

Dell™ Systems Software Support Matrix Version 6.1

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Notes and Cautions

 **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.

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Supported Browsers


Dell™ Systems Software Support Matrix Version 6.1

[Table 6-1](#) lists the browsers that support Dell OpenManage™ in Dell systems.

Table 6-1. Supported Browsers

Operating System	Windows Server® 2003	Windows XP	Windows Server 2008	Windows Vista®	SUSE® Linux Enterprise Server 10	SUSE Linux Enterprise Server
Browser	Internet Explorer 8.0 Internet Explorer 7.0 Internet Explorer 6.0 SP2 Firefox 3.0	Internet Explorer 8.0 Internet Explorer 6.0 SP2 Firefox 3.0	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0	Firefox 2.0	Firefox 3.0

 **NOTE:** IT Assistant is not supported on Firefox 3.0 for Microsoft Windows Server 2008 Family.

 **NOTE:** iDRAC 1.4/2.0 is not supported on Internet Explorer 8.0.

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T300		D, S	D, S	D, S	D, S	D, S	D, S	D, S	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	D, S	D, S	D, S
M605								D, S	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	D, S
R900						D, S	D, S	D, S	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	D, S	D, S	D, S	D, S	D, S
T605		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T105		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T100		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
6950						D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
2970				D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
2950		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
2900		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
1955								D, S	D, S	D, S	D, S	D, S	D, S	D, S
1950		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
1900		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
6850								D, S	D, S	D, S	D, S	D, S	D, S	D, S
6800								D, S	D, S	D, S	D, S	D, S	D, S	D, S
2850				D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
2800		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
1855								D, S	D, S	D, S	D, S	D, S	D, S	D, S
1850				D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
1800		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
860		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
850				D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
840		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
830		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
800		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC1435				D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC1430		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC1425								D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC440		D, S	D, S	D, S	D, S			D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC430		D, S	D, S					D, S	D, S	D, S	D, S	D, S	D, S	D, S
SC420		D, S	D, S					D, S	D, S	D, S	D, S	D, S	D, S	D, S
PowerVault 100														
PowerVault 500														
PowerVault 600														
PowerVault DL2000														
PowerVault NX1950														
PowerVault NX3000														

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

Supported Change Management Software on Linux Operating Systems

[Table 3-2](#) lists the supported Dell OpenManage 6.1 change management software on systems running supported Linux operating system.

- 1 A D in the intersection of the operating system and the Dell system columns indicates support for Dell Update Packages.
- 1 An S in the intersection of the operating system and the Dell system columns indicates support for Server Update Utility.


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

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

Dell System	SUSE® Linux Enterprise Server 10 (x86_64)	SUSE Linux Enterprise Server 11 (x86_64)	Red Hat® Enterprise Linux® 4.7 (x86_32)	Red Hat Enterprise Linux 4.7 (x86_64)	Red Hat Enterprise Server 5 server (64-bit)

SC1435										D, S	D, S
SC1430										D, S	D, S
SC1425											
SC1420											
SC440										D, S	D, S
SC430											
SC420											
PowerVault 100											
PowerVault 500											
PowerVault 600											
PowerVault DL2000											
PowerVault NX1950											
PowerVault NX3000											

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Supported Dell OpenManage Systems Management Software

Dell™ Systems Software Support Matrix Version 6.1

- [Supported Dell OpenManage Systems Management Software on Microsoft Windows Operating Systems](#)
- [Supported Dell OpenManage Systems Management Software on Linux Operating Systems](#)
- [Supported Dell OpenManage Systems Management Software on Virtualization Operating Systems](#)

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

Dell OpenManage systems management software can be divided into:

1 Dell OpenManage Server Administrator

Dell OpenManage 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:

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

For more information about Dell OpenManage Server Administrator, see the *Dell OpenManage Server Administrator User's Guide*. This guide is available on the Dell Support website at support.dell.com.

1 Dell Systems Build and Update Utility

Dell Systems Build and Update Utility is designed to speed up the setup and performance of Dell systems. Dell Systems Build and Update Utility provides a series of intuitive and easy-to-follow interview screens that help guide you through the server installation process.

For more information about Systems Build and Update Utility, see the *Dell Systems Build and Update Utility User's Guide* available on the Dell Support website at support.dell.com.

Documentation Conventions for Dell Systems

[Table 2-1](#) lists all the Dell systems that belong to the x8xx, x9xx, xx0x, and xx1x groups.


Table 2-1. Documentation Conventions for Dell Systems

x8xx	x9xx	xx0x	xx1x
800	1900	T105	T710
830	1950	R200	M710
840	1955	M600	M610
850	2900	M605	T410
860	2950	R805	R410
1800	2970	R900	T610
1850	6950	T605	R710
1855	PowerVault 100	R905	R610
2800	PowerVault 500	T300	PowerVault NX3000
2850	PowerVault 600	R300	
6800	PowerVault DL2000	M805	
6850	PowerVault NX1950	M905	
		T100	

Supported Dell OpenManage Systems Management Software on Microsoft Windows Operating Systems

[Table 2-2](#) lists the supported Dell OpenManage 6.1 installation and systems management software on systems running supported Microsoft® Windows® operating systems.

- 1 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 system.
- 1 An A in the intersection of the operating system and the Dell system columns indicates systems that support Dell Systems Build and Update Utility but not Server Administrator.
- 1 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:** For more information about when Microsoft Windows Server 2008 SP2 will be available, see www.microsoft.com.



 **NOTE:** If you choose to have the VMware ESXi 3.5 update 4 operating system factory-installed on Dell T710, R410, or T410 systems, Dell OpenManage version 6.0.3 is installed on these systems.

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

Dell System	Windows Small Business Server 2003		Windows Small Business Server 2008		Windows Essential Business Server 2008		Windows Server® 2003 x86			Windows Server 2003 x64			Wi	
	Edition	Standard	Premium	Standard	Premium	Standard	Premium	Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web
		Service Pack	SP2	SP2					SP2	R2-SP2	R2-SP2	R2-SP2	R2-SP2	R2-SP2
T710		X	X	X	X	X	X	X	X	X	X	X	X	X
M710						X	X	X	X	X	X	X	X	X
M610						X	X	X	X	X	X	X	X	X
T410		X	X	X	X	X	X	X	X	X	X	X	X	X
R410		X	X	X	X	X	X	X	X	X	X	X	X	X
T610		X	X	X	X			X	X	X	X	X	X	X
R710		X	X	X	X			X	X	X	X	X	X	X
R610		X	X	X	X			X	X	X	X	X	X	X
M905								X	X	X	X	X	X	X
M805								X	X	X	X	X	X	X
R200				X	X	X	X	X	X	X	X	X	X	X
R300				X	X	X	X	X	X	X	X	X	X	X
T300		X	X	X	X	X	X	X	X	X	X	X	X	X
R905						X	X	X	X	X	X	X	X	X
M605								X	X	X	X	X	X	X
M600								X	X	X	X	X	X	X
R900						X	X	X	X	X	X	X	X	X
R805				X	X	X	X	X	X	X	X	X	X	X
T605		X	X	X	X	X	X	X	X	X	X	X	X	X
T105		*	*	*	*	*	*	*	*	*	*	*	*	*
T100		*	*	*	*	*	*	*	*	*	*	*	*	*
6950						X	X	X	X	X	X	X	X	X
2970				X	X	X	X	X	X	X	X	X	X	X
2950		X	X	X	X	X	X	X	X	X	X	X	X	X
2900		X	X	X	X	X	X	X	X	X	X	X	X	X
1955								X	X	X	X	X	X	X
1950		X	X	X	X	X	X	X	X	X	X	X	X	X
1900		X	X	X	X	X	X	X	X	X	X	X	X	X
6850								X	X	X	X	X	X	X
6800								X	X	X	X	X	X	X
2850				X	X			X	X	X	X	X	X	X
2800		X	X	X	X			X	X	X	X	X	X	X
1855								X	X	X	X	X	X	X
1850				X	X			X	X	X	X	X	X	X
1800		X	X	X	X			X	X	X	X	X	X	X
860		X	X	X	X			X	X	X	X	X	X	X
850				X	X			X	X	X	X	X	X	X
840		X	X	X	X			X	X	X	X	X	X	X
830		X	X	X	X			X	X	X	X	X	X	X
800		X	X	X	X			X	X	X	X	X	X	X

SC1435				*	*			*	*	*	*	*	*	*
SC1430		*	*	*	*			*	*	*	*	*	*	*
SC1425								*	*	*	*	*	*	*
SC440		*	*	*	*			*	*	*	*	*	*	*
SC430		*	*					*	*	*	*	*	*	*
SC420		*	*					*	*	*	*	*	*	*
PowerVault 100														
PowerVault 500														
PowerVault 600														
PowerVault DL2000														
PowerVault NX1950														
PowerVault NX3000														

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

Supported Dell OpenManage Systems Management Software on Linux Operating Systems

Table 2-3 lists the supported Dell OpenManage 6.1 installation and systems management software on systems running supported Linux operating system.

- 1 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.
- 1 An A in the intersection of the operating system and the Dell system columns indicates systems that support Dell Systems Build and Update Utility but not Server Administrator.
- 1 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	Edition	SUSE® Linux Enterprise Server 10 (x86_64)	SUSE Linux Enterprise Server 11 (x86_64)	Red Hat® Enterprise Linux® 4.7 (x86_32)			Red Hat Enterprise Linux 4.7 (x86_64)			Red Hat Enterprise Server (x86_64)
				WS	ES	AS	WS	ES	AS	
	Service Pack	SP2		Gold	Gold	Gold	Gold	Gold	Gold	U3
T710		X	X	X	X	X	X	X	X	X
M710		X	X	X	X	X	X	X	X	X
M610		X	X	X	X	X	X	X	X	X
T410		X	X	X	X	X	X	X	X	X
R410		X	X	X	X	X	X	X	X	X
T610		X	X	X	X	X	X	X	X	X
R710		X	X	X	X	X	X	X	X	X
R610		X	X	X	X	X	X	X	X	X
M905		X	X		X	X	X	X	X	X
M805		X	X		X	X	X	X	X	X
R200		X	X		X	X		X	X	X
R300		X	X		X	X		X	X	X
T300		X	X		X	X		X	X	X
R905		X	X			X			X	X
M605		X	X		X	X		X	X	X
M600		X	X		X	X		X	X	X
R900		X	X		X	X		X	X	X
R805		X	X		X	X		X	X	X
T605		X	X		X			X		X
T105		*	*							*

T100											
6950		X	X			X			X		X
2970		X	X			X	X		X	X	X
2950		X	X			X	X		X	X	X
2900		X	X			X	X		X	X	X
1955		X	X		X	X	X	X	X	X	X
1950		X	X		X	X	X	X	X	X	X
1900		X	X			X	X		X	X	X
6850		X	X			X			X		X
6800		X	X			X			X		X
2850						X	X		X	X	X
2800						X	X		X	X	X
1855					X	X	X	X	X	X	X
1850					X	X	X	X	X	X	X
1800					X	X	X	X	X	X	X
860		X	X			X	X		X	X	X
850						X	X		X	X	X
840		X	X			X	X		X	X	X
830						X	X		X	X	X
800						X	X		X	X	X
SC1435		*	*		*	*		*	*		*
SC1430		*	*			*			*		*
SC1425					*	*		*	*	*	*
SC1420						*			*	*	*
SC440		*	*			*			*		*
SC430						*			*		*
SC420						*					*
PowerVault 100											
PowerVault 500											
PowerVault 600											
PowerVault DL2000											
PowerVault NX1950											
PowerVault NX3000											

Supported Dell OpenManage Systems Management Software on Virtualization Operating Systems

Table 2-3 lists the supported Dell OpenManage 6.1 installation and systems management software on systems running supported virtualization operating system.

- 1 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.
- 1 An A in the intersection of the operating system and the Dell system columns indicates systems that support Dell Systems Build and Update Utility but not Server Administrator.
- 1 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:** For more information about when VMware® ESXi 4.0 Patch 1 will be available, see www.dell.com/vmware.

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

Dell System	Edition	VMware®						Citrix™		Microsoft	
		ESX	ESX	ESXi		ESXi		XenServer™		Hyper-V	Hyper-V Server
		3.5 U4	4.0	3.5 U4		4.0 (patch 1)		5.5			
	Service Pack			HDD	Flash	HDD	Flash	HDD	Flash		

T710		X	X	X	X	X	X	X	X	X	X
M710		X	X	X	X	X	X	X	X	X	X
M610		X	X	X	X	X	X	X	X	X	X
T410		X	X	X		X				X	X
R410		X	X	X		X				X	X
T610		X	X	X	X	X	X	X	X	X	X
R710		X	X	X	X	X	X	X	X	X	X
R610		X	X	X	X	X	X	X	X	X	X
M905		X	X	X	X	X	X	X	X	X	X
M805		X	X	X	X	X	X	X	X	X	X
R200		X	X	X		X				X	X
R300		X	X	X		X				X	X
T300		X	X	X		X				X	X
R905		X	X	X	X	X	X	X	X	X	X
M605		X	X	X		X		X		X	X
M600		X	X	X		X		X		X	X
R900		X	X	X	X	X	X	X	X	X	X
R805		X	X	X	X	X	X	X	X	X	X
T605		X	X	X	X	X	X			X	X
T105		*	*					*	*	*	*
T100		*	*					*	*	*	*
6950		X	X							X	X
2970		X	X							X	X
2950		X	X	X	X	X	X	X	X	X	X
2900		X	X	X	X	X	X	X	X	X	X
1955		X	X							X	X
1950		X	X	X	X	X	X	X	X	X	X
1900										X	X
6850		X	X								
6800											
2850		X	X								
2800											
1855		X	X								
1850		X	X								
1800											
860										X	X
850											
840										X	X
830											
800											
SC1435										*	*
SC1430										*	*
SC1425											
SC1420											
SC440										*	*
SC430											
SC420											
PowerVault 100											
PowerVault 500											
PowerVault 600											
PowerVault DL2000											
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Introduction

Dell™ Systems Software Support Matrix Version 6.1

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The Dell™ Systems Software Support Matrix helps identify Dell OpenManage™ software and other Dell components supported on various Dell systems.

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

What's New for this Release

The following are the changes in Dell OpenManage for this Release:

- 1 Support for Microsoft® Windows Server® 2008 with service pack (SP) 2
- 1 Support for Windows Server 2008 Foundation
- 1 Support for Microsoft Internet Explorer version 8.0
- 1 Support for VMware® ESXi version 4.0 HDD and Flash editions (patch 1)
- 1 Support for Suse® Linux Enterprise Server 11
- 1 Support for Red Hat® Enterprise Linux® 5 server with update 3
- 1 Support for following Dell Systems: T710, T410, and R410

 **NOTE:** For more information about when Microsoft Windows Server 2008 SP2 will be available, see www.microsoft.com.

 **NOTE:** For more information about when VMware® ESXi version 4.0 (patch 1) will be available, see www.dell.com/vmware.

Where Can I Find The Server Administrator Application?

Depending on the version of Dell OpenManage you are using, the Server Administrator is available on different media. See [Table 1-1](#) for more information.

Table 1-1. Server Administrator and Corresponding Media

Dell OpenManage Version	Available on Media
5.4 and later	<i>Dell Systems Management Tools and Documentation DVD</i>
5.3–5.3.2	<i>Dell Systems Console and Agent CD or the Dell Systems Management Tools and Documentation DVD</i>
4.3–5.2.3	<i>Dell PowerEdge Installation and Server Management CD</i>
3.0–4.2	<i>Systems Management CD</i>
2.2 and earlier	<i>Applications CD</i>

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.

This guide contains the following chapters:

[Supported Dell OpenManage Systems Management Software](#)

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

- 1 Dell OpenManage Server Administrator
- 1 Dell Systems Build and Update Utility

[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:

- 1 Dell Update Packages
- 1 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:

- 1 Dell OpenManage IT Assistant
- 1 Dell Management Console
- 1 DRAC tools that include RACADM and VMCLI
- 1 BMC Management Utility (BMU) and IPMItool out-of-band
- 1 IPMItool in-band

[Supported Dell Remote Access Controllers and Solutions](#)

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

[Supported Browsers](#)

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

[Network Interface Controllers and Supported Operating Systems](#)

This chapter contains information about Network Interface Controllers and Supported Operating Systems.

[RAID Controller Supported Servers, Operating Systems, Firmware, and Driver Versions](#)

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

Supported Operating Systems

This Software Support Matrix offers support information for the following operating systems:

Microsoft Windows Operating Systems

- 1 Microsoft® Windows Server® 2008 Web, Standard, and Enterprise (32-bit x86) editions with SP2
- 1 Microsoft Windows Server 2008 Core Standard and Enterprise (32-bit x86) editions with SP2
- 1 Microsoft Windows Server 2008 Standard, Enterprise, and Datacenter (x64) editions with SP2
- 1 Microsoft Windows Server 2008 Core Standard, Enterprise, and Datacenter (x64) editions with SP2
- 1 Microsoft Windows Server 2008 Foundation
- 1 Microsoft Windows Server 2003 Web, Standard and Enterprise (32-bit x86) editions with SP2
- 1 Microsoft Windows Server 2003 Standard, Enterprise, and Datacenter (x64) editions with SP2
- 1 Microsoft Windows Server 2003 R2 Standard and Enterprise (32-bit x86) editions with SP2
- 1 Microsoft Windows Server 2003 R2 Standard, Enterprise, and Datacenter (x64) editions with SP2
- 1 Microsoft Windows® Essential Business Server 2008 Standard and Premium editions
- 1 Microsoft Windows Small Business Server 2008 Standard and Premium editions
- 1 Microsoft Windows Small Business Server 2003 Standard and Premium editions with SP2
- 1 Microsoft Windows Storage Server 2008 Express, Workgroup, Standard, and Enterprise x64 editions
- 1 Microsoft Windows Storage Server 2003 R2 Express, Workgroup, Standard, and Enterprise x64 editions with SP2
- 1 Microsoft Windows Server 2003 Compute Cluster Edition and Microsoft Windows Server 2008 HPC Edition
- 1 Microsoft Windows Unified Data Storage Server 2003 Standard and Enterprise x64 editions

- 1 Microsoft Windows XP Professional with SP3 (32-bit x86)
- 1 Microsoft Windows Vista® Business and Enterprise editions.

Linux Operating Systems

- 1 SUSE® Linux Enterprise Server 11(x86_64)
- 1 SUSE Linux Enterprise Server 10 with SP2(x86_64)
- 1 Red Hat Enterprise Linux 5 server with Update 3 (x86_32)
- 1 Red Hat Enterprise Linux 5 server with Update 3 (x86_64)
- 1 Red Hat Enterprise Linux WS, ES, and AS version 4.7 (x86_32)
- 1 Red Hat Enterprise Linux WS, ES, and AS version 4.7 (x86_64)

Virtualization Operating Systems

- 1 Microsoft Hyper-V and Hyper-V Server
- 1 VMware® ESX version 3.5 update 4 and version 4
- 1 VMware® ESXi version 3.5 update 4 and version 4 (patch 1)
- 1 Citrix™ XenServer™ 5.5

 **NOTE:** For Dell OpenManage information specific to VMware, see the latest Installation Guide, Release Notes, and the Dell-VMware Compatibility Matrix under the **Resources** → **Support Documents** section at www.dell.com/vmware.

Supported GUI Languages

Dell OpenManage is localized into French, German, Spanish, Japanese, and Simplified Chinese. Dell OpenManage software is localized according to the matrix in the following table. Dell OpenManage does not support languages outside of this table.

[Table 1-2](#) plots the language of the Dell OpenManage GUI against the operating system languages.

Table 1-2. Supported Dell OpenManage GUI Languages

Dell OpenManage GUI Language	English Operating System	French Operating System	German Operating System	Spanish Operating System	Simplified Chinese Operating System	Japanese Operatin
English	X	X	X	X	X	X
French		X				
German			X			
Spanish				X		
Simplified Chinese					X	
Japanese						X

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Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP3
Remote RACADM	X	X	X	X	X	X	X	X	X	X	X	X

Supported Linux Operating Systems for the RACADM Utility

[Table 4-5](#) shows supported Linux operating systems for the RACADM utility. An X in the operating system column indicates support for the RACADM utility.

Table 4-5. Supported Linux Operating Systems for RACADM

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.7 (x86_32)			Red Hat Enterprise Linux 4.7(x86_64)			Red Hat Enterprise Linux 5 server (x86_32)	Red Hat Enterprise Linux 5 server (x86_64)
Edition			WS	ES	AS	WS	ES	AS		
Service Pack		SP2	Gold	Gold	Gold	Gold	Gold	Gold	U3	U3
Remote RACADM	X	X	X	X	X	X	X	X	X	X

Supported Systems for BMU and IPMI tool 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.

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

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

Supported Microsoft Windows Operating Systems for BMU and IPMI tool Out-of-Band

[Table 4-6](#) shows supported Microsoft Windows operating systems for BMU IPMItool out-of-band. An X in the operating system column indicates BMU and IPMItool out-of-band support.

Table 4-6. Supported Microsoft Windows Operating Systems for BMU and IPMI tool Out-of-Band

	Windows Server 2003 x86			Windows Server 2003 x64			Windows Server 2008 x86			Windows Server 2008 x64	
Edition	Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web	Standard	Enterprise	Standard	Datacenter
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
BMU/IPMI tool out-of-band	X	X	X	X	X	X	X	X	X	X	X

Supported Linux Operating Systems for BMU and IPMI tool Out-of-Band

[Table 4-7](#) shows supported Linux operating systems for BMU and IPMItool out-of-band. An X in the operating system column indicates BMU and IPMItool out-of-band support.

Table 4-7. Supported Linux Operating Systems for BMU and IPMI tool Out-of-Band

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise	Red Hat Enterprise	Red Hat Enterprise Linux 5 server (x86_32)	Red Hat Enterprise Linux 5 server (x86_64)

Edition		SP2	Linux 4.7 (x86_32)			Linux 4.7 (x86_64)			Update 3	Update 3
			WS	ES	AS	WS	ES	AS		
Service Pack		SP2	Gold	Gold	Gold	Gold	Gold	Gold	Update 3	Update 3
BMU/IPMI tool out-of-band	X	X	X	X	X	X	X	X	X	X

Supported Systems for IPMI tool In-Band

IPMI tool in-band also helps in configuring and managing devices.

For more information on IPMI tool, see the *Dell OpenManage Baseboard Management Controller Utilities User's Guide* available on the Dell Support website at support.dell.com.

Supported Microsoft Windows Operating Systems for IPMI tool In-Band

[Table 4-8](#) shows supported Microsoft Windows operating systems for IPMI tool in-band. An X in the operating system column indicates IPMI tool in-band support.

Table 4-8. Supported Microsoft Windows Operating Systems for IPMI tool In-Band

Edition	Windows Server 2003 x86			Windows Server 2003 x64			Windows Server 2008 x86			Windows Server 2008 x64	
	Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web	Standard	Enterprise	Standard	Datacenter
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	Gold	Gold
IPMI tool in-band	X	X	X	X	X	X	X	X	X	X	X

Supported Linux Operating Systems for IPMI tool In-Band

[Table 4-9](#) shows supported Linux operating systems for IPMI tool in-band. An X in the operating system column indicates IPMI tool in-band support.

Table 4-9. Supported Linux Operating Systems for IPMI tool In-Band

Edition	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.7 (x86_32)			Red Hat Enterprise Linux 4.7 (x86_64)			Red Hat Enterprise Linux 5 server (x86_32)	Red Hat Enterprise Linux 5 server (x86_64)
			WS	ES	AS	WS	ES	AS		
Service Pack		SP2	Gold	Gold	Gold	Gold	Gold	Gold	Update 3	Update 3
IPMI tool in-band	X	X	X	X	X	X	X	X	X	X

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Network Interface Controllers and Supported Operating Systems

Dell™ Systems Software Support Matrix Version 6.1

- [Overview](#)
- [NIC Drivers and Operating Systems](#)

Overview

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

[Table 7-1](#) shows the relationship between NICs supported by Dell™ OpenManage™ Server Administrator and the drivers that they require on each supported operating system.


NIC Drivers and Operating Systems

To determine required drivers for NIC systems management, locate your NIC manufacturer in [Table 7-1](#) and the operating system that is installed on your system.

In [Table 7-1](#), "NA" indicates that the driver is supplied by the operating system rather than by the manufacturer of the NIC.

Table 7-1. NIC Manufacturers and Drivers Required for Supported Operating Systems

NIC Product Name	Microsoft Windows 2003 Family	Microsoft Windows 2008 Family	Red Hat® Enterprise Linux® 4.7	Red Hat Enterprise Linux Server 5.3
Broadcom® NetXtreme™ Family of Adapters (5721, 5722)	11.7	11.7	3.92n	3.92n
Broadcom NetXtreme II Family of Adapters (BCM5708, BCM5709)	4.6	4.6	1.8.7b	1.8.7b
Broadcom NetXtreme II Family of Adapter 10GbE (BCM57710)	4.6	4.6	1.48.107	1.48.107
Intel® EtherExpress® Family of Adapters	8.0.17 (Intel PRO/100 Adapters) 8.4.21 (Intel PRO/1000 Adapters)	NA	NA (Intel PRO/100 Adapters) 5.7.6.1 (Intel PRO/1000 Adapters)	See the appropriate release for the latest information
3COM® 3C98x Family of Adapters	NA	NA	NA	NA
Alteon™ ACEnic™ Copper Gigabit	NA	NA	NA	NA

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

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

Dell™ Systems Software Support Matrix Version 6.1

- [Overview](#)
- [PERC 4/DC](#)
- [PERC 4e/DC](#)
- [PERC 3/DC](#)
- [PERC 3/DC](#)
- [PERC 3/QC](#)
- [PERC 4/Di](#)
- [CERC ATA 100 4/CH](#)
- [PERC 3/Di](#)
- [PERC 4/IM](#)
- [PERC 4/SC](#)
- [CERC SATA 1.5/6 Channel](#)
- [PERC 4e/Di](#)
- [PERC 4e/Si](#)
- [PERC 5/E Adapter](#)
- [PERC 5/i Adapter](#)
- [PERC 5/i Integrated](#)
- [CERC 6/i Integrated](#)
- [SAS 5/iR Adapter](#)
- [SAS 5/iR Integrated](#)
- [SAS 5/i Integrated](#)
- [SAS 5/E Adapter](#)
- [PERC 6/i Integrated and Adapter](#)
- [PERC 6/E Adapter](#)
- [SAS 6/iR Integrated and Adapter](#)
- [LSI Logic 1020/1030 Ultra320 SCSI Adapter](#)
- [CERC SATA 1.5/2S](#)
- [LSI 1020/1030 Embedded SCSI Controller](#)
- [LSI Logic 2032 Card](#)

Overview

Starting with Dell™ OpenManage™ Server Administrator version 5.0, only the enhanced Storage Management Service will be 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).

 **NOTE:** This chapter contains release specific RAID Controller Supported Servers, Operating Systems, Firmware, and Driver versions details. For detailed information on RAID Controller Supported Servers, Operating Systems, Firmware, and Driver versions, see *Dell OpenManage Server Administrator Compatibility Guide version 6.1* available on Dell Support site at support.dell.com/manuals.


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:

- 1 Version of the Storage Management Service
- 1 Dell system
- 1 Firmware version number required for a particular controller
- 1 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* on the Dell Support website at support.dell.com.

Five types of controllers are included in this section:

- 1 The RAID controller card group contains the following controllers: PERC 3/DC, PERC 3/SC, PERC 3/QC, PERC 4/SC, PERC 4/DC, PERC 4e/DC, PERC 5/E, PERC 5/i Adapter, PERC 5/i Integrated, SAS 5/iR Adapter, SAS 6/iR Integrated, PERC 6/E, PERC 6/i Adapter, PERC 6/i Integrated, SAS 6/iR Adapter, CERC 6/i Integrated, CERC ATA 100/4 Channel, and CERC SATA 1.5/6 Channel.
- 1 The RAID on motherboard (ROMB) group includes the following controllers: PERC 3/Di, PERC 4/Di, PERC 4e/Di, PERC 4e/Si, CERC SATA 1.5/2S, and SAS 5/iR Integrated.
- 1 The internal mirroring group, provided through the system BIOS, includes the PERC 4/IM controller.
- 1 The LSI 1020/1030 embedded SCSI controller.
- 1 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 the Dell Support website at support.dell.com for the Storage Management Service.

Key to Table Footnotes

Some drivers in the following tables are marked with an asterisk. You can refer to the following paragraph for more information:

Linux Driver Included in RPM*

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

PERC 4/DC

The PERC 4/DC supports the following Dell PowerEdge™ systems: 800, 1800, 1850, 2800, 2850, 6800, and 6850.

The PERC 4/DC supports the following Dell PowerVault™ systems: PV745N, PV770N, and PV775N.

[Table 8-1](#) shows the other elements supported by the PERC 4/DC.

Table 8-1. Storage Management Service Supported Elements: PERC 4/DC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server® 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE® Linux Enterprise Server (SP2 and 11)
3.1	6.1	352D (64-bit)	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA	NA

PERC 4e/DC

The PERC 4e/DC supports the following Dell PowerEdge systems: 830, 850, 1800, 1850, 1900, 1950, 2800, 2850, 2900, 2950, 2970, 6800, and 6850.

[Table 8-2](#) shows the other elements supported by the PERC 4e/DC.

Table 8-2. Storage Management Service Supported Elements: PERC 4/e DC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008 Driver
3.1	6.1	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	Native

Table 8-3. Storage Management Service Supported Elements: PERC 4/e DC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2 and 11)
3.1	6.1	5B2D	2.20.4.4	NA	2.20.4.7

PERC 3/DC

The PERC 3/DC supports the following Dell PowerVault systems: PV735N, PV750N, PV755N, PV770N, and PV775N.

[Table 8-4](#) shows the other elements supported by the PERC 3/DC.

Table 8-4. Storage Management Service Supported Elements: PERC 3/DC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver
3.1	6.1	199D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4

PERC 3/QC

The PERC 3/QC supports the following Dell PowerVault systems: PV735N, PV750N, PV755N, PV770N, and PV775N.

[Table 8-5](#) shows the other elements supported by the PERC 3/QC.

Table 8-5. Storage Management Service Supported Elements: PERC 3/QC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.2 server Driver
3.1	6.1	199D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA

PERC 4/Di

[Table 8-6](#) shows the other elements supported by the PERC 4/Di.

Table 8-6. Storage Management Service Supported Elements: PERC 4/Di

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enter SP2 and 11)
3.1	6.1	422D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA	NA

CERC ATA 100 4/CH

The CERC ATA 100 4/CH supports the following Dell PowerVault system: PV725N.

[Table 8-7](#) shows the other elements supported by the CERC ATA 100 4/CH.

Table 8-7. Storage Management Service Supported Elements: CERC ATA 100 4/CH

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 ser
3.1	6.1	6.62	6.41.2.32	2.10.1	NA

PERC 3/Di

[Table 8-8](#) and [Table 8-9](#) show the other elements supported by the PERC 3/Di.

Table 8-8. Storage Management Service Supported Elements: PERC 3/Di

Storage Management Service*	Dell OpenManage Version	PERC Firmware Version	Windows Server® 2003 Driver	Windows Server 2008 Driver
3.1	6.1	2.8.1-7692	2.8.0.6084	2.8.1.7691

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

Table 8-9. Storage Management Service Supported Elements: PERC 3/Di

Storage Management Service*	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE (vers
3.1	6.1	2.8.1-7692	1.1.5.2372.1	NA	NA

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

PERC 4/IM

The PERC 4/IM supports the following Dell PowerEdge systems: 1855.

[Table 8-10](#) and [Table 8-11](#) show the other elements supported by the PERC 4/IM.

Table 8-10. Storage Management Service Supported Elements: PERC 4/IM

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008 Driver
3.1	6.1	1.03.23.90	1.09.11	Native

Table 8-11. Storage Management Service Supported Elements: PERC 4/IM

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008 Driver
3.1	6.1	1.03.23.90	1.09.11	Native

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2-11 SP3)
3.1	6.1	1.03.23.90	Native	NA	NA

PERC 4/SC

The PERC 4/SC supports the following Dell PowerEdge systems: 800, 830, 850, 1800, and 1850.

[Table 8-12](#) shows the other elements supported by the PERC 4/SC.

Table 8-12. Storage Management Service Supported Elements: PERC 4/SC

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	SUSE Linux Enterprise Server (versions 10 SP2-11 SP3)
3.1	6.1	352D (64-bit)	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA

CERC SATA 1.5/6 Channel

The CERC SATA 1.5/6 Channel supports the following Dell PowerEdge systems: 800, 830, 850, and 1800.

The CERC SATA 1.5/6 Channel supports the following Dell PowerVault system: PV745N.

[Table 8-13](#) and [Table 8-14](#) show the other elements supported by the CERC SATA 1.5/6 Channel.

Table 8-13. Storage Management Service Supported Elements: CERC SATA 1.5/6 Channel

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008 Driver
3.1	6.1	4.1.0.7419	4.1.1.7043	4.1.1.7040

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

Table 8-14. Storage Management Service Supported Elements: CERC SATA 1.5/6 Channel

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2-11 SP3)
3.1	6.1	4.1.0.7419	1.1.5-2392	NA	NA

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

PERC 4e/Di

The PERC 4e/Di supports the following Dell PowerEdge systems: 2800, 2850, 6800, and 6850.

[Table 8-15](#) shows the other elements supported by the PERC 4e/Di.

Table 8-15. Storage Management Service Supported Elements: PERC 4e/Di

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver
3.1	6.1	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA

PERC 4e/Si

The PERC 4e/Si supports the following Dell PowerEdge system: 1850.

[Table 8-16](#) shows the other elements supported by the PERC 4e/Si.

Table 8-16. Storage Management Service Supported Elements: PERC 4e/Si

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	S (C)
3.1	6.1	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	NA	N

PERC 5/E Adapter

The PERC 5/E Adapter supports the following Dell PowerEdge systems: 840, 860, 1850, 1900, 1950, 2850, 2900, 2950, 2970, 6800, 6850, 6950, and R805.

The PERC 5/E Adapter supports the following Dell PowerVault systems: PowerVault 100, PowerVault 500, and PowerVault 600.

[Table 8-17](#) and [Table 8-18](#) show the other elements supported by the PERC 5/E Adapter.


 **NOTE:** The RAID cards support both 32- 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, ia64 versions of any operating system are not supported.

Table 8-17. Storage Management Service Supported Elements: PERC 5/E Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	5.2.2-0076	2.24.0.32 Dell A07 (32-bit) 2.24.0.64 Dell A07 (64-bit)	2.24.0.32 Dell A03 (32-bit) 2.24.0.64 Dell A03 (64-bit)

Table 8-18. Storage Management Service Supported Elements: PERC 5/E Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2 and 11)
3.1	6.1	5.2.2-0076	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Dell A09 (version 10 SP2) Native (version 11)

PERC 5/i Adapter

The PERC 5/i Adapter supports the following Dell PowerEdge systems: 840, 6850, 6950, and 1430SC.

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

[Table 8-19](#) and [Table 8-20](#) show the other elements supported by the PERC 5/i Adapter.

Table 8-19. Storage Management Service Supported Elements: PERC 5/i Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008 Driver
3.1	6.1	5.2.2-0072	2.24.0.32 Dell A07 (32-bit) 2.24.0.64 Dell A07 (64-bit)	2.24.0.32 Dell A03 (32-bit) 2.24.0.64 Dell A03 (64-bit)

Table 8-20. Storage Management Service Supported Elements: PERC 5/i Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2 and 11)
3.1	6.1	5.2.2-0072	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Dell A09 (version 10 SP2) Native (version 11)

PERC 5/i Integrated

The PERC 5/i Integrated supports the following Dell PowerEdge systems: 1900, 1950, 2900, 2950, and 2970.

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

[Table 8-21](#) and [Table 8-22](#) show the other elements supported by the PERC 5/i Integrated.

Table 8-21. Storage Management Service Supported Elements: PERC 5/i Integrated

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	5.2.2-0072	2.24.0.32 Dell A07 (32-bit) 2.24.0.64 Dell A07 (64-bit)	2.24.0.32 Dell A03 (32-bit) 2.24.0.64 Dell A03 (64-bit)

Table 8-22. Storage Management Service Supported Elements: PERC 5/i Integrated

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (versions 10 SP2 and 11)
3.1	6.1	5.2.2-0072	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Dell A09 (version 10 SP2) Native (version 11)

CERC 6/i Integrated

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

[Table 8-25](#) and [Table 8-26](#) show the other elements supported by the CERC 6/i Integrated.

Table 8-23. Storage Management Service Supported Elements: CERC 6/i Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	6.2.0-0013	2.24.0.32 Dell A07 (32-bit) 2.24.0.64 Dell A07 (64-bit)	2.24.0.32 Dell A03 (32-bit) 2.24.0.64 Dell A03 (64-bit)

Table 8-24. Storage Management Service Supported Elements: CERC 6/i Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux E (versions 10)
3.1	6.1	6.2.0-0013	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Native (version 10)

SAS 5/iR Adapter

The SAS 5/iR Adapter supports the following Dell PowerEdge systems: 440SC, 1435SC, 1430SC, 840, 860, 1900, 2900, 6950, T605, and T610.

The SAS 5/iR Adapter supports the following Dell PowerVault systems: PowerVault 600, and PowerVault 100.

[Table 8-25](#) and [Table 8-26](#) show the other elements supported by the SAS 5/iR Adapter.

Table 8-25. Storage Management Service Supported Elements: SAS 5/iR Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01

Table 8-26. Storage Management Service Supported Elements: SAS 5/iR Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux E (versions 10)
3.1	6.1	00.10.51.00.06.12.05.00	3.12.29.00-6 Dell A07	4.00.38.02-3 Dell A03	4.00.38.02-3 Native (version 10)

SAS 5/iR Integrated

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

[Table 8-27](#) and [Table 8-28](#) show the other elements supported by the SAS 5/iR Integrated.

Table 8-27. Storage Management Service Supported Elements: SAS 5/iR Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01

Table 8-28. Storage Management Service Supported Elements: SAS 5/iR Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.2 server Driver	SUSE Linux Enterprise (versions 10 SP
3.1	6.1	00.10.51.00.06.12.05.00	3.12.29.00-6 Dell A07	4.00.38.02-3 Dell A03	4.00.38.02-3 Dell Native (version 1

SAS 5/i Integrated

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

[Table 8-29](#) and [Table 8-30](#) show the other elements supported by the SAS 5/i Integrated controller.

Table 8-29. Storage Management Service Supported Elements: SAS 5/i Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01

Table 8-30. Storage Management Service Supported Elements: SAS 5/i Integrated

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise (versions 10 S
3.1	6.1	00.10.51.00.06.12.05.00	3.12.29.00-6 Dell A05	4.00.38.02-3 Dell A05	4.00.38.02-3 Dell (version 11)

SAS 5/E Adapter

The SAS 5/E Adapter supports the following Dell PowerEdge systems: 1800, 1850, 1900, 1950, 2800, 2850, 2900, 2950, 2970, 6800, 6850, 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, PowerVault 500, PowerVault 600, and PowerVault DL2000.

[Table 8-31](#) and [Table 8-32](#) show the other elements supported by the SAS 5/E Adapter.

Table 8-31. Storage Management Service Supported Elements: SAS 5/E Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01

Table 8-32. Storage Management Service Supported Elements: SAS 5/E Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise (versions
3.1	6.1	00.10.51.00.06.12.05.00	3.12.29.00-6 Dell A05	4.00.38.02-3 Dell A05	4.00.38.0. Native (ve

PERC 6/i Integrated and Adapter

The PERC 6/i Integrated supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, R805, R900, T610, R610, R710, M610, and M710.

The PERC 6/i Integrated supports the following Dell PowerVault systems: PowerVault 500, PowerVault NX1950, and PowerVault 600.

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

[Table 8-33](#) and [Table 8-34](#) show the other elements supported by the PERC 6/i Integrated and Adapter.

Table 8-33. Storage Management Service Supported Elements: PERC 6/i Integrated and Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	6.2.0-0013	2.24.0.32 (32-bit) Dell A07 2.24.0.64 (64-bit) Dell A07	2.24.0.32 (32-bit) Dell A03 2.24.0.64 (64-bit) Dell A03

Table 8-34. Storage Management Service Supported Elements: PERC 6/i Integrated and Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (version 10 SP2 and 11)
3.1	6.1	6.2.0-0013	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Dell A09 (version 10 SP2) Native (version 11)

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, R610, and R710.

The PERC 6/E Adapter supports the following Dell PowerVault systems: PowerVault 500, PowerVault 600, and PowerVault DL2000.

[Table 8-35](#) and [Table 8-36](#) show the other elements supported by the PERC 6/E Adapter.

Table 8-35. Storage Management Service Supported Elements: PERC 6/E Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	6.2.0-0013	2.24.0.32 (32-bit) Dell A07 2.24.0.64 (64-bit) Dell A07	2.24.0.32 (32-bit) Dell A03 2.24.0.64 (64-bit) Dell A03

Table 8-36. Storage Management Service Supported Elements: PERC 6/E Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Server (version 10 SP2 and 11)
3.1	6.1	6.2.0-0013	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 Dell A09 (v Native (version 11)

SAS 6/iR Integrated and Adapter

The SAS 6/iR Integrated supports the following Dell PowerVault systems: PowerVault 500, PowerVault 600, and PowerVault DL2000.

The SAS 6/iR Integrated also supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, R805, R900, M600, M605, M805, M905, T610, R610, R710, M610, and M710.

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

[Table 8-37](#) shows the other elements supported by the SAS 6/iR Integrated and Adapter.

Table 8-37. Storage Management Service Supported Elements: SAS 6/iR Integrated and Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/ BIOS Version	Windows Server 2003 Driver	Windows Server 2008
3.1	6.1	00.25.47.00.06.22.03.00	1.28.03.01	1.28.03.01

Table 8-38. Storage Management Service Supported Elements: SAS 6/iR Integrated and Adapter

Storage Management Service	Dell OpenManage Version	SAS Firmware/ BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enter (versions 10 SP2
3.1	6.1	00.25.47.00.06.22.03.00	3.12.29.00-6 Dell A07	4.00.38.02-3 Dell A03	4.00.38.02-3 Dell , Native (version 1

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 systems: PowerVault NX1950 and PowerVault 500.

[Table 8-39](#) and [Table 8-40](#) show the other elements supported by LSI Logic 1020/1030 Ultra320 SCSI adapter.

Table 8-39. Storage Management Service Supported Elements: LSI Logic 1020/1030 Ultra320 SCSI Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware/ BIOS Version	Windows Server 2003 Driver
3.1	6.1	1.03.27.00.5.10.08.00.12	1.21.25.00

Table 8-40. Storage Management Service Supported Elements: LSI Logic 1020/1030 Ultra320 SCSI Adapter

Storage Management Service	Dell OpenManage Version	PERC Firmware/BIOS Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux (versions 1
3.1	6.1	1.03.27.00.5.10.08.00.12	3.02.83.12-5	NA	NA

CERC SATA 1.5/2S

The CERC SATA 1.5/2s supports the following Dell PowerEdge systems: 800, 1425, 1420SC, 420SC, and 1800.

[Table 8-41](#) show the other elements supported by the CERC SATA 1.5/2S.

Table 8-41. Storage Management Service Supported Elements: CERC SATA 1.5/2S

Storage Management Service*	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	Red Hat Enterprise Linux 5.3 server Driver
3.1	6.1	NA	6.0.50.5 (32-bit) 6.0.3643.4 (64-bit)	NA	NA	NA

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

LSI 1020/1030 Embedded SCSI Controller

This embedded SCSI controller is an onboard chip. It supports the following systems: 1600SC, 1750, 1800, 1850, 2600, 2800, 2850, 6800, and 6850.

[Table 8-42](#) and [Table 8-43](#) show the other elements supported by the LSI 1020/1030.

Table 8-42. Storage Management Service Supported Elements: LSI 1020

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enter (version 10 SP
3.1	6.1	1.03.23	1.09.11	Native	NA	NA

Table 8-43. Storage Management Service Supported Elements: LSI 1030

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux (version 10

3.1	6.1	1.03.23	1.09.11	NA	NA	NA
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LSI Logic 2032 Card

The LSI Logic 2032 card supports the following Dell PowerEdge systems: R610, R710, and T610.

The LSI Logic 2032 card supports the following Dell PowerVault systems: PowerVault DL2000.

[Table 8-44](#) and [Table 8-45](#) show the other elements supported by the LSI Logic 2032 Card.

Table 8-44. Storage Management Service Supported Elements: LSI Logic 2032 Card

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver
3.1	6.1	1.03.27.00.5.10.08.00.12	1.21.25.00

Table 8-45. Storage Management Service Supported Elements: LSI LSI Logic 2032 Card

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.7 Driver	Red Hat Enterprise Linux 5.3 server Driver	SUSE Linux Enterprise Serve (version 10 SP2 and 11)
3.1	6.1	1.03.27.00.5.10.08.00.12	3.02.83.12-5	NA	NA

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Supported Dell Remote Access Controllers and Solutions

Dell™ Systems Software Support Matrix Version 6.1

Dell™ Remote Access Controller (DRAC) is a systems management hardware and software solution designed to provide remote management capabilities, crashed system recovery, and power control functions.

By communicating with the system's Baseboard Management Controller (BMC), the DRAC (when installed) can be configured to send e-mail alerts for warnings or errors related to voltages, temperatures, intrusion, and fan speeds. 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 on the Dell Support website at support.dell.com.

Supported Remote Access Controller versions and firmware, as well as supported BMC IPMI protocol versions, are listed in [Table 5-1](#). [Table 5-1](#) lists the following DRAC types:


- 1 Integrated Dell Remote Access Controller (iDRAC)
- 1 Dell Remote Access Controller 5 (DRAC 5)
- 1 Dell Remote Access Controller/Modular Computer (DRAC/MC)
- 1 Dell Remote Access Controller 4 (DRAC 4)

Table 5-1. Supported Remote Access Controllers and Solutions

Dell System	Dell Remote Access Controllers (DRACs)		Baseboard Management Controller (BMC)		
	DRAC Type	Supported DRAC Firmware Version	Integrated BMC	BMC Firmware Version	Supported IPMI Protocol Versions
T710	iDRAC6	1.10		1.29 or later	2.0
M710	iDRAC6	2.0	X (CMC)	1.29 or later	2.0
M610	iDRAC6	2.0	X (CMC)	1.29 or later	2.0
T410	iDRAC6	1.10		1.29 or later	2.0
R410	iDRAC6	1.13		1.29 or later	2.0
T610	iDRAC6	1.10			2.0
R710	iDRAC6	1.10			2.0
R610	iDRAC6	1.10			2.0
M905	IMC	1.2	X (CMC)	1.29 or later	2.0
M805	IMC	1.2	X (CMC)	1.29 or later	2.0
R200	DRAC 4	1.75	X	1.29 or later	2.0
R300	DRAC 5	1.48	X	2.34	2.0
T300	DRAC 5	1.48	X	2.34	2.0
R905	DRAC 5	1.48	X	2.31	2.0
M605	IMC	1.2	X	1.29 or later	2.0
M600	IMC	1.2	X (CMC)	1.29 or later	2.0
R900	DRAC 5	1.48	X	2.32	2.0
R805	DRAC 5	1.48	X	2.38	2.0
T605	DRAC 5	1.48	X	2.30	2.0
T105			X	1.29 or later	2.0
T100	DRAC 5	1.48	X	1.29 or later	2.0
6950*	DRAC 5	1.48	X	2.29	2.0
2970*	DRAC 5	1.48	X	2.29	2.0
2950*	DRAC 5	1.48	X	2.28	2.0
2900*	DRAC 5	1.48	X	2.28	2.0
1955	DRAC/MC	1.5	X	2.03	2.0
1950*	DRAC 5	1.48	X	2.28	2.0
1900*	DRAC 5	1.48	X	2.29	1.5
6850	DRAC 4	1.75	X	1.40 or later	1.5
6800	DRAC 4	1.75	X	1.40 or later	1.5
2850	DRAC 4	1.75	X	1.23 or later	1.5
2800	DRAC 4	1.75	X	1.23 or later	1.5
1855	DRAC/MC	1.5	X	1.01 or later	1.5
1850	DRAC 4	1.75	X	1.23 or later	1.5

1800	DRAC 4	1.75	X	1.23 or later	1.5
860	DRAC 4	1.75	X	1.67 or later	1.5
850	DRAC 4	1.75	X	1.44 or later	1.5
840	DRAC 4	1.75	X	1.67 or later	1.5
830	DRAC 4	1.75	X	1.44 or later	1.5
800	DRAC 4	1.75	X	1.30 or later	1.5
SC1435			X	2.29	2.0
SC1430					
SC1425			X	1.30 or later	1.5
SC440					
SC430					
SC420					
PowerVault 100	DRAC 5	1.48	X	1.29 or later	2.0
PowerVault 500	DRAC 5	1.48	X	1.29 or later	2.0
PowerVault 600	DRAC 5	1.48	X	1.29 or later	2.0
PowerVault DL2000	DRAC 5	1.48	X	1.29 or later	2.0
PowerVault NX1950	DRAC 5	1.48	X	1.29 or later	2.0
PowerVault NX3000	iDRAC6	1.10	X	1.29 or later	2.0

* DRAC 5 support on SUSE Linux Enterprise Server 10 is limited to the managed system and Command Line Interface (CLI) only. DRAC 5 does not support the out-of-band GUI on the management station.

 **NOTE:** iDRAC 1.4/2.0 is not supported on SUSE® Linux Enterprise Server 11, Red Hat® Enterprise Linux® 4.7, VMware® ESX version 4, and Citrix™ XenServer™ 5.5 operating systems.

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Supported Unified Server Configurator Versions

Dell™ Systems Software Support Matrix Version 6.1

The Unified Server Configurator is built upon the integrated Dell Remote Access Controller 6 (iDRAC6) Express card and the Unified Extensible Firmware Infrastructure (UEFI) system firmware. The iDRAC6 works with the UEFI firmware to access and manage every aspect of the hardware, including component and subsystem management that is beyond the traditional Baseboard Management Controller (BMC) capabilities.

[Table 9-1](#) lists the Dell systems and the operating systems that can be installed using the Unified Server Configurator that is flashed with the driver packs.

Table 9-1. Supported Dell Systems and Operating Systems for Unified Server Configurator

Supported Operating System	Dell Systems							
	T410	T610	T710	R410	R610	R710	M610	M710
Microsoft® Windows Server® 2003 x64 and x86 R2-SP2	X	X	X	X	X	X	X	X
Microsoft Windows Server 2008 SP2	X	X	X	X	X	X	X	X
Microsoft Windows Server 2008 x64	X	X	X	X	X	X	X	X
Microsoft Windows Server 2008 x64 R2	X	X	X	X	X	X	X	X
Microsoft Windows® Small Business Server 2008 Standard and Premium SP2	X	X	X	X	X	X	X	X
Microsoft Windows Server 2008 Foundation	X	X	X	X	X	X	X	X
Microsoft Windows Essential Business Server 2008	X	X	X	X	X	X	X	X
Microsoft Windows Small Business Server 2003 Standard and Premium R2 SP1 and SP2	X	X	X	X	X	X	X	X
Red Hat® Enterprise Linux® WS, ES, and AS version 4.7 (x86_32)	X	X	X	X	X	X	X	X
Red Hat Enterprise Linux WS, ES, and AS version 4.7 (x86_32)	X	X	X	X	X	X	X	X
Red Hat Enterprise Linux WS, ES, and AS version 5.3 (x86_32)	X	X	X	X	X	X	X	X
Red Hat Enterprise Linux WS, ES, and AS version 5.3 (x86_64)	X	X	X	X	X	X	X	X
SUSE® Linux Enterprise Server 10 with SP2(x86_64)	X	X	X	X	X	X	X	X
SUSE Linux Enterprise Server 11 (x86_64)	X	X	X	X	X	X	X	X
VMware® ESX version 3.5 update 4	X	X	X	X	X	X	X	X
VMware ESX version 4.0	X	X	X	X	X	X	X	X
VMware ESXi version 3.5 update 4	X	X	X	X	X	X	X	X
VMware ESXi version 4.0	X	X	X	X	X	X	X	X
Microsoft Hyper-V and Hyper-V Server	X	X	X	X				
Microsoft Hyper-V R2 and Hyper-V Server R2	X	X	X	X				
Citrix™ XenServer™ 5.5				X				