

# Dell Command | Power Manager User Guide



# Notes, Cautions, and Warnings



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



**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.

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# Introduction

Dell Command | Power Manager software provides simplified and efficient power management capabilities for Dell notebooks and tablets running Windows 7 and Windows 8 operating systems.

## Key Features

- [Battery Information](#) – Display health information for up to six installed batteries, depending on system capabilities.
- [Advanced Charge Mode](#) – Control battery charging to prolong battery life.
- [Thermal Management](#) – Control processor and cooling fan settings to manage performance, system surface temperature, and fan noise.
- [Group Policies](#) – Easily apply default settings and/or prevent users from changing power alerts system events, power management, and battery settings.
- [System Event Notifications](#) – Display power-related system notifications when unsupported power adapters are detected to help prevent battery damage.

## Accessing the Software

To open the Dell Command | Power Manager user interface, click the Windows Start button, and then do one of the following:

- Click **Control Panel** → **Dell Command | Power Manager**.
- Click **Control Panel** → **Power Options**, and then click Dell Command | Power Manager in the left pane.
- Enter *Dell Command | Power Manager* in the **Search programs and files** field.

# Battery Information

Dell Command | Power Manager provides detailed information about your system's batteries, including:

- Whether your system is plugged in or using battery power
- Percentage of your system's total power remaining
- [Battery health](#)
- [Battery charge status](#)
- [Battery setting](#)
- Battery type (Standard, Extended Warranty, or Enhanced)
- Connection (Primary, Battery Slice, or Modular Bay)
- Manufacturer
- Dell battery (Yes or No)
- Serial number



**NOTE:** PPID may not always display.

- PPID (Piece Part ID)





The software supports a maximum of six batteries. To see the details of a particular battery, click the battery number (for example, Battery #1, Battery #2). Scroll down to see any additional batteries your system may contain.

## Battery Health

Battery health indicates the amount of charge that is available to a system. In general, a battery's health decreases over time at a rate that depends on how often the battery is used and the conditions under which it is used.

To indicate battery health, Dell Command | Power Manager uses a set of four circular icons. The number of circular icons that are filled indicates the battery health.

**Table 1. Battery health indicator codes**

Code	Description
	Excellent — Battery is operating at maximum capacity.
	Good — Battery can charge normally; however, you may notice reduced operating time because long-term battery life is decreasing.
	Fair — Battery can charge normally; however, it is near the end of its usable life. It is recommended that you purchase a new battery soon.
	Poor — Battery no longer provides sufficient power. It is recommended that you replace this battery.



Battery no longer operates, or battery status cannot be determined. It is recommended that you replace the battery.


To purchase a new battery, click  at the bottom of the left panel.

## Battery Setting

Dell Command | Power Manager enables users to [select a battery setting](#) that is optimized for specific system usage patterns. For example, some settings focus on extending battery life, while others provide fast charge times.

Available settings may be limited depending on the battery. Possible battery settings include:


- **Adaptive** — Automatically optimizes battery settings based on the user's typical patterns. Recommended for users who want to "set it and forget it."
- **Standard** — Fully charges the battery at a moderate rate. This setting provides a balanced approach to extending battery life while still providing a reasonably fast charging time. Recommended for users who frequently switch between battery and external power sources.
- **ExpressCharge™** — Quickly charges the battery using Dell fast-charge technology. Recommended for users who need the battery to charge quickly. If the system is powered off, then the battery typically charges to 80 percent within one hour and 100 percent in two hours. Charge time may be longer if the system is powered on.

 **NOTE:** The ExpressCharge setting may cause battery health to diminish more quickly than other settings.


- **Primarily AC** — Extends battery life by lowering the charge threshold, so that the battery never charges to 100 percent capacity. Recommended for users who primarily operate the system while plugged into an external power source.
- **Custom** — User selects when the battery starts and stops charging. Recommended for advanced users.

### Selecting A Battery Setting

1. On the **Battery Information** page, click the battery that you want to change (such as Battery #1 or Battery #2).

 **NOTE:** If Advanced Charge is enabled, you can only affect battery settings through the Advanced Charge screen.


2. Click **Settings**.
3. Select a pre-configured [battery setting](#), or select **Custom** to [define your own settings](#).

 **NOTE:** Available settings may be limited depending on the battery.

4. Click **OK** to save your changes, or click **CANCEL** to discard them.

### Creating A Custom Battery Setting

The **Custom** battery setting enables users to define when a battery starts and stops charging. This setting is recommended for advanced users who are familiar with battery charging cycles.

 **NOTE:** A minimum difference, specified in your systems BIOS, is required between the **Start Charging** and **Stop Charging** values.

1. Go to the [Battery Setting](#) page, and then click **Custom**.
2. Under **Start Charging**, move the slider to the percentage threshold at which the battery begins charging, or enter a number in the text box.  
For example, entering 60 causes the battery to start charging when it depletes to 60 percent of the total available charge.
3. Under **Stop Charging**, move the slider to the percentage threshold at which the battery stops charging, or enter a number in the text box.  
For example, entering 90 causes the battery to stop charging when it reaches 90 percent of the total available charge.
4. Click **OK** to apply your settings, or click **CANCEL** to discard your changes and return to the **Battery Information** page.

## Battery Charge Status

View a battery's Charge Status quickly by referring to the battery charge status indicator codes displayed beside the battery number on the **Battery Information** page. For precise information on the percentage charged as well as the battery's charging and AC connection status, see the **Charge Status** information displayed below the battery number as well as directly below the battery graphic.

**Table 2. Battery charge status indicator codes**


Code	Power Remaining
	80–100 percent
	60–79 percent
	40–59 percent
	20–39 percent
	0–19 percent

To purchase a new battery, click  at the bottom of the left panel.



## Advanced Charge



Advanced Charge is an optional feature that prolongs the usable life of a system's batteries by charging them to full capacity only once per day, prior to the **Start of day** you establish when you [enable Advanced Charge](#). For the remainder of the day, Advanced Charge keeps batteries in a lower charge state that is better for storage, even when the system is plugged into a direct power source.

 **NOTE:** If the hours assigned to Peak Shift and Advanced Charge overlap, then Peak Shift takes priority. Batteries will not charge during Peak Shift hours.


### Enabling Advanced Charge

Advanced Charge is not enabled by default. When Advanced Charge is enabled, the feature applies to all batteries in the system, and individual battery configuration is disabled.


1. Click the **Advanced Charge** tab in the left pane.

 **NOTE:** Hover your cursor over the  icon if you later want to see further information on Advanced Charge.

2. If a message describing Advanced Charge displays, select **Do not show this again**, and then click **OK**.
3. To enable Advanced Charge, click the on/off toggle at the top of the page to the **On** position.
4. Click the on/off toggle for each day of the week to enable or disable Advanced Charge for each day. If you enable the Advanced Charge feature, you must configure the feature for at least one day.
5. To set the times of day when Advanced Charge is active and inactive, click **Settings**.

 **NOTE:** If you have not enabled Advanced Charge for a particular day, that day will not display on the **Time Settings** page, and you will not be able to set the Advanced Charge schedule for that day. Go back to the main **Advanced Charge** page and enable Advanced Charge for that particular day.

6. In the left pane of the **Time Settings** page, click a day of the week. In the main portion of the page, you can use either the circular slider or the drop-down menus to set Advanced Charge options.

 **NOTE:** You can select times in 15-minute increments—for example, you can enter 11:15 AM or 9:30 PM.

The circular slider represents a 24-hour period. To use the circular slider:

- a. Slide the **Start of day** thumb control to the start time of a typical workday.
- b. Slide the **End of day** thumb control to the end time of a typical workday.

 **NOTE:** The segment of time displayed in blue represents the work period, or when the system is active.


Alternatively, you can use the drop-down menus to set the times:

- a. Select a time for **Start of day**.
  - b. Select a time for **End of day**.
7. Select the **Copy the same settings to multiple days** check box. In the left pane, select the days to which these settings apply.
  8. Click **OK** to save your settings, or click **CANCEL** to discard them.

# Peak Shift

Peak Shift is an optional feature that reduces power consumption by automatically switching the system to battery power during certain times of the day, even if the system is plugged into a direct power source. After Peak Shift begins, the system will run on battery power until the combined charge level of all batteries reaches a minimum threshold. See [Enabling Peak Shift](#) for instructions on how to change these settings. At that time, if the system is plugged in, it will be powered by the direct power source; however, the battery will not charge until Peak Shift ends.


Users can program the start and end times at which the Peak Shift feature is active and inactive each day. Prior to the start of each Peak Shift time period, the system will charge all batteries to maximum capacity.

 **NOTE:** If the hours assigned to Peak Shift and Advanced Charge overlap, then Peak Shift takes priority. Batteries will not charge during Peak Shift hours.

## Enabling Peak Shift

1. Click the **Peak Shift** tab in the left pane.



**NOTE:** Hover your cursor over the  icon if you later want to see further information on Peak Shift.

2. If a message describing Peak Shift displays, select **Do not show this again**, and then click **OK**.
3. To enable Peak Shift, click the switch at the top of the page to the **On** position.



**NOTE:** Your system BIOS already has a minimum threshold setting below which the system always draws AC power if it is available; this BIOS setting always takes precedence over any setting you enter here.


4. To select the percentage at which the system will **Restore AC power if available system charge falls below**, move the slider.

For example, selecting 15 percent causes the system to switch from battery to AC power during Peak Shift if the power remaining falls below 15 percent.

While the system runs as normal on AC (direct) power, the battery does not charge until Peak Shift ends.


5. To enable or disable Peak Shift, use the On/Off switch next to each day of the week.
6. To set the time of day when Peak Shift is active, click **Settings**.

7. In the left pane of the **Time Settings** page, click a day of the week. To set Peak Shift options, you can use either the circular slider or the drop-down menus.

 **NOTE:** You can select times in 15-minute increments—for example, you can enter 11:15 AM or 9:30 PM.

The circular slider represents a 24-hour period. To use the circular slider:


- a. To activate Peak Shift, slide the AC and/or battery thumb controls to the time you want Peak Shift to begin.

 **NOTE:** If you enable **Operate only on AC**, then the time between starting Peak Shift and operating on AC power is indicated in blue, and the time between starting to operate on AC power and ending Peak Shift is indicated in yellow. Green indicates the period of operation on AC power without charging the battery.


- b. To set a time at which the system begins to operate only on AC power without charging the battery, select the **Operate on AC power without charging battery** check box, then slide the battery thumb control to the time that you want the system to start operating on AC power without charging the battery.
- c. To select a time to end Peak Shift, slide the plug and battery thumb control to the time you want Peak Shift to end.

To use the drop-down menus:

- a. Select a time using either your mouse or the Up or Down Arrow keys to **Operate on battery power only**. Peak Shift begins at this time.
- b. To set a time at which the system begins to operate on AC power without charging the battery, select the **Operate on AC power without charging battery** check box, then use either your mouse or the Up or Down Arrow keys to select the time you want to switch to AC power without charging the battery.

 **NOTE:** If you enabled **Operate on AC power without charging battery**, then the time between starting Peak Shift and operating on AC power is indicated in blue, and the time between starting to operate on AC power and ending Peak Shift is indicated in yellow.

- c. Using your mouse or the Up or Down Arrow keys, select a time to **Resume normal power/charge**. Peak Shift ends at this time.

 **NOTE:** The **Copy the same settings to multiple days** check box is automatically cleared once you leave the page.

8. Select **Copy the same settings to multiple days**. Then, in the left pane, select the days to which these settings apply.
9. To save your changes, click **OK**, or to discard them, click **CANCEL**.

# Thermal Management

Dell Command | Power Manager allows you to manage your system's processor and cooling fan settings so that you can manage performance, system surface temperature, and fan noise. Each option represents a different balance of these three elements. Choose the configuration that best suits the way you use your system.

Mode	Description
Balanced	Balances performance, noise, and temperature.
Cool	Cooling fan speed is raised to maintain a cooler system surface temperature. Your system may produce more noise and experience reduced performance.
Quiet	Cooling fan and processor speeds are lowered to reduce fan noise. This configuration may also reduce system performance and raise system surface temperature.
Ultra performance	Both processor and cooling fan speeds are increased to produce higher system performance. This configuration may also produce more noise and higher system surface temperature.

See [Changing Thermal Management Modes](#) for instructions on changing the thermal mode on your system.

## Changing Thermal Management Modes

When you start your computer for the first time following installation of Dell Command | Power Manager, the Thermal Management mode is set to the Balanced option. To change the Thermal Management mode, do the following:

1. Click the **Thermal Management** tab.
2. Click the radio button beside the thermal management mode you want to select.
3. Click **APPLY** to apply your changes, or click **CANCEL** to revert to the previous setting.

## Power Alerts

Dell Command | Power Manager displays an alert for the following docking station, battery, and power adapter conditions:

**Table 3. Power alerts and remedies**

Alert	What Should I Do?
The battery currently attached to your system cannot supply enough power to your docking station for it to operate normally.	Attach a supported power adapter to the docking station.
Your notebook does not recognize the attached battery.	Attach a supported battery.
Your notebook does not support the attached battery slice.	Attach a supported battery.
Your notebook does not support the attached batteries.	Attach supported batteries.
Your battery is able to charge normally. However, you may begin to notice a reduced operating time because your long-term battery life is decreasing.	N/A
Your battery is able to charge normally. However, it is reaching the end of its usable life. You can experience a longer operating time with a new battery.	Consider purchasing a replacement battery now.
Your battery can no longer provide sufficient power to your system and needs to be replaced.	Purchase a replacement battery now, and install it into your system.
Your battery no longer operates and needs to be replaced.	Purchase a replacement battery now, and install it into your system.
The power adapter wattage for your system does not meet minimum system requirements for normal operation, and it is also too low to support ExpressCharge™ technology for your battery.	Attach a supported power adapter with the wattage displayed in the alert.
The power adapter wattage for your system is too low to support ExpressCharge™ technology for your battery.	Attach a supported power adapter with the wattage displayed in the alert.
The power adapter attached to your system is not recognized.	Attach a supported power adapter with the wattage displayed in the alert.
The power adapter wattage for your system does not meet minimum system requirements for normal operation.	Attach a supported power adapter with the wattage displayed in the alert.
You have attached an undersized adapter to your system. To continue operating normally, your system may draw power from the battery. The battery charges only when the power provided by the adapter is greater than the needs of your system.	Attach a supported power adapter with the wattage displayed in the alert.

# Administration

This chapter provides details about Dell Command | Power Manager administrative features, including installing, uninstalling, and upgrading the software and enabling and customizing Group Policies.

 **CAUTION:** The tasks in this chapter should be performed only by a System Administrator.


## Installing The Software

Dell Command | Power Manager is available as a factory-installed option on supported systems and released as a Dell Update Package (DUP, available at [dell.com/support](http://dell.com/support)). The installer is OS-specific and a different DUP is required for 32-bit and 64-bit systems. System administrators can install, uninstall, and upgrade the software using the DUP installation wizard or the [command line interface](#) (CLI).

 **CAUTION:** Dell Power Manager and Dell Feature Enhancement Pack (DFEP) cannot exist on the same system. To prevent conflicts, before installing DFEP, you must first uninstall Dell Power Manager.

### Installing, Uninstalling, And Upgrading Using the DUP File


Dell Command | Power Manager is a factory-installed option for certain systems; however, System Administrators can also install, uninstall, and upgrade the software using the Dell Update Package (DUP) available at [dell.com/support](http://dell.com/support).


 **NOTE:** “DUP.exe” is a representation of the DUP file you will download from [dell.com/support](http://dell.com/support); the filename may be different.

1. Download the DUP.exe file from [dell.com/support](http://dell.com/support).
2. Double-click the \*.exe file to start the installation wizard.
3. Follow the steps in the wizard until you complete installation, unistallation, or upgrade.

### Installing, Uninstalling, And Upgrading From The CLI

Dell Command | Power Manager is a factory-installed option for certain systems; however, System Administrators can also install, upgrade, and uninstall the software from the command line interface (CLI), as described below. In order to use the CLI install option, you must first download and run the Dell Update Package (DUP) available at [dell.com/support](http://dell.com/support).

 **NOTE:** “DUP.exe” is a representation of the DUP file you will download from [dell.com/support](http://dell.com/support); the filename may be different.

 **NOTE:** Variables are italicized and enclosed in angle brackets. For example, for `<os_arch>`, enter 32 or 64 to indicate whether installing on a 32-bit or 64-bit operating system.

To install Dell Command | Power Manager using the DUP, use the following commands:

- Silent install  
`DUP.exe /s`
- Extract the DUP  
`DUP.exe /s /e=C:\extractedDir`

- Change the default log file location to a user-specified path

```
DUP.exe /l="<C:\log_path\log.txt>"
```

To install Dell Command | Power Manager using the **setup.exe** file, use one of the following options:

- Standard install with verbose logging

```
DCPM_Setup<os_arch>_2_0_0.exe /v"/l*v<log_file_path>"
```

For example:

```
DCPM_Setup64_2_0_0.exe /v"/l*v C:\Users\Administrator\Desktop\installlog.txt"
```

- Silent install

```
DCPM_Setup<os_arch>_2_0_0.exe /s /v"/qn"
```

For example:

```
DCPM_Setup64_2_0_0.exe /s /v"/qn"
```

- Silent install with verbose logging

```
DCPM_Setup<os_arch>_2_0_0.exe /s /v"/l*v<log_file_path>"
```

For example:

```
DCPM_Setup64_2_0_0.exe /s /v"/l*v C:\Users\Administrator\Desktop\installlog.txt /qn"
```

- Uninstall

```
DCPM_Setup<os_arch>_2_0_0.exe /x
```

For example:

```
DCPM_Setup64_2_0_0.exe /x
```



**NOTE:** Dell recommends uninstalling the application using the Windows "Program and Features" screen available from the Control Panel.

## Group Policy Templates

Administrators can quickly and easily apply the same Dell Command | Power Manager settings across multiple systems using the Group Policy feature in Windows Server. For more information on Windows Group Policies, see the TechNet article at <http://technet.microsoft.com/en-us/windowsserver/bb310732.aspx>.

After applying a Group Policy Template to a system, end users cannot change the settings associated with that template. Instead, a lock icon is displayed in the Dell Command | Power Manager user interface next to each setting that is locked by a Group Policy.

To use Group Policy Templates:

1. [Install](#) the Group Policy Management Console.
2. [Enable](#) Group Policy Templates.
3. Optionally, [customize](#) one or more templates.
4. [Apply](#) templates to specific systems, groups, or users.

**NOTE:**

If all of the available settings are restricted by the administrator, the user will not be able to change any configuration components. However, if the administrator stipulates only some of the settings, the remaining settings will be available for the user to configure.

Restricting settings via group policy does not change the current battery settings in the Dell Command | Power Manager UI or system BIOS. If the group policy settings don't match the current settings, the UI and system BIOS will continue to show the currently selected settings and the **Change Setting** button will be available in the UI. However, if the group policy settings match the current settings, then the **Change Setting** button will not be displayed.

## Installing The Group Policy Management Console

Dell Command | Power Manager uses the Group Policy Management Console (GPMC) in Windows Server to administer Group Policies. The GPMC feature is included in Windows Server 2008 and 2012; however, it does not automatically install with the operating system. An administrator must install the GPMC on the domain server using Server Manager or Windows PowerShell. For detailed instructions on installing the GPMC, see the TechNet article at <http://technet.microsoft.com/en-us/library/cc725932.aspx>.

In addition to installing the GPMC, an administrator must set Active Directory as a server role. In Server Manager, right-click **Roles**, and then click **Add Roles**. On the **Server Roles** screen, select **Active Directory Domain Services**, and complete the wizard.

## Enabling Group Policy Templates

Before creating, applying, or changing Group Policy Templates, an administrator must first make the templates available in the Group Policy Management Console (GPMC).

1. Obtain and extract the Dell Command | Power Manager Dell Update Package (DUP).
  - You can download the Dell Command | Power Manager DUP for your system from [dell.com/support](http://dell.com/support).
  - Once you have downloaded the package, run it and choose the **Extract** option to extract the files.
2. On the domain server, go to the directory where you have extracted Dell Command | Power Manager in previous step.
3. Open the `PolicyDefinitions` folder.
4. Copy the `.admx` files in the `PolicyDefinitions` folder to the default Windows `PolicyDefinitions` folder—typically, the default path is `C:\Windows\PolicyDefinitions\`.



**NOTE:** If the files are not visible from the server, it may be necessary to copy them to a local source first.

5. Copy the `.adml` files in the `PolicyDefinitions\<language>\` folder (for example, `PolicyDefinitions\En\`) to `C:\Windows\PolicyDefinitions\<language>\`.

The Group Policies will now be available in the GPMC under **Administrative Templates**.



## Customizing A Group Policy Template

Dell Command | Power Manager includes a number of Group Policy settings that administrators can customize based on their domain and environment requirements. To configure Dell Command | Power Manager Group Policy settings:

1. Open the Group Policy Management Editor.
  - a. Click **Server Manager** → **Features** → **Group Policy Management** → **Forest:<DomainName>** → **Domains** → **<DomainName>**
  - b. Right-click the **Default Domain Policy** and select **Edit**.
2. In the left pane, expand **Computer Configuration** → **Policies** → **Administrative Templates** → **System** → **Dell** → **Command Power Manager**.
3. In the left pane, select one of the categories to configure the settings you want to apply to the domain.


For example, under **Battery Information**, there is an option to change the default **Order Battery Link** that is displayed in the Dell Command | Power Manager UI. You can use this setting to specify a custom URL if your company has its own procurement department and a web page to support it.

For a complete list of available group policy settings and their values, see the [Group Policy Templates Reference](#) or the Group Policy Management Editor on your domain server.

## Applying A Group Policy Template

Administrators can apply a Group Policy Template to specific systems, groups, or users by associating the Group Policy Object (GPO) with an Active Directory Organizational Unit (OU) in the Group Policy Management Editor.

1. Create a new Group Policy Object (GPO).
  - a. In Group Policy Management for your domain, expand the tree to **Group Policy Objects**.
  - b. Right-click the **Group Policy Objects** group and create a new GPO.
  - c. Enter a **Name** for the GPO, and then click **OK**.
2. Add a policy to the new GPO.
  - a. In Group Policy Management for your domain, right-click on the new GPO you created in previous step and select **Edit**.
  - b. In the left-hand pane, select **Computer Configuration** → **Policies** → **Administrative Templates** → **System** → **Dell Command | Power Manager**.
  - c. Set the desired policy.
3. Create an Active Directory OU, if one does not already exist.
  - a. In Active Directory, right-click the domain, and then select **New** → **Organizational Unit**.
  - b. Enter a **Name** for the organizational unit, and then click **OK**.
  - c. In the right pane, right-click the new OU, select **New**, and then select the system, group, or users to which this policy will apply.
4. Link the GPO to the OU.
  - a. Close Active Directory and the Group Policy Management Editor, if they are open.

 **NOTE:** You must restart the Group Policy Management Editor to see new OUs.
  - b. Reopen the Group Policy Management Editor.
  - c. Select **Group Policy Management** → **Domains** → **<DomainName>**
  - d. Right-click the OU, and select **Link an existing GPO**.
  - e. Select the GPO created in a previous step, and then click **OK**.

## Immediately Applying Changes To Client Systems

Changes to Group Policy Templates don't immediately apply to systems, because they must first replicate to the domain controller. Also, client systems can take up to 90 minutes to refresh Group Policy Objects. For detailed information, see the TechNet article at [http://technet.microsoft.com/en-us/library/cc782584\(v=ws.10\).aspx](http://technet.microsoft.com/en-us/library/cc782584(v=ws.10).aspx).

Administrators can take manual steps to force updates to take effect immediately:

1. On the client system, open the command window.
2. Enter the following command.  
`GPUpdate /force`
3. Press the <ENTER> key.

In Windows Server 2012, administrators can also force client updates from the Group Policy Management Console (GPMC). For detailed information, see the TechNet article at <http://technet.microsoft.com/en-us/library/jj134201.aspx>.

## Group Policy Templates Reference

This section provides a reference of all available group policies, their descriptions, and available settings.


All of the described group policy settings have three possible values:

- Enabled—Group policy is enabled for the setting and users *cannot* change it in their client operating system.
- Disabled—Group policy is disabled for the setting and users *can* change it in their client operating system.
- Not Configured—Group policy is not configured for the setting. This has the same effect as the *Disabled* option: users can see and change this setting in their operating system.

## Advanced Charge Group Policy Templates


The following group policy settings are available for Advanced Charge:


Policy Setting Name	Feature Enablement								
Description	Enabling this feature allows you to determine whether or not feature functionality is available within the Dell Command   Power Manager GUI (and to individual users), or is removed altogether from the Dell Command   Power Manager GUI.								
Setting Options	<table><thead><tr><th>Option</th><th>Result</th></tr></thead><tbody><tr><td>On</td><td>Turns on the Advanced Charge feature; applies the individual day and time settings to the system (default).</td></tr><tr><td>Off</td><td>Turns off the Advanced Charge feature; the system ignores individual day and time settings.</td></tr><tr><td>Remove</td><td>Removes the Advanced Charge feature tab from the GUI.</td></tr></tbody></table>	Option	Result	On	Turns on the Advanced Charge feature; applies the individual day and time settings to the system (default).	Off	Turns off the Advanced Charge feature; the system ignores individual day and time settings.	Remove	Removes the Advanced Charge feature tab from the GUI.
Option	Result								
On	Turns on the Advanced Charge feature; applies the individual day and time settings to the system (default).								
Off	Turns off the Advanced Charge feature; the system ignores individual day and time settings.								
Remove	Removes the Advanced Charge feature tab from the GUI.								

Policy Setting Name	<p>&lt;Day of the week&gt;</p> <p> <b>NOTE:</b> This policy is the same for all days of the week and available policies are named Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.</p>										
Description	<p>To disable this day, set all the hour and minute fields to 0 (zero).</p> <p>To configure Start Time for the day.</p> <ul style="list-style-type: none"> <li>• Set Hours: 0-23</li> <li>• Set Minutes: 0,15,30,45</li> </ul> <p>To configure End Time for the day.</p> <ul style="list-style-type: none"> <li>• Set Hours: 0-23</li> <li>• Set Minutes: 0,15,30,45</li> </ul>										
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## Battery Information Group Policy Templates

The following group policy settings are available for Battery Information:


Policy Setting Name	Battery Settings
Description	<p>This policy customizes the Battery Information settings. To customize these settings, select a battery setting, and then select an option from the drop-down list.</p> <p> <b>NOTE:</b> When <b>Custom</b> is selected, the <b>Start Charging</b> and <b>Stop Charging</b> values must be set.</p> <p>Below are general start/stop values. The values may vary between different systems. If a specified value is not within the client system's minimum or maximum capabilities, the client system's minimum or maximum value will be used. When specifying minimum and maximum values, keep in mind:</p> <ul style="list-style-type: none"> <li>• Minimum start value is 50%</li> <li>• Maximum stop value is 95%</li> <li>• The start and stop values must differ by more than 5%</li> </ul>



	 <b>NOTE:</b> When <b>Lock current BIOS setting</b> is selected, the UI displays the current BIOS battery setting as read-only.								
Setting Options	<p>Select the battery settings:</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><b>Setting</b></th> <th style="text-align: left;"><b>Acceptable values</b></th> </tr> </thead> <tbody> <tr> <td>Select a battery setting</td> <td> <ul style="list-style-type: none"> <li>• None</li> <li>• Standard</li> <li>• ExpressCharge</li> <li>• Primarily AC Use</li> <li>• Adaptive</li> <li>• Custom</li> <li>• Lock current BIOS setting</li> </ul> </td> </tr> <tr> <td>Start Charging (required only when Custom battery setting is selected)</td> <td>0-100</td> </tr> <tr> <td>Stop Charging (required only when Custom battery setting is selected)</td> <td>0-100</td> </tr> </tbody> </table> <p>Select the battery settings to be disabled (prevent it from being available in the client's UI):</p> <ul style="list-style-type: none"> <li>• Standard</li> <li>• ExpressCharge</li> <li>• Adaptive</li> <li>• Custom</li> <li>• Primarily AC Use</li> </ul>	<b>Setting</b>	<b>Acceptable values</b>	Select a battery setting	<ul style="list-style-type: none"> <li>• None</li> <li>• Standard</li> <li>• ExpressCharge</li> <li>• Primarily AC Use</li> <li>• Adaptive</li> <li>• Custom</li> <li>• Lock current BIOS setting</li> </ul>	Start Charging (required only when Custom battery setting is selected)	0-100	Stop Charging (required only when Custom battery setting is selected)	0-100
<b>Setting</b>	<b>Acceptable values</b>								
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Start Charging (required only when Custom battery setting is selected)	0-100								
Stop Charging (required only when Custom battery setting is selected)	0-100								
<b>Policy Setting Name</b>	<b>Order Battery Link</b>								
Description	This policy customizes the order battery link. The default is a URL link to <a href="http://www.dell.com/batteryhealthmeter">http://www.dell.com/batteryhealthmeter</a> . You can enter a URL or a <code>mailto:</code> address (for example, <code>mailto:your@email.address</code> ). A <code>mailto:</code> address will require an email client to be installed on the client system.								
Setting Options	<table border="0"> <thead> <tr> <th style="text-align: left;"><b>Setting</b></th> <th style="text-align: left;"><b>Acceptable values</b></th> </tr> </thead> <tbody> <tr> <td>Customize the order battery link</td> <td>URL or <code>mailto:</code> address</td> </tr> </tbody> </table>	<b>Setting</b>	<b>Acceptable values</b>	Customize the order battery link	URL or <code>mailto:</code> address				
<b>Setting</b>	<b>Acceptable values</b>								
Customize the order battery link	URL or <code>mailto:</code> address								

## Peak Shift Group Policy Templates

The following group policy settings are available for Peak Shift:


Policy Setting Name	Feature Enablement								
Description	Enabling this feature allows you to determine whether or not feature functionality is available within the Dell Command   Power Manager GUI (and to individual users), or is removed altogether from the Dell Command   Power Manager GUI.								
Setting Options	<table border="1"> <thead> <tr> <th>Option</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>On</td> <td>Turns on the Peak Shift feature; applies the individual day and time settings to the system (default).</td> </tr> <tr> <td>Off</td> <td>Turns off the Peak Shift feature; the system ignores the individual day and time settings.</td> </tr> <tr> <td>Remove</td> <td>Removes the Peak Shift feature tab from the GUI.</td> </tr> </tbody> </table>	Option	Result	On	Turns on the Peak Shift feature; applies the individual day and time settings to the system (default).	Off	Turns off the Peak Shift feature; the system ignores the individual day and time settings.	Remove	Removes the Peak Shift feature tab from the GUI.
Option	Result								
On	Turns on the Peak Shift feature; applies the individual day and time settings to the system (default).								
Off	Turns off the Peak Shift feature; the system ignores the individual day and time settings.								
Remove	Removes the Peak Shift feature tab from the GUI.								

Policy Setting Name	Restore AC Power Threshold								
Description	<p>Typical uses for these settings are:</p> <ul style="list-style-type: none"> <li>Set the minimum and maximum threshold limits and leave the <b>Threshold value</b> field blank. This sets a limit for the range, but allows the threshold value to be modified in the user interface.</li> </ul> <p>OR:</p> <ul style="list-style-type: none"> <li>Set <b>Threshold value</b> and leave the <b>Minimum threshold limit</b> and <b>Maximum threshold limit</b> blank. This value will be locked and cannot be modified in the user interface.</li> </ul> <p>To set a range for the threshold limits, enter the <b>Minimum</b> (1 - 100) and <b>Maximum</b> (Minimum - 100) values. If a minimum or maximum limit is not within the client system's minimum or maximum capabilities, the client system's minimum or maximum limit will be used.</p> <p> <b>NOTE:</b> The system will use default values if invalid values are set.</p>								
Setting Options	<table border="1"> <thead> <tr> <th>Setting</th> <th>Acceptable values</th> </tr> </thead> <tbody> <tr> <td>Minimum threshold limit (enter a value 1 through maximum threshold limit).</td> <td>1-100</td> </tr> <tr> <td>Maximum threshold limit (enter a value greater than minimum threshold).</td> <td>1-100</td> </tr> <tr> <td>Threshold value (enter the enforced threshold value).</td> <td>1-100</td> </tr> </tbody> </table>	Setting	Acceptable values	Minimum threshold limit (enter a value 1 through maximum threshold limit).	1-100	Maximum threshold limit (enter a value greater than minimum threshold).	1-100	Threshold value (enter the enforced threshold value).	1-100
Setting	Acceptable values								
Minimum threshold limit (enter a value 1 through maximum threshold limit).	1-100								
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Threshold value (enter the enforced threshold value).	1-100								

Policy Setting Name	<Day of the week>  <b>NOTE:</b> This Policy is same for all days of the week and available policies are named Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.										
Description	<p>To disable this day, set all the hour and minute fields to 0 (zero).</p> <p>To configure the time to operate on battery power only:</p> <ul style="list-style-type: none"> <li>• Set Hours: 0-23</li> <li>• Set Minutes: 0,15,30,45</li> </ul> <p>To configure the time to operate on AC power without charging battery:</p> <ul style="list-style-type: none"> <li>• Set Hours: 0-23</li> <li>• Set Minutes: 0,15,30,45</li> </ul> <p> <b>NOTE:</b> To disable this setting, set the hour and minutes as the same as <b>Set the time to resume normal power/charge operation</b> hour and minutes, or leave blank the settings within the <b>Operate on battery power only</b> and <b>Resume normal power/charge operation</b> fields.</p> <p>To configure the time to resume normal power/charge operation:</p> <ul style="list-style-type: none"> <li>• Set Hours: 0-23</li> <li>• Set Minutes: 0,15,30,45</li> </ul>										
Setting Options	<table border="0"> <thead> <tr> <th style="text-align: left;"><b>Setting</b></th> <th style="text-align: left;"><b>Acceptable values</b></th> </tr> </thead> <tbody> <tr> <td>Set start of day time:</td> <td> <ul style="list-style-type: none"> <li>• 0-23</li> <li>• 0,15,30,45</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Hours</li> <li>• Minutes</li> </ul> </td> <td></td> </tr> <tr> <td>Set end of day time:</td> <td> <ul style="list-style-type: none"> <li>• 0-23</li> <li>• 0,15,30,45</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Hours</li> <li>• Minutes</li> </ul> </td> <td></td> </tr> </tbody> </table>	<b>Setting</b>	<b>Acceptable values</b>	Set start of day time:	<ul style="list-style-type: none"> <li>• 0-23</li> <li>• 0,15,30,45</li> </ul>	<ul style="list-style-type: none"> <li>• Hours</li> <li>• Minutes</li> </ul>		Set end of day time:	<ul style="list-style-type: none"> <li>• 0-23</li> <li>• 0,15,30,45</li> </ul>	<ul style="list-style-type: none"> <li>• Hours</li> <li>• Minutes</li> </ul>	
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## System Event Notification Group Policy Templates

The following group policy settings are available for Power Alerts system notifications:

 **NOTE:** Notifications display in a standard Windows message box with an exclamation icon.

Policy Setting Name	<b>Battery Alerts</b>
Description	This policy disables/enables selected battery notifications.
Setting Options	Select the alert(s) to disable:

(Enabled by default)	<ul style="list-style-type: none"> <li>Your notebook does not recognize the attached battery.</li> <li>The system cannot communicate with your battery.</li> <li>Your battery can no longer provide sufficient power to your system and needs to be replaced.</li> <li>Your battery no longer operates and needs to be replaced.</li> <li>The system is now switching to a reserve battery with limited performance. Save your work, and connect to a direct power source as soon as possible.</li> <li>Your notebook does not support the attached battery slice.</li> </ul>
Setting Options (Disabled by default)	<p>Select the alert(s) to enable:</p> <ul style="list-style-type: none"> <li>Your battery is able to charge normally. However, you may begin to notice a reduced operating time because your long-term battery life is decreasing.</li> <li>Your battery is able to charge normally. However, it is reaching the end of its usable life. You can experience a longer operating time with a new battery. You may want to consider purchasing a replacement battery now.</li> </ul>

<b>Policy Setting Name</b>	<b>Adapter Alerts</b>
Description	<p>This policy disables alerts for adapter notifications. The adapter alerts apply to single or dual adapter messages.</p> <p>Single adapter is an adapter plugged into either the notebook or docking station.</p> <p>Dual adapter is an adapter plugged directly into the notebook and another adapter plugged into the docking station while the notebook is docked.</p>
Setting Options	<p>Select the alert(s) to disable:</p> <ul style="list-style-type: none"> <li>The power adapter attached to your notebook/docking station is not recognized.</li> <li>The power adapter wattage for your notebook/docking station does not meet minimum system requirements for normal operation.</li> <li>The power adapter wattage for your notebook/docking station is too low to support ExpressCharge™ technology for your battery.</li> </ul>

<b>Policy Setting Name</b>	<b>Docking Station Alerts</b>
Description	This policy disables docking station notification alerts.
Setting Options	Select the alert(s) to disable:

- The battery currently attached to your system cannot supply enough power to your docking station for it to operate normally.



# Troubleshooting

## Viewing the Event Log

Dell Command | Power Manager logs errors and events in the Windows Event log.

1. Click the Windows start button.
2. Click **Control Panel** → **Administrative Tools**.
3. Double-click the **Event Viewer** to open the application in a new window.
4. In the left pane, expand **Windows Logs**, and then click **Application**.
5. In the right pane, click **Filter Current Log...**  
The **Filter Current Log** window displays.
6. In the **Event sources** drop-down menu, select **Dell Power Manager**.
7. Optionally, select one or more **Event level** options.
8. Click **OK** to display Dell Command | Power Manager errors and events of the specified levels.