Dell Command | Update

Version 3.1 User's Guide

Notes, cautions, and warnings

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

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

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

Contents

Dell Command | Update Overview

Dell Command | Update is one-to-one standalone utility that enables you to update Dell client systems with the latest drivers, BIOS, applications, and firmware. The benefits of using Dell Command | Update are:

- Simplifies system management and the update process for Dell client systems.
- An easy-to-use CLI, which can be used for automating driver installation and updates.
- An easy-to-use GUI, which helps to identify and apply the appropriate updates for the system.

You can find the other product guides for your reference at **dell.com/support/manuals**.

Topics:

- What's new in Dell Command | Update Version 3.1

What's new in Dell Command | Update Version 3.1

Dell Command | Update provides the following features and enhancements in this release:

- Support for BIOS updates with BitLocker encrypted drives on the system
- Support for Command Line Interface (CLI)
- Support for scheduling the updates, once in a week or once in a month

Install, uninstall, and upgrade Dell Command | Update version 3 .1

This section contains information about the installation, uninstallation, and upgrading the Dell Command | Update.

(i) **NOTE:** There are two downloads available for Dell Command | Update:

1. Universal Windows Platform version supported only on Windows 10 RS1 Build #14393 or later for 64-bit operating system
2. Windows 32-bit version

Topics:

- Supported Operating System
- Download Dell Command | Update
- Install Dell Command | Update
- Uninstall Dell Command | Update for Windows 10
- Uninstall Dell Command | Update for Windows 32-bit version
- Upgrade Dell Command | Update

Supported Operating System

Dell Command | Update 3.1 Windows 32-bit package supports the following operating systems:

- Microsoft Windows 7 (32-bit and 64-bit)
- Microsoft Windows 8 (32-bit and 64-bit)
- Microsoft Windows 8.1 (32-bit and 64-bit)
- Microsoft Windows 10 (32-bit and 64-bit)

Dell Command | Update for Windows 10 starting from RS1 Build #14393 (x64) is supported.

Download Dell Command | Update

To download the latest version of the Dell Command | Update:

1. Go to https://www.dell.com/support/article/sln311129.
2. Depending on your requirement, select either the Universal Windows Platform version or the Win32 version.
3. Under Available formats, click Download File.

Install Dell Command | Update

To install Dell Command | Update:

1. Double-click the .exe file that is downloaded from the Dell support site.
2. Click **Install**.
   (i) **NOTE:** You must have administrative rights to install Dell Command | Update.
3. On the **Welcome** screen, click **Next**.
4. On the **License Agreement** screen, select **I accept the terms in the license agreement**, and then click **Next**.
5. On the **Begin Install** screen, click **Install**.
6. During the installation, you may click **Yes, I want to participate in the program** option available on the **Improvement Program Consent** screen to participate in the Dell Command | Update Improvement program.

7. Click **Install** on the **Ready to Install the Program** screen.
8. On the **Installation Wizard Completed** screen, click **Finish**.

Silent install

To perform silent installation of Dell Command | Update, run the following command in a command prompt with administrative privilege: `Dell-Command-Update_xxxxx_WIN_y.y.y_A00.EXE /s`

Optionally to capture the installation log, run the following command: `Dell-Command-Update_xxxxx_WIN_y.y.y_A00.EXE /s /l="C:\log path\log.txt"`

Uninstall Dell Command | Update for Windows 10

Do the following:

- Click **Start**.
- Select **Control Panel**, and then click **Programs** or **Programs And Features** (Recommended).
- Select Dell Command | Update, and then click **Uninstall**.

Or

- Open **Windows Settings**
- Select **System**, and then click **Apps and Features**
- Select Dell Command | Update, and then click **Uninstall**.

To uninstall Dell Command | Update for Window 10 by using command prompt, run the following command with administrative privileges: `Dell-Command-Update_xxxxx_WIN_y.y.y_A00.EXE /x`

Uninstall Dell Command | Update for Windows 32-bit version

Do the following:

- Click **Start**.
- Select **Control Panel**, and then click **Programs** or **Programs And Features** (Recommended).
- Select Dell Command | Update, and then click **Uninstall**.

Or on Windows 10 operating systems do the following:

- Open **Windows Settings**
- Select **System**, and then click **Apps and Features**
- Select Dell Command | Update, and then click **Uninstall**

To uninstall Dell Command | Update for Window 32-bit package version by using command prompt, execute the following command with administrative privileges: `Dell-Command-Update_XXXXX_ WIN_y.y.y_A00.EXE /x`

Upgrade Dell Command | Update

You can upgrade Dell Command | Update in the following ways:

- **Manual update:** Download and install Dell Command | Update 3.1 from **dell.com/support**. For more information, see Install updates.

  While installing the new version, the installer prompts for upgrade, select **Yes** to continue the upgrade.

  ⓘ **NOTE:** Upgrades are supported as follows:

  - You can upgrade Dell Command | Update for Windows 10 (Universal Windows Platform) from version 3.0 or later to version 3.1.
  - You can upgrade Dell Command | Update (Windows 32) from version 2.4 to 3.1.

- **Self-update:** If the application is already installed, Launch the application and click the **Check** button on the **Welcome** screen to check for updates. If newer versions of Dell Command | Update are available, then the latest version of Dell Command | Update is listed under Recommended updates. Select the update, and install the newer version of the application.

(i) **NOTE:** During the upgrade, application settings are retained.

Features of Dell Command | Update

Topics:

- Install updates
- Select updates
- Customize selection
- Dependency installation
- Advanced Driver Restore for Windows Reinstallation
- Update history
- View and export system information
- Activity log
- Give us your feedback

Install updates

To check for, and install updates on a Dell system:

1. On the **Welcome** screen, click **CHECK**.
   a. Dell Command | Update connects to **Downloads.dell.com**, and checks for updates.
   b. Click **CANCEL** to return to the previous screen without checking for updates. For more information about changing the source location, see General Settings.

   The **Checking for updates** task starts and the **Checking for Updates** screen is displayed.

   The **Checking for updates** task includes the following:

   - Checking for component updates

   - Scanning for system devices

   - Determining available updates

   The **Checking for Updates** screen provides the status of the system scan. When updates are found, Dell Command | Update prompts you to install the updates.

   If no updates are found, a **No updates available** message is displayed indicating that the devices on the system are up-to-date. Click **Close** to exit Dell Command | Update.

   Based on the availability of updates and preferences you have set, the **No updates available** message is displayed. This message is displayed in the following scenario:

   - If the default filters are modified and there are no updates found based on the filter criteria, then change the filter criteria to get available updates.
   - When you retain the default **Update Filter** preferences and no updates are available.

2. Click **VIEW DETAILS** to choose the updates you want to install on the system. The **Customize Selection** screen is displayed.

   For more information, see Customizing Updates.

3. Optionally, If you want Dell Command | Update to automatically restart the system after installing updates, select **Automatically restart system (when required)**.

4. Click **INSTALL** to install the selected updates on the system.

   (i) **NOTE:** If you click **CANCEL** during installation, Dell Command | Update does not roll back the updates that are already applied and returns to **Welcome** screen.

Select updates

On the **Welcome** screen, when you click **CHECK**, the **Checking for updates** task is run and if updates are available for the system, the **Selected Updates** screen is displayed.

The update summary is displayed next to the heading in the format — `update type <x of y; z MB>` in megabytes (MB):

- 'x' is the number of updates to be downloaded
- 'y' is the total number of updates available
- 'z' is the size of the available updates

Based on importance, the updates are described as follows:

- **Critical Updates**—These updates are important for improving the reliability, security, and availability of the system.
- **Recommended Updates**—These updates are recommended for installation on the system.
- **Optional Updates**—These updates are optional updates.
- **Dell Docking Solution**—These updates are for Dell docking solution.

  ⓘ **NOTE:**

  If Dell Docking Solution option is selected, then:

  - The updates for the Dell Docking Solution cannot be cleared from **Customize Selection** screen.
  - The **Automatically restart the system (when required)** option is selected and cannot be cleared.
  - The system may restart multiple times and continue the installation.
  - One or more categories (Critical, Recommended, Optional) are selected and cannot be cleared if there are updates that are part of the Dell Docking Solution.
  - The Dell Docking Solution option is not displayed if there are no updates available for Dell Docking Solution.

A warning messages are displayed if:

- An update that is to be installed requires an interim version of the update. If there are multiple intradependencies for an update, Dell Command | Update installs the latest possible version. However, this may not be the latest version. This task requires more than one update cycle for installing the latest version of the update. For more information, see Dependency Installation.
- Certain updates cannot be installed until a power adapter is plugged into the system.

Customize selection

On the **Selected Updates** screen, click **View Details** to view the **Customize Selection** screen. This screen lists detailed information of all available updates such as name, size, and release date of the component along with other information, which helps you to choose the updates you want to apply to the system. The updates are grouped based on assigned criticality.

Table 1. Customize Selection options

User interface	Description
Critical Updates (x of y; z MB)	View the critical updates available for the system. You can also modify the selection of critical updates. The updates contain the following information: • Name of the update. • Size of the update which displays the approximate number of bytes that are required to download the update. • The release date of the update. • Information icon provides additional details about the update. Hover over the icon to view more details. • A link to the complete documentation of the updates are available on the support site. • Based on the update type and installation requirements of that particular update, an icon may appear on the left side of the update.
Recommended Updates (x of y; z MB)	View the recommended updates available for the system. The updates contain the following information:

Table 1. Customize Selection options (continued)

User interface	Description
	- Name of the update. - Size of the update which displays the approximate number of bytes that are required to download the update. - The release date of the update. - Information icon provides additional details about the update. Hover over the icon to view more details. - A link to the complete documentation of the updates are available on the support site. - Based on the update type and installation requirements of that particular update, an icon may appear on the left side of the update.
Optional Updates (x of y; z MB)	View the optional updates available for the system. The updates contain the following information: - Name of the update. - Size of the update which displays the approximate number of bytes that are required to download the update. - The release date of the update. - Information icon provides additional details about the update. Hover over the icon to view more details. - A link to the complete documentation of the updates are available on the support site. - Based on the update type and installation requirements of that particular update, an icon may appear on the left side of the update.
Select All	Selects all critical, recommended, and optional updates for installation. ⓘ **NOTE:** Some updates may not be selected if the installation requirement is not met. As an example, this may occur when power adapter is not connected or BitLocker is enabled, but the auto suspension of BitLocker is not enabled.

Table 2. Customize Selection Options

User interface	Description
🔌	If this icon opens next to an update, connect a power adapter to the system to apply the update package. This is restricted to BIOS and firmware updates on laptop or tablet systems.
🔒	If this icon appears next to the BIOS update, it indicates BitLocker is enabled on the system. To apply this update, the **Automatically suspend BitLocker** option must be selected in the Settings.
ⓘ	Click to view a tool tip window with some additional details about the update package.
↗	Click to open the **dell.com/support** web page to view the complete details about this update package.
⊙	If this icon appears next to an update, it indicates that it is part of a docking solution update.

Use the check boxes next to the update to select update packages. The check box at the top of the column switch selection of all updates on the **Customize Selection** screen.

Dependency installation

Dell Command | Update uses update packages to determine the latest updates for a system. An update package contains feature enhancements or changes in BIOS, firmware, drivers, applications, and software. Usually, the update is self-sufficient and runs the pre-installation and applicable dependencies; however, the update may be dependent as described here:

- **Intra-dependencies:** These updates are of the same update type such as BIOS, and must be installed or updated in a particular order which may require multiple scans and updates.

For example, consider that your system has version A01 of BIOS installed and version A05 is an available update, and version A03 is a prerequisite of version A05. You must first update the system to version A03. Dell Command | Update updates the system to version A03 before allowing an update to version A05.

ⓘ **NOTE:** It takes more than one update cycle for the system to be updated to one or more latest available versions, which are initiated by the user.

● **Inter-dependencies:** If a component update requires an update of another dependent component of a different update type, then the dependent component has to be updated before the selected component can be updated to the recommended version.

For example, consider that your system needs a firmware update. To update system firmware, you must first update the system BIOS to a required minimum version. Dell Command | Update updates the system BIOS to the required version before updating the system firmware.

ⓘ **NOTE:** When the application initiates a system update, it takes more than one update cycle for the system to be updated to one or more latest available versions.

ⓘ **NOTE:** If the update you want to install has a dependency, Dell Command | Update notifies you during the update process with an information alert.

ⓘ **NOTE:** Non-dependent and inter-dependent updates are installed prior to intra-dependent updates.

Advanced Driver Restore for Windows Reinstallation

To download and install system's device driver installation of a newly installed operating system follows the steps:

1. On the **Welcome** screen, **click here to download and install a complete driver library**.

   ⓘ **NOTE:** The process of downloading the driver library for the system is automated.

   ⓘ **NOTE:** This process might even cost you, if you are on a metered network connection.

   The **Preparing for driver restore** screen is displayed, and the drivers are installed. Following are the various status messages that are displayed during installation:

   ● Checking for component updates.
   ● Scanning system devices—Scans the system and gathers the system information.
   ● Locating system driver library—Determines the system driver library to be downloaded.
   ● Starting download—Starts downloading the driver library.
   ● Extracting drivers—After the systems driver library is downloaded, these drivers are extracted for installation on the system.
   ● Preparing for installation—Digital signature validation and creation of a restore point on the operating system.
   ● Installing drivers—Displays the installation status in the format x of y, where 'x' is the number of drivers being installed and 'y' is the total number of drivers available. Select the **Automatically restart system (when required)** check box to restart the system automatically after the drivers are installed.
   ● Installation complete—Displays the driver installation result in the format x of y successful, where 'x' is the number of drivers that are installed and 'y' is the number of drivers available.

   Click **CANCEL** to exit this activity and return to the **Welcome** screen.

2. After installation of the drivers is complete, click **CLOSE** to return to the **Welcome** screen.

For more information about updating the system drivers to their most current version, see **Install updates** section.

Update history

You can view the details of previously installed updates on the system in the **Update History** screen. The details include the update name, update type, the date of the update was last installed, and the version of this update that was installed on the system.

View update history

To view the update history:

1. On the **Welcome** screen, click **Update History**.
   The **Update History** screen is located on the left pane of the main screen.
2. Click **CLOSE** to return to the **Welcome** screen.

View and export system information

To view and export the system information:

1. On the **Welcome** screen, click **System Information**.
   The **System Information** screen is displayed with system details such as the name, description, version of the operating system, BIOS, drivers, and applications.
2. Click **EXPORT** to save the system details in .xml format.
3. Click **CLOSE** to go back to the **Welcome** screen.

Activity log

The activity log feature helps you to view the updates that are installed on the system and track any failures or issues. The activities that are generated in Dell Command | Update are classified as:

- Normal—Normal messages provide high-level details about the updates or errors.
- Debug—Debug messages provide detailed information about the updates or errors.

The `ActivityLog.xml` is stored as an .xml formatted text file at this location — `C:\ProgramData\Dell\UpdateService\Log`.

The root element of the log contains the name of the product and the version that is installed on the system. The child elements under the root element are listed as follows:

Table 3. Elements under root element

Element Name	Description
<level>	Activity log level
<timestamp>	Timestamp when the activity was created
<source>	The application operations which generated the activities
<message>	Detailed information for the activity
<data>	Indicates additional information for the activity

View and export the Activity log

To view and export the activity log:

1. On the **Welcome** screen, click **Activity Log**.
   The **Activity Log** screen is displayed.

   By default, the list of activities that are performed during the last 7 days, 15 days, 30 days, 90 days, or the last year, is displayed. You can configure the period from the drop-down list.
2. From the drop-down list, select the number of days for which you want to view the update activities. For example, if you select **Last 15 Days**, you can view the update activities that Dell Command | Update has performed during the last 15 days.

   (i) **NOTE:** You can click (i) to view more information about the message log entry, such as application error messages. This information is also available in the exported log file.

> (i) **NOTE:** You can click **Caution** next to error or failure log entries to view information about how to avoid any potential damage or problem.

3. To reorder or sort the columns according to the date or message type, click ⌄ next to **Date** or **Message** or **More Info**.
4. Click **EXPORT** to export the activity log in .xml format.
5. Click **Save** to save changes, or click **Cancel** to revert to the last saved settings.
6. Click **CLOSE** to go back to the **Welcome** screen.

Give us your feedback

You have the option to provide the feedback about the product, by clicking **Give us your feedback** link option from the bottom corner of the left pane on the welcome page.

> (i) **NOTE:** You have the option to publish the feedback anonymously.

Configure Dell Command | Update

The **Settings** screen enables you to configure and customize settings for update download and storage locations, update filters, schedule for downloading updates, Internet proxy, import or export settings, and driver libraries download location. It has the following tabs:

● **General**—See Configure the general settings for information about configuring or modifying locations to download and store updates, and Internet proxy settings.
● **Update Settings**—See Update settings for information about configuring the schedule for system updates.
● **Update Filter**—See Configuring the update filter settings for information about modifying and saving filter options for updates.
● **Import/Export**—See Importing or exporting settings for information about importing and exporting settings.
● **Advance Driver Restore**—See Configuring advanced driver restore settings for information about configuring the location for downloading driver libraries.
● **BIOS**—See BIOS settings for information about how to save the BIOS password as an application setting.
● **Third Party Licenses**—You can view the acknowledgment of the open-source software that is used during the time of creation.

Click **Restore Defaults** to revert to the default application settings.

ⓘ **NOTE:** If a policy is applied by your administrator, the **Restore Defaults** option is disabled.

Topics:

Configure the general settings

In the **General** tab, you can update the source catalog location, update the download location, and configure or modify Internet proxy settings and provide consent for Dell 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. Under **Download File Location**, click **Browse** to set the default location or to change the default location for storing the downloaded updates.
   ⓘ **NOTE:** Dell Command | Update automatically deletes the update files from this location after installing the updates.
3. Under **Update Source Location**, click **New** to add a location for downloading the updates. For more information, see **Updating Source Location** section.
4. Optionally, 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** check box and provide proxy server, proxy port, username, and password.

   ⓘ **NOTE:** The username and password credentials are encrypted and saved.

5. To opt in to Dell improvement program, select the **I agree to allow Dell to collect and use information gathered for the purpose of improving its products and services** option available under **User Consent** in the **General** section.

> ⓘ **NOTE:** Dell improvement program collects data about the operations that are performed in the application. This helps Dell to take proactive steps to improve Dell Command | Update.

> ⓘ **NOTE:** Dell improvement program does not collect any Publicly Identifiable Information(PII).

6. Click **OK** to save changes or click **CANCEL** to discard the settings and return to the **Welcome** screen.

Updating source location

Update Source Location displays the list of all configured update source locations.

The default location is **downloads.dell.com**. However, you can add multiple source locations for Dell Command | Update to attempt access and check for updates.

To add a source location:

1. Click **BROWSE**
2. Navigate to the file location, and then select the catalog.cab file
3. Click **+** to add the new source location
4. Prioritize these locations by clicking the up and down arrows that are associated with the source location entry
5. Click **x** to remove the source location path from the list

> ⓘ **NOTE:** Dell Command | Update uses the first source location or catalog it successfully loads. Dell Command | Update does not load each source location that is listed and aggregate the contents together. Dell Command | Update does not check for signatures on any source location that is not available in the **Dell.com** site.

Update settings

You can configure Dell Command | Update to automatically check for system updates on a given schedule.

Perform the following steps to configure the schedule for checking updates:

1. On the title bar, click **Settings**.
2. On the **Settings** screen, click **Update Settings**.
3. Under **Automatically check for updates** > **Check for updates**, select one of the following:
   - **Manual Updates Only**— If you select this option, Dell Command | Update does not run scheduled updates and all the other fields on this page are hidden. To check for updates manually, on the Welcome screen, click **CHECK**.
   - **Automatic Updates** — If you select this option, Dell Command | Update runs automatic updates on the system. A check for updates run every three days. If new updates are found, the settings under **When updates** are found, determines the actions which take place.
   - **Weekly Updates** — If you select this option, Dell Command | Update runs the updates on the system once in a week. You have the option to **Select the time** and **Select the day** of the week to run the updates.
   - **Monthly Updates** — If you select this option, Dell Command | Update runs the updates on the system once in a month. You have the option to **Select the time** and **Select the day** of the month to run the updates.

     > ⓘ **NOTE:** If the selected day for a specific month is not available, then the updates get executed at the last day of that particular month.

   You have the option to select the action to perform and the notification to display **When updates** are found. The options are:

   a. **Notify Only** - When updates are available
   b. **Download Updates** - Notify when the updates are ready to install
   c. **Download and install updates** - Notify after the updates are complete

   If you select **Download and install updates (Notify after complete) option**, select the time interval that you want the system to wait before restart automatically.

4. Click **OK** to save changes, or click **CANCEL** to revert the settings and return to the **Welcome** screen.

   After you schedule the check for updates activity and if updates are available, the list of updates is displayed in the **Ready for install** screen.

(i) **NOTE:** You must exit Dell Command | Update for update schedules to run.

Configure the update filter settings

In the **Update Filter** tab, you can configure the filters based on the update filter criteria.

To configure the update filter settings:

1. On the title bar, click **Settings**.
2. On the **Settings** screen, click **Update Filter**.
3. Under **What To Download**, select one of the following options:
   - **Updates For This System Configuration (Recommended)** — Select this option to retrieve all available updates specific to the system's configuration.
   - **All Updates For System Model** — Select this option to retrieve all available updates for the system model.
4. Under **Customize Updates**, select the update recommendation level, type of update, and its device category.
5. Click **OK** to save changes or click **CANCEL** to revert to the last saved settings and return to the **Welcome** screen.

Import or export settings

The **Import/Export** tab enables you to save the configuration settings in the form of an .xml file. By using an .xml file, you can transfer the settings to another system and also import settings from another system. Using these .xml files that you can create common configuration settings for all the installed instances of Dell Command | Update in the organization.

To import or export the configuration settings:

1. On the title bar, click **Settings**.
2. On the **Settings** screen, click **Import/Export**.
3. Click **EXPORT** to save the Dell Command | Updatesettings on the system in .xml format.
4. Click **IMPORT** to import the Dell Command | Updatesettings from a previously exported settings file.
5. Click **OK** to save changes or click **CANCEL** to revert the settings and return to the **Welcome** screen.

Configuring advanced driver restore settings

In the **Advanced Driver Restore** tab, you can configure the location to download the driver library for a new or reconditioned system.

To configure the Advanced Driver Restore settings:

1. On the title bar, click **Settings**.
2. On the **Settings** screen, click **Advanced Driver Restore**.
3. Click **Enable** to view the **Advanced Driver Restore for Windows Reinstallation** option on the **Welcome** screen.

   (i) **NOTE:** By default, the feature is:
   - When you install Dell Command | Update on your system, the **Advanced Driver Restore Reinstallation** feature is enabled.
   - If Dell Command | Update is factory installed, the **Advanced Driver Restore Reinstallation** feature is disabled.
   - After the drivers are installed on the system, the feature is disabled.

4. Select one of the following options:
   - Download driver library from the **dell.com/support** site (Recommended).
   - **Use the specified driver library**: To download the driver library from a local or network location. Click **Browse** to specify the location.
5. Click **OK** to save changes, or click **CANCEL** to revert to the last saved settings and return to the **Welcome** screen.

BIOS

System Password

1. On the title bar, click **Settings**.
2. On the **Settings** screen, click **BIOS**.
3. Enter a value in the **Password** field In the **System Password** window. You can click **Show Password** to view the password in the **Password** field.

   (i) **NOTE:** The value in the **Password** field persists even when the **Settings** tab is closed and reopened.

   (i) **NOTE:** If the **System Password** is configured in the BIOS, the same password is required to perform the BIOS updates.

4. Click **Restore Defaults** and check that the **Password** field is empty.

Suspend BitLocker

Dell Command | Update, supports the ability to install BIOS updates even if BitLocker Encryption is enabled on the system's boot drive, this provides an option by suspending the BitLocker while updating the BIOS and resuming BitLocker encryption once the BIOS has been upgraded.

Dell Command | Update provides a check box in the BIOS settings screen to **Automatically suspend BitLocker** and displays the following warning message **Warning: Automatically suspending BitLocker drive encryption must be executed in a secure environment to safeguard the drive security.**

If BitLocker is enabled, the following options get applied:

- When a BIOS update is available and selected, and the **Automatically suspend BitLocker** option is checked, then the **Automatically restart the system (when required)** option is checked and by default it is disabled. When the BIOS update is installed, BitLocker is suspended temporarily to apply the BIOS updates. After the BIOS and other updates are updated, the system automatically reboots to complete the BIOS update, and BitLocker is re-enabled.
- A BitLocker Icon is displayed to the left of the BIOS update, if present in the list of **Selected Updates** screen.
- If the user selects to uncheck the **Automatically suspend BitLocker**, the BIOS update is unchecked and disabled.

   (i) **NOTE:** Hovering over the icon provides an additional detail as **'This update is blocked because BitLocker is enabled on this system. If you want to install this update, please check 'Automatically suspend BitLocker'** in the BIOS settings pane.

- The Dell Command | Update command line interface provides an equivalent command line option – `autoSuspendBitLocker=<enable|disable>` to automatically suspend the BitLocker if a BIOS update must be installed. Disabling this option blocks installation of BIOS updates, if BitLocker is enabled on the OS Boot drive. Refer to the Dell Command | Update command line interface options section for more information.

Dell Command | Update command line interface

Dell Command | Update provides a command line version of the application form that can be used for batch and scripting setups. The CLI is fully automatic and has no interactive user prompts. The CLI enables administrators to use automated remote deployment infrastructure for further updates. At this point, the command line interface provides basic options and does not include all features that can be executed using the UI version of the application.

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

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

(i) **NOTE:**

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

Topics:

- Command line interface reference
- Command line interface Error codes

Command line interface reference

The following table lists information about the CLI options available in Dell Command | Update:

The CLI syntax is as follows:

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

(i) **NOTE:** There should not be any space after the forward slash when you are providing the command.

Table 4. Dell Command | Update CLI Commands

CLI options	Description	Syntax	Supported Options
`/help`	Displays usage information. (i) **NOTE:** Any other command specified with this command is ignored.	`dcu-cli.exe /help`	Not Applicable
`/version`	Displays the version. (i) **NOTE:** Any other command specified with this command is ignored.	`dcu-cli.exe / version`	Not Applicable

`/configure`	Allows configuration of Dell Command | Update based on settings provided in the supported options.
	(i) **NOTE:** Options 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=disab le`
			`-importSettings`
			`-exportSettings`
			`-lockSettings`
			`- advancedDriverR estore`
			`- driverLibraryLo cation`

Table 4. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options

			`-catalogLocation` `-downloadLocation` `-updateSeverity` `-updateType` `-updateDeviceCategory` `-userConsent` `-biosPassword` `-customProxy` `-proxyAuthentication` `-proxyHost` `-proxyPort` `-proxyUserName` `-proxyPassword` `-scheduleWeekly` `-scheduleMonthly` `-scheduleManual` `-scheduleAuto` `-scheduleAction` `-scheduledReboot` `-silent` `-outputLog` `-restoreDefaults` `-autoSuspendBitLocker`
			
			Mutually exclusive options
			
			These options cannot be used with the specific commands listed below:
			
			`-importSettings,` `-exportSettings,` `-lockSettings.`
			
			ⓘ **NOTE:** This option cannot be

Table 4. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options
			used with any other options except -outputLog and -silent
			-scheduleAuto, -scheduleManual, -scheduleMonthly, -scheduleWeekly

`/scan`	Performs a system scan to determine the updates for the current system configuration.
	ⓘ **NOTE:** Options passed here are for one time use only, for that current run.
		`dcu-cli.exe /scan -<option>=<value>`
		`Ex: dcu-cli.exe /scan`
		`dcu-cli.exe /scan`
		`dcu-cli.exe /scan -updateType=bios,firmware`
			`-silent`
			`-outputLog`
			`-updateSeverity`
			`-updateType`
			`-updateDeviceCategory`
			`-catalogLocation`
			`-report`

`/applyUpdates`	Applies all updates for the current system configuration.
	ⓘ **NOTE:** Options passed here are for one time use only, for that current run.
		`dcu-cli.exe /applyUpdates -<option>=<value>`
		`Ex: dcu-cli.exe /applyUpdates`
		`dcu-cli.exe /applyUpdates -silent`
		`dcu-cli.exe /applyUpdates -updateType=bios,firmware`
			`-silent`
			`-outputLog`
			`-updateSeverity`
			`-updateType`
			`-updateDeviceCategory`
			`-catalogLocation`
			`-reboot`
			`-encryptedPassword`
			`-encryptedPasswordFile`
			`-encryptionKey`
			`-autoSuspendBitLocker`
			Mandatory options:
			These options are required to be provided with the specific commands listed below:
			`-encryptedPasswo`

Table 4. Dell Command | Update CLI Commands (continued)

CLI options	Description	Syntax	Supported Options

			`rd` and `-encryptionKey`
			
			`-encryptedPasswordFile` and `-encryptionKey`

`/driverInstall`	Installs all base drivers for the current system configuration on a freshly installed operating system.
	ⓘ **NOTE:** Options passed here are for one time use only, for the current run.
		`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=<in-line value>`
		
		`dcu-cli.exe /generateEncryptedPassword -password <in-line value> -outputPath=<folder path >`
			`-password`
			
			`-outputPath`
			
			`-encryptionKey`
			
			Mandatory options:
			These options are required to be provided with the specific commands listed below:
			
			`-password` and `-encryptionKey`

Table 5. 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. The password will be cleared if a password is not provided or "" is supplied. NOTE: The value needs to be enclosed in double quotes.	`dcu-cli.exe /configure -biosPassword="Test1234"`	`<password|"">`
`-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.	`dcu-cli.exe /configure -customProxy=enable`	`<enable|disable>`

Table 5. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	ⓘ **NOTE:** Setting this option to enable will cause validation of all custom proxy settings.		
-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 ⓘ **NOTE:** Requires functional networking components	`dcu-cli.exe /configure -driverLibraryLocation=C:\Temp\DriverLibrary.cab`	A file path with .cab extension

-encryptionKey	Allows the user to specify the encryption key used to encrypt the password.
	ⓘ **NOTE:** The key provided must be at least six nonwhitespace characters and include an uppercase letter, a lowercase letter, and a digit. Also, this value needs to be enclosed in double quotes.
		`dcu-cli /applyUpdates -encryptedPassword="myEncryptedPassword" -encryptionKey="myEncryptionKey"`
		
		`dcu-cli /generateEncryptedPassword -encryptionKey="myEncryptionKey" -password="myPassword" -outputPath=C:\Temp`
			<encryption key>

-encryptedPassword	Allows the user to pass the encrypted password in-line along with the encryption key that was used to generate it. ⓘ **NOTE:** -encryptionKey is required to be specified along with this option. Also, this value needs to be enclosed in double quotes.	`dcu-cli /applyUpdates -encryptedPassword="myEncryptedPassword" -encryptionKey="myEncryptionKey"`	<encrypted password>
-encryptedPasswordFile	Allows the user to pass the encrypted password via file. ⓘ **NOTE:** -encryptionKey is required to be specified along with this option.	`dcu-cli /configure -encryptedPasswordFile=C:\Temp\EncryptedPasswordFile.txt -encryptionKey="myEncryptionKey"`	A file path with extension .txt
-exportSettings	Allows the user to export application settings to the specified folder path. ⓘ **NOTE:** This option cannot be used with any other options except -outputLog and -silent.	`dcu-cli.exe /configure -exportSettings=C:\Temp`	A folder path
-importSettings	Allows the user to import application settings file. ⓘ **NOTE:** This option cannot be used with any other options except –	`dcu-cli.exe /configure -importSettings=C:\Temp\Settings.xml`	An .xml file path

Table 5. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	`outputLog` and – `silent`.		
`-lockSettings`	Allows the user to lock all the settings in the UI. ⓘ **NOTE:** This option cannot be used with any other options except – `outputLog` and – `silent`.	`dcu-cli.exe /configure - lockSettings=enable`	<enable|disable>
`-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="myEncryptionK ey" -password="myPassword" - outputPath=C:\Temp`	A folder path
`-password`	Allows the user to specify the password to be encrypted. ⓘ **NOTE:** encryptionKey is required to be specified along with this option. Also, this value needs to be enclosed in double quotes.	`dcu-cli.exe / generateEncryptedPassword - encryptionKey="myEncryptionK ey" -password="myPassword"`	password
`- proxyAuthenticati on`	Allows the user to enable or disable the use of proxy authentication. ⓘ **NOTE:** Changing this option will cause validation of all custom proxy settings	`dcu-cli.exe /configure - proxyAuthentication=enable`	<enable|disable>
`-proxyHost`	Allows the user to specify the proxy host. Giving an empty string as the value to this option clears proxy host. ⓘ **NOTE:** Changing this option will cause 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. Giving an empty string as the value to this option clears proxy password. ⓘ **NOTE:** Changing this option will cause validation of all custom proxy settings. The value needs to be enclosed in double quotes	`dcu-cli.exe /configure - proxyPassword="my password"`	<password|"">

Table 5. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
-proxyPort	Allows the user to specify the proxy port. Giving an empty string as the value to this option clears proxy port. ⓘ **NOTE:** Changing this option will cause validation of all custom proxy settings.	`dcu-cli.exe /configure -proxyPort=8080`	<port number|"">
-proxyUserName	Allows the user to specify the proxy username. Giving an empty string as the value to this option clears proxy username. ⓘ **NOTE:** Changing this option will cause validation of all custom proxy settings.	`dcu-cli.exe /configure -proxyUserName="john doe"`	<user name|"">
-reboot	Reboot the system automatically (if required).	`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	Allows the user to enable the default automatic update schedule. ⓘ **NOTE:** Automatic updates executes every 3 days. Also, this option cannot be used with -scheduleManual -scheduleWeekly -scheduleMonthly	`dcu-cli.exe /configure -scheduleAuto`	None
-scheduleManual	Allows the user to disable the automatic schedule and enable only manual updates. ⓘ **NOTE:** This option cannot be used with -scheduleAuto -scheduleWeekly -scheduleMonthly	`dcu-cli.exe /configure -scheduleManual`	None
-scheduleMonthly	Allows the user to specify the day of the month and time on which to schedule an update. If the scheduled day is greater	`dcu-cli.exe /configure -scheduleMonthly=28,00:45`	Date of month[1–31],time[00:00(24 hr format, 15 minutes increment)]

Table 5. Dell Command | Update CLI Options (continued)

CLI options	Description	Syntax	Expected values
	than the last day of the month, the update will be performed on the last day of that month. ⓘ **NOTE:** This option cannot be used with -scheduleManual -scheduleAuto -scheduleWeekly		
-scheduleReboot	Allows the user to schedule a reboot time, in minutes, after updates are applied.	`dcu-cli.exe /configure -scheduleReboot=5`	<0|5|15|60> (Note:0=Never reboot)
-scheduleWeekly	Allows the user to specify the day of the week and time on which to schedule an update. ⓘ **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 on the console.	`dcu-cli.exe /scan -silent`	None
-updateDeviceCategory	Allows the user to filter updates based on device type.	`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.	`dcu-cli.exe /configure -updateSeverity=recommended,optional`	[critical, recommended, and optional]
-updateType	Allows the user to filter updates based on update type	`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, then the BIOS update is installed, and BitLocker is suspended during the duration of installation process. After the BIOS and other updates are installed, the system automatically reboots to complete the BIOS update, and BitLocker is re-enabled. The following warning message is displayed on the console before applying the updates

  Warning: Because the BIOS update is selected, and BitLocker is enabled on this system, BitLocker will be 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 BitLocker is re-enabled.

- 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 on the console

  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.

Command line interface Error codes

Table 6. Following are the generic application return codes:

Return\Error Codes	Description	Resolution
0	Command execution was successful	NA
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	NA
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 in not supported by the catalog.
8	No update filters have been applied or configured	Supply at least one update filter.

Table 7. The following return codes may appear while evaluating various input validation:

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. Refer 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. Refer Command line interface reference section, for more information.
103	While evaluating the command line parameters, duplicate commands were detected	Remove any duplicate commands and re-run the command. Refer Command line interface reference section, for more information.
104	While evaluating the command line parameters, the command syntax was incorrect	Make sure to follow the command syntax '/<command name>'. Refer Command line interface reference section, for more information.
105	While evaluating the command line parameters, the option syntax was incorrect	Make sure to follow the option syntax '-<option name>'. Refer Command line interface reference section, for more information.
106	While evaluating the command line parameters, invalid options were detected	Make sure to provide all required or only supported options. Refer Command line interface reference section, for more information.

Table 7. The following return codes may appear while evaluating various input validation: (continued)

Return\Error Codes	Description	Resolution
107	While evaluating the command line parameters, the value(s) provided to the specific option was invalid	Provide an acceptable value. Refer Command line interface reference section, for more information.
108	While evaluating the command line parameters, all mandatory options were not detected	If an command requires mandatory options to execute, please provide them. Refer 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. Refer Command line interface reference section, for more information.
110	While evaluating the command line parameters, multiple commands were detected	With the exception of /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 re-run the command. Refer Command line interface reference section, for more information.
112	Invalid catalog was detected	Make sure the file path provided exists, had a valid extension type, is a valid SMB, UNC or URL, does not have invalid characters, does not exceed 255 characters and have required permissions. Refer Command line interface reference section, for more information.

Table 8. The following return codes may appear while running the /scan command:

Return\Error Codes	Description	Resolution
500	No updates were found for the system when a scan operation was executed	The system is upto date or no updates were found for the provided filters. Modify the filters and re-run the commands.
501	An error occurred while determining the available updates for the system, when a scan operation was executed	Retry the operation.
502	The cancellation was initiated, Hence, the scan operation is cancelled	Retry the operation.
503	An error occurred while downloading a file during the scan operation	Check your network connection, make sure there is internet connectivity and Retry the command.

Table 9. The following return codes may appear 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.

Table 9. The following return codes may appear while running the /applyUpdates command: (continued)

Return\Error Codes	Description	Resolution
1002	An error occurred while downloading a file during the apply updates operation	Check your network connection, make sure there is internet connectivity and Retry the command.

Table 10. The following return codes may appear while running the /configure command:

Return\Error Codes	Description	Resolution
1500	An error occurred while exporting the application settings	Verify the folder exists or have permissions to write to the folder.

Table 11. The following return codes may appear 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 diver cab's were provided for Advanced Driver Restore operation	Make sure to provide only one driver cab file.
2003	An invalid path for the driver cab was provided as in input for the driver install command	Make sure the file path provided exists, had a valid extension type, is a valid SMB, UNC or URL, does not have invalid characters, does not exceed 255 characters and have required permissions. Refer Command line interface reference section, for more information.
2004	The cancellation was initiated, Hence, the driver install operation is cancelled	Retry the operation.
2005	An error occurred while downloading a file during the driver install operation	Check your network connection, make sure there is internet connectivity and Retry the command.

Table 12. The following return codes may appear 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 occured while encrypting the password with the encryption key provided	Provide a valid encryption key and Retry the operation. Refer 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, please re-encrypt the password.

Table 13. The following return codes may appear 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.