

# Dell Command | PowerShell Provider

## Version 1.2 Release Notes



# 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.

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# Release Type and Definition

Dell Command | PowerShell Provider is a PowerShell module that provides BIOS configuration capability to Dell client systems such as OptiPlex, Latitude, Venue Pro Tablet, XPS, and Dell Precision workstation using Windows PowerShell Interface. Dell Command | PowerShell Provider can be installed as plug-in software registered within Windows PowerShell environment. Dell Command | PowerShell Provider works for local and remote systems, and even in Windows pre-installation environment. This module, with its native configuration capability, makes BIOS configuration most manageable for system administrators.

## Version

1.2

## Release Date

January 2017

## Previous Version

1.1



# Importance

RECOMMENDED: Dell recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules (firmware, BIOS, drivers and software).



# Platform(s) Affected

- OptiPlex
- Latitude
- Venue Pro Tablet
- XPS Notebook
- Precision

# Supported Operating Systems

Dell Command | PowerShell Provider supports the following operating systems:

- Microsoft - Windows 7 64-bit - Ultimate
- Microsoft - Windows 7 64-bit – WinPE 3.0
- Microsoft - Windows 7 64-bit - Professional
- Microsoft - Windows 10 64-bit - PRO
- Microsoft - Windows 10 64-bit – WinPE 10.0
- Microsoft - Windows 10 64-bit - Home
- Microsoft - Windows 10 64-bit – Enterprise LTSC



# What's new in this release


The new features for this release include:

- Support for new platforms.
- Updated attribute names and possible values.



**NOTE: To view the complete list of the new and the older names.**

- Go to **dell.com/techcenter** and search for Dell Command | PowerShell Provider page using the **Search box** at the top-right corner of the page.
  - On the Dell Command | PowerShell Provider page, click **Reference list for updated names of attributes and possible values** link.
- Support for Desired State Configuration (DSC).
  - Support for displaying the meaningful attribute names that are similar to BIOS setup screen names, in a ShortDescription column.
  - Support for displaying platform-specific possible values for the attributes in *PossibleValues* property.
  - Support for new property: *UnSupportedPossibleValue* for displaying additional possible values for the attribute that are not supported on the current platform.
  - Support for the following new BIOS attributes:
    - In **AdvancedBootOptions** category
      - \* AttemptLegacyBoot
      - \* UefiBootPathSecurity
    - In **BIOSSetupAdvancedMode** category
      - \* AdvancedMode
    - In **Maintenance** category
      - \* AllowBIOSDowngrade
      - \* BiosAutoRcvr
      - \* BiosIntegrityCheck
      - \* BiosRcvrFrmHdd
    - In **Manageability** category
      - \* UsbProvision
    - In **MiscellaneousDevices** category
      - \* MiniCardSSDDevice
      - \* OnboardModem
      - \* PCMCIA
      - \* SdCard
      - \* SdCardBoot
      - \* SdCardReadOnly
    - In **Performance** category
      - \* CpuSnoopMode
      - \* IntelRapidStartInstantOnDisplay
      - \* CpuCore
      - \* MultiCoreSupport
      - \* NodeInterleave
      - \* SystemIsochronousMode
    - In **POSTBehavior** category

- \* FullScreenLogo
- \* PostF2Key
- \* PostHelpDeskKey
- \* SignOfLifeIndication
- \* WyseP25Access
- In **PowerManagement** category
  - \* BlinkPowerSupply1LED
  - \* BlinkPowerSupply2LED
  - \* DockBatteryChargeConfiguration
  - \* FanSpeedLvl
  - \* LidSwitch
  - \* ModBattChargeCfg
  - \* SleepMode
  - \* SfpwakeOnLan
  - \* TypeCPower
  - \* WakeOnDock
- In **PreEnabled** category
  -  **NOTE: This category describes the miscellaneous BIOS settings.**
  - \* BiosConnectActivation
  - \* CpuRSA
  - \* DisGpuExtDisplay
  - \* FaultTolerantMemLogClear
  - \* GpsWwan
  - \* MemFaultToTimeLmt
  - \* MemPerMonitor
  - \* MemRSA
  - \* PcieRSA
  - \* PwrOffWlanStealthMode
  - \* RecoveryTool
  - \* ServiceOSClear
  - \* UsbWakeS4En
- In **ProcessorInformation** category
  - \* ProcessorID
- In **Security** category
  - \* ChassisIntrusionStatus
  - \* GeneralPurposeEncryption
  - \* IntIPatformTrust
  - \* WirelessSwitchChanges
- In **SupportAssistSystemResolution** category
  - \* AutoOSRecoveryThreshold
  - \* BiosConnect
  - \* EnableSupportAssistOSRecovery
- In **SystemConfiguration** category
  - \* CanBus
  - \* ForcePxeNextBoot



- \* ForcePXEasFirstBootDevice
- \* IntegratedSas
- \* InternalSpeaker
- \* IoModule
- \* KbdBacklightTimeoutAc
- \* KbdBacklightTimeoutBatt
- \* LiquidCooler1, and LiquidCooler2
- \* M2PcieSsd0, and M2PcieSsd1
- \* Microphone
- \* MmioAbove4Gb
- \* NearFieldComputing
- \* OptionalBootSequence
- \* PciAllocationPriority
- \* PciMmioSpaceSize
- \* PowerButton
- \* SFP
- \* Touchscreen
- \* UnobtrusiveMode
- In **SystemLogs** category
  - \* PowerLogClear
  - \* ThermalLogClear
- In **USBConfiguration** category
  - \* AlwaysAllowDellDocks
  - \* FrontUSB3.0Ports
  - \* RearUSB3.0Ports
  - \* ThunderboltBoot
  - \* UsbPortsRear1, UsbPortsRear2, UsbPortsRear3, and UsbPortsRear4
  - \* USBPort06, USBPort08, and USBPort09
  - \* USBPort12, USBPort13, USBPort14, USBPort15, USBPort16, USBPort17, USBPort18, and USBPort19
  - \* USBPort24, USBPort25, USBPort26, USBPort27, USBPort28, and USBPort29
  - \* UsbPortsSide1, and UsbPortsSide2
  - \* UsbRearDual
  - \* UsbRearDual2Stack
  - \* UsbRearQuad
- In **Video** category
  - \* AmbLightSen
  - \* BootTimeVideo
  - \* DockDisplayPort1VideoSource
  - \* Optimus
- In **Wireless** category
  - \* WirelessSwitchUwb
  - \* WirelessSwitchWiGigCtrl
  - \* WirelessUwb



**NOTE:** For more details on these options, see *Dell Command | PowerShell Provider Reference Guide* available at [dell.com/dellclientcommandsuite/manuals](https://dell.com/dellclientcommandsuite/manuals).



# Fixes

Following issues were fixed during this release.

**Issue description: Error message ‘could not find the path’ was displayed due to ‘/’ during auto completion of the category name in the systems running Windows 8 and later**

This issue has been fixed now. User should be able to navigate to the location after using auto completion for the category name.

**Issue description: Success message was part of console and needed to be handled separately.**

This issue has been fixed now. Success message is now displayed as part of the verbose switch during set operation.

**Issue description: Unable to set KeyboardIllumination to ‘100’ percent using Dell Command | PowerShell Provider.**

This issue has been fixed now. KeyboardIllumination attribute can be set as ‘Bright’ (100%)..

**Issue description: Dell Command | PowerShell Provider showed MemoryTechnology attribute as ‘TBD’ on some platforms with the latest memory technology such as DDR4, LPDDR, LPDDR2, LPDDR3, or LPDDR4.**

This issue has been fixed now. MemoryTechnology attribute is now shown on the platforms with the latest technology such as DDR4, LPDDR,..etc.

**Issue description: HTCappable attribute displays ‘No’ even if supported in few systems.**

This issue has been fixed now. HTCappable attribute displays the accurate information.

# Known Issues

## **Issue: AdvancedBatteryChargeConfiguration attribute doesn't change the settings though operation successful message is displayed.**

**Description:** When AdvancedBatteryChargingMode is disabled, AdvancedBatteryChargeConfiguration attribute settings cannot be changed. The success message is displayed; however, the actual settings are not changed.

**Resolution:** Enable the AdvancedBatteryChargeMode, then configure the AdvancedBatteryChargingConfiguration. You can change AdvancedBatteryChargingMode as disabled again if you do not want to apply these settings.

 **NOTE: This issue will be addressed in the upcoming BIOS versions.**

## **Issue: SecureEraseSupported and SecureEraseEnabled parameters in HDDInfo displays 'No' even if enabled from BIOS setup screen.**

This issue will be addressed in the upcoming BIOS versions.

# Important Notes

Importing the DellBIOSProvider module may take some time.



# Installation Prerequisites

## Windows

- The Dell Command | PowerShell Provider installation file DellCommandPowerShellProvider1.2\_<build number>.zip.
- Administrator privileges on the Dell client system where you are installing Dell Command | PowerShell Provider.
- Windows Management Framework (WMF) 3.0 or later.
- PowerShell 3.0 or later.
- Microsoft Visual C++ redistributable 2010 and 2012.



# Installation, Upgrade, and Uninstallation Instructions

For information on installation, uninstallation, and upgrade of Dell Command | PowerShell Provider, see the Dell Command | PowerShell Provider User's Guide at [dell.com/dellclientcommandsuite/manuals](https://dell.com/dellclientcommandsuite/manuals).



# Contacting Dell

 **NOTE: Dell provides several online and telephone-based support and service options. If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog. Availability varies by country and product, and some services may not be available in your area.**

To contact Dell for sales, technical support, or customer-service issues:

1. Go to [dell.com/contactdell](http://dell.com/contactdell).
2. Select your country or region from the interactive world map. When you select a region, the countries for the selected regions are displayed.
3. Select the appropriate language under the country of your choice.
4. Select your business segment. The main support page for the selected business segment is displayed.
5. Select the appropriate option depending on your requirement.

 **NOTE: If you have purchased a Dell system, you may be asked for the Service Tag.**

