

**Dell Systems Management - OpenManage
Software Support Matrix
Version 7.4.1**



Notes, Cautions, and Warnings

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

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

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

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Introduction

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

The release highlights are:

- **New operating systems:**


- Red Hat Enterprise Linux 7
- VMware vSphere ESXi 5.5 U2

 **NOTE:** ESXi 5.5 U2 is supported only on Dell PowerEdge R920 version 1.1.

- **Deprecated operating systems:**

- ESXi 5.0
- ESXi 5.1 U1
- ESXi 5.5
- Red Hat Enterprise Linux 5.9
- Support for PowerEdge R920 version 1.1, PowerEdge RAID Controller (PERC) H330 and PERC H830.
- Support for storage enclosure MD1400, MD1420.
- iDRAC7 1.65.65.
- The Systems Management Tools and Documentation (SMTD) Media would provide guidance on the OpenManage products/tools.
- We recommend using Dell OpenManage Essentials as a replacement for Dell IT Assistant (ITA). Dell OpenManage Essentials provides improved capabilities such as:
 - Discovering and inventoring the systems.
 - Monitoring systems' health.
 - Viewing and managing system alerts.
 - Performing system updates.


- Viewing hardware inventory and compliance reports.

 **NOTE:** For more information on migrating from ITA to OME, visit dell.com/ome and DellTechcenter.com/ome.

Accessing documents from Dell Support Site

To access the documents from Dell Support site:

1. Go to dell.com/support/home.
2. In the **Tell us about your Dell system** section, under **No**, select **Choose from a list of all Dell products** and click **Continue**.
3. In the **Select your product type** section, click **Software, Monitors, Electronics & Peripherals**.
4. In the **Choose your Dell Software, Monitors, Electronics & Peripherals** section, click **Software**.
5. In the **Choose your Dell Software** section, click the required link from the following:
 - **Client System Management**
 - **Enterprise System Management**
 - **Remote Enterprise System Management**
 - **Serviceability Tools**
6. To view the document, click the required product version.

 **NOTE:** You can also directly access the documents using the following links:

- For Client System Management documents — dell.com/OMConnectionsClient
- For Enterprise System Management documents — dell.com/openmanagemanuals
- For Remote Enterprise System Management documents — dell.com/esmmanuals
- For Serviceability Tools documents — dell.com/serviceabilitytools

Accessing documents from Dell support site

You can access the required documents in one of the following ways:

- Using the following links:
 - For all Enterprise Systems Management documents — dell.com/softwaresecuritymanuals
 - For Enterprise Systems Management documents — dell.com/openmanagemanuals
 - For Remote Enterprise Systems Management documents — dell.com/esmmanuals
 - For OpenManage Connections Enterprise Systems Management documents — dell.com/OMConnectionsEnterpriseSystemsManagement
 - For Serviceability Tools documents — dell.com/serviceabilitytools
 - For Client Systems Management documents — dell.com/clientsystemsmanagement
 - For OpenManage Connections Client Systems Management documents — dell.com/connectionsclientsystemsmanagement
- From the Dell Support site:
 - a. Go to dell.com/support/home.
 - b. Under **General support** section, click **Software & Security**.

- c. In the **Software & Security** group box, click the required link from the following:
 - **Enterprise Systems Management**
 - **Remote Enterprise Systems Management**
 - **Serviceability Tools**
 - **Client Systems Management**
 - **Connections Client Systems Management**
- d. To view a document, click the required product version.
- Using search engines:
 - Type the name and version of the document in the search box.

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 www.dell.com/support 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 v14.05
- Server Update Utility v14.10
- FTP Catalog

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 v3.0
- Dell OpenManage Mobile v1.2
- Dell OpenManage Server Administrator v7.4.1
- Dell OpenManage Essentials v2.0

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. 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	Korean Operating System	Traditional Chinese Operating System
English	X						X	X
French		X						

Dell OpenManage GUI Languages	English Operating System	French Operating System	German Operating System	Spanish Operating System	Simplified Chinese Operating System	Japanese Operating System	Korean Operating System	Traditional Chinese Operating System
German			X					
Spanish				X				
Simplified Chinese					X			
Japanese						X		
Korean								
Traditional Chinese								

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 www.dell.com/support/manuals.

Documentation conventions for Dell systems

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

Table 2. Documentation Conventions for Dell Systems


11 th generation	12 th generation
M910	M420
M915	M520
R415	M620
R515	M820
R610	R220
R710	R320
R715	R420
R815	R520
R910	R620

11 th generation	12 th generation
T110 II	R720
	R720XD
	R820
	R920 version 1.1
	T320
	T420
	T620
	FM120

Supported Dell OpenManage Systems Management Software On Windows Operating Systems

The following table lists the supported Dell OpenManage 7.4.1 installation and systems management software on systems running supported Microsoft Windows operating systems.

Systems Build and Update Utility (SBUU) v2.4 - The Dell System Build and Update Utility (SBUU) provide one-to-one deployment and single-server update capabilities in the pre-operating system environment.

 **NOTE:** Dell recommends to use Lifecycle controller for OS deployment on 11th generation and 12th generation as a replacement for SBUU, as it is deprecated.

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 3. Supported Dell OpenManage 7.4.1 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1			Microsoft Windows Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011			Microsoft Windows Storage Server 2008 x86 SP2				Microsoft Windows Server 2012		Microsoft Windows Server 2012 R2			
	Foundation, Standard, and Enterprise	Data Center	Web	Foundation, Standard, Enterprise, and Datacenter	Essentials	Standard, Premium Add-on	Basic	Standard	Enterprise	Workgroup	Standard	Essentials	Foundation	Essentials	Standard	Datacenter	
R415																	
R515																	
R610																	
R710																	
R815																	
R910																	
M910																	
M915																	
T110 II																	
R220							X	X	X	X							
R320																	
R420																	
R520																	

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1			Microsoft Windows Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011			Microsoft Windows Storage Server 2008 x86 SP2				Microsoft Windows Server 2012		Microsoft Windows Server 2012 R2			
	Foundation, Standard, and Enterprise	Data Center	Web	Foundation, Standard, Enterprise, and Datacenter	Essentials	Standard, Premium Add-on	Basic	Standard	Enterprise	Workgroup	Standard	Essentials	Foundation	Essentials	Standard	Datacenter	
R620																	
R720																	
R720XD																	
R820																	
R920 v1.1	X	X	X	X							X	X	X	X	X	X	
M420																	
M520																	
M620																	
M820																	
T320																	
T420																	
T620																	
FM120	X	X	X	X							X	X	X	X	X	X	

Supported Dell OpenManage Systems Management Software on Linux Operating Systems

The following table lists the supported Dell OpenManage 7.4.1 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 4. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7
R320			X
R415			X
R420			X
R515			X
R520			X
R610			X
R620			X
R710			X
R720			X
R720XD			X
R820			X
R910			X
R920 v1.1	X	X	X
M420			X
M520			X
M620			X
M820			X
M910			X
M915			X
T110 II			X
T320			X
T420			X

Dell System	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7
T620			X
FM120	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 7.4.1 installation and systems management software on systems running supported Virtualization operating systems.

Table 5. Supported Dell OpenManage Systems Management Software on Systems Running Supported Virtualization Operating Systems

Dell System	VMware		Citrix
	ESXi 5.1 U2 (HDD)	ESXi 5.5 U2 (HDD and Flash)	XenServer 6.2
R220			
R320			
R415			
R420			
R515			
R520			
R610			
R620			
R710			
R715			
R720			
R720XD			
R815			
R820			
R910			
R920 v1.1	X	X	X
M420			

Dell System	VMware		Citrix
	ESXi 5.1 U2 (HDD)	ESXi 5.5 U2 (HDD and Flash)	XenServer 6.2
M520			
M620			
M820			
M910			
M915			
T110 II			
T320			
T420			
T620			
FM120			

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
- FTP Catalog
- **Dell Update Packages v14.05** - 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 www.dell.com/support/manuals.

- **Server Update Utility v14.10** - 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 www.dell.com/support/manuals.

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


- **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.

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 7.4.1 change management software on systems running supported Microsoft Windows operating systems.

Table 6. 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 Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Enterprise, Data Center, and Web	Essentials	Standard, Premium Add-on	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise	Foundation, Essentials, Standard, Datacenter
R220	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
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
R515	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
R710	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
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
R910	D,S	D,S	D,S	D,S	D,S	D,S
R920 v1.1	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
M610	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

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 Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Enterprise, Data Center, and Web	Essentials	Standard, Premium Add-on	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise	Foundation, Essentials, Standard, Datacenter
M710	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
M910	D,S	D,S	D,S	D,S	D,S	D,S
T110 II	D,S	D,S	D,S	D,S	D,S	D,S
FM120	D,S	D,S	D,S	D,S	D,S	D,S

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.

 **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 7.4.1s change management software on systems running supported Linux operating systems.

Table 7. Supported Dell OpenManage Change Management Software on Systems Running Supported Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP3	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7
R220	D,S	D,S	
R320	D,S	D,S	
R420	D,S	D,S	
R520	D,S	D,S	
R620	D,S	D,S	


Dell System	SUSE Linux Enterprise Server 11 SP3	Red Hat Enterprise Linux 6.5	Red Hat Enterprise Linux 7
R720	D,S	D,S	
R720XD	D,S	D,S	
R820	D,S	D,S	
R920 v1.1	D,S	D,S	D,S
M420	D,S	D,S	
M520	D,S	D,S	
M620	D,S	D,S	
M820	D,S	D,S	
T320	D,S	D,S	
T420	D,S	D,S	
T620	D,S	D,S	
FM120	D,S	D,S	

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 7.4.1 change management software on systems running supported Virtualization operating systems.

Table 8. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems

Dell Systems	VMware	Citrix
	ESXi 5.5 U2	XenServer 6.2
R220		
R320		
R420		

Dell Systems	VMware	Citrix
	ESXi 5.5 U2	XenServer 6.2
R520		
R620		
R720		
R720XD		
R820		
R920 v1.1	*	D,S
M420		
M520		
M620		
M820		
T320		
T420		
T620		
FM120		

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 v3.0
- Dell OpenManage Mobile v1.2
- Dell OpenManage Server Administrator v7.4.1
- Dell OpenManage Essentials v2.0

Dell OpenManage Mobile v1.2

Dell OpenManage Mobile is a systems management application that enables you to monitor your datacenter from an Android mobile device. Dell OpenManage Mobile enables you to add one or more OpenManage Essentials consoles 1.3 or later and/or integrated Dell Remote Access Controllers (iDRACs) 7 or later. It provides OpenManage Essentials alerts to your mobile device and enables you to troubleshoot your hardware in case of emergencies. OpenManage Mobile can also connect to a PowerEdge server directly through the iDRAC with Lifecycle Controller interface. After it is connected, you can perform several basic management functions directly on the server. In addition, OpenManage Mobile allows you to view the health of your data center and perform basic tasks such as power control functions.

Dell OpenManage Essentials v2.0

The Dell OpenManage Essentials is the one-to-many Systems Management console providing Elemental Hardware Management that helps you maximize IT performance and uptime capabilities of Dell PowerEdge™ servers, EqualLogic™ and PowerVault™ storage, PowerConnect™ and Dell Force10 switches.

For more information on Dell OpenManage Essentials, see the *Dell OpenManage Essentials Support Matrix* available at www.dell.com/support.

Dell OpenManage Power Center 3.0

Dell OpenManage Power Center (OMPC) management console provides increased visibility of and control over Dell PowerEdge Servers power consumption, anomalies, and utilization through fine-grained instrumentation. This enables increased control, improved rack density, faster response times,

greater accuracy, and broader decision-making intelligence. OMPC allows customers to set a budget cap and provides millisecond fast power capping to prevent tripping a circuit breaker. OMPC also allows IT administrators to set policies to dictate automated response when power or temperature events occur.

For more information on Dell OpenManage Power Center, see the *Dell OpenManage Power Center User's Guide* available at www.dell.com/support.

Supported Microsoft Windows Operating Systems for Power Center v3.0

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

Table 9. Supported Microsoft Windows Operating Systems for Power Center

	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012 (64-bit)	Microsoft Windows Server 2012 R2 (64-bit)	Microsoft Windows Enterprise (64-bit) 7.0	Microsoft Windows Enterprise (64-bit) 8.0
Edition	Standard, Enterprise, Datacenter	Standard, Enterprise, and Datacenter	Standard, Enterprise, and Datacenter		
Service Pack	SP2				
Power Center	X	X	X	X	X

Supported Linux Operating Systems For Power Center v3.0

The following table lists the supported Linux Operating Systems.

Table 10. Supported Linux Operating Systems

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)
Power Center	X	X	X

Dell OpenManage Server Administrator v7.4.1

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 11. Supported Microsoft Windows Server Operating Systems for Server Administrator and Server Administrator web server.

	Micro soft Wind ows Serve r 2008 (32- bit)	Micro soft Wind ows Serve r 2008 (64- bit)	Micro soft Wind ows Serve r 2008 R2 (64 - Bit)	Micro soft Wind ows Vista (32- bit)	Micro soft Wind ows Vista (64- bit)	Micro soft Wind ows 7.0 (32- bit)	Micro soft Wind ows 7.0 (64- bit)	Micro soft Wind ows 8.0 (32- bit and 64- bit)	Micro soft Wind ows Serve r 2008 R2 (64- bit)	Micro soft Wind ows Serve r 2012 Datac enter	Micro soft Wind ows Serve r 2012 Essen tials	Micro soft Wind ows Server 2012 R2
Service Pack	SP2	SP2	SP1	SP3	SP2	SP1	SP1	N/A	SP1	N/A	N/A	N/A
Server Administrator									X	X	X	X
Server Administrator Web Server	X	X	X	X	X	X	X	X	X	X	X	X

 **NOTE:** Microsoft Windows 2003 support is not provided for 12th generation 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 12. Supported Linux Operating Systems for Server Administrator


	SUSE Linux Enterprise Server 11 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7
Service Pack	SP3		
Server Administrator	X	X	X
Server Administrator Web Server	X	X	X


Supported Virtualization Operating Systems For Server Administrator

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

Table 13. Supported Virtualization Operating Systems on Physical System

	VMware		Citrix
Edition	ESXi 5.1 U2 (HDD and Flash)	ESXi 5.5 U2	XenServer v6.2
Server Administrator	X	X	X
Server Administrator Web Server			

 **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 Systems Management Tools And 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 v4.4.1

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

Table 14. Supported Microsoft Windows Pre-installation Environment for Dell Deployment Tool kit (DTK)

	Windows Preinstallation Environment 5.0	Windows Preinstallation Environment 4.0	Windows Preinstallation Environment 3.0
	(64-bit)	(64-bit)	(64-bit)
DTK	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 15. 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 Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP2	SP2	SP2		SP3	SP2	SP2				
Remote RACADM	X	X	X	X	X	X	X	X	X	X	X
Local RACADM	X	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 16. Supported Linux Operating Systems for RACADM

	SUSE Linux Enterprise Server 11 (64-bit)	Red Hat Enterprise Linux 5.9 (32-bit)	Red Hat Enterprise Linux 5.9 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)
Service Pack	SP3			
Remote RACADM	X	X	X	X
Local RACADM	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 17. Supported Virtualization Operating Systems for RACADM

	VMWare		Microsoft				Citrix	
	ESXi 5.1 U2	ESXi 5.5 (flash, HDD)	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008	Hyper-V for Windows 2012	Hyper-V for Windows 2012 R2	XenServer 6.1	XenServer 6.2
Remote RACADM	X	X	X	X	X	X	X	X
Local RACADM		X	X	X	X	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 18. 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)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1/SP2	SP1/SP2	SP3	SP2	SP2				
VMCLI and iVMCLI	X	X	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 19. Supported Linux Operating Systems for VMCLI and iVMCLI

	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)
VMCLI and iVMCLI	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 www.dell.com/support/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 20. 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)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Edition	SP1/SP2	SP1/SP2	SP3	SP2	SP2				
IPMITool	X	X	X					X	X
IPMITool In-Band	X	X	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 21. Supported Linux Operating Systems for IPMITool In-Band

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 5.8 (32-bit)	Red Hat Enterprise Linux 5.8 (64-bit)	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)
IPMITool In-Band	X	X	X	X	X	X	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 www.dell.com/support/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 22. 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)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1/SP2	SP1/SP2	SP3	SP2				
IPMITool Out-of-Band	X	X	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 23. Supported Linux Operating Systems for IPMITool

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 5.8 (32-bit)	Red Hat Enterprise Linux 5.8 (64-bit)	Red Hat Enterprise Linux 5.9 (32-bit)	Red Hat Enterprise Linux 5.9 (64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)
IPMITool Out-of-Band	X	X	X	X	X	X	X	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 24. 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)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1/SP2	SP1/SP2	SP3	SP2	SP2				
IPMITool	X	X	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 25. Supported Linux Operating Systems for IPMITool

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)	Red Hat Enterprise Linux 5.8 (32-bit)	Red Hat Enterprise Linux 5.8 (64-bit)	Red Hat Enterprise Linux 5.9 (32-bit)	Red Hat Enterprise Linux 5.9 (64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)
IPMITool	X	x	X	X	X	X	x	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.

	VMware								Microsoft				Citrix	
Edition	ESX 4.1 U3	ESXi 5.0 U1	ESXi 5.0 U3	ESXi 5.1 U2	ESXi 5.5 (flash, HDD)	vSphere 4.1 U3	vSphere 5.0 U2	vSphere 5.1 U1	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008	Hyper-V for Windows 2012	Hyper-V for Windows 2012 R2	XenServer 6.1	XenServer 6.2
IPMITool	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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 the availability of your servers, and 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.

Overview

Both iDRAC Express and Enterprise ship from the factory with a default static IP address, this is a preferred and a known method. However, Dell also offers two options to better fit into a customer's existing environment. **Auto-discovery** or **DHCP** can be set from the factory to allow you to access the iDRAC and remotely configure your server.

Auto Discovery

The Auto Discovery option is for customers who have some type of provisioning server already installed in their data center environment. A provisioning server manages and automates the deployment or upgrade of an operating system and applications to a Dell PowerEdge™ server. By enabling Auto Discovery, the servers will — upon first boot — search for a provisioning server to take control and begin the automated deployment or update process. Select this option if you like to ensure that this feature is enabled at the Dell factory. There is no charge to enable Auto Discovery at the time of order.

DHCP

The DHCP option is for customers who have a Dynamic Host Configuration Protocol (DHCP) server already installed in their data center environment. The DHCP server automatically assign the IP address, gateway, and subnet mask to iDRAC7. Select this option if you like to ensure that this feature is enabled at the Dell factory. There is no charge to enable DHCP at time of order.

iDRAC Service Module

The Integrated Dell Remote Access Controller (iDRAC) Service Module is a lightweight optional software application that can be installed on Dell 12G Server or later. The iDRAC Service Module complements iDRAC interfaces – Graphical User Interface (GUI), RACADM CLI and Web Service Management (WSMAN) with additional monitoring data. You can configure the features on the supported operating system depending on the features to be installed and the unique integration needs in a work environment.

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 www.dell.com/support/manuals.

Table below "Remote Access Controllers and Solutions for Blade Servers" and Table "For Rack and Tower Servers" 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

Supported Remote Access Controllers And Solutions For Blade Servers

Table 26. Supported Remote Access Controllers and Solutions for Blade Servers

Dell System	DRACs		CMC Firmware			BMC Firmware Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC Firmware Version	M100e CMC	VRTX CMC	PowerEdge FX		
M420	iDRAC7	1.57.57	5.0	2.0	N/A	N/A	2.0
M520	iDRAC7	1.57.57	5.0	2.0	N/A	N/A	2.0
M620	iDRAC7	1.57.57	5.0	2.0	N/A	N/A	2.0
M820	iDRAC7	1.57.57	5.0	2.0	N/A	N/A	2.0
FM120	iDRAC7	1.57.57	5.0	2.0	1.1	N/A	2.0
M610	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0
M710	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0
M610x	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0
M710HD	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0
M910	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0
M915	iDRAC6	3.65	5.0	N/A	N/A	N/A	2.0

Supported Remote Access Controllers and Solutions for Rack and Tower Servers

Table 27. 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	1.57.57	N/A	2.0
R420	iDRAC7	1.57.57	N/A	2.0
R520	iDRAC7	1.57.57	N/A	2.0
R620	iDRAC7	1.57.57	N/A	2.0
R720	iDRAC7	1.57.57	N/A	2.0
R720XD	iDRAC7	1.57.57	N/A	2.0
R820	iDRAC7	1.57.57	N/A	2.0
R920 v1.1	iDRAC7	1.65.65	N/A	2.0
T320	iDRAC7	1.57.57	N/A	2.0
T420	iDRAC7	1.57.57	N/A	2.0
T620	iDRAC7	1.57.57	N/A	2.0
R415	iDRAC6	1.98	1.95	2.0
R515	iDRAC6	1.98	1.95	2.0
R610	iDRAC6	1.98	N/A	2.0
R710	iDRAC6	1.98	N/A	2.0
R715	iDRAC6	1.98	N/A	2.0
R910	iDRAC6	1.98	N/A	2.0
R815	iDRAC6	1.98	N/A	2.0
EqualLogic FS7500	iDRAC6	1.98	N/A	2.0
T110 II	No iDRAC support		1.95	2.0

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 on the Dell's 11th and 12th generation of PowerEdge 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 Dell's 11th generation of PowerEdge servers, Lifecycle Controller is known as Unified Server Configurator (USC), Unified Server Configurator - Lifecycle Controller Enabled, and Lifecycle Controller-Remote Services.

On the Dell's 12th generation of PowerEdge 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 v1.4** — 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 v1.4** — 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 www.dell.com/support/manuals.

Supported Dell Systems And Windows Operating Systems For Lifecycle Controller v1.4


See [Supported Dell OpenManage Systems Management on Windows Operating System](#) 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 Controller is not supported on Windows Storage Server operating systems.

Supported Dell Systems and Linux Operating Systems for Lifecycle Controller v1.4

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 v1.4

See [Supported Dell OpenManage Systems Management Software on Virtualization OS](#) 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 browsers

The following tables lists the supported browsers for Dell OpenManage 7.4.1 systems management software on systems running supported Microsoft Windows, Red Hat Linux, and SUSE Linux operating systems on the following browsers:

- Internet Explorer
- Mozilla Firefox
- Google Chrome
- Safari

Table 28. Supported Browsers for Dell OpenManage on Microsoft, RHEL and SUSE Linux Operating systems on Internet Explorer and Mozilla Firefox




Browser Version	Internet Explorer							Mozilla Firefox					
	8	8 (64-bit)	9	9 (64-bit)	10	10 (64-bit)	11	15	16	22	23	29	30
Operating System													
Windows XP 32-bit SP3	X	N/A	N/A	N/A	N/A	N/A	X	X	X	X	X	X	X
Windows Vista 32-bit SP2	X	N/A	X	N/A		N/A	X	X	X	X	X	X	X
Windows Vista 64-bit SP2	X	X	X	X			X	X	X	X	X	X	X
Windows 7 32-bit	X	N/A	X	N/A		N/A	X	X	X	X	X	X	X
Windows 7 64-bit	X	X	X	X			X	X	X	X	X	X	X
Windows Server 2003 SP2	X	N/A	N/A	N/A	N/A	N/A	X	X	X	X	X	X	X
Windows Server 2003 x64 SP2	X	X	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2008 SP2	X	N/A	X	N/A	X	N/A	X	X	X	X	X	X	X
Windows Server 2008 64-bit SP2	X	X	N/A	X	N/A	X	X	X	X	X	X	X	X
Windows Server 2008 R2 64-bit	X	X	X	X	X	X	X	X	X	X	X	X	X

	Internet Explorer							Mozilla Firefox					
Browser Version	8	8 (64-bit)	9	9 (64-bit)	10	10 (64-bit)	11	15	16	22	23	29	30
Operating System													
Windows Server 2012 64-bit	X	X	N/A	X	N/A	X	X	X	X	X	X	X	X
Windows Server 2012 R2	X	X	N/A	X	N/A	X	X	X	X	X	X	X	X
SLES 11 SP3	Native Browser									X	X	X	X
RHEL 5.9 32 bit and 64-bit	Native Browser									X	X	X	X
RHEL 6.5	Native Browser									X	X	X	X
RHEL 7	Native Browser									X	X	X	X

Table 29. Supported Browsers for Dell OpenManage on Microsoft, RHEL and SUSE Linux Operating systems on Google Chrome and Safari

	Google Chrome							Safari			
Browser Version	21	22	27	28	30	33	34	5.1.7 on Mac OS X Mountain Lion	5.2	6	7
Operating System											
Windows XP 32-bit SP3	X	X	X	X	X	X	X	X	X	X	X
Windows Vista 32-bit SP2	X	X	X	X	X	X	X	X	X	X	X
Windows Vista 64-bit SP2	X	X	X	X	X	X	X	X	X	X	X
Windows 7 32-bit	X	X	X	X	X	X	X	X	X	X	X
Windows 7 64-bit	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2003 SP2	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2003 x64 SP2	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2008 SP2	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2008 64-bit SP2	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2008 R2 64-bit	X	X	X	X	X	X	X	X	X	X	X

Browser Version	Google Chrome							Safari			
	21	22	27	28	30	33	34	5.1.7 on Mac OS X Mountain Lion	5.2	6	7
Operating System											
Windows Server 2012 64-bit	X	X	X	X	X	X	X	X	X	X	X
Windows Server 2012 R2	X	X	X	X	X	X	X	X	X	X	X
SLES 11 SP3			X	X	X	X	X	X	X	X	X
RHEL 5.9 32 bit and 64-bit			X	X	X	X	X	X	X	X	X
RHEL 6.5			X	X	X	X	X	X	X	X	X

-  **NOTE:** Safari 5.2 and 6 on Mac OS X 10.7 (Mountain Lion) supports iDRAC7. At this point, there is no support available for OMSA.
-  **NOTE:** Chrome 21 and 22 supports iDRAC7. At this point, there is no support available for OMSA.
-  **NOTE:** For the latest information, see the *Readme* file for the specific product available at www.dell.com/support/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*.


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 7.4.1.


Table 30. NIC Manufacturers and Drivers Required for Supported Operating Systems

NIC Product Name	Microsoft Windows 2008 Family	Microsoft Windows Server 2012 Family	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 7(64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)
Broadcom Family of Adapters	18.2.0	18.2.0	18.2.0	Not Supported	18.2.0	18.2.0	18.2.0
Intel Family of Adapters	16.0.0	16.0.0	16.0.0	16.0.0	Not Supported	Not Supported	16.0.0
QLogic Family of Adapters(FC & Classic CNAs)	5.3.25.0425	5.3.25.0425	5.3.55.7	5.3.55.7	5.3.55.7	5.3.55.7	5.3.55.7
Emulex Family of Adapters	08.01.16	08.01.16	08.01.16	08.02.30	Not Supported	Not Supported	08.01.16
Brocade Family of Adapters	3.1.0	3.1.0	3.1.0	3.1.0	3.1.0	3.1.0	3.1.0
Mellanox Family of Adapters (Ethernet only)	WinOF 4.460 (R2 only)	WinOF 4.60	MLNX OFED 2.1-1.0.0	Inbox Drivers	MLNX OFED 2.0-2.6.8	MLNX OFED 2.0-2.6.8	MLNX OFED 2.1-1.0.0

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

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 www.dell.com/support/manuals.

The following types of controllers are included in this section:

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

 **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 www.dell.com/support/manuals 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).

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: 2900, 2950, 2970, R805, R900, T610, R410, R610, R710, M610, M710, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, R220, T110, R510, R810, R910, R920 v1.1, M910, R715, R815, R415, and R515.

The SAS 6/iR Adapter supports the following Dell PowerEdge systems: R200, R300, R410, T105, T300, R905, R920 v1.1, T100, and T605.

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

Table 31. 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 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	00.25.47.00/06.22.03.00	1.28.03.52	Native
Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 Driver 64-bit	Red Hat Enterprise Linux 7 Driver	
Native	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 32. Storage Management Service Supported Elements: SAS 6/int Modular

Storage Management Service version	Server Administrator Version	SAS Firmware/BIOS Version			
4.2	7.4.1	00.25.47.00/06.22.03.00			
Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	Windows Server 2012 Driver R2	Windows Server 2012 Driver	Red Hat Enterprise Linux 7 Driver	Windows Server 2008 Driver R2
Native	Native	Native	Native	Native	Native

PERC H700 Adapter, Integrated, and Modular

The PERC H700 Adapter supports the following Dell PowerEdge systems: R310.

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

The PERC H700 Modular supports the following Dell PowerEdge systems: M915 and M910.

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

Table 33. Dell OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular

Storage Management Service Version	Server Administrator Version	PERC Firmware Version
4.2	7.4.1	12.10.5-0001
Red Hat Enterprise Linux 7		
Native		

PERC H800 Adapter

The PERC H800 Adapter supports the following Dell PowerEdge systems: R610, R710, R715, R815, and R910.

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 34. Dell OpenManage Supported Elements: PERC H800 Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version
4.2	7.4.1	12.10.5-0001
Red Hat Enterprise Linux 7		
Native		

PERC H200 Adapter, Integrated, and Modular

The PERC H200 Adapter supports the following Dell PowerEdge systems: T410, R210, R220, T110, R310, T610, R410, R920 v1.1, and T710.

The PERC H800 Integrated supports the following Dell PowerEdge systems: R415, R515, R610, R710, R715, R815, R910, and T110 II.

The PERC H700 Modular supports the following Dell PowerEdge systems: M915 and M910.

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

Table 35. Dell OpenManage Supported Elements: PERC H200 Adapter, Integrated and Modular

Storage Management Service version	Server Administrator Version	PERC Firmware Version
4.2	7.4.1	07.03.06.00

Red Hat Enterprise Linux 7 Driver
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, M520, M620, R820, R220, R320, R420, R520, T320, T420 and T620.

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

Table 36. 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 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	20.13.0.0007	5.2.220.32	5.2.220.64
Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	Red Hat Enterprise Linux 7 Driver	
5.2.220.64	Native	Native	Native	

PERC H330 Adapter, Mini Blade, And Mini Monolithic

The PERC H330 Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge system: R920 v1.1.

The following tables list the other elements supported by the PERC H330 Adapter, Mini Blade, and Mini Monolithic controllers.

Table 37. Dell OpenManage Supported Elements: PERC H330 Adapter, Mini Blade, and Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	25.2.1.0037	6.602.07.00	6.602.07.00
Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	Red Hat Enterprise Linux 7 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	
6.602.07.00	Native	Native	To be installed separately	

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, M520, M620, R220, R320, R420, R520, T320, T420 and T620.

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

Table 38. 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 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	21.2.0-0007	5.2.220.64	5.2.220.32
Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	Red Hat Enterprise Linux 7 Driver	
5.2.220.32	Native	Native	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, M520, M620, R220, R320, R420, R520, T320, T420 and T620.

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

Table 39. 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 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	21.2.0-0007	5.1.118.64	5.2.220.64
Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	Red Hat Enterprise Linux 7 Driver	
5.1.118.32	Native	Native	Native	

PERC H730 Adapter, Mini blade, and Mini Monolithic

The PERC H730 controller supports the following Dell PowerEdge system: R920 v1.1.

The following tables list the other elements supported by the PERC H730 controller.

Table 40. Dell OpenManage Supported Elements: PERC H730P

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	Red Hat Enterprise Linux 7	SUSE Linux Enterprise Server 11 SP3 64-bit Driver
6.602.07.00	Native	Native	Native

PERC H730P Adapter, Mini blade, and Mini Monolithic

The PERC H730P controller supports the following Dell PowerEdge system: R920 v1.1

The following tables list the other elements supported by the PERC H730P controller.

Table 41. Dell OpenManage Supported Elements: PERC H730P

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	Red Hat Enterprise Linux 7 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver
6.602.07.00	Native	Native	Native

PERC H810 Adapter

The PERC H810 Adapter supports the following Dell PowerEdge systems: R620, R720, R720XD, R820, M620, R220, R320, R420, R520, T320, T420 and T620.

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

Table 42. Dell Dell OpenManage Supported Elements: PERC H810 Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	21.2.0-0007	6.801.5.0	6.801.5.0

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver	Red Hat Enterprise Linux 7 Driver
6.801.5.0	Native	Native	Native

PERC H830 Adapter

The PERC H830 Adapter supports the following Dell PowerEdge system: R920 v1.1.

The following tables list the other elements supported by the PERC H830 Adapter controller.

Table 43. Dell Dell OpenManage Supported Elements: PERC H830 Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
4.2	7.4.1	25.2.1.0037	6.602.07.00	6.602.07.00

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.5 Driver	Red Hat Enterprise Linux 7 Driver	SUSE Linux Enterprise Server 11 SP3 64-bit Driver
6.602.07.00	Native	Native	Native