

Dell Command | PowerShell Provider 1.0

Release Notes



Version

1.0

Release Date:

October 2015

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.

Importance

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

Dell Command | PowerShell Provider is supported on Dell client systems across the OptiPlex, Latitude, Venue Pro Tablet, XPS, and Dell Precision workstation series. For the provider to run successfully, ensure the system is supported and has the latest BIOS.

To see the complete list of supported platforms and the corresponding BIOS version, refer <http://en.community.dell.com/techcenter/enterprise-client/w/wiki/6901.dell-command-powershell-provider>

Supported Operating Systems

Dell Command | PowerShell Provider 1.0 supports the following operating systems:

- Microsoft Windows 10 Core (32-bit and 64-bit)
- Microsoft Windows 10 Pro (32-bit and 64-bit)

- Microsoft Windows 10 Enterprise (32-bit and 64-bit)
- Microsoft Windows 8.1 Enterprise (32-bit and 64-bit)
- Microsoft Windows 8.1 Professional (32-bit and 64-bit)
- Microsoft Windows 8 Enterprise (32-bit and 64-bit)
- Microsoft Windows 8 Professional (32-bit and 64-bit)
- Microsoft Windows 7 Professional SP1 (32-bit and 64-bit)
- Microsoft Windows 7 Ultimate SP1 (32-bit and 64-bit)
- Windows 10 Pre-installation Environment (32-bit and 64-bit) (Windows PE 10.0)
- Windows 8.1 Pre-installation Environment (32-bit and 64-bit) (Windows PE 5.0)
- Windows 8 Pre-installation Environment (32-bit and 64-bit) (Windows PE 4.0)

Key Features

- Available as Microsoft Gallery module
- Support for the BIOS attributes segregated in following categories:
 - SystemInformation
 - MemoryInformation
 - ProcesserInformation
 - DeviceInformation
 - BatteryInformation
 - BootSequence
 - AdvanceBootOptions
 - SystemConfiguration
 - StealthModeControl
 - Video
 - Security
 - SecureBoot
 - Performance
 - PowerManagement
 - POSTBehavior
 - VirtualizationSupport
 - Wireless
 - Maintainance
 - SystemLogs
 - TPMSecurity
 - MiscellaneousDevices
 - USBConfiguration
 - AdvancedConfigurations
- Support for the following custom functions:
 - Clear-DellAdminPassword
 - Get-DellBiosSettings

- Get-DellBIOSPasswordPath
- Load-DellBIOSProvider
- Read-DellBIOSPassword
- Set-Dell1stBootdevice
- Set-DellAutoOnForSelectDays
- Write-DellBIOSPassword
- Support for integrated help at Provider level
- Support for Conceptual help
- Support for error reporting using built-in variable –ErrorVariable
- Support for password validation using Secure string
- Support for Cmdlet level help for the following (only for Get-ChildItem and Set-Item):
 - About_DellBIOSProvider
 - DellBIOSProvider
 - DellSmbiosProv
 - DellSmbios
 - Security
 - HDDPassword
 - PeakShiftDayConfiguration
 - AdvancedBatteryChargeConfiguration
 - AutoOn
 - PrimaryBatteryChargeConfiguration
 - KeyboardBacklightEnabledColors
 - KeyboardBacklightActiveColor
 - KeyboardBacklightCustom1Color
 - KeyboardBacklightCustom2Color
 - BootSequence
 - TPMSecurity
 - SecureBoot
- Support for PowerShell remoting

NOTE: For more information, see User's Guide and Reference Guide at <http://en.community.dell.com/techcenter/enterprise-client/w/wiki/6901.dell-command-powershell-provider>

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: Unable to set KeyboardIllumination to '100' percent.

Description: Setting KeyboardIllumination to '100' percent using Dell Command | PowerShell Provider is not possible.

Resolution: User can use BIOS setup screen or other alternative tools like Dell Command Configure, Dell Command Monitor for setting the KeyboardIllumination attribute value to '100' percent. This issue will be addressed in the upcoming BIOS versions.

Issue description: HTCappable attribute displays 'No' even if supported in few systems.

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

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

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

Issue description: Unable to upgrade from beta version to Dell Command | PowerShell Provider 1.0.

Resolution: Being the first version of Dell Command | PowerShell Provider, upgrade is not applicable as of now. If beta version is installed in your system, remove Dell Command | PowerShell Provider folders and files before installing Dell Command PowerShell | Provider 1.0.

Issue: Memory technology displays as 'TBD'

Description: Dell Command | PowerShell Provider shows MemoryTechnology as 'TBD' on some platforms which are having the latest memory technology such as DDR4, LPDDR, LPDDR2, LPDDR3, or LPDDR4.

Resolution: This issue will be fixed in the next release of Dell Command | PowerShell Provider.

Important Notes

Importing the DellBIOSProvider module may take some time.

Installation Prerequisites

Windows

- The Dell Command | PowerShell Provider installation file DellCommandPowerShellProvider1.0_<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/dellclientcommandssuitemanuals.

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.
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.

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