# Dell Systems Management - OpenManage Software Support Matrix Version 7.1

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

**CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.**

# 1. Introduction

The Dell Systems Management Software Support Matrix helps identify Dell OpenManage software and other Dell components supported on Dell PowerEdge/PowerVault systems, browsers, and operating systems.

This guide is intended for system administrators and technicians. The guide provides information about the available Dell systems, the operating systems supported by these systems, and the Dell OpenManage components that can be installed on these systems.

## What is New in This Release?

This release adds support for the following:

- PowerEdge Systems - M420, M520, M820, R320, R420, R520, T320, and T420
- PowerVault Systems - NX400, NX3200, and NX3300
- Red Hat Enterprise Linux 5.8 and 6.2
- VMware ESXi 5.1 (Added in Sep 2012)
- Support for PowerEdge OEM Ready server models that allow reseller custom branding. For more information, see **dell.com/oem**

## Structure of This Guide

This guide is organized on the basis of the Dell OpenManage suite of products and the operating systems on which these products are supported.

### Supported Dell OpenManage Systems Management Software

This chapter contains information about Dell OpenManage systems management software, *Dell OpenManage Server Administrator*, on Dell systems running supported operating systems.

#### Where can I find the Server Administrator One-to-One Agent?

Supported versions of Server Administrator are available at **support.dell.com** and also on the *Dell Systems Management Tools and Documentation* DVD.

### Supported Dell OpenManage Change Management Software

This chapter contains information about Dell OpenManage change management software on Dell systems running supported operating systems.

Dell OpenManage change management software includes:

- Dell Update Packages
- Server Update Utility

## Supported Dell OpenManage Systems Management Consoles

This chapter contains information about Dell OpenManage systems management consoles on Dell systems running supported operating systems.

Dell OpenManage systems management consoles include:

- Dell OpenManage Power Center 1.1
- Dell OpenManage Server Administrator
- Dell OpenManage IT Assistant

## Supported Dell Remote Access Controllers and Solutions

This chapter contains information about Dell Remote Access Controllers (DRAC), Integrated Dell Remote Access Controllers (iDRAC) versions and firmware, Baseboard Management Controllers (BMC) and IPMI protocol versions of Chassis Management Controllers (CMC).

## Supported Browsers

This chapter lists the supported browsers on various operating systems for Dell systems.

## Network Interface Controllers and Supported Operating Systems

This chapter contains information about Network Interface Controllers (NICs) and supported operating systems.

## RAID Controller Supported Servers, Operating Systems, Firmware, and Driver Versions

This chapter contains information about the servers that support RAID controllers, the version of the Storage Management Service, the version of the Dell Systems Management, the version of the Firmware required for a particular controller, and the supported operating systems, where each operating system requires a specific driver.

# Supported GUI Languages

Dell OpenManage is localized to *French*, *German*, *Spanish*, *Simplified Chinese*, and *Japanese*. languages.

The following table lists the languages of the Dell OpenManage GUI against the operating system languages. Dell OpenManage supports only the languages listed in the following table.

Table 1-1.  Supported Dell OpenManage GUI Languages

| Dell OpenManage GUI Languages | English Operating System | French Operating System | German Operating System | Spanish Operating System | Simplified Chinese Operating System | Japanese Operating System |
|---|---|---|---|---|---|---|
| English | X | X | X | X | X | X |
| French | | X | | | | |
| German | | | X | | | |
| Spanish | | | | X | | |
| Simplified Chinese | | | | | X | |
| Japanese | | | | | | X |

## 2. Supported Dell OpenManage Systems Management Software

Dell OpenManage systems management software is a suite of applications for Dell systems. This software allows you to manage your system with proactive monitoring, notification, and remote access.

Dell OpenManage systems management software consists of Dell OpenManage Server Administrator.

Dell OpenManage Server Administrator (Server Administrator) is a comprehensive, one-to-one systems management solution, designed for system administrators to manage systems locally and remotely on a network.

Server Administrator comprises the following services:

- Server Administrator Web Server
- Server Instrumentation
- Remote Enablement
- Remote Access Controller
- Storage Management

For more information, see the *Dell OpenManage Server Administrator User's Guide* available at **support.dell.com/manuals**.

# Documentation Conventions for Dell Systems

The following table lists the documentation conventions followed for Dell systems.

Table 2-1. Documentation Conventions for Dell Systems

| x9xx | yx0x | yx1x | yx2x |
|------|------|------|------|
| 1900 | M600 | M610 | M420 |
| 1950 | M605 | M610x | M520 |
| 1955 | M805 | M710 | M620 |
| 2900 | M905 | M710HD | M820 |
| 2950 | R200 | M910 | R320 |
| 2970 | R300 | M915 | R420 |
| 6950 | R805 | R210 | R520 |
| PowerVault DL2000 | R900 | R210 II | R620 |
|  | R905 | R310 | R720 |
|  | T100 | R410 | R720XD |
|  | T105 | R415 | R820 |
|  | T300 | R510 | T320 |
|  | T605 | R515 | T420 |
|  |  | R610 | T620 |
|  |  | R710 | PowerVault NX400 |
|  |  | R715 | PowerVault NX3200 |
|  |  | R810 | PowerVault NX3300 |
|  |  | R815 |  |
|  |  | R910 |  |
|  |  | T110 |  |
|  |  | T110 II |  |
|  |  | T310 |  |
|  |  | T410 |  |
|  |  | T610 |  |
|  |  | T710 |  |
|  |  | PowerVault DL2200 |  |
|  |  | PowerVault DX6000 |  |
|  |  | PowerVault NX200 |  |
|  |  | PowerVault NX300 |  |
|  |  | PowerVault NX3000 |  |
|  |  | PowerVault NX3100 |  |

# Supported Dell OpenManage Systems Management Software on Windows Operating Systems

The following table lists the supported Dell OpenManage 7.1 installation and systems management software on systems running supported Microsoft Windows operating systems.

**Systems Build and Update Utility (SBUU)** - The Dell System Build and Update Utility (SBUU) provide one-to-one deployment and single-server update capabilities in the pre-operating system environment.

An **X** in the intersection of the operating system and the Dell system columns indicates that Server Administrator and Dell Systems Build and Update Utility (SBUU) are supported on that operating system for the corresponding system.

An asterisk (**\***) in the intersection of the operating system and the Dell system columns indicates operating system support for Dell systems that do not support Dell OpenManage software.

Table 2-2. Supported Dell OpenManage 7.1 Systems Management Software on Systems Running Microsoft Windows Operating Systems

| Dell System | Microsoft Windows Server 2008 R2 x64 and SP1 — Foundation, Standard, and Enterprise | Microsoft Windows Server 2008 R2 x64 and SP1 — Data Center | Microsoft Windows Server 2008 R2 x64 and SP1 — Web | Microsoft Windows Server 2008 x86 and x64 SP1/SP2 — Foundation, Standard, Enterprise, and Datacenter | Microsoft Windows Small Business Server 2011 — Essentials | Microsoft Windows Small Business Server 2011 — Standard, Premium Add-on | Microsoft Windows Server 2008 and R2 — HPC Edition | Microsoft Windows Server 2003 — Compute Cluster Edition | Microsoft Windows Storage Server 2008 SP2 — Basic | Microsoft Windows Storage Server 2008 SP2 — Standard | Microsoft Windows Storage Server 2008 SP2 — Enterprise | Microsoft Windows Storage Server 2008 SP2 — Workgroup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R200 | X | X |  | X |  | X |  |  |  |  |  |  |
| R210 | X | X |  | X | X | X |  |  |  |  |  |  |
| R210 II | X | X |  | X |  | X |  |  |  |  |  |  |
| R300 | X | X |  | X |  | X |  |  |  |  |  |  |
| R310 | X | X |  | X | X | X |  |  |  |  |  |  |
| R320 | X |  | X | X |  |  |  |  |  |  |  |  |
| R410 | X | X | X | X |  | X | X |  |  |  |  |  |
| R415 | X | X | X | X |  | X | X |  |  |  |  |  |

| Dell System | Microsoft Windows Server 2008 R2 x64 and SP1 — Foundation, Standard, and Enterprise | Microsoft Windows Server 2008 R2 x64 and SP1 — Data Center | Microsoft Windows Server 2008 R2 x64 and SP1 — Web | Microsoft Windows Server 2008 x86 and x64 SP1/SP2 — Foundation, Standard, Enterprise, and Datacenter | Microsoft Windows Small Business Server 2011 — Essentials | Microsoft Windows Small Business Server 2011 — Standard, Premium Add-on | Microsoft Windows Server 2008 and R2 — HPC Edition | Microsoft Windows Server 2003 — Compute Cluster Edition | Microsoft Windows Storage Server 2008 SP2 — Basic | Microsoft Windows Storage Server 2008 SP2 — Standard | Microsoft Windows Storage Server 2008 SP2 — Enterprise | Microsoft Windows Storage Server 2008 SP2 — Workgroup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R420 | X | X | X | X | | | | | | | | |
| R510 | X | | X | X | | X | | | | | | |
| R515 | X | X | X | X | | X | | | | | | |
| R520 | X | X | | X | | | | | | | | |
| R610 | X | X | X | X | | X | X | | | | | |
| R620 | X | X | X | X | | | | | | | X | X |
| R710 | X | X | X | X | X | X | X | | | X | X | |
| R715 | X | X | X | X | X | X | X | | | X | X | |
| R720 | X | X | X | X | | | | | | | X | |
| R720XD | X | X | X | X | | | | | | | X | |
| R805 | X | | X | X | | X | | | X | | | |
| R810 | X | | X | X | | | | | | | | |
| R815 | X | | X | X | | | X | | | | | |
| R820 | X | X | | X | | | | | | | | |
| R900 | X | | X | X | | X | | | | | | |
| R905 | X | | X | X | | X | | | | | | |
| R910 | X | X | X | X | | | | | | | | |
| M420 | X | X | | X | | | | | | | | |
| M520 | X | X | | X | | | | | | | | |
| M600 | X | | X | X | | | | X | | | | |
| M605 | X | | X | X | | | | X | | | | |
| M610 | X | | X | X | | | X | | | | | |
| M610X | X | X | X | X | | | X | | | | | |
| M620 | X | X | | X | | | | | | | | |
| M710 | X | | X | X | | | X | | | | | |

| Dell System | Microsoft Windows Server 2008 R2 x64 and SP1 | | | Microsoft Windows Server 2008 x86 and x64 SP1/SP2 | Microsoft Windows Small Business Server 2011 | | Microsoft Windows Server 2008 and R2 | Microsoft Windows Server 2003 | Microsoft Windows Storage Server 2008 SP2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Foundation, Standard, and Enterprise | Data Center | Web | Foundation, Standard, Enterprise, and Datacenter | Essentials | Standard, Premium Add-on | HPC Edition | Compute Cluster Edition | Basic | Standard | Enterprise | Workgroup |
| M710HD | X | | X | X | | | | | | | | |
| M805 | X | X | X | X | | | | | | | | |
| M820 | X | X | | X | | | | | | | | |
| M905 | X | | X | X | | | | | | | | |
| M910 | X | X | X | X | | | | | | | | |
| T100 | * | | | * | | * | | | | | | |
| T105 | * | | | * | | * | | | | | | |
| T110 | X | | | X | | X | | | | | | |
| T110 II | X | X | | X | X | X | | | | | | |
| T300 | X | | | X | | X | | | | | | |
| T310 | X | | X | X | X | X | | | | | | |
| T320 | X | | X | | | | | | | | | |
| T410 | X | | X | X | | X | | | | | | |
| T420 | X | X | X | X | | X | | | | | | |
| T605 | X | | | X | | X | | | | | | |
| T610 | X | | X | X | | X | | | | | | |
| T620 | X | X | X | X | | | | | | | | |
| T710 | X | | X | X | | X | | | | | | |
| PowerEdge 1900 | X | | | X | | X | | | | | | |
| PowerEdge 1950 | X | X | X | X | | X | | X | | | | |
| PowerEdge 1955 | X | | X | X | | X | | X | | | | |
| PowerEdge 2900 | X | | | X | | X | | | | | | |
| PowerEdge 2950 | X | X | X | X | | X | | X | | | | |
| PowerEdge 2970 | X | X | X | X | | X | | X | | | | |
| PowerEdge 6950 | X | | X | X | | X | | | | | | |

| Dell System | Microsoft Windows Server 2008 R2 x64 and SP1 | | | Microsoft Windows Server 2008 x86 and x64 SP1/SP2 | Microsoft Windows Small Business Server 2011 | | Microsoft Windows Server 2008 and R2 | Microsoft Windows Server 2003 | Microsoft Windows Storage Server 2008 SP2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Foundation, Standard, and Enterprise | Data Center | Web | Foundation, Standard, Enterprise, and Datacenter | Essentials | Standard, Premium Add-on | HPC Edition | Compute Cluster Edition | Basic | Standard | Enterprise | Workgroup |
| PowerVault DL2100 | X | X | X | X | | X | | | | | | |
| PowerVault DL2200 | X | X | X | X | | X | | | | | | |
| DP100 | X | X | X | | X | | | | | | | |
| PowerVault DX6000 | X | X | X | X | | X | | X | | | | |
| FS7500 | X | X | X | X | | X | | | | | | |
| NF100 | X | X | X | X | | X | | | | | | |
| PowerVault NX1950 | X | X | X | X | | X | | | | | | |
| PowerVault NX200 | | | | | | | | X | | | | |
| PowerVault NX300 | X | X | X | X | | X | | X | | X | | X |
| PowerVault NX3000 | X | X | X | X | | X | | | | X | X | |
| PowerVault NX3100 | X | X | X | X | | X | | | | X | | |
| PowerVault NX3500 | | | | | | | | | X | X | X | X |

# Supported Dell OpenManage Systems Management Software on Linux Operating Systems

The following table lists the supported Dell OpenManage 7.1 installation and systems management software on systems running supported Linux operating system.

An **X** in the intersection of the operating system and the Dell system columns indicates that Server Administrator and Dell Systems Build and Update Utility are supported on that operating system for the corresponding Dell system.

An asterisk (**\***) in the intersection of the operating system and the Dell system columns indicates operating system support for Dell systems that do not support Dell OpenManage software.

Table 2-3. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

| Dell System | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| R200 | X | X | X | X | X |
| R210 | X | X | X | X | X |
| R210 II | X | X | X | X | X |
| R300 | X | X | X | X | X |
| R310 | X | X | X | X | X |
| R320 | X | X | X | X | X |
| R410 | X | X | X | X | X |
| R415 | X | X | X | X | X |
| R420 | X | X | X | X | X |
| R510 | X | X | X | X | X |
| R515 | X | | | X | X |
| R520 | X | X | X | X | X |
| R610 | X | X | X | X | X |
| R620 | X | X | X | | X |
| R710 | X | X | X | X | X |
| R715 | X | X | X | X | X |
| R720 | X | X | X | X | X |
| R720XD | X | X | X | X | X |
| R805 | X | X | X | X | X |
| R810 | X | X | X | X | X |
| R815 | X | X | X | X | X |
| R820 | X | X | X | X | X |
| R900 | X | X | X | X | X |
| R905 | X | X | X | X | X |
| R910 | X | X | X | X | X |
| M420 | X | X | X | X | X |
| M520 | X | X | X | X | X |
| M600 | X | X | X | X | X |
| M605 | X | X | X | X | X |

| Dell System | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| M610 | X | X | X | X | X |
| M610X | X | X | X | X | X |
| M620 | X | X | X | X | X |
| M710 | X | X | X | X | X |
| M710HD | X | X | X | X | X |
| M805 | X | X | X | X | X |
| M820 | X | X | X | X | X |
| M905 | X | X | X | X | X |
| M910 | X | X | X | X | X |
| T100 | * | X | * | * | X |
| T105 | * | X | * | * | X |
| T110 | X | X | X | X | X |
| T110 II | X | X | X | X | X |
| T300 | X | X | X | X | X |
| T310 | X | X | X | X | X |
| T320 | X | X | X | X | X |
| T410 | X | X | X | X | X |
| T420 | X | X | X | X | X |
| T605 | X | X | X | X | X |
| T610 | X | X | X | X | X |
| T620 | X | X | X | X | X |
| T710 | X | X | X | X | X |
| PowerEdge 1900 | X | X | X | X | X |
| PowerEdge 1950 | X | X | X | X | X |
| PowerEdge 1955 | X | X | X | X | X |
| PowerEdge 2900 | X | X | X | X | X |
| PowerEdge 2950 | X | X | X | X | X |
| PowerEdge 2970 | X | X | X | X | X |
| PowerEdge 6950 | X | X | X | X | X |
| PowerEdge 6800 | X | X | X | X | X |
| PowerEdge 6850 | X | X | X | X | X |

# Supported Dell OpenManage Systems Management Software on Virtualization Operating Systems

An **X** in the intersection of the operating system and the Dell system columns indicates that the Server Administrator and Dell Systems Build and Update Utility are supported on that operating system for the corresponding Dell system.

An asterisk (**\***) in the intersection of the operating system and the Dell system columns indicates operating system support for Dell systems that do not support Dell OpenManage software.

The following table lists the supported Dell OpenManage 7.1 installation and systems management software on systems running supported Virtualization operating systems.

Table 2-4. Supported Dell OpenManage Systems Management Software on Systems Running Supported Virtualization Operating Systems

| Dell System | VMware | | | | | | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ESX 4.0 U3 | ESXi 4.0 U3 (HDD) | ESXi 4.0 U3 (Flash) | ESXi 4.1 U2 (HDD) | ESXi 4.1 U2 (Flash) | ESX 4.1 U2 (Classic Edition) | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | Xen Server 6.0 |
| R200 | X | X | | X | | X | X | X | X | X | |
| R210 | X | X | | X | | X | X | X | X | X | X |
| R210 II | | | | X | | X | X | X | X | X | X |
| R300 | X | X | | X | | X | X | X | X | X | X |
| R310 | X | X | | X | | X | X | X | X | X | X |
| R320 | X | X | | X | X | X | X | X | | | X |
| R410 | X | X | | X | | X | X | X | X | X | X |
| R415 | X | X | | X | | X | X | X | X | X | X |
| R420 | X | X | | X | X | X | X | X | | | X |
| R510 | X | X | X | X | X | X | X | X | X | X | X |
| R515 | X | X | | X | | X | X | X | X | X | X |
| R520 | X | X | | X | X | X | X | X | | | X |
| R610 | X | X | X | X | X | X | X | X | X | X | X |
| R620 | X | X | | X | X | X | X | X | X | X | X |
| R710 | X | X | X | X | X | X | X | X | X | X | X |
| R715 | X | X | X | X | X | X | X | X | X | X | X |
| R720 | X | X | | X | X | X | X | X | X | X | X |
| R720XD | X | X | | X | X | X | X | X | | | X |
| R805 | X | X | X | X | X | X | X | X | X | X | X |
| R810 | X | X | X | X | X | X | X | X | X | X | X |
| R815 | X | X | X | X | X | X | X | X | X | X | X |
| R820 | X | X | | X | X | X | X | X | X | X | X |

| Dell System | VMware | | | | | | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ESX 4.0 U3 | ESXi 4.0 U3 (HDD) | ESXi 4.0 U3 (Flash) | ESXi 4.1 U2 (HDD) | ESXi 4.1 U2 (Flash) | ESX 4.1 U2 (Classic Edition) | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | Xen Server 6.0 |
| R900 | X | X | X | X | X | X | X | X | X | X | X |
| R905 | X | X | X | X | X | X | X | X | X | X | X |
| R910 | X | X | X | X | X | X | X | X | X | X | X |
| M420 | X | X | | X | | X | X | X | | | X |
| M520 | X | X | | X | X | X | X | X | | | X |
| M600 | X | X | | X | | X | X | X | X | X | X |
| M605 | X | X | | X | | X | X | X | X | X | X |
| M610 | X | X | | X | X | X | X | X | X | X | X |
| M610X | X | X | X | X | X | X | X | X | X | X | X |
| M620 | X | X | | X | X | X | X | X | X | X | X |
| M710 | X | X | X | X | X | X | X | X | X | X | X |
| M710HD | X | X | X | X | X | X | X | X | X | X | X |
| M805 | X | X | X | X | X | X | X | X | X | X | X |
| M820 | X | X | | X | X | X | X | X | | | X |
| M905 | X | X | X | X | X | X | X | X | X | X | X |
| M910 | X | X | X | X | X | X | X | X | X | X | X |
| T100 | * | * | | * | | | * | X | * | * | |
| T105 | No Support | | | No Support | | | | | * | * | |
| T110 | X | X | | X | | | X | X | X | X | X |
| T110 II | | | | X | | | X | X | X | X | X |
| T300 | X | X | | X | | | X | X | X | X | |
| T310 | X | X | | X | | | X | X | X | X | X |
| T320 | X | X | | X | X | | X | X | | | X |
| T410 | X | X | | X | | | X | X | X | X | X |
| T420 | X | X | | X | X | | X | X | | | X |
| T605 | X | X | | X | | | X | X | X | X | |
| T610 | X | X | X | X | X | X | X | X | X | X | X |
| T620 | X | X | | X | X | | X | X | X | X | X |
| T710 | X | X | X | X | X | X | X | X | X | X | X |
| PowerEdge 1950 | X | X | Support only on 1950 III | X | Support only on 1950 III | Support only on 1950 III | X | X | X | X | X |
| PowerEdge 1955 | X | X | | X | | | X | X | X | X | |

| Dell System | VMware | | | | | | | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ESX 4.0 U3 | ESXi 4.0 U3 (HDD) | ESXi 4.0 U3 (Flash) | ESXi 4.1 U2 (HDD) | ESXi 4.1 U2 (Flash) | ESX 4.1 U2 (Classic Edition) | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | Xen Server 6.0 |
| PowerEdge 2900 | X | X | Support only on 2900 III | X | Support only on 2900 III | X | X | X | X | X | |
| PowerEdge 2950 | X | X | Support only on 2950 III | X | Support only on 2950 III | X | X | X | X | X | |
| PowerEdge 2970 | X | X | X | X | X | X | X | X | X | X | X |
| PowerEdge 6950 | X | X | | X | | X | X | X | X | X | X |

NOTE: On Servers R810, R910 and M910, only ESX 4.0 and ESXi 4.0 U3 are supported on Intel Xeon 6500 series and 7500 series processors.

NOTE: On Servers R715 and R815, ESX 4.0 and ESXi 4.0 U3 are supported only on AMD Opteron 6100 series processors.

# 3. Supported Dell OpenManage Change Management Software

Dell OpenManage change management software is a set of tools that enables you to update Dell systems easily. It is also an efficient way to manage hardware, software, and operating system updates.

Dell OpenManage change management software comprises of:

- Dell Update Packages
- Server Update Utility
- Dell Yellow Dog Update Modified (YUM) Repository
- FTP Catalog
- PowerEdge Driver Maintenance Pack

- **Dell Update Packages –** A Dell Update Package (DUP) is a self-contained executable in a standard package format. Each DUP is designed to update a single software component on a Dell system.

  DUPs allow administrators to update a wide range of system components simultaneously and apply scripts to similar sets of Dell systems to bring system software components up to the same version levels.

  For more information on DUPs, see the *Dell Update Packages User's Guide* available on the Dell Support website at **support.dell.com/manuals**.

- **Server Update Utility –** Dell OpenManage Server Update Utility (SUU) is a DVD-based application for identifying and updating Dell systems. You can use SUU to update your Dell system or to view the available updates for any system supported by SUU.

  SUU compares the versions of components currently installed on your system with the components on the *Dell Server Updates* DVD. SUU then displays a comparison report of the versions and provides the option of updating the components.

  For more information on SUU, see the *Dell OpenManage Server Update Utility User's Guide* available at **support.dell.com/manuals**.

  📝 NOTE: SUU is used for server updates and may not work on newly released Dell systems that do not receive any server updates.

- **Dell Yellow Dog Update Modified (YUM) Repository –** The Dell Linux Community Repository helps distribute Dell-developed open-source software. It allows Dell user-community to contribute its open-source modules. It is available at http://linux.dell.com/repo/community/ and packages can be updated through standard package management commands like yum.

- **FTP Catalog -** With Repository Manager, you can use the FTP catalog, which you contains the support for n and n-1 blocks. For more information about the supported system models for the FTP catalog, see **ftp.dell.com/cmsdk/PDK_Readme.doc**.

- **PowerEdge Driver Maintenance Pack –** The PowerEdge Driver Maintenance Pack (PEDMP) provides updates by Windows Server operating system type. This differs from Dell Update Packages (DUP), which is updated by Dell PowerEdge System type. PEDMP is available for

download from support.dell.com and can be easily downloaded through Dell Repository Manager.

## Supported Change Management Software on Microsoft Windows Operating Systems

A 'D' in the intersection of the operating system and the Dell system columns indicates support for DUPs.

An 'S' in the intersection of the operating system and the Dell system columns indicates support for SUU.

An asterisk (*) in the intersection of the operating system and the Dell system columns indicates operating system support for Dell systems that do not support Dell OpenManage software.

✎ NOTE: SUU is used for server updates and may not work on newly released Dell systems that do not receive any server updates.

The following table lists the supported Dell OpenManage 7.1 change management software on systems running supported Microsoft Windows operating systems.

Table 3-1. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Operating Systems

| Dell System | Microsoft Windows Server 2008 R2 x64 (includes all services packs) | Microsoft Windows Small Business Server 2011 | Microsoft Windows Small Business Server 2011 | Microsoft Windows Server 2008 R2 SP1 | Microsoft Windows Storage Server 2008 SP2 | Microsoft Windows Storage Server 2008 R2 |
|---|---|---|---|---|---|---|
| | Foundation, Standard, Enterprise, Data Center, and Web | Essentials | Standard, Premium Add-on | HPC Edition | Basic, Standard, Enterprise, and Workgroup | Express, Workgroup, Standard, and Enterprise |
| R200 | D, S | D, S | D, S | D, S | D, S | D, S |
| R210 II | D, S | D, S | D, S | D, S | D, S | D, S |
| R300 | D, S | D, S | D, S | D, S | D, S | D, S |
| R310 | D, S | D, S | D, S | D, S | D, S | D, S |
| R320 | D, S | D, S | D, S | D, S | D, S | D, S |
| R410 | D, S | D, S | D, S | D, S | D, S | D, S |
| R415 | D, S | D, S | D, S | D, S | D, S | D, S |
| R420 | D, S | D, S | D, S | D, S | D, S | D, S |
| R510 | D, S | D, S | D, S | D, S | D, S | D, S |
| R515 | D, S | D, S | D, S | D, S | D, S | D, S |
| R520 | D, S | D, S | D, S | D, S | D, S | D, S |
| R610 | D, S | D, S | D, S | D, S | D, S | D, S |
| R620 | D, S | D, S | D, S | D, S | D, S | D, S |

| Dell System | Microsoft Windows Server 2008 R2 x64 (includes all services packs) | Microsoft Windows Small Business Server 2011 | Microsoft Windows Small Business Server 2011 | Microsoft Windows Server 2008 R2 SP1 | Microsoft Windows Storage Server 2008 SP2 | Microsoft Windows Storage Server 2008 R2 |
|---|---|---|---|---|---|---|
| | Foundation, Standard, Enterprise, Data Center, and Web | Essentials | Standard, Premium Add-on | HPC Edition | Basic, Standard, Enterprise, and Workgroup | Express, Workgroup, Standard, and Enterprise |
| R710 | D, S | D, S | D, S | D, S | D, S | D, S |
| R715 | D, S | D, S | D, S | D, S | D, S | D, S |
| R720 | D, S | D, S | D, S | D, S | D, S | D, S |
| R720XD | D, S | D, S | D, S | D, S | D, S | D, S |
| R805 | D, S | D, S | D, S | D, S | D, S | D, S |
| R810 | D, S | D, S | D, S | D, S | D, S | D, S |
| R815 | D, S | D, S | D, S | D, S | D, S | D, S |
| R820 | D, S | D, S | D, S | D, S | D, S | D, S |
| R900 | D, S | D, S | D, S | D, S | D, S | D, S |
| R905 | D, S | D, S | D, S | D, S | D, S | D, S |
| R910 | D, S | D, S | D, S | D, S | D, S | D, S |
| M420 | D, S | D, S | D, S | D, S | D, S | D, S |
| M520 | D, S | D, S | D, S | D, S | D, S | D, S |
| M600 | D, S | D, S | D, S | D, S | D, S | D, S |
| M605 | D, S | D, S | D, S | D, S | D, S | D, S |
| M610X | D, S | D, S | D, S | D, S | D, S | D, S |
| M620 | D, S | D, S | D, S | D, S | D, S | D, S |
| M710 | D, S | D, S | D, S | D, S | D, S | D, S |
| M710HD | D, S | D, S | D, S | D, S | D, S | D, S |
| M805 | D, S | D, S | D, S | D, S | D, S | D, S |
| M820 | D, S | D, S | D, S | D, S | D, S | D, S |
| M905 | D, S | D, S | D, S | D, S | D, S | D, S |
| M910 | D, S | D, S | D, S | D, S | D, S | D, S |
| T100 | * | D, S | * | D, S | D, S | D, S |
| T105 | * | | * | D, S | D, S | D, S |
| T110 II | D, S | D, S | D, S | D, S | D, S | D, S |
| T300 | D, S | D, S | D, S | D, S | D, S | D, S |
| T310 | D, S | D, S | D, S | D, S | D, S | D, S |
| T320 | D, S | D, S | D, S | D, S | D, S | D, S |
| T410 | D, S | D, S | D, S | D, S | D, S | D, S |
| T420 | D, S | D, S | D, S | D, S | D, S | D, S |
| T605 | D, S | D, S | D, S | D, S | D, S | D, S |

| Dell System | Microsoft Windows Server 2008 R2 x64 (includes all services packs) | Microsoft Windows Small Business Server 2011 | Microsoft Windows Small Business Server 2011 | Microsoft Windows Server 2008 R2 SP1 | Microsoft Windows Storage Server 2008 SP2 | Microsoft Windows Storage Server 2008 R2 |
|---|---|---|---|---|---|---|
| | Foundation, Standard, Enterprise, Data Center, and Web | Essentials | Standard, Premium Add-on | HPC Edition | Basic, Standard, Enterprise, and Workgroup | Express, Workgroup, Standard, and Enterprise |
| T610 | D, S | D, S | D, S | D, S | D, S | D, S |
| T620 | D, S | D, S | D, S | D, S | D, S | D, S |
| T710 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 1900 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 1950 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 1955 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 2900 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 2950 | D, S | D, S | D, S | D, S | D, S | D, S |

| | | | | | | |
|---|---|---|---|---|---|---|
| Power Edge 2970 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Edge 6950 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DL2000 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DL2100 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DL2200 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DX6000 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX200 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX300 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX400 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX1950 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX3000 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX3100 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX3200 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault NX3300 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DP500/ NF500 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DP100/N F100 | D, S | D, S | D, S | D, S | D, S | D, S |
| Power Vault DP600/ NF600 | D, S | D, S | D, S | D, S | D, S | D, S |

**NOTE:** Dell PowerVault DL2100 supports the installation of only Windows Server 2008 x64 Standard Edition with SP2 or higher operating system.

**NOTE:** Dell PowerVault DL2000 supports the installation of only Windows Server 2008 x64 Standard Edition with SP1 or higher operating system.

**NOTE:** Dell PowerVault DL2200 supports the installation of only Windows Server 2008 x64 Standard Edition with SP2 or higher operating system.

**NOTE:** Dell PowerVault DL2000, DL2100, and DL2200 support the installation of only Windows Server 2008 R2 SP1 Standard Edition.

## Supported Change Management Software on Linux Operating Systems

A 'D' in the intersection of the operating system and the Dell system columns indicates support for DUPs. The Dell Update Package (DUP) is a self-contained executable in a standard package format that updates an application or component firmware on a server. Using Dell Repository Manager along with other tools helps to keep the managed systems up-to-date.

An 'S' in the intersection of the operating system and the Dell system columns indicates support for SUU. The Dell Server Update Utility (SUU) helps to identify and apply updates to a managed system. Use this utility to update the managed system or to view the updates available for the supported systems.

A 'Y' in the intersection of the operating system and the Dell system columns indicates support for YellowDog Update Modified (YUM) repository.

**NOTE:** SUU is used for server updates and may not work on newly released Dell systems that do not receive any server updates.

The following table lists the supported Dell OpenManage 7.1 change management software on systems running supported Linux operating systems.

Table 3-2. Supported Dell OpenManage Change Management Software on Systems Running Supported Linux Operating Systems

| Dell System | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit and 64-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|
| R200 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R210 II | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R300 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R310 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R320 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R410 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R415 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R420 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R510 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R515 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R520 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R610 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R620 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R710 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R715 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |

| Dell System | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit and 64-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|
| R720 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R720XD | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R805 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R810 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R815 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R820 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R900 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R905 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| R910 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M420 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M520 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M600 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M605 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M610 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M610X | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M620 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M710 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M710HD | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M805 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M820 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M905 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| M910 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T100 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T105 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T110 II | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T300 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T310 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T320 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T410 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T420 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T605 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T610 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T620 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| T710 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge 1900 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge 1950 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge 1955 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge 2900 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge 2950 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerEdge | D, S, Y | D, S, Y | D, S, Y | D, S, Y |

| Dell System | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit and 64-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|
| 2970 | | | | |
| PowerEdge 6950 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerVault NX400 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerVault NX3200 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| PowerVault NX3300 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| Power Vault DP500/NF500 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| Power Vault DP100/NF100 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |
| Power Vault DP600/NF600 | D, S, Y | D, S, Y | D, S, Y | D, S, Y |

## Supported Change Management Software on Virtualization Operating Systems

A 'D' in the intersection of the operating system and the Dell system columns indicates support for DUPs.

An 'S' in the intersection of the operating system and the Dell system columns indicates support for SUU.

An asterisk (*) in the intersection of the operating system and the Dell system columns indicates operating system support for Dell systems that do not support Dell OpenManage software.

NOTE: You can install OMSA using VIB file on Embedded VMware (ESXi) operating systems.
NOTE: DUPs are not supported on ESXi operating systems.

The following table lists the supported Dell OpenManage 7.1 change management software on systems running supported Virtualization operating systems.

Table 3-3.  Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems

| Dell Systems | VMware | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|
| | ESX 4.1 U2 | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | XenServer 6.0 |
| R200 | D, S | * | * | D, S | D, S | D, S |
| R210 II | D, S | * | * | D, S | D, S | D, S |
| R300 | D, S | * | * | D, S | D, S | D, S |
| R310 | D, S | * | * | D, S | D, S | D, S |

| Dell Systems | VMware | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|
| | ESX 4.1 U2 | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | XenServer 6.0 |
| R320 | D, S | * | * | D, S | D, S | D, S |
| R410 | D, S | * | * | D, S | D, S | D, S |
| R415 | D, S | * | * | D, S | D, S | D, S |
| R420 | D, S | * | * | D, S | D, S | D, S |
| R510 | D, S | * | * | D, S | D, S | D, S |
| R515 | D, S | * | * | D, S | D, S | D, S |
| R520 | D, S | * | * | D, S | D, S | D, S |
| R610 | D, S | * | * | D, S | D, S | D, S |
| R620 | D, S | * | * | D, S | D, S | D, S |
| R710 | D, S | * | * | D, S | D, S | D, S |
| R715 | D, S | * | * | D, S | D, S | D, S |
| R720 | D, S | * | * | D, S | D, S | D, S |
| R720XD | D, S | * | * | D, S | D, S | D, S |
| R805 | D, S | * | * | D, S | D, S | D, S |
| R810 | D, S | * | * | D, S | D, S | D, S |
| R815 | D, S | * | * | D, S | D, S | D, S |
| R820 | D, S | * | * | D, S | D, S | D, S |
| R900 | D, S | * | * | D, S | D, S | D, S |
| R905 | D, S | * | * | D, S | D, S | D, S |
| R910 | D, S | * | * | D, S | D, S | D, S |
| M420 | D, S | * | * | D, S | D, S | D, S |
| M520 | D, S | * | * | D, S | D, S | D, S |
| M600 | D, S | * | * | D, S | D, S | D, S |
| M605 | D, S | * | * | D, S | D, S | D, S |
| M610 | D, S | * | * | D, S | D, S | D, S |
| M610X | D, S | * | * | D, S | D, S | XenServer |
| M620 | D, S | * | * | D, S | D, S | D, S |
| M710 | D, S | * | * | D, S | D, S | D, S |
| M710HD | D, S | * | * | D, S | D, S | D, S |
| M805 | D, S | * | * | D, S | D, S | D, S |
| M820 | D, S | * | * | D, S | D, S | D, S |
| M905 | D, S | * | * | D, S | D, S | D, S |
| M910 | D, S | * | * | D, S | D, S | D, S |
| T100 | D, S | * | * | D, S | D, S | D, S |
| T105 | D, S | * | * | D, S | D, S | D, S |
| T110 II | D, S | * | * | D, S | D, S | D, S |
| T300 | D, S | * | * | D, S | D, S | D, S |
| T310 | D, S | * | * | D, S | D, S | D, S |
| T320 | D, S | * | * | D, S | D, S | D, S |
| T410 | D, S | * | * | D, S | D, S | D, S |
| T420 | D, S | * | * | D, S | D, S | D, S |

| Dell Systems | VMware | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|
| | ESX 4.1 U2 | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | XenServer 6.0 |
| T605 | D, S | * | * | D, S | D, S | D, S |
| T610 | D, S | * | * | D, S | D, S | D, S |
| T620 | D, S | * | * | D, S | D, S | D, S |
| T710 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 1900 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 1950 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 1955 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 2900 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 2950 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 2970 | D, S | * | * | D, S | D, S | D, S |
| PowerEdge 6950 | D, S | * | * | D, S | D, S | D, S |

# 4. Supported Dell OpenManage Systems Management Consoles

Dell OpenManage systems management consoles provide the necessary tools for remote or one-to-many group system management. These tools also consolidate the management applications used on management workstations.

Dell OpenManage systems management consoles tools and applications include:

- [Dell OpenManage Power Center 1.1](#)
- [Dell OpenManage Server Administrator](#)
- [Dell OpenManage IT Assistant](#)

## Dell OpenManage Power Center 1.1

Dell OpenManage Power Center provides aggregated power measurement and capping at a rack, row, and room level enabling customers to increase their server density by capping power at a rack level and mitigate risk from power and thermal events by invoking customer pre-defined policies that let essential applications continue longer while cutting back on the power used by lesser priority applications such as file and print servers. The Dell OpenManage Power Center is an open, standards-based power management application that can read power usage information from PowerEdge yx1x and yx2x servers, Power Distribution Units (PDUs), Uninterruptable Power Supplies (UPS), and the M1000e blade server chassis. It controls power consumption at the rack level, the row level, and the room level to improve power efficiency, cut total power usage, and provides better intelligence for decision making.

## Supported Microsoft Windows Operating Systems for Power Center 1.1

The following table lists the supported Microsoft Windows operating systems for the Power Center.

Table 4-1. Supported Microsoft Windows Operating Systems for Power Center

|  | Microsoft Windows Server 2008 (32-bit and 64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) | Microsoft Windows Server 2008 R2 (64-bit) SP1 |
|---|---|---|---|---|---|---|
| Edition | Web, Standard, Enterprise, Datacenter | Web, Standard, Enterprise, Datacenter | Business, Enterprise | Professional | Professional | Foundation, Standard, Enterprise, and Datacenter |
| Service Pack |  |  | SP2 |  |  |  |
| Power Center | X | X | X | X | X | X |

# Supported Linux Operating Systems for Power Center 1.1

Power Center cannot be installed on Dell systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems. However, Power Center supports monitoring and controlling such systems via the iDRAC and Power Center can be accessed from those systems via supported web browser.

The following table lists the supported Virtualization operating systems for the physical system.

Table 4-2.  Supported Virtualization Operating Systems on Physical System

|  | VMware | | | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|---|---|
| Edition | ESX 4.1 U2 | ESXi 4.1 U2 (HDD) | ESXi 4.1 U2 (Flash) | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | XenServer 6.0 |
| Physical System Support | X | X | X | X | X | X | X | X |

## Dell OpenManage Server Administrator

Dell OpenManage Server Administrator Web Server allows you to remotely manage and monitor your entire network of managed systems from your system (which maybe a laptop, desktop, or server). You have to install Server Administrator Web Server on your system and install server instrumentation on the managed systems.

## Supported Microsoft Windows Operating Systems for Server Administrator and Server Administrator Web Server

The following table lists the supported Microsoft Windows operating systems for the Server Administrator and Server Administrator web server.

Table 4-3. Supported Microsoft Windows Server Operating Systems for Server Administrator and Server Administrator web server.

|  | Microsoft Windows Server 2003 (32-bit) | Microsoft Windows Server 2003 (64-bit) | Microsoft Windows Server 2008 (32-bit) | Microsoft Windows Server 2008 (64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) | Microsoft Windows Server 2008 R2 (64-bit) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Service Pack | SP2 | SP2 | SP2 | SP2 | SP1 | SP3 | SP2 | SP2 | SP1 | SP1 | SP1 |
| Server Administrator | X | X | X | X | X |  |  |  |  |  |  |
| Server Administrator Web Server | X | X | X | X | X | X | X | X | X | X | X |

✎ **NOTE:** Microsoft Windows 2003 support is not provided for yx2x systems.

## Supported Linux Operating Systems for Server Administrator and Server Administrator Web Server

The following table lists the supported Linux operating systems for the Server Administrator.

Table 4-4. Supported Linux Operating Systems for Server Administrator

|  | SUSE Linux Enterprise Server 10 (64-bit) | SUSE Linux Enterprise Server 11 (64-bit) | Red Hat Enterprise Linux  5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2  (64-bit) |
|---|---|---|---|---|---|
| Service Pack | **SP4** | **SP2** |  |  |  |
| Server Administrator | X | X | X | X | X |
| Server Administrator Web Server | X | X | X | X | X |

## Supported Virtualization Operating Systems for Server Administrator and Server Administrator Web Server

The following table lists the supported Virtualization operating systems for the Server Administrator and Server Administrator web server.

Table 4-5. Supported Virtualization Operating Systems Server Administrator and Server Administrator Web Server

|  | VMWare | | | |  | Microsoft | | Citrix |
|---|---|---|---|---|---|---|---|---|
| Edition | ESX 4.1 U2 | ESXi 4.1 U2 (HDD) | ESXi 4.1 U2 (Flash) | ESXi 5.0 U1 | ESXi 5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 Windows 2008 | XenServer 6.0 |
| Server Administrator | X | X | X | X | X | X | X | X |
| Server Administrator Web Server | X |  |  |  |  | X | X |  |

✎ **NOTE:** Server Administrator comprises Server Instrumentation, Storage Management, Remote Access Components, and Remote Enablement.

✎ **NOTE:** Server Administrator Web Server component cannot be installed on Dell systems running ESXi operating systems.

# Supported Operating Systems for Server Administrator Web Server on Your Managed System (Servers)

For information on supported operating systems on managed systems, see [Supported Dell OpenManage Systems Management Software](#).

## Dell OpenManage IT Assistant

Dell OpenManage IT Assistant provides a central point of access to monitor and manage systems on a local area network (LAN) or wide area network (WAN). By allowing an administrator a comprehensive view across the enterprise, IT Assistant can increase system uptime, automate repetitive tasks, and prevent interruption to critical business operations.

For more information on IT Assistant, see the *Dell OpenManage IT Assistant User's Guide* available at **support.dell.com**.

## Supported Microsoft Windows Operating Systems for IT Assistant

The following table lists the supported Microsoft Windows operating systems for IT Assistant.

Table 4-6.  Supported Microsoft Windows Operating Systems for IT Assistant

| | Microsoft Windows Server 2003 (32-bit) | Microsoft Windows Server 2003 R2 (32-bit) | Microsoft Windows Server 2008 (32-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) |
|---|---|---|---|---|---|---|---|---|
| Edition | | Web, Standard, and Enterprise | Web, Standard, Enterprise | Standard, Enterprise | Professional | Business, Enterprise | Professional | Professional |
| Service Pack | SP2 | | SP2 | | SP3 | SP2 | | |
| IT Assistant | X | X | X | X | X | X | X | X |

> ✍ **NOTE:** IT Assistant can be installed on Dell systems running Windows 2008 R2 (64-bit) and Windows 7.0 (64-bit) operating systems with WOW64 component enabled.

## Supported Linux Operating Systems for IT Assistant

IT Assistant cannot be installed on Dell systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems. These systems can however, launch IT Assistant through supported browsers (Firefox 3.0).

# Supported Virtualization Operating Systems for IT Assistant

The following table lists the guest operating systems installed on the virtualization operating systems where IT Assistant can be installed.

Table 4-7.  Supported Operating Systems on Virtual Systems

| Operating System on Physical System | Supported Guest Operating System |
| --- | --- |
| VMware ESXi<br>For the latest list,<br>see **vmware.com/** | * Microsoft Windows Vista (32-bit) Enterprise Edition<br>* Microsoft Windows Server 2008 (32-bit) SP2 Enterprise Edition<br>* Microsoft Windows Server 2003 (32-bit) R2-SP2 Family<br>* Microsoft Windows XP Professional (32-bit) SP3<br>* Microsoft Windows 7.0 (32-bit) Professional Edition<br>* Microsoft Windows 7.0 (64-bit)<br>* Microsoft Windows Server 2008 R2 (64-bit) |
| VMware ESX<br>For the latest list,<br>see **vmware.com/** | * Microsoft Windows Vista (32-bit) Enterprise Edition<br>* Microsoft Windows Server 2008 (32-bit) SP2 Enterprise Edition<br>* Microsoft Windows Server 2003 (32-bit) R2-SP2 Family<br>* Microsoft Windows XP Professional (32-bit) SP3<br>* Microsoft Windows 7.0 (32-bit) Professional Edition<br>* Microsoft Windows 7.0 (64-bit)<br>* Microsoft Windows Server 2008 R2 (64-bit) |
| Microsoft Hyper-V<br>For the latest list,<br>see **microsoft.com/** | * Microsoft Windows Vista (32-bit) Enterprise Edition<br>* Microsoft Windows Server 2008 (32-bit) SP2 Enterprise Edition<br>* Microsoft Windows XP Professional (32-bit) SP3<br>* Microsoft Windows 7.0 (32-bit) Professional Edition<br>* Microsoft Windows 7.0 (64-bit)<br>* Microsoft Windows Server 2008 R2 (64-bit) |

# 5. Dell OpenManage Systems Management Tools/Utilities

Dell OpenManage Systems Management tools/utilities provide the necessary tools for remote or one-to-many group system management. These tools also consolidate the management applications used on management workstations.

- Dell Deployment Toolkit
- DRAC tools that include RACADM, VMCLI, and iVMCLI
- IPMI Tool in-Band
- BMC Management Utility and IPMI Tool Out-of-Band

## Supported Microsoft Windows Pre-installation Environment for Deployment Toolkit

The following table lists the supported Microsoft Windows pre-installation environment for Dell Deployment Tool kit (DTK).

Table 5-1. Supported Microsoft Windows Pre-installation Environment for Dell Deployment Tool kit (DTK)

|  | Windows Preinstallation Environment 2.0 (32-bit) | Windows Preinstallation Environment 2.0 (64-bit) | Windows Preinstallation Environment 3.0 (32-bit) | Windows Preinstallation Environment 3.0 (64-bit) |
|---|---|---|---|---|
| DTK | X | X | X | X |

## DRAC tools that include RACADM, VMCLI, and iVMCLI

RACADM is a command-line utility that enables administrators to configure and replicate settings across multiple Dell remote access controllers (DRACs). The RACADM utility supports operations through the use of command-line parameters, switches, and a configuration file that contains all data required to configure a DRAC.

## Supported Microsoft Windows Operating Systems for the RACADM Utility

The following table lists the supported Microsoft Windows operating systems for the RACADM utility.

An 'X' in the operating system column indicates support for the RACADM utility.

Table 5-2. Supported Microsoft Windows Operating Systems for RACADM

| | Microsoft Windows Server 2003 (32-bit) | Microsoft Windows Server 2003 (64-bit) | Microsoft Windows Server 2008 (32-bit)/(64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7 (32-bit) | Microsoft Windows 7 (64-bit) | Microsoft Windows Preinstallation Environment 2005 | Microsoft Windows Preinstallation Environment 2.0 | Microsoft Windows Preinstallation Environment 2.0 | Microsoft Windows Preinstallation Environment 3.0 (64-bit) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Service Pack | SP2 | SP2 | SP2 | | SP3 | SP2 | SP2 | | | | | | |
| Remote RACADM | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Local RACADM | X | X | X | X | | | | | | | | | X |

## Supported Linux Operating Systems for the RACADM Utility

The following table lists the supported Linux operating systems for the RACADM utility.

An 'X' in the operating system column indicates support for the RACADM utility.

Table 5-3. Supported Linux Operating Systems for RACADM

| | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| Service Pack | SP4 | | | | |
| Remote RACADM | X | X | X | X | X |
| Local RACADM | X | X | X | X | X |

## Supported Virtualization Operating Systems for the RACADM Utility

The following table lists the supported Virtualization operating systems for the RACADM utility.

An 'X' in the operating system column indicates support for the RACADM utility.

Table 5-4. Supported Virtualization Operating Systems for RACADM

| | VMWare | | | Microsoft | |
|---|---|---|---|---|---|
| | ESX 4.1 U2 | ESXi 5.0 U1 | ESXi5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 |
| Remote RACADM | X | X | X | X | X |

| | | | | | |
|---|---|---|---|---|---|
| Local RACADM | X | | | X | X |

## Supported Microsoft Windows Operating Systems for VMCLI and iVMCLI

The following table lists the supported Microsoft Windows operating systems for VMCLI and iVMCLI.

An 'X' in the operating system column indicates support for the VMCLI and iVMCLI.

Table 5-5.  Supported Microsoft Windows Operating Systems for VMCLI and iVMCLI

| | Microsoft Windows Server 2008 (32-bit and 64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) |
|---|---|---|---|---|---|---|---|
| Service Pack | SP1/SP2 | SP1/SP2 | SP3 | SP2 | SP2 | | |
| VMCLI and iVMCLI | X | X | X | X | X | X | X |

## Supported Linux Operating Systems for the VMCLI and iVMCLI

The following table lists the supported Linux operating systems for VMCLI and iVMCLI.

An X in the operating system column indicates support for the VMCLI and iVMCLI utility.

Table 5-6. Supported Linux Operating Systems for VMCLI and iVMCLI

| | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| VMCLI and iVMCLI | X | X | X | X | X |

## IPMITool In-Band

IPMITool in-band helps in configuring and managing devices.

For more information on IPMITool, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* available at **support.dell.com/manuals**.

## Supported Microsoft Windows Operating Systems for IPMITool In-Band

The following table lists the supported Windows operating systems for the IPMITool In-Band.

An 'X' in the operating system column indicates IPMITool in-band support.

Table 5-7. Supported Microsoft Windows Operating Systems for IPMITool In-Band

|  | Microsoft Windows Server 2008 (32-bit and 64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) |
|---|---|---|---|---|---|---|---|
| Edition | SP1/SP2 | SP1/SP2 | SP3 | SP2 | SP2 |  |  |
| IPMITool | X | X | X |  |  |  |  |
| IPMITool In-Band | X | X | X | X | X | X | X |

## Supported Linux Operating Systems for IPMITool In-Band

The following table lists the supported Linux operating systems for the IPMITool In-Band.

An 'X' in the operating system column indicates IPMITool in-band support.

Table 5-8. Supported Linux Operating Systems for IPMITool In-Band

|  | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 (64-bit) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| IPMITool In-Band | X | X | X | X | X |

## IPMITool Out-of-Band

BMC Management Utility (BMU) is a utility to access Baseboard Management Controller (BMC) and perform management activities. BMU allows remote, out-of-band LAN and/or serial port power control, event log access, and console redirection.

IPMI Tool is a Command Line Interface (CLI) utility that helps in configuring and managing devices using the IPMI version 1.5 and later protocol. IPMI Tool supports out-of-band (OOB) access (over a LAN or through the serial port) to a single system at a time. IPMI Tool also supports in-band access.

For more information on BMU and IPMI Tool out-of-band, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* available at **support.dell.com/manuals**.

# Supported Microsoft Windows Operating Systems for IPMITool Out-of-Band

The following table lists the supported Microsoft Windows operating systems for IPMI Tool Out of Band

An 'X' in the operating system column indicates IPMI Tool out-of-band support.

Table 5-9.  Supported Microsoft Windows Operating Systems for BMU and IPMI Tool Out-of-Band

|  | Microsoft Windows Server 2008 (64-bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) |
|---|---|---|---|---|---|---|
| Service Pack | SP1/SP2 | SP1/SP2 | SP3 | SP2 |  |  |
| IPMITool Out-of-Band | X | X | X | X | X | X |

# Supported Linux Operating Systems for IPMITool Out-of-Band

The following table lists the supported Linux operating systems for the IPMITool Out-of-Band.

An 'X' in the operating system column indicates IPMITool.

Table 5-10. Supported Linux Operating Systems for IPMITool

|  | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 ((64-bit)) | Red Hat Enterprise Linux 5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| IPMITool Out-of-Band | X | X | X | X | X |

# Supported Microsoft Windows Operating Systems for IPMITool

The following table lists the supported Microsoft Windows operating systems for the IPMI Tool.

An 'X' in the operating system column indicates IPMITool support.

Table 5-11.  Supported Microsoft Windows Operating Systems for IPMITool

|  | Microsoft Windows Server 2008 (32-bit and 64 bit) | Microsoft Windows Server 2008 R2 (64-bit) | Microsoft Windows XP (32-bit) | Microsoft Windows Vista (32-bit) | Microsoft Windows Vista (64-bit) | Microsoft Windows 7.0 (32-bit) | Microsoft Windows 7.0 (64-bit) |
|---|---|---|---|---|---|---|---|
| Service Pack | SP1/SP2 | SP1/SP2 | SP3 | SP2 | SP2 |  |  |
| IPMITool | X | X | X | X | X | X | X |

# Supported Linux Operating Systems for IPMITool

The following table lists the supported Linux operating systems for the IPMITool BMU.

An 'X' in the operating system column indicates BMU support.

Table 5-12.  Supported Linux Operating Systems for BMU

|  | SUSE Linux Enterprise Server 10 SP4 (64-bit) | SUSE Linux Enterprise Server 11 SP2 ((64-bit)) | Red Hat Enterprise Linux  5.8 (64-bit) | Red Hat Enterprise Linux 5.8 (32-bit) | Red Hat Enterprise Linux 6.2 (64-bit) |
|---|---|---|---|---|---|
| IPMITool | X | X | X | X | X |

# Supported Virtualization Operating Systems for IPMITool

The following table lists the supported Virtualization operating systems for the IPMITool.

An 'X' in the operating system column indicates IPMITool support.

Table 5-13. Supported Virtualization Operating Systems for IPMITool

|  | VMware | | | Microsoft | | Citrix |
|---|---|---|---|---|---|---|
| Edition | ESX 4.1 U1 | ESXi 5.0 U1 | ESXi5.1 | Hyper-V for Windows 2008 | Hyper-V R2 SP1 for Windows 2008 | XenServer 6.0 |
| IPMITool | X | X | X | X | X |  |

# 6. Supported Dell Remote Access Controllers and Solutions

The Dell PowerEdge embedded server management solution, Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller, helps IT administrators to speed up the essential management tasks, it increases overall availability of your servers, and it reduces your IT operational expenses.

With powerful, easy-to-use, remote management and configuration options, iDRAC with Lifecycle Controller alerts IT administrators when an issue occurs, enables streamlined local and remote server management, and reduces or eliminates the need for administrators to physically visit the server — even if the server is not operational.

DRAC also logs event data and the most recent crash screen (for systems running the Microsoft Windows operating system only) to help diagnose the probable cause of a system crash.

For more information on DRAC or iDRAC, see the *Dell Remote Access Controller User's Guide* or the *Integrated Dell Remote Access Controller User's Guide* available at **support.dell.com/manuals**.

Table 6-1 and Table 6-2 list the following:

- Supported Remote Access Controller versions and firmware (iDRAC7, iDRAC6, iDRAC, DRAC5, DRAC4 and  DRAC/MC)
- Supported Chassis Management Controller versions and firmware
- Supported BMC firmware versions
- Supported IPMI protocol versions

Table 6-1. Supported Remote Access Controllers and Solutions for Blade Servers

| Dell System | DRACs | | CMC Firmware Version | BMC Firmware Version | Supported IPMI Protocol Versions |
|---|---|---|---|---|---|
| | DRAC Type | Supported DRAC Firmware Version | | | |
| M420 | iDRAC7 | 1.20.20 | 4.1 | N/A | 2.0 |
| M520 | iDRAC7 | 1.20.20 | 4.1 | N/A | 2.0 |
| M620 | iDRAC7 | 1.20.20 | 4.1 | N/A | 2.0 |
| M610 | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M710 | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M610x | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M710HD | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M820 | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M910 | iDRAC6 | 3.2 | 4.1 | N/A | 2.0 |
| M600 | iDRAC | 1.52 | 4.1 | N/A | 2.0 |
| M605 | iDRAC | 1.52 | 4.1 | N/A | 2.0 |

| | | | 4.1 | N/A | 2.0 |
|---|---|---|---|---|---|
| M805 | iDRAC | 1.52 | 4.1 | N/A | 2.0 |
| M905 | iDRAC | 1.52 | 4.1 | N/A | 2.0 |
| 1955 | DRAC/MC | 1.5 | N/A | 2.03 | 2.0 |
| 1855 | DRAC/MC | 1.5 | N/A | 1.01 or later | 1.5 |

Table 6-2. Supported Remote Access Controllers and Solutions for Rack and Tower Servers

| Dell System | DRACs | | BMC Firmware Version | Supported IPMI Protocol Versions |
|---|---|---|---|---|
| | DRAC Type | Supported DRAC Firmware Version | | |
| R320 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R420 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R520 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R620 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R720 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R720XD | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R820 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| T320 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| T420 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| T620 | iDRAC7 | 1.20.20 | N/A | 2.0 |
| R210 | iDRAC6 | 1.8 | N/A | 2.0 |
| R210 II | iDRAC6 | 1.8 | 1.8 | 2.0 |
| R300 | DRAC 5 | 1.6 | 2.34 | 2.0 |
| R310 | iDRAC6 | 1.8 | N/A | 2.0 |
| R410 | iDRAC6 | 1.8 | N/A | 2.0 |
| R415 | iDRAC6 | 1.8 | 1.8 | 2.0 |
| R510 | iDRAC6 | 1.8 | N/A | 2.0 |
| R515 | iDRAC6 | 1.8 | 1.8 | 2.0 |
| R610 | iDRAC6 | 1.8 | N/A | 2.0 |
| R710 | iDRAC6 | 1.8 | N/A | 2.0 |
| R715 | iDRAC6 | 1.8 | N/A | 2.0 |
| R810 | iDRAC6 | 1.8 | N/A | 2.0 |
| R910 | iDRAC6 | 1.8 | N/A | 2.0 |
| R815 | iDRAC6 | 1.8 | N/A | 2.0 |
| T310 | iDRAC6 | 1.8 | N/A | 2.0 |
| T410 | iDRAC6 | 1.8 | 1.8 | 2.0 |
| T610 | iDRAC6 | 1.8 | N/A | 2.0 |
| T710 | iDRAC6 | 1.8 | N/A | 2.0 |
| PowerVault DL2200 | iDRAC6 | 1.8 | 1.7 | 2.0 |
| PowerVault NX3000 | iDRAC6 | 1.8 | N/A | 2.0 |
| PowerVault NX3100 | iDRAC6 | 1.8 | N/A | 2.0 |
| PowerVault NX200 | iDRAC6 | 1.8 | N/A | 2.0 |
| PowerVault NX300 | iDRAC6 | 1.8 | 1.7 | 2.0 |

| Dell System | DRACs | | BMC Firmware Version | Supported IPMI Protocol Versions |
|---|---|---|---|---|
| | DRAC Type | Supported DRAC Firmware Version | | |
| PowerVault DL2100 | iDRAC6 | 1.8 | N/A | 2.0 |
| PowerVault DX6000 | iDRAC6 | 1.8 | N/A | 2.0 |
| EqualLogic FS7500 | iDRAC6 | 1.8 | N/A | 2.0 |
| R805 | DRAC 5 | 1.6 | 2.38 | 2.0 |
| R900 | DRAC 5 | 1.6 | 2.32 | 2.0 |
| R905 | DRAC 5 | 1.6 | 2.31 | 2.0 |
| T100 | DRAC 5 | 1.6 | 1.29 or later | 2.0 |
| T105 | DRAC 5 | 1.6 | 1.29 or later | 2.0 |
| T300 | DRAC 5 | 1.6 | 1.6 | 2.0 |
| T605 | DRAC 5 | 1.6 | 2.3 | 2.0 |
| 6950 | DRAC 5 | 1.6 | 2.29 | 2.0 |
| 2970 | DRAC 5 | 1.6 | 2.29 | 2.0 |
| 2950 | DRAC 5 | 1.6 | 2.28 | 2.0 |
| 2900 | DRAC 5 | 1.6 | 2.28 | 2.0 |
| 1950 | DRAC 5 | 1.6 | 2.28 | 2.0 |
| 1900 | DRAC 5 | 1.6 | 2.29 | 1.5 |
| PowerVault DL2000 | DRAC 5 | 1.6 | 1.29  or later | 2.0 |
| R200 | DRAC 4 | 1.75 | 1.29 or later | 2.0 |
| T110 | No iDRAC support | | N/A | 2.0 |
| T110 II | No iDRAC support | | N/A | 2.0 |

# 7. Supported Browsers

The following table lists the supported browsers for Dell OpenManage 7.1 systems management software on systems running supported Microsoft Windows, Red Hat Linux, and SUSE Linux operating systems.

Table 7-1.  Supported Browsers for Dell OpenManage on Dell Microsoft, RHEL and SUSE Linux Operating systems

| Operating System | Internet Explorer 7 | Internet Explorer 8 | Internet Explorer 8 (64-bit) | Internet Explorer 9 | Internet Explorer 9 (64-bit) | Firefox 10 | Firefox 11 | Firefox 12 |
|---|---|---|---|---|---|---|---|---|
| Windows XP 32-bit SP3 | X | X | N/A | N/A | N/A | X | X | X |
| Windows Vista 32-bit SP2 | X | X | N/A | X | N/A | X | X | X |
| Windows Vista 64-bit SP2 | X | X | X | X | X | X | X | X |
| Windows 7 32-bit | | X | N/A | X | N/A | X | X | X |
| Windows 7 64-bit | | X | X | X | X | X | X | X |
| Windows Server 2003 SP2 | X | X | N/A | N/A | N/A | X | X | X |
| Windows Server 2003 x64 SP2 | X | X | X | N/A | N/A | X | X | X |
| Windows Server 2008 SP2 | | X | N/A | X | N/A | X | X | X |
| Windows Server 2008 64-bit SP2 | | X | X | N/A | X | X | X | X |
| Windows Server 2008 R2 64-bit | | X | X | X | X | X | X | X |
| SLES 10 x64 SP4 | Native Browser | | | | | | | |
| SLES 11 x64 SP2 | Native Browser | | | | | | | |
| RHEL 5.8 32-bit | Native Browser | | | | | | | |
| RHEL 5.8 64-bit | Native Browser | | | | | | | |
| RHEL 6.2 64-bit | Native Browser | | | | | | | |

**NOTE:** On 64-bit operating systems with WOW64 component, IT Assistant can be launched only in 32-bit Web browsers.

**NOTE:** Mozilla Firefox is supported only on Microsoft Windows 32-bit operating systems.

**NOTE:** Dell is testing Firefox on Macintosh operating system X and Avocent is testing Safari on Macintosh operating system X.

**NOTE:** For the latest information, see the *Readme* file for the specific product available at **support.dell.com/manuals**. On this page, click **Software** > **Systems Management** > **Dell OpenManage Releases**. Select the OpenManage Release version and then select the appropriate product to view the *Readme* file.

# 8. Network Interface Controllers and Supported Operating Systems

The drivers required for a Network Interface Card (NIC) depend on the operating system installed on your system.

The following table lists the NIC manufacturers and drivers version required for the supported operating systems in OpenManage 7.1.

Table 8-1: NIC Manufacturers and Drivers Required for Supported Operating Systems

| NIC Product Name | Microsoft Windows 2008 Family | Red Hat Enterprise Linux 5.8 | Red Hat Enterprise Linux 6.2 | SUSE Linux Enterprise Server 10 SP4 | SUSE Linux Enterprise Server 11 SP2 |
|---|---|---|---|---|---|
| Broadcom Family of Adapters | 17.2.0 | 17.2.0 | 17.2.0 | 17.2.0 | 17.2.0 |
| Intel Family of Adapters | 13.5.0 | 13.5.0 | 13.5.0 | 13.5.0 | 13.5.0 |
| QLogic Family of Adapters | 3.0.0 | 3.0.0 | 3.0.0 | 3.0.0 | 3.0.0 |
| Emulex Family of Adapters | 6.023.03 | 6.023.03 | 6.023.03 | 6.023.03 | 6.023.03 |

NOTE: Dell no longer supports the following NICs: 3COM 3C98x Family of Adapters and Alteon ACEnic Copper Gigabit.

# 9. RAID Controller Supported Servers, Operating Systems, Firmware, and Driver Versions

Starting with Dell OpenManage Server Administrator version 5.0, only the enhanced Storage Management Service is supported. The Storage Management Service allows you to configure and manage your storage devices from within Server Administrator.

> ✎ **NOTE:** The Storage Management Service mentioned in this guide refers to the enhanced Storage Management Service. Server Administrator no longer supports the basic Storage Management Service (also known as Array Manager).

Most of the systems management releases support management of RAID controllers in the form of PERC cards, and some systems management releases also support CERC IDE and SATA controllers. System administrators responsible for monitoring the compatibility of their systems' storage devices need a clear matrix that shows the elements that are compatible with a particular storage controller. Each storage controller version in turn supports a specific array of elements, including:

- Version of the Storage Management Service
- Dell system
- Firmware version number required for a particular controller
- Supported operating systems, where each operating system requires a specific driver

For more information on Storage Management Services see the Dell *OpenManage Server Administrator User's Guide* and the *Dell OpenManage Storage Management User's Guide* at **support.dell.com/manuals**.

The following types of controllers are included in this section:

- The RAID controller card group contains the following controllers: PERC 5/E, PERC 5/i Adapter, PERC 5/i Integrated, SAS 5/iR Adapter, SAS 6/iR Integrated, PERC 6/E Adapter, PERC 6/i Adapter, PERC 6/i Integrated, PERC H200 Adapter, PERC H200 Integrated, PERC H200 Modular, PERC H700, PERC H800, SAS 6/iR Adapter, and CERC 6/i Integrated.
- The SAS 5/i Integrated and SAS 5/E controller.

> ✎ **NOTE:** The firmware and drivers listed in this section refer to the minimum supported version as of the publication date of this document. Later versions of the firmware and drivers may also be supported or required. For the most recent driver and firmware requirements, see **support.dell.com** for the Storage Management Service.

## Linux Driver Included in RPM*

The 1.1.4 Linux driver is included in RPM 2302 (Red Hat Package Manager 2302).

## PERC 5/E Adapter

The PERC 5/E Adapter supports the following Dell PowerEdge systems: 1900, 1950, 1955, 2900, 2950, 2970, 6950, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, R515, and R805.

The PERC 5/E Adapter supports the following Dell Storage systems: MD1000, MD1120

The PERC 5/E Adapter supports six enclosures.

The following tables list the other elements supported by the PERC 5/E Adapter.

✍ NOTE: The RAID cards support both 32-bit and 64-bit versions of Red Hat Enterprise Linux operating systems and only 64-bit versions of the SUSE Linux Enterprise Server operating systems. However, all 64-bit versions of any operating system are not supported.

Table 9-1. Storage Management Service Supported Elements: PERC 5/E Adapter

| Storage Management Service version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 5.2.2-0076 | 2.24.0.32 | 2.24.0.64 | 4.5.0.64 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

# PERC 5/i Adapter and Integrated

The PERC 5/i Adapter supports the following Dell PowerEdge systems: 1900, 1950, 1955, 2900, 2950, 2970, 6950, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

The PERC 5/i Adapter supports the following Dell PowerVault system: PowerVault 100.

The PERC 5/i Integrated supports the following Dell PowerEdge systems: 1900, 1950, 1955, 2900, 2950, 2970, and 6950, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

The PERC 5/i Integrated supports the following Dell PowerVault system: PowerVault NX1950.

The following tables list the other elements supported by the PERC 5/i Adapter and Integrated

Table 9-2.  Storage Management Service Supported Elements: PERC 5/i Adapter and Integrated

| Storage Management Service version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 5. 2.2-0072 | 2.24.0.32 | 2.24.0.64 | 4.5.0.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## SAS 5/iR Adapter and Integrated

The SAS 5/iR Adapter supports the following Dell PowerEdge systems: 1900, 2900, 6950, T605, and T610.

The SAS 5/iR Integrated supports the following Dell PowerEdge system: 1955.

The following tables list the other elements supported by the SAS 5/iR Adapter.

Table 9-3.  Storage Management Service Supported Elements: SAS 5/iR Adapter and Integrated

| Storage Management Service version | Server Administrator Version | SAS Firmware/ BIOS Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 00.10.51.00/ 06.12.05.00 | 1.28.03.01 | 1.28.03.01 | 1.28.3.52 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## SAS 5/i Integrated

The SAS 5/i Integrated controller supports the following Dell PowerEdge systems: 1950, 2900, 2950, and 2970.

The following tables list the other elements supported by the SAS 5/i Integrated controller.

Table 9-4.  Storage Management Service Supported Elements: SAS 5/i Integrated

| Storage Management Service version | Server Administrator Version | SAS Firmware/ BIOS Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 00.10.51.00/06.12.05.00 | 1.28.03.01 | 1.28.03.01 | 1.28.3.52 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## SAS 5/E Adapter

The SAS 5/E Adapter supports the following Dell PowerEdge systems: 1900, 1950, 2900, 2950, 2970, 6950, R900, T300, T605, R200, R300, R805, R905, R610, R710, and T610.

The SAS 5/E Adapter supports the following Dell PowerVault systems: PowerVault NX1950 and PowerVault DL2000.

The following tables list the other elements supported by the SAS 5/E Adapter.

Table 9-5.  Storage Management Service Supported Elements: SAS 5/E Adapter

| Storage Management Service version | Server Administrator Version | SAS Firmware/ BIOS Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 00.10.51.00/06 .12.05.00 | 1.28.03.01 | 1.28.03.01 | 1.28.3.52 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## PERC 6/i Adapter, Integrated, and Modular

The PERC 6/i Adapter supports the following Dell PowerEdge systems: R410, R905, T300, and T605.

The PERC 6/i Integrated supports the following Dell PowerEdge systems: 1900, 1955, 6950, T410, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, R515, 1950, 2900, 2950, 2970, R805, R900, T610, R410, R610, R710, M610, and M710.

The PERC 6/i Integrated supports the following Dell PowerVault system: NX1950.

The PERC 6/i Modular supports the following Dell PowerEdge systems: 1900, 1950, 1955, 2900, 2950, 2970, 6950, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, R515, R805, and R900.

The PERC 6/i Modular supports the following Dell PowerVault systems: PowerVault NX1950.

The following tables list the other elements supported by the PERC 6/i Integrated and Adapter.

Table 9-6.  Storage Management Service Supported Elements: PERC 6/i Adapter, Integrated and Modular

| Storage Management Service version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 6.3.1-0003 | 2.24.0.32 | 2.24.0.64 | 4.5.0.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## CERC 6/i Integrated

The CERC 6/i Integrated supports the following Dell PowerEdge systems: M600, M605, M805, and M905.

The following tables list the other elements supported by the CERC 6/i Integrated.

Table 9-7.  Storage Management Service Supported Elements: CERC 6/i Integrated

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 | Windows Server 2008 R2 Driver |
|---|---|---|---|---|
| 4.1 | 7.1 | 6.3.2-0001 | 2.24.0.32 (32-bit) 2.24.0.64 (64-bit) | Native |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

# PERC 6/E Adapter

The PERC 6/E Adapter supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, 6950, R200, R300, R805, R900, R905, T300, T610, R410, R610, R710, 1900, 1955, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

The PERC 6/E Adapter supports the following Dell PowerVault system: PowerVault DL2000.

The PERC 6/E Adapter supports the following Dell Storage systems: MD1000 and MD1120.

The PERC 6/E Adapter supports six storage enclosures.

The following tables list the other elements supported by the PERC 6/E Adapter.

Table 9-8. Storage Management Service Supported Elements: PERC 6/E Adapter

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 6.3.1-0003 | 2.24.0.32 | 2.24.0.64 | 2.24.0.64 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | Native | Native |

## SAS 6/iR Integrated and Adapter

The SAS 6/iR Integrated supports the following Dell PowerVault systems: PowerVault DL2000.

The SAS 6/iR Integrated supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, R805, R900, M600, M605, M805, M905, T610, R410, R610, R710, M610, M710, 1900, 1955, 2900, 2950, 2970, 6950, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

The SAS 6/iR Adapter supports the following Dell PowerEdge systems: R200, R300, R410, T105, T300, R905, T100, and T605.

The following tables list the other elements supported by the SAS 6/iR Integrated and Adapter.

Table 9-9.  Storage Management Service Supported Elements: SAS 6/iR Integrated and Adapter

| Storage Management Service Version | Server Administrator Version | SAS Firmware/ BIOS Version | Windows Server 2008 Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|
| 4.1 | 7.1 | 00.25.47.00 / 06.22.03.00 | 1.28.03.01 (32-bit) 1.28.03.01 (64-bit) | Native |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 4.00.38.02-3 | Native | Native | Native |

## SAS 6/int Modular

The SAS 6/int Modular supports Dell PowerVault DL2000 system.

The following tables list the other elements supported by the SAS 6/iR Integrated and Adapter.

Table 9-10. Storage Management Service Supported Elements: SAS 6/int Modular

| Storage Management Service version | Server Administrator Version | SAS Firmware/BIOS Version |
|---|---|---|
| 4.1 | 7.1 | 00.25.47.00.06.22.03.00 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 4.00.38.02-3 | Native | Native | 4.00.78.02-3 |

## SAS 6 Gbps HBA

The SAS 6 Gbps HBA supports the following Dell PowerVault system: PowerVault DL2000.

The SAS 6 Gbps HBA supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, R805, R900, M600, M605, M805, M905, T610, R410, R610, R710, M610, M710, R200, R300, R410, T105, T300, R905, T100, and T605.

The following tables list the other elements supported by the SAS 6/iR Integrated and Adapter.

Table 9-11. Storage Management Service Supported Elements: SAS 6 Gbps HBA

| Storage Management Service version | Server Administrator Version | SAS Firmware/ BIOS Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 07.03.05.00 | 2.0.35.10 | 2.0.35.10 | 2.0.35.10 |

| Red Hat Enterprise Linux 5.8 Driver | Red Hat Enterprise Linux 6.2 Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 02.00.00.00 | Native | Native | Native |

## LSI Logic 1020/1030 Ultra320 SCSI Adapter

LSI Logic 1020/1030 Ultra320 SCSI adapter supports the following Dell PowerEdge systems: 1950, 2950, 2970, 6950, R200, R300, R900, R805, R905, T100, T105, T300, and T605.

LSI Logic 1020/1030 Ultra320 SCSI adapter supports the following Dell PowerVault system: PowerVault NX1950.

The following tables list the other elements supported by LSI Logic 1020/1030 Ultra320 SCSI adapter.

Table 9-12. Storage Management Service Supported Elements: LSI Logic 1020/1030 Ultra320 SCSI Adapter

| Storage Management Service version | Server Administrator Version | PERC Firmware/BIOS Version |
|---|---|---|
| 4.1 | 7.1 | 1.03.27.00.5.10.08.00.12 |

| Red Hat Enterprise Linux 5.8 Driver | Red Hat Enterprise Linux 6.2 Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | NA | Native |

## PERC H700 Adapter, Integrated, and Modular

The PERC H700 Adapter supports the following Dell PowerEdge systems: R310, R410, T310, and T410.

The PERC H700 Adapter supports the following Dell PowerVault system: PowerVault NX300.

The PERC H700 Integrated supports the following Dell PowerEdge systems: R710, R815, R715, R510, T610, R610, T710, R410, T410, M610, M710, T710, T310, R310, R210, T110, R810, R910, M910, R415, and R515.

The PERC H700 Modular supports the following Dell PowerEdge systems: M610 and M710.

The following tables list the other elements supported by the PERC H700 Integrated and Adapter.

Table 9-13. Dell OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 12.10.4-0001 | 4.31.1.32 | 4.31.1.64 | 4.31.1.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 00.00.04.27 | Native | Native | Native |

# PERC H800 Adapter

The PERC H800 Adapter supports the following Dell PowerEdge systems: R710, R815, T410, R715, R210, R510, T310, R310, T610, R610, R410, and T710.

The PERC H800 Adapter supports the following Dell Storage systems: MD1200 and MD1220.

The PERC H800 Adapter supports eight storage devices.

The following tables list the other elements supported by the PERC H800 Adapter.

Table 9-14. Dell OpenManage Supported Elements: PERC H800 Adapter

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 12.10.4-0001 | 4.31.1.32 | 4.31.1.64 | 4.31.1.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 00.00.04.27 | Native | Native | Native |

# PERC H200 Adapter, Integrated, and Modular

The PERC H200 Adapter supports the following Dell PowerEdge systems: T410, R210, T110, T310, R310, T610, R410, and T710.

The PERC H200 Integrated supports the following Dell PowerEdge systems: R710, R815, R715, R510, T610, R610, and T710.

The PERC H200 Modular supports the following Dell PowerEdge systems: M710 and M610.

The following tables list the other elements supported by the PERC H200 Modular controllers.

Table 9-15. Dell OpenManage Supported Elements: PERC H200 Adapter, Integrated and Modular

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 07.03.05.00 | 2.0.35.10 | 2.0.35.10 | 2.0.35.10 |

| Red Hat Enterprise Linux 5.7  Driver | Red Hat Enterprise Linux 6.1  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| 02.00.00.00 | Native | Native | Native |

# PERC H310 Adapter, Mini Blade, and Mini Monolithic

The PERC H310 Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems: R620, R720, R720XD, M620, R820 and T620.

The following tables list the other elements supported by the PERC H310 Adapter, Mini Blade, and Mini Monolithic controllers.

Table 9-16. Dell OpenManage Supported Elements: PERC H310 Adapter, Mini Blade, and Mini Monolithic

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.0 | 7.0 | 20.10.1-0084 | 5.1.118.32 | 5.1.118.64 | 5.1.118.64 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | 5.39-1 | Native |

# PERC H710 Adapter, Mini Blade, and Mini Monolithic

The PERC H710 Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems:  R620, R720, R720XD, M620, and T620.

The following tables list the other elements supported by the PERC H710 Adapter, Mini Blade, and Mini Monolithic controllers.

Table 9-17. Dell OpenManage Supported Elements: PERC H710 Adapter, Mini Blade and Mini Monolithic

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 21.0.1-132 | 5.1.118.32 | 5.1.118.64 | 5.1.118.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | 5.39-1 | Native |

## PERC H710P Adapter, Mini Blade, and Mini Monolithic

The PERC H710P Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems: R620, R720, R720XD, R820, M620, and T620.

The following tables list the other elements supported by the PERC H710P Adapter, Mini Blade, and Mini Monolithic controllers.

Table 9-18. Dell OpenManage Supported Elements: PERC H710P Adapter, Mini Blade, and Mini Monolithic

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 21.0.1-132 | 5.1.118.32 | 5.1.118.64 | 5.1.118.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | 5.39-1 | Native |

## PERC H810 Adapter

The PERC H810 Adapter supports the following Dell PowerEdge systems: R620, R720, R720XD, R820, M620, and T620.

The following tables list the other elements supported by the PERC H810 Adapter controller.

Table 9-19. Dell OpenManage Supported Elements: PERC H810 Adapter

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 21.0.1.132 | 5.1.118.32 | 5.1.118.64 | 5.1.118.64 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | Native | 5.39-1 | Native |

## PERC S100

The PERC S100 controller supports the following Dell PowerEdge systems: R210, R210 II, R310, R410, R510, T110, T110 II, T310, and T410.

The following tables list the other elements supported by the PERC S100 controller.

Table 9-20. Dell OpenManage Supported Elements: PERC S100

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 2.0.0-0162 | 2.0.0-0162 | 2.0.0-0162 | 2.0.0-0162 |

| Red Hat Enterprise Linux 5.8 Driver | Red Hat Enterprise Linux 6.2 Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Not Supported | Not Supported | Not Supported | Not Supported |

## PERC S110

The PERC S110 controller supports the following Dell PowerEdge systems: M520, M620, R320, R420, R520, R620, R720, T320, T420, and T620

The following tables list the other elements supported by the PERC S110 controller.

Table 9-21. Dell OpenManage Supported Elements: PERC S110

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 3.0.0.0139 | 3.0.0.0134 | 3.0.0.0134 | 3.0.0.0134 |

| Red Hat Enterprise Linux  5.8  Driver | Red Hat Enterprise Linux  6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Not Supported | Not Supported | Not Supported | Not Supported |

## PERC S300

The PERC S300 controller supports the following Dell PowerEdge systems: R210, R210 II, R310, R410, R415, R510, R515, T110, T110 II, T310, and T410

The following tables list the other elements supported by the PERC S300 controller.

Table 9-22. Dell OpenManage Supported Elements: PERC S300

| Storage Management Service Version | Server Administrator Version | PERC Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | 2.0.0-0162 | 2.0.0-0162 | 2.0.0-0162 | 2.0.0-0162 |

| Red Hat Enterprise Linux 5.8 Driver | Red Hat Enterprise Linux 6.2 Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server  11 SP2 Driver |
|---|---|---|---|
| Not Supported | Not Supported | Not Supported | Not Supported |

## Dell PowerEdge PCIe Express Flash SSD

The Dell PowerEdge PCIe Express Flash SSD supports the following Dell PowerEdge systems: R620, R720, R820, M620, M820, and T620

The following tables list the other elements supported by the Dell PowerEdge PCIe Express Flash solid-state storage devices.

Table 9-23. Dell OpenManage Supported Elements: Dell PowerEdge PCIe Express Flash SSD

| Storage Management Service Version | Server Administrator Version | Express Flash Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | B1442808 | Not Supported | Not Supported | 6.27.1.8 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Not Supported | 1.2.32-1 | Not Supported | 1.2.32-1 |

# Internal Tape Adapter (ITA)

The ITA supports the following Dell PowerEdge systems: T620, T320, and T420.

The following tables list the other elements supported by the ITA.

Table 9-24. Dell OpenManage Supported Elements: Internal Tape Adapter

| Storage Management Service Version | Server Administrator Version | Express Flash Firmware Version | Windows Server 2008 32-bit Driver | Windows Server 2008 64-bit Driver | Windows Server 2008 R2 Driver |
|---|---|---|---|---|---|
| 4.1 | 7.1 | B1490208 | Not Supported | Not Supported | 7.3.3452.8 |

| Red Hat Enterprise Linux 5.8  Driver | Red Hat Enterprise Linux 6.2  Driver | SUSE Linux Enterprise Server 10 SP4 Driver | SUSE Linux Enterprise Server 11 SP2 Driver |
|---|---|---|---|
| Native | 1.3.7-1 | Native | 1.3.7-1 |

# 10. Lifecycle Controller — Supported Dell Systems and Operating Systems

The Dell Lifecycle Controller provides advanced embedded systems management and is delivered as part of integrated Dell Remote Access Controller (iDRAC) and embedded Unified Extensible Firmware Interface (UEFI) applications in the 11$^{th}$ and 12$^{th}$ generation Dell servers.

The Lifecycle Controller software components are built on iDRAC and UEFI system firmware. Lifecycle Controller firmware can access and manage the hardware, including component and sub-system management that is beyond the traditional Baseboard Management Controller (BMC) capabilities. The UEFI environment provides the local console interface and the infrastructure for locally managed system components. It simplifies the end-to-end server lifecycle management.

On the 11th generation servers, Lifecycle Controller is known as Unified Server Configurator (USC), Unified Server Configurator-Lifecycle Controller Enabled, and Lifecycle Controller-Remote Services.

On the 12$^{th}$ generation servers, Lifecycle Controller is known as Lifecycle Controller 2 (includes GUI and Remote Services). The functionalities available are based on the generation of the server and the variant of Lifecycle Controller:

- **Lifecycle Controller GUI** — Lifecycle Controller GUI supports systems management tasks such as deploy, configure, update, maintain, and diagnose in a one-to-one method.

- **Lifecycle Controller-Remote Services** — Remote Services (WS-MAN) simplifies end-to-end server lifecycle management using the one-to-many method. It interfaces for remote deployment integrated with Dell OpenManage Essentials and partner consoles.

For more information, see the Lifecycle Controller documentation available at **support.dell.com/manuals**.

## Supported Dell Systems and Windows Operating Systems for Lifecycle Controller

See Supported Dell OpenManage Systems Management Software on Windows Operating Systems for a list of all the Dell systems and Microsoft Operating systems that support Lifecycle Controller.

◪ **Note:** Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.

◪ **Note:** Lifecycle is not supported on Windows Storage Server operating systems.

## Supported Dell Systems and Linux Operating Systems for Lifecycle Controller

See Supported Dell OpenManage Systems Management Software on Linux Operating Systems for a list of all the Dell systems and Microsoft Operating systems that support Lifecycle Controller.

◪ **Note:** Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.

# Supported Dell Systems and Virtualization Operating Systems for Lifecycle Controller

See [Supported Dell OpenManage Systems Management Software on Virtualization Operating Systems](#) for a list of all the Dell systems and Microsoft Operating systems that support Lifecycle Controller.

> **Note:** Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.