoreDefaults - autoSuspendBitLo cker

Table 1. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options
			<p>Mutually exclusive options</p> <p>These options cannot be used with the specific commands that are listed below:</p> <ul style="list-style-type: none"> -importSettings, -exportSettings, -lockSettings. <p>i NOTE: This option cannot be used with any other options except -outputLog and -silent</p> <ul style="list-style-type: none"> -scheduleAuto, -scheduleManual, -scheduleMonthly, -scheduleWeekly
/scan	<p>Performs a system scan to determine the updates for the current system configuration.</p> <p>i NOTE: Options passed for this command run only once. If no options are specified with this command, the Command Line Interface uses the existing application settings to process this command.</p>	<pre>dcu-cli.exe /scan - <option>=<value> Ex: dcu-cli.exe / scan dcu-cli.exe /scan dcu-cli.exe /scan - updateType=bios,fir mware dcu-cli.exe /scan - updateSeverity=secu rity, recommended</pre>	<ul style="list-style-type: none"> -silent -outputLog -updateSeverity -updateType -updateDeviceCate gory -catalogLocation -report
/applyUpdates	<p>Applies all updates for the current system configuration.</p> <p>i NOTE: Options passed for this command run only once. If no options are specified with this command, the Command Line Interface uses the existing application settings to process this command.</p>	<pre>dcu-cli.exe / applyUpdates - <option>=<value> Ex: dcu-cli.exe / applyUpdates dcu-cli.exe / applyUpdates - silent dcu-cli.exe / applyUpdates - updateType=bios,fir mware</pre>	<ul style="list-style-type: none"> -silent -outputLog -updateSeverity -updateType -updateDeviceCate gory -catalogLocation -reboot -encryptedPasswor d -encryptedPasswor dFile -encryptionKey

Table 1. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options
			- autoSuspendBitLocker Mandatory options: These options are required to be provided with the specific commands listed below: - encryptedPassword and - encryptionKey - encryptedPasswordFile and - encryptionKey
/driverInstall	This CLI option installs all the base drivers for the present configuration on a newly installed Windows operating system. NOTE: Options passed for this command run only once. If no options are specified with this command, the command line interface uses the existing application settings to process this command.	dcu-cli.exe / driverInstall - <option>=<value> Ex: dcu-cli.exe / driverInstall dcu-cli.exe / driverInstall - silent	- driverLibraryLocation -silent -outputLog -reboot
/ generateEncryptedPassword	Generates an encrypted BIOS password.	dcu-cli.exe / generateEncryptedPassword -encryptionKey=<inline value> dcu-cli.exe / generateEncryptedPassword -password=<inline value> - outputPath=< folder spath >	-password -outputPath -encryptionKey Mandatory options: These options are required to be provided with the specific commands listed below: -password and - encryptionKey

Table 2. Dell Command | Update CLI Options

CLI options	Description	Syntax	Expected values
- advancedDriverRestore	Allows the user to enable or disable the Advanced Driver Restore feature in the UI.	dcu-cli.exe /configure - advancedDriverRestore=disable	<enable disable>
- autoSuspendBitLocker	Allows the user to enable or disable the automatic suspension of BitLocker, when applying BIOS updates..	dcu-cli.exe /configure - autoSuspendBitLocker=disable	<enable disable>
-biosPassword	Allows the user to provide the unencrypted BIOS password.	dcu-cli.exe /configure - biosPassword="Test1234"	<password "">

Table 2. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	The password is cleared if a password is not provided or "" is supplied. (i) NOTE: The value must be enclosed in double quotes.		
-catalogLocation	Allows the user to set the repository/catalog file location. If used with /applyUpdates, only one path may be specified.	dcu-cli.exe /configure - catalogLocation=C:\catalog.xml	One or more catalog file paths.
-customProxy	Allows the user to enable or disable the use of custom proxy. (i) NOTE: Setting this option to enable will cause validation of all custom proxy settings.	dcu-cli.exe /configure - customProxy=enable	<enable disable>
-defaultSourceLocation	Allows the user to enable or disable the fallback to the default source location. (i) NOTE: Setting this option to enable, the Dell Command Update application installs the updates from the Default Source Location if the other source locations selected fails to update . (i) NOTE: Setting this option to disable the Dell Command Update application will not install the updates from the Default Source Location. (i) NOTE: To disable this option at least one source location should be provided.	dcu-cli.exe /configure - defaultSourceLocation=disable	<enable disable>
-downloadLocation	Allows the user to specify the location to override the default application download path.	dcu-cli.exe /configure - downloadLocation=C:\Temp\AppDownload	A folder path
-driverLibraryLocation	Allows the user to set the system driver catalog location. If this option is not specified, the driver library shall be downloaded from Dell.com.	dcu-cli.exe /configure - driverLibraryLocation=C:\Temp\DriverLibrary.cab	A file path with .cab extension

Table 2. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	<p>i NOTE: This command requires functional networking components.</p>		
-encryptionKey	<p>Allows the user to specify the encryption key that is used to encrypt the password.</p> <p>i NOTE: The key that is provided must be at least six nonwhitespace characters and include an uppercase letter, a lowercase letter, and a digit. Also, this value must be enclosed in double quotes.</p>	<pre>dcu-cli /applyUpdates - encryptedPassword="myEncryptedPassword" - encryptionKey="myEncryptionKey" dcu-cli / generateEncryptedPassword - encryptionKey="myEncryptionKey" -password="myPassword" - outputPath=C:\Temp</pre>	<encryption key>
-encryptedPassword	<p>Allows the user to pass the encrypted password inline along with the encryption key that was used to generate it.</p> <p>i NOTE: -encryptionKey is required to be specified along with this option. Also, this value must be enclosed in double quotes.</p>	<pre>dcu-cli /applyUpdates - encryptedPassword="myEncryptedPassword" - encryptionKey="myEncryptionKey"</pre>	<encrypted password>
-encryptedPasswordFile	<p>Allows the user to pass the encrypted password by file.</p> <p>i NOTE: -encryptionKey is required to be specified along with this option.</p>	<pre>dcu-cli /applyUpdates - encryptedPasswordFile=C:\Temp\EncryptedPasswordFile.txt - encryptionKey="myEncryptionKey"</pre>	A file path with extension .txt
-exportSettings	<p>Allows the user to export application settings to the specified folder path.</p> <p>i NOTE: This option cannot be used with any other options except -outputLog and -silent.</p>	<pre>dcu-cli.exe /configure - exportSettings=C:\Temp</pre>	A folder path
-importSettings	<p>Allows the user to import application settings file.</p> <p>i NOTE: This option cannot be used with any other options except -outputLog and -silent.</p>	<pre>dcu-cli.exe /configure - importSettings=C:\Temp\Settings.xml</pre>	An .xml file path
-lockSettings	<p>Allows the user to lock all the settings in the UI.</p> <p>i NOTE: This option cannot be used with any other options except -outputLog and -silent.</p>	<pre>dcu-cli.exe /configure - lockSettings=enable</pre>	<enable disable>

Table 2. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
-outputLog	Allows the user to log the status and progress information of a command execution in a given log path.	dcu-cli.exe /scan -outputLog=C:\Temp\ \scanOutput.log	A file path, with .log extension
-outputPath	Allows the user to specify the folder path to which encrypted password file is saved.	dcu-cli.exe /generateEncryptedPassword -encryptionKey="myEncryptionKey" -password="myPassword" -outputPath=C:\Temp	A folder path
-password	Allows the user to specify the password to be encrypted. i NOTE: encryptionKey is required to be specified along with this option. Also, this value must be enclosed in double quotes.	dcu-cli.exe /generateEncryptedPassword -encryptionKey="myEncryptionKey" -password="myPassword"	password
-proxyAuthentication	Allows the user to enable or disable the authentication. i NOTE: Changing this option causes validation of all custom proxy settings.	dcu-cli.exe /configure -proxyAuthentication=enable	<enable disable>
-proxyHost	Allows the user to specify the proxy host. Providing an empty string as the value to this option clears the proxy host. i NOTE: Changing this option causes validation of all custom proxy settings.	dcu-cli.exe /configure -proxyHost=proxy.com	<FQDN IP address ""> Fully Qualified Domain Name (FQDN)
-proxyPassword	Allows the user to specify the proxy password. Providing an empty string as the value to this option clears the proxy password. i NOTE: Changing this option causes validation of all custom proxy settings. The value must be enclosed in double quotes.	dcu-cli.exe /configure -proxyPassword="my password"	<password "">
-proxyPort	Allows the user to specify the proxy port. Providing an empty string as the value to this option clears the proxy port. i NOTE: Changing this option causes validation of all custom proxy settings.	dcu-cli.exe /configure -proxyPort=8080	<port number "">
-proxyUserName	Allows the user to specify the proxy username. Providing an empty string as the value to this option clears the proxy username.	dcu-cli.exe /configure -proxyUserName="john doe"	<user name "">

Table 2. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	<p>i NOTE: Changing this option causes validation of all custom proxy settings.</p>		
-reboot	Reboot the system automatically.	dcu-cli.exe /applyUpdates -reboot=enable	<enable disable>
-report	Allows the user to create an XML report of the applicable updates.	dcu-cli.exe /scan -report=C:\Temp\UpdatesReport.xml	An .xml file path
-restoreDefaults	Allows the user to restore default settings.	dcu-cli.exe /configure -restoreDefaults	None
-scheduleAction	Allows the user to specify the action to perform when updates are found.	dcu-cli.exe /configure -scheduleAction=NotifyAvailableUpdates	<NotifyAvailableUpdates DownloadAndNotify DownloadInstallAndNotify>
-scheduleAuto	<p>Allows the user to enable the default automatic update schedule.</p> <p>i NOTE: Automatic updates runs every three days. Also, this option cannot be used with.</p> <p>-scheduleManual -scheduleWeekly -scheduleMonthly</p>	dcu-cli.exe /configure -scheduleAuto	None
-scheduleManual	<p>Allows the user to disable the automatic schedule and enable only manual updates.</p> <p>i NOTE: This option cannot be used with:</p> <p>-scheduleAuto -scheduleWeekly -scheduleMonthly</p>	dcu-cli.exe /configure -scheduleManual	None
-scheduleMonthly	<p>Allows the user to specify the day of the month and time on which to schedule an update. If the scheduled day is greater than the last day of the month, the update is performed on the last day of that month.</p> <p>i NOTE: This option cannot be used with</p> <p>-scheduleManual -scheduleAuto -scheduleWeekly</p>	dcu-cli.exe /configure -scheduleMonthly=28,00:45	Date of month[1-31],time[00:00(24 hr format, 15 minutes increment)]
-scheduleReboot	Allows the user to schedule a reboot time, in minutes, after the updates are applied.	dcu-cli.exe /configure -scheduleReboot=5	<5 15 30 60>

Table 2. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
-scheduleWeekly	Allows the user to specify the day of the week and time to schedule an update. i NOTE: This option cannot be used with: -scheduleManual -scheduleAuto -scheduleMonthly	dcu-cli.exe /configure -scheduleWeekly=Mon,23:45	day[< Sun Mon Tue Wed Thu Fri Sat >],time[00:00(24 hr format, 15 minutes increment)]
-silent	Allows the user to hide status and progress information about the console.	dcu-cli.exe /scan -silent	None
-updateDeviceCategory	Allows the user to filter updates based on device type. i NOTE: Filters are not applicable for Dell Docking Solution updates.	dcu-cli.exe /configure -updateDeviceCategory=network,storage	[audio, video, network, storage, input, chipset, and others]
-updateSeverity	Allows the user to filter updates based on severity. i NOTE: Filters are not applicable for Dell Docking Solution updates.	dcu-cli.exe /configure -updateSeverity=recommended,optional	[security, critical, recommended, and optional]
-updateType	Allows the user to filter updates based on update type. i NOTE: Filters are not applicable for Dell Docking Solution updates.	dcu-cli.exe /configure -updateType=bios	[bios, firmware, driver, apps, and others]
-userConsent	Allows the user to opt in or out to send information to Dell regarding the update experience.	dcu-cli.exe /configure -userConsent=disable	<enable disable>

If BitLocker is enabled, the following applies:

- When -autoSuspendBitLocker is set to **enable**, and a BIOS update is available, the BIOS update is installed while the BitLocker is suspended during the installation process. After the BIOS and other updates are installed, the system will automatically reboot to complete the BIOS update, and the BitLocker is reenabled. The following warning message is displayed before applying the updates:

Warning: If the BIOS update is selected, and the BitLocker is enabled on this system, the BitLocker is suspended temporarily during the installation time to effectively apply the BIOS update. After the BIOS and other updates are applied, the system automatically reboots to complete the BIOS update, and the BitLocker is reenabled.

- When -autoSuspendBitLocker is set to **disable**, the CLI removes the BIOS updates from the applicable updates and installs the rest of the updates. The following warning message is displayed:

Warning: One or more available updates will be skipped, as installing these updates may cause the system to become locked by BitLocker. To avoid this situation, enable BitLocker suspension and run again to install these updates.

i **NOTE:** The folders that are listed below are reserved for system use and are restricted for user level access:

- C:\WINDOWS

- C:\Program Files
- C:\Program Files (x86)
- C:\Users\Public

NOTE: The subfolders **Microsoft** and **Windows** under the following system folders are restricted for user level access.

- C:\Users\\AppData\Roaming
- C:\Users\\AppData\Local
- C:\Users\

The above folder restrictions apply to the following options: -report, -outputLog, -outputPath, -encryptedPasswordFile, and -exportSettings.

NOTE: Application logs—files with extension **.log** can be stored under C:\ProgramData\Dell.

NOTE: Extended length UNC path is not allowed if the UNC path is used as a part of driver library or catalog location.

Command Line Interface Error codes

Table 3. Generic application return codes

Return\Error Codes	Description	Resolution
0	Command execution was successful.	None
1	A reboot was required from the execution of an operation.	Reboot the system to complete the operation.
2	An unknown application error has occurred.	None
3	The current system manufacturer is not Dell.	Dell Command Update can only be run on Dell systems.
4	The CLI was not launched with administrative privilege.	Invoke the Dell Command Update CLI with administrative privileges.
5	A reboot was pending from a previous operation.	Reboot the system to complete the operation.
6	Another instance of the same application (UI or CLI) is already running.	Close any running instance of Dell Command Update UI or CLI and retry the operation.
7	The application does not support the current system model.	Contact your administrator if the current system model is not supported by the catalog.
8	No update filters have been applied or configured.	Supply at least one update filter.

Table 4. Return codes while evaluating various input validations

Return\Error Codes	Description	Resolution
100	While evaluating the command line parameters, no parameters were detected.	A command must be specified on the command line.
101	While evaluating the command line parameters, no commands were detected.	Provide a valid command and options. See Command line interface reference section, for more information.
102	While evaluating the command line parameters, invalid commands were detected.	Provide a command along with the supported options for that command. See Command line interface reference section, for more information.

Table 4. Return codes while evaluating various input validations (continued)

Return\Error Codes	Description	Resolution
103	While evaluating the command line parameters, duplicate commands were detected.	Remove any duplicate commands and rerun the command. See Command line interface reference section, for more information.
104	While evaluating the command line parameters, the command syntax was incorrect.	Ensure that you follow the command syntax: /<command name>. See Command line interface reference section, for more information.
105	While evaluating the command line parameters, the option syntax was incorrect.	Ensure that you follow the option syntax: -<option name>. See Command line interface reference section, for more information.
106	While evaluating the command line parameters, invalid options were detected.	Ensure to provide all required or only supported options. See Command line interface reference section, for more information.
107	While evaluating the command line parameters, one or more values provided to the specific option was invalid.	Provide an acceptable value. See Command line interface reference section, for more information.
108	While evaluating the command line parameters, all mandatory options were not detected.	If a command requires mandatory options to run, provide them. See Command line interface reference section, for more information.
109	While evaluating the command line parameters, invalid combination of options were detected.	Remove any mutually exclusive options and rerun the command. See Command line interface reference section, for more information.
110	While evaluating the command line parameters, multiple commands were detected.	Except for /help and /version, only one command can be specified in the command line.
111	While evaluating the command line parameters, duplicate options were detected.	Remove any duplicate options and rerun the command. See Command line interface reference section, for more information.
112	An invalid catalog was detected.	Ensure that the file path provided exists, has a valid extension type, is a valid SMB, UNC, or URL, does not have invalid characters, does not exceed 255 characters and has required permissions. See Command line interface reference section, for more information.

Table 5. Return codes while running the /scan command

Return\Error Codes	Description	Resolution
500	No updates were found for the system when a scan operation was performed.	The system is up to date or no updates were found for the provided filters. Modify the filters and rerun the commands.
501	An error occurred while determining the available updates for the system, when a scan operation was performed.	Retry the operation.

Table 5. Return codes while running the /scan command (continued)

Return\Error Codes	Description	Resolution
502	The cancellation was initiated, Hence, the scan operation is canceled.	Retry the operation.
503	An error occurred while downloading a file during the scan operation.	Check your network connection, ensure there is Internet connectivity and Retry the command.

Table 6. Return codes while running the /applyUpdates command

Return\Error Codes	Description	Resolution
1000	An error occurred when retrieving the result of the apply updates operation.	Retry the operation.
1001	The cancellation was initiated, Hence, the apply updates operation is canceled.	Retry the operation.
1002	An error occurred while downloading a file during the apply updates operation.	Check your network connection, ensure there is Internet connectivity, and retry the command.

Table 7. Return codes while running the /configure command

Return\Error Codes	Description	Resolution
1505	An error occurred while exporting the application settings.	Verify that the folder exists or have permissions to write to the folder.
1506	An error occurred while importing the application settings.	Verify that the imported file is valid.

Table 8. Return codes while running the /driverInstall command

Return\Error Codes	Description	Resolution
2000	An error occurred when retrieving the result of the Advanced Driver Restore operation.	Retry the operation.
2001	The Advanced Driver Restore process failed.	Retry the operation.
2002	Multiple driver CABs were provided for the Advanced Driver Restore operation.	Ensure that you provide only one driver CAB file.
2003	An invalid path for the driver CAB was provided as in input for the driver install command.	Ensure that the file path provided exists, has a valid extension type, is a valid SMB, UNC, or URL, does not have invalid characters, does not exceed 255 characters and has required permissions. See Command line interface reference section, for more information.
2004	The cancellation was initiated, Hence, the driver install operation is canceled.	Retry the operation.
2005	An error occurred while downloading a file during the driver install operation.	Check your network connection, ensure there is Internet connectivity, and retry the command.
2006	Indicates that the Advanced Driver Restore feature is disabled.	Enable the feature using <code>/configure -advancedDriverRestore=enable</code>
2007	Indicates that the Advanced Diver Restore feature is not supported.	Disable FIPS mode on the system.

Table 9. Return codes while evaluating the inputs for password encryption

Return\Error Codes	Description	Resolution
2500	An error occurred while encrypting the password during the generate encrypted password operation.	Retry the operation.
2501	An error occurred while encrypting the password with the encryption key provided.	Provide a valid encryption key and Retry the operation. See Command line interface reference section, for more information.
2502	The encrypted password provided does not match the current encryption method.	The provided encrypted password used an older encryption method. Reencrypt the password.

Table 10. Return codes if there are issues with the Dell Client Management Service

Return\Error Codes	Description	Resolution
3000	The Dell Client Management Service is not running.	Start the Dell Client Management Service in the Windows services if stopped.
3001	The Dell Client Management Service is not installed.	Download and install the Dell Client Management Service from the Dell support site.
3002	The Dell Client Management Service is disabled.	Enable the Dell Client Management Service from Windows services if disabled.
3003	The Dell Client Management Service is busy.	Wait until the service is available to process new requests.
3004	The Dell Client Management Service has initiated a self-update install of the application.	Wait until the service is available to process new requests.
3005	The Dell Client Management Service is installing pending updates.	Wait until the service is available to process new requests.

Accessing documents from the Dell EMC support site

You can access the required documents by selecting your product.

1. Go to www.dell.com/manuals.
2. Click **Browse all products**, click **Software**, and then click [Client Systems Management](#).
3. To view the required documents, click the required product name and version number.