Dell Systems Software Support Matrix Version 6.3

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 6.3

Table 6-1. Supported Browsers Dell for OpenManage in Dell systems.

Operating System	Windows Server 2003	Windows Server 2003 x86_64	Windows XP	Windows 7.0 Professional	Windows Server 2008	Windows Server 2008 x86_64	Windows Server 2008 R2 x86_64	Windows Vista	SUSE Linux Enterprise Server 10	SUSE Linux Enterprise Server 11 x86_64	Red Hat Enterprise Linux 4.8	Red Ent Lin ser x8
Service Pack	SP2	SP2	SP3		SP2	SP2		SP2	SP3	SP1		
Browser	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0 **Firefox 3.5**	Internet Explorer 8.0 Internet Explorer 8.0 x64 Internet Explorer 7.0 Firefox 3.0 **Firefox 3.5**	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0	Internet Explorer 8.0 Firefox 3.0 **Firefox 3.5**	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0 Firefox 3.5	Internet Explorer 8.0 Internet Explorer 8.0 x64 Internet Explorer 7.0 Firefox 3.0 Firefox 3.5	Internet Explorer 8.0 Firefox 3.0 **Firefox 3.5**	Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0 **Firefox 3.5**	Native	Native	Native	Nat

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

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

Supported Dell OpenManage Change Management Software

Dell Systems Software Support Matrix Version 6.3

- ● Supported Change Management Software on Microsoft Windows Operating Systems
- ● Supported Change Management Software on Linux Operating Systems
- ● Supported Change Management Software on Virtualization Operating Systems

Dell OpenManage change management software is a set of tools 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:

ı   Dell Update Packages

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

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

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

ı   Server Update Utility

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

SUU compares the versions of components currently installed on your system with update components packaged 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 on the Dell Support website at **support.dell.com/manuals**.

> **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.

Supported Change Management Software on Microsoft Windows Operating Systems

Table 3-1 lists the supported Dell OpenManage 6.3 change management software on systems running supported Microsoft Windows operating system.

ı   A D in the intersection of the operating system and the Dell system columns indicates support for Dell Update Packages.

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

Dell System	Edition	Windows Small Business Server 2003 R2		Windows Small Business Server 2008		Windows Small Business Server 2008	Windows Small Business Server 2008 R2	Windows Essential Business Server 2008	Windows Essential Business Server 2008		Windows Server 2003 R2 x86			Windo
		Standard	Premium	Standard	Premium				Standard	Premium	Web	Standard	Enterprise	Standar
	Service Pack	SP2	SP2			SP2		SP1			SP2	R2-SP2	R2-SP2	R2-SP2
R200				D, S	D, S	D	D	D	D, S	D, S	D, S	D, S	D, S	D, S
R210				D	D	D	D	D	D	D	D	D	D	D
R300				D, S	D, S	D	D	D	D, S	D, S	D, S	D, S	D, S	D, S
R310						D	D	D	D	D	D	D	D	D
R410		D, S	D, S	D, S	D, S	D	D	D	D, S	D, S	D, S	D, S	D, S	D, S
R510				D	D	D	D	D	D	D	D	D	D	D
R610				D, S	D, S	D	D	D	D	D	D, S	D, S	D, S	D, S
R710				D, S	D, S	D	D	D	D	D	D, S	D, S	D, S	D, S
R715								D	D	D	D	D	D	D
R805				D, S	D, S	D	D	D	D, S	D, S	D, S	D, S	D, S	D, S
R805v		D	D	D	D	D	D	D	D	D	D	D	D	D
R810						D	D	D	D	D	D	D	D	D
R815						D	D	D	D	D	D	D	D	D

R900						D	D, S	D, S	D, S	D, S	D, S	D, S
R905						D	D, S	D, S	D, S	D, S	D, S	D, S
R905v						D	D	D	D	D	D	D
R910						D	D	D	D	D	D	D
M600						D	D	D	D, S	D, S	D, S	D, S
M605						D	D	D	D, S	D, S	D, S	D, S
M610						D	D, S	D, S	D, S	D, S	D, S	D, S
M710						D	D, S	D, S	D, S	D, S	D, S	D, S
M710HD						D	D	D	D	D	D	D
M805						D	D	D	D, S	D, S	D, S	D, S
M905						D	D	D	D, S	D, S	D, S	D, S
M910						D	D	D	D	D	D	D
T100	*	*	*	*		D	*	*	*	*	*	*
T105	*	*	*	*		D	*	*	*	*	*	*
T110					*	*	*	D	D	D	D	D
T300		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T310					D	D	D	D	D	D	D	D
T410		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
T610		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T710		D	D	D	D	D	D	D	D	D	D	D
6950					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
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
2900			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	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
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
6850						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			D, S	D, S	D, S	D, S
1855						D			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
850			D, S	D, S		D			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
SC420	D, S	D, S			*	*	*		D, S	D, S	D, S	D, S
PowerVault 100												
PowerVault 500					*	*	*					
PowerVault 600												
PowerVault DL2000												
PowerVault DL2100												
PowerVault DL2200												
PowerVault DX6000												
PowerVault NX300												

PowerVault NX1950												
PowerVault NX3000												
PowerVault NX3100												

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

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

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

Supported Change Management Software on Linux Operating Systems

Table 3-2 lists the supported Dell OpenManage 6.3 change management software on systems running supported Linux operating system.

- ι A D in the intersection of the operating system and the Dell system columns indicates support for Dell Update Packages.
- ι 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 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)			Red Hat Enterprise Linux 5.5 (x86_3
	Edition			WS	ES	AS	WS	ES	AS	
	Service Pack	SP3	SP1							
R200		D, S	D, S		D, S	D, S		D, S	D, S	D, S
R210		D	D	D	D	D	D	D	D	D
R300		D, S	D, S		D, S	D, S		D, S	D, S	D, S
R310		D	D	D	D	D	D	D	D	D
R410		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
R510		D	D	D	D	D	D	D	D	D
R610		D, S	D, S	D, S	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	D, S	D, S	D, S
R715		D	D							D
R805		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
R810		D	D							D
R815		D	D							D
R900		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
R910		D	D							D
M600		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	D, S	D, S
M610		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
M710		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
M805		D, S	D, S		D, S	D, S	D, S	D, S	D, S	D, S
M905		D, S	D, S		D, S	D, S	D, S	D, S	D, S	D, S
M910		D, S	D, S							D, S
T100		*	D*	*	*	*	*	*	*	*
T105		*	D*	*	*	*	*	*	*	*
T110		D	D	D	D	D	D	D	D	D
T300		D, S	D, S		D, S	D, S		D, S	D, S	D, S
T310		D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T410		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

Dell System									
T610	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S	D, S
T710	D	D	D	D	D	D	D	D	D
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
2950	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
1955	D, S	D, S	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
1900	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	D, S	D, S
6800	D, S	D, S	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
2800			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
1800			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
850				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
830				D, S	D, S		D, S	D, S	D, S
800				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
SC1430	D, S	D, S		D, S			D, S		D, S
SC1425			D, S	D, S		D, S	D, S	D, S	D, S
SC1420				D, S			D, S	D, S	D, S
SC440	D, S	D, S		D, S			D, S		D, S
SC430				D, S			D, S		D, S
SC420				D, S					D, S
PowerVault 100									
PowerVault 500									
PowerVault 600									
PowerVault DL2000									
PowerVault DL2200									
PowerVault DX6000	D	D	D	D	D	D	D	D	D
PowerVault NX1950								D	D
PowerVault NX3000									
PowerVault NX3100									

Supported Change Management Software on Virtualization Operating Systems

lists the supported Dell OpenManage 6.3 change management software on systems running supported Virtualization operating system.

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

NOTE: On ESXi 4.0 U1, only DeOMSA DUP is supported.

NOTE: DUPs is not supported on ESXi 4.1

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

Dell System		VMware		Microsoft		Citrix	
	Edition	ESX	ESX				

		4.0 U1	4.1	Hyper-V	Hyper-V R2	XenServer 5.6 (HDD)
R200		D, S	D, S	D, S	D, S	
R210		D, S	D, S	D	D	
R300		D, S	D, S	D, S	D, S	S
R310		D	D	D, S	D, S	
R410		D, S	D, S	D, S	D, S	S
R510		D	D	D	D	
R610		D, S	D, S	D, S	D, S	S
R710		D, S	D, S	D, S	D, S	S
R715		D	D	D	D	
R805		D, S	D, S	D, S	D, S	S
R805v		D	D	D	D	
R810		D	D	D	D	
R815		D	D	D	D	
R900		D, S	D, S	D, S	D, S	S
R905		D, S	D, S	D, S	D, S	S
R905v		D	D	D	D	
R910		D	D	D	D	
M600		D, S	D, S	D, S	D, S	S
M605		D, S	D, S	D, S	D, S	S
M610		D, S	D, S	D, S	D, S	S
M710		D, S	D, S	D, S	D, S	S
M805		D, S	D, S	D, S	D, S	S
M905		D, S	D, S	D, S	D, S	S
M910		D	D	D	D	
T100		D, S	D, S	D, S	D, S	S
T105		*	*	*	*	*
T110		D, S	D, S	D	D	
T300		D, S	D, S	D, S	D, S	S
T310		D	D	D	D	
T410		D, S	D, S	D, S	D, S	S
T605		D, S	D, S	D, S	D, S	S
T610		D, S	D, S	D, S	D, S	S
T710		D, S	D, S	D, S	D, S	S
6950		D, S	D, S	D, S	D, S	S
2970		D, S	D, S	D, S	D, S	S
2950		D, S	D, S	D, S	D, S	S
2900		D, S	D, S	D, S	D, S	S
1955		D, S	D, S	D, S	D, S	S
1950		D, S	D, S	D, S	D, S	S
1900				D, S	D, S	S
6850						
6800						
2850						
2800						
1855						
1850						
1800						
860				D, S	D, S	S
850						
840				D, S	D, S	S
830						
800						
SC1435				D, S	D, S	S
SC1430				D, S	D, S	
SC1425						

SC1420						
SC440				D, S	D, S	S
SC430						
SC420						
PowerVault 100						
PowerVault 500						
PowerVault 600						
PowerVault DL2000						
PowerVault DL2100						
PowerVault DX6000						
PowerVault NX1950						
PowerVault NX3000						

Supported Dell OpenManage Systems Management Software

Dell Systems Software Support Matrix Version 6.3

- ● 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:

ɪ   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:

   ɪ   Server Administrator Web Server

   ɪ   Server Instrumentation

   ɪ   Remote Enablement

   ɪ   Remote Access Controller

   ɪ   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/manuals.**

ɪ   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/manuals.**

Documentation Conventions for Dell Systems

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	R210
1800	2970	R900	R410
1850	6950	T605	R510
1855	PowerVault 100	R905	R610
2800	PowerVault 500	T300	R710
2850	PowerVault 600	R300	T110
6800	PowerVault DL2000	M805	T310
6850	PowerVault NX1950	M905	T610
		T100	T710
			PowerVault NX300
			PowerVault NX3000
			M910
			R310
			R715
			R815
			R910
			DX6000
			DL2200

			NX3100
			M710HD

Supported Dell OpenManage Systems Management Software on Microsoft Windows Operating Systems

lists the supported Dell OpenManage 6.3 installation and systems management software on systems running supported Microsoft Windows operating systems.

- ı 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.

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

Table 2-2. Supported Dell OpenManage 6.3 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System		Windows Small Business Server 2003 R2		Windows Small Business Server 2008	Windows Small Business Server 2008 R2	Windows Essential Business Server 2008	Windows Server 2003 R2 x86_32			Windows Server 2003 R2 x86_64			Windows Ser x86_	
	Edition	Standard	Premium				Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web	Standard and Core
	Service Pack	SP2	SP2	SP2		SP1	SP2	R2-SP2	R2-SP2	R2-SP2	R2-SP2	R2-SP2	SP2	SP2
R200				X	X	X	X	X	X	X	X	X	X	X
R210				X	X	X	X	X	X	X	X	X	X	X
R300				X	X	X	X	X	X	X	X	X	X	X
R310				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
R510				X	X	X	X	X	X	X	X	X	X	X
R610				X	X	X	X	X	X	X	X	X	X	X
R710				X	X	X	X	X	X	X	X	X	X	X
R715							X		X	X	X	X	X	X	X
R805							X	X	X	X	X	X	X	X	X
R805v				X	X	X		X	X	X	X	X		X
R810							X	X	X	X	X	X	X	X	X
R815							X		X	X	X	X		X
R900							X	X	X	X	X	X	X	X	X
R905							X	X	X	X	X	X	X	X	X
R905v							X		X	X	X	X		X
R910							X	X	X	X	X	X	X	X	X
M600							X	X	X	X	X	X	X	X	X
M605							X	X	X	X	X	X	X	X	X
M610							X	X	X	X	X	X	X	X	X
M710							X	X	X	X	X	X	X	X	X
M710HD							X	X	X	X	X	X	X	X	X
M805							X	X	X	X	X	X	X	X	X
M905							X	X	X	X	X	X	X	X	X
M910							X		X	X	X	X	X	X	X
T100		*	*	*	*	*	*	*	*	*	*	*	*	*
T105		*	*	*	*	*	*	*	*	*	*	*	*	*
T110				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
T310				X	X	X	X	X	X	X	X	X	X	X
T410		X	X	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
T610				X	X	X	X	X	X	X	X	X	X	X
T710				X	X	X	X	X	X	X	X	X	X	X

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
1955						X	X	X	X	X	X	X	X	X
1955MC						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	X	X
6800						X	X	X	X	X	X	X	X	X
2850				X	X	X	X	X	X	X	X	X	X	X
2800		X	X	X	X	X	X	X	X	X	X	X	X	X
1855						X	X	X	X	X	X	X	X	X
1855MC						X	X	X	X	X	X	X	X	X
1850				X	X	X	X	X	X	X	X	X	X	X
1800		X	X	X	X	X	X	X	X	X	X	X	X	X
860		X	X	X	X	X	X	X	X	X	X	X	X	X
850				X	X	X	X	X	X	X	X	X	X	X
840		X	X	X	X	X	X	X	X	X	X	X	X	X
830		X	X	X	X	X	X	X	X	X	X	X	X	X
800		X	X	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 DL2100														
PowerVault DX6000														
PowerVault NX300														
PowerVault NX1950														
PowerVault NX3000														
PowerVault NX3100														

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

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

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

Supported Dell OpenManage Systems Management Software on Linux Operating Systems

Table 2-3 lists the supported Dell OpenManage 6.3 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.

- An (A) in the intersection of the operating system and the Dell system columns indicates support for Dell OpenManage software, but not for the Dell systems.

Table 2-3. Supported Dell OpenManage Systems 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 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)		
	Edition			WS	ES	AS	WS	ES	AS
	Service Pack	SP3	SP1						
R200		X	X		X	X		X	X
R210		X	X	X	X	X	X	X	X
R300		X	X		X	X		X	X
R310		X	X	X	X	X	X	X	X
R410		X	X	X	X	X	X	X	X
R510		X	X	X	X	X	X	X	X
R610		X	X	X	X	X	X	X	X
R710		X	X	X	X	X	X	X	X
R715		X	X						
R805		X	X	X	X	X	X	X	X
R810		X	X						
R815		X	X						
R900		X	X	X	X	X	X	X	X
R905		X	X	X	X	X	X	X	X
R910		X	X						
M600		X	X	X	X	X	X	X	X
M605		X	X	X	X	X	X	X	X
M610		X	X	X	X	X	X	X	X
M710		X	X	X	X	X	X	X	X
M710HD		X	X						
M805		X	X	X	X	X	X	X	X
M905		X	X	X	X	X	X	X	X
M910		X	X						
T100		*	*	*	*	*	*	*	*
T105		*	*	*	*	*	*	*	*
T110		X	X	X	X	X	X	X	X
T300		X	X		X	X		X	X
T310		X	X	X	X	X	X	X	X
T410		X	X	X	X	X	X	X	X
T605		X	X	X	X	X	X	X	X
T610		X	X	X	X	X	X	X	X
T710		X	X	X	X	X	X	X	X
6950		X	X	X	X	X	X	X	X
2970		X	X	X	X	X	X	X	X
2950		X	X	X	X	X	X	X	X
2900		X	X	X	X	X	X	X	X
1955		X	X	X	X	X	X	X	X
1950		X	X	X	X	X	X	X	X
1900		X	X	X	X	X	X	X	X
6850		X	X	X	X	X	X	X	X
6800		X	X	X	X	X	X	X	X
2850				X	X	X	X	X	X
2800				X	X	X	X	X	X
1855				X	X	X	X	X	X
1850				X	X	X	X	X	X
1800				X	X	X	X	X	X
860		X	X	X	X	X	X	X	X
850				X	X	X	X	X	X
840		X	X	X	X	X	X	X	X
830				X	X	X	X	X	X

Dell System							
800			X	X	X	X	X	X
SC1435	*	*	*	*		*	*	
SC1430	*	*		*			*	
SC1425			*	*		*	*	*
SC1420				*			*	*
SC440	*	*		*			*	
SC430				*			*	
SC420				*				
PowerVault 100								
PowerVault 500								
PowerVault 600								
PowerVault DL2000								
PowerVault DL2100								
PowerVault DX6000	X	X	X	X	X	X	X	X
PowerVault NX300						X	X	X
PowerVault NX1950								
PowerVault NX3000								
PowerVault NX3100								

Supported Dell OpenManage Systems Management Software on Virtualization Operating Systems

lists the supported Dell OpenManage 6.3 installation and systems management software on systems running supported virtualization operating system.

l   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.

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

Dell System		VMware						Microsoft		Citrix
	Edition	ESX		ESXi		ESXi				
		4.0 U1	4.1	4.0 U1		4.1		Hyper-V	Hyper-V R2	XenServer 5.6 (HDD)
	Service Pack			HDD	Flash	HDD	Flash			
R200		X	X	X		X		X	X	
R210		X	X	X		X		X	X	
R300		X	X	X		X		X	X	
R310		X	X	X		X				
R410		X	X	X		X		X	X	
R510		X	X	X	X	X	X	X	X	X
R610		X	X	X	X	X	X	X	X	X
R710		X	X	X	X	X	X	X	X	X
R715		X	X	X	X	X	X	X	X	X
R805		X	X	X	X	X	X	X	X	X
R810		X	X	X	X	X	X	X	X	X
R815		X	X	X	X	X	X	X	X	X
R900		X	X	X	X	X	X	X	X	X
R905		X	X	X	X	X	X	X	X	
R905v		X	X	X	X	X	X	X	X	X
R910		X	X	X	X	X	X	X	X	X
M600		X	X	X		X		X	X	X

M605		X	X	X		X		X	X	X
M610		X	X	X	X	X	X	X	X	X
M710		X	X	X	X	X	X	X	X	X
M710HD		X	X	X	X	X	X	X	X	X
M805		X	X	X	X	X	X	X	X	X
M905		X	X	X	X	X	X	X	X	X
M910		X	X	X	X	X	X	X	X	X
T100		X	X					X	X	
T105		*	*					*	*	
T110		X	X	X		X		X	X	
T300		X	X	X		X		X	X	
T310		X	X	X		X		X	X	
T410		X	X	X		X		X	X	
T605		X	X	X	X	X	X	X	X	
T610		X	X	X	X	X	X	X	X	X
T710		X	X	X	X	X	X	X	X	X
6950		X	X					X	X	
2970		X	X					X	X	
2950		X	X	X	X	X	X	X	X	X
2900		X	X	X	X	X	X	X	X	X
1955		X	X					X	X	
1950		X	X	X	X	X	X	X	X	X
1900								X	X	
6850								X	X	
6800								X	X	
2850										
2800										
1855										
1850										
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										
PowerVault DL2100										
PowerVault DX6000										
PowerVault NX300										
PowerVault NX1950										
PowerVault NX3000										
PowerVault NX3100										

Introduction

Dell Systems Software Support Matrix Version 6.3

- What's New for this Release
- Where Can I Find The Server Administrator Application?
- Structure of This Guide
- Supported Operating Systems
- Supported GUI Languages

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:

- Support for the following Microsoft Operating Systems: Windows Small Business Server 2008 R2, Windows Essential Business Server 2008 SP1, Windows Small Business Server 2008 SP2, Windows 7.0 Professional (32-bit x86) and (x64)

- Support for following Dell Systems: M910, R310, R715, R815, R910

- Support for following PowerVault Systems: NX300, NX3000, DX6000, DL2200, NX3100

- Support for the following Linux Operating Systems: **Red Hat Enterprise Linux 5.5, SUSE Linux Enterprise Server 11 (x86_64) SP1, SUSE Linux Enterprise Server 10 (x86_64) SP3**

- Support for the following Virtualization Operating Systems: Citrix XenServer 5.6 (HDD), Hyper V, Hyper V-R2, ESXi 4.1

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	*Dell Systems Management Tools and Documentation* DVD
5.3–5.3.2	*Dell Systems Console and Agent* CD or the *Dell Systems Management Tools and Documentation* DVD
4.3–5.2.3	*Dell PowerEdge Installation and Server Management* CD
3.0–4.2	*Systems Management* CD
2.2 and earlier	*Applications* CD

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:

- Dell OpenManage Server Administrator

- 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:

- Dell Update Packages

- Server Update Utility

Supported Dell OpenManage Systems Management Consoles

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

- Dell OpenManage IT Assistant

- Dell Management Console

- DRAC tools that include RACADM and VMCLI

- BMC Management Utility (BMU) and IPMItool out-of-band

- 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

- Windows 7 Professional (32-bit x86) and (x64)

- Microsoft Windows Server 2008 Web, Core Standard, and Core Enterprise (32-bit x86) editions with SP2

- Microsoft Windows Server 2008 Core Standard, Core Enterprise, and Core Datacenter (x64) editions with SP2

- Microsoft Windows Server 2008 R2 Standard and Core, Enterprise and Core, Datacenter and Core (x64) editions

- Microsoft Windows Server 2008 Foundation

- Microsoft Windows Server 2003 Web, Standard and Enterprise (32-bit x86) editions with SP2

- Microsoft Windows Server 2003 Standard, Enterprise, and Datacenter (x64) editions with SP2

- Microsoft Windows Server 2003 R2 Standard and Enterprise (32-bit x86) editions with SP2

- Microsoft Windows Server 2003 R2 Standard, Enterprise, and Datacenter (x64) editions with SP2

- Microsoft Windows Essential Business Server 2008 Standard and Premium editions SP1

- Microsoft Windows Small Business Server 2008 Standard and Premium editions SP2

- Microsoft Windows Small Business Server 2008 Standard and Premium editions R2

- Microsoft Windows Small Business Server 2003 Standard and Premium editions with SP2

- Microsoft Windows Storage Server 2008 Express, Workgroup, Standard, and Enterprise x64 editions

- Microsoft Windows Storage Server 2003 R2 Express, Workgroup, Standard, and Enterprise x64 editions with SP2

- Microsoft Windows Server 2003 Compute Cluster Edition and Microsoft Windows Server 2008 HPC Edition

- Microsoft Windows Unified Data Storage Server 2003 Standard and Enterprise x64 editions

- Microsoft Windows XP Professional with SP3 (32-bit x86)

- Microsoft Windows Vista Business and Enterprise editions.

Linux Operating Systems

- SUSE Linux Enterprise Server 11 (x86_64) SP1
- SUSE Linux Enterprise Server 10 with SP3 (x86_64)
- Red Hat Enterprise Linux 5 server with Update 5 (x86_32)
- Red Hat Enterprise Linux 5 server with Update 5 (x86_64)
- Red Hat Enterprise Linux WS, ES, and AS version 4.8 (x86_32)
- Red Hat Enterprise Linux WS, ES, and AS version 4.8 (x86_64)

Virtualization Operating Systems

- Microsoft Hyper-V, Hyper-V R2
- VMware ESX version 4.0 update 1, and version 4.1
- VMware ESXi version 4.0 update 1, and version 4.1
- Citrix XenServer 5.6

NOTE: For Dell OpenManage information specific to VMware, see the latest Installation Guide, Release Notes, and the Dell–VMware Compatibility Matrix in **support.dell.com/manuals**

Supported GUI Languages

DDell 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 Languages	English Operating System	French Operating System	German Operating System	Spanish Operating System	Simplified Chinese Operating System	Japanese Operating
English	X	X	X	X	X	
French		X				
German			X			
Spanish				X		
Simplified Chinese					X	
Japanese						

Supported Dell OpenManage Systems Management Consoles

Dell Systems Software Support Matrix Version 6.3

- Support Operating Systems for Server Administrator Web Server
- Supported Systems for Dell OpenManage IT Assistant
- Supported Systems for RACADM
- Supported Systems for BMU and IPMItool Out-of- Band
- Supported Systems for IPMItool In-Band

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

Dell OpenManage systems management consoles tools and applications include:

- Dell OpenManage IT Assistant
- DRAC tools that include remote RACADM and VMCLI
- BMC Management Utility and IPMItool out-of-band
- IPMItool in-band

Support for Server Administrator Web Server

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

Table 4-1. Supported Microsoft Windows Server Operating Systems for Server Administrator on your system

	Windows Server 2003 x86			Windows Server 2003 x64			Windows Server 2008 x86			Windows Server 2008 x64		
Edition	Web	Standard	Enterprise	Web	Standard	Enterprise	Web	Standard	Enterprise	Web	Standard	Enterprise
Service Pack	R2-SP2	R2-SP2	R2-SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2
Server Administrator	X	X	X	X	X	X	X	X	X	X	X	X

Table 4-2. Supported Microsoft Windows Client Operating Systems for Server Administrator Web Server on your system (Laptop or Desktop)

	Windows XP x86	Windows Vista	Windows 7.0 x86
Edition	Professional	Business and Enterprise	Professional
Service Pack	SP3	SP2	
Server Administrator Web Server	X	X	X

Supported Linux Operating Systems for Server Administrator

Table 4-3. Supported Linux Operating Systems for Server Administrator on your system

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)			Red Hat Enterprise Linux 5.5 server (x86_32)	Red Hat Enterprise Linux 5.5 server (x86_64)
Edition			WS	ES	AS	WS	ES	AS		
Service Pack	SP1	SP3								
Server Administrator	X	X	X	X	X	X	X	X	X	X

Supported Virtualization Operating Systems for Server Administrator

Tab le 4-4. Supported Virtualization Operating Systems Server Administrator on your system

	VMware		VMware		Microsoft	Citrix
Edition	ESXi	ESXi	ESX	ESX		
	4.0 Update 1 Flash/HDD	4.1 **Flash/HDD**	4.0 Update 1	4.1	Hyper-V	XenServer 5.6 (HDD)
Physical System Support	X	X	X	X	X	X

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.

Supported Systems for Dell OpenManage IT Assistant

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

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

Supported Microsoft Windows Operating Systems for IT Assistant

Table 4-5. Supported Microsoft Windows Operating Systems for IT Assistant

	Windows Server 2003 R2 x86			Windows Server 2008 x86			Windows XP x86	Windows Vista x86		Windows 7.0 x86
Edition	Web	Standard	Enterprise	Web	Standard	Enterprise	Professional	Business	Enterprise	Professional
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP3	SP2	SP2	
IT Assistant	X	X	X	X	X	X	X	X	X	X

NOTE: IT Assistant cannot be installed on Dell systems running Windows 2008 R2 operating systems

Supported Linux Operating Systems for IT Assistant

IT Assistant cannot be installed on Dell systems running Red Hat Enterprise Linux or SUSE Linux Enterprise Server operating systems. These systems can, however, launch IT Assistant through supported browsers (Firefox version 3.0). For more information on supported browsers, see the Supported Browsers section.

Supported Virtualization Operating Systems

IT Assistant can be installed on guest operating systems installed on the virtualization operating systems listed in Table 4-6.

Table 4-6. Supported Virtualization Operating Systems on Physical System

	VMware		VMware		Microsoft	Citrix
Edition	ESXi	ESXi	ESX	ESX		
	4.0 Update 1 Flash/HDD	4.1 **Flash/HDD**	4.0	4.1	Hyper-V	XenServer 5.6 (HDD)
Physical System Support	X	X	X	X	X	X

Table 4-7. Supported Operating Systems on Virtual System

Operating System on Physical System	Supported Guest Operating System
VMware ESXi For the latest list, see http://www.vmware.com.	l Microsoft Windows Vista x86 Enterprise Edition l Microsoft Windows Server 2008 x86 SP2 Enterprise Edition l Microsoft Windows Server 2003 x86 R2-SP2 Family l Microsoft Windows XP Professional x86 SP3 l Microsoft Windows 7.0 x86 Professional Edition
VMware ESX For the latest list, see http://www.vmware.com.	l Microsoft Windows Vista x86 Enterprise Edition l Microsoft Windows Server 2008 x86 SP2 Enterprise Edition l Microsoft Windows Server 2003 x86 R2-SP2 Family l Microsoft Windows XP Professional x86 SP3 l Microsoft Windows 7.0 x86 Professional Edition
Micorsoft Hyper-V For the latest list, see http://www.microsoft.com.	l Microsoft Windows Vista x86 Enterprise Edition l Microsoft Windows Server 2008 x86 SP2 Enterprise Edition l Microsoft Windows Server 2003 x86 R2-SP2 Family l Microsoft Windows XP Professional x86 SP3 l Microsoft Windows 7.0 x86 Professional Edition

Supported Systems for RACADM

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

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

Table 4-8. Supported Microsoft Windows Operating Systems for RACADM

Edition	Windows Server 2003 R2 x86 or x64			Windows Server 2003 R2 x64			Windows Server 2008 x86			Windows Server 2008 x64		Windows Server 2008 R2		
	Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web	Standard and Core	Enterprise and Core	Standard and Core	Datacenter and Core	Standard and Core	Enterprise and Core	Datac... and
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2			
Remote RACADM	X	X	X	X	X	X	X	X	X	X	X	X	X	

Supported Linux Operating Systems for the RACADM Utility

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

Table 4-9. Supported Linux Operating Systems for RACADM

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)			Red Hat Enterprise Linux 5.5 server (x86_32)	Red Hat Enterprise Linux 5.5 server (x86_64)
Edition			WS	ES	AS	WS	ES	AS		
Service Pack	SP1	SP3								
Remote RACADM	X	X	X	X	X	X	X	X	X	X

Supported Systems for BMU and 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.

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 IPMItool Out-of-Band

An X in the operating system column indicates BMU and IPMItool out-of-band support.

Table 4-10. Supported Microsoft Windows Operating Systems for BMU and IPMItool Out-of-Band

	Windows Server 2003 x86			Windows Server 2003 x64			Windows Server 2008 x86			Windows Server 2008 x64		Windows XP
Edition	Web	Standard	Enterprise	Standard	Enterprise	Datacenter	Web	Standard	Enterprise	Standard	Datacenter	Professional x86
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP2	SP3
BMU/IPMItool out-of-band	X	X	X	X	X	X	X	X	X	X	X	X

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 4-11. Supported Linux Operating Systems for BMU and IPMItool Out-of-Band

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)			Red Hat Enterprise Linux 5.5 server (x86_32)	Red Hat Enterprise Linux 5.5 server (x86_64)
Edition			WS	ES	AS	WS	ES	AS		
Service Pack	SP1	SP3								
BMU/IPMItool out-of-band	X	X	X	X	X	X	X	X	X	X

Supported Systems for IPMItool In-Band

IPMItool in-band also helps in configuring and managing devices.

For more information on IPMItool, 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 IPMItool In-Band

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

Table 4-12. Supported Microsoft Windows Operating Systems for IPMItool In-Band

	Windows Server 2003 R2	Windows Server 2008	Windows Server	Windows Server 2008 R2	Windows Server 2008 R2 x64

	x86 or x64			x86			2008 x64		x86					
Edition	Web	Standard	Enterprise	Web	Standard	Enterprise	Standard	Datacenter	Web	Standard and Core	Enterprise and Core	Standard and Core	Enterprise and Core	Datacenter and Core
Service Pack	SP2	SP2	SP2	SP2	SP2	SP2	Gold	Gold						
IPMItool in-band	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Supported Linux Operating Systems for IPMItool In-Band

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

Table 4-13. Supported Linux Operating Systems for IPMItool In-Band

	SUSE Linux Enterprise Server 11 (x86_64)	SUSE Linux Enterprise Server 10 (x86_64)	Red Hat Enterprise Linux 4.8 (x86_32)			Red Hat Enterprise Linux 4.8 (x86_64)			Red Hat Enterprise Linux 5.5 server (x86_32)	Red Hat Enterprise Linux 5.5 server (x86_64)
Edition			WS	ES	AS	WS	ES	AS		
Service Pack	SP1	SP3								
IPMItool in-band	X	X	X	X	X	X	X	X	X	X

Network Interface Controllers and Supported Operating Systems

DellSystems Software Support Matrix Version 6.3

- 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.

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 4.8	Red Hat Enterprise Linux Server 5.5
Broadcom NetXtreme Family of Adapters (5721, 5722)	14.2.0	14.2.0	14.2.0	Drivers provided by OS
Broadcom NetXtreme II Family of Adapters (BCM5708, BCM5709)	14.2.0	14.2.0	14.2.0	Drivers provided by OS
Broadcom NetXtreme II Family of Adapter 10GbE (BCM57710)	14.2.0	14.2.0	14.2.0	Drivers provided by OS
Intel EtherExpress Family of Adapters	12.0.0	12.0.0	12.0.0	12.0.0

NOTE: Dell no longer supports following NICs: **3COM 3C98*x* Family of Adapters** and **Alteon ACEnic Copper Gigabit**.

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

Dell Systems Software Support Matrix Version 6.3

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* available on the Dell Support website 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:

- 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* on the Dell Support website at **support.dell.com**.

Five types of controllers are included in this section:

- 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.

- 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.

- The internal mirroring group, provided through the system BIOS, includes the PERC 4/IM controller.

- The LSI 1020/1030 embedded SCSI controller.

- 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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3
3.2	6.3	352D (64-bit)	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	Native	Native

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	Windows Se Driver
3.2	6.3	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	Native	v6.53.0.64

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux E Server 11 SI
3.2	6.3	5B2D	2.20.4.4	Native	Native	Native

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 4.8 Driver	Red Hat Ente 5.5 server Dr
3.2	6.3	199D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	Native

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	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Ente Server 10 SP3

			4.8 Driver			
3.2	6.3	199D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	Native	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3
3.2	6.3	422D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	Native	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Lin Server 1
3.2	6.3	6.62	6.41.2.32	2.10.1	Native	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
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	
3.2	6.3	2.8.1-7692	1.1.5.2372.1	Native	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

3.2	6.3	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	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SU Se
3.2	6.3	1.03.23.90	NA	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver
3.2	6.3	352D (64-bit)	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	2.20.4.4	Native

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
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Lin Server 1
3.2	6.3	4.1.0.7419	1.1.5-2392	Native	NA	Native
* 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	Windows Server 2008 R2 Driver	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Ent Server 10 SP3
3.2	6.3	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-	v6.53.0.64	2.20.4.4	Native	NA

			bit)				

PERC 4e/Si

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

Table 8-16 show 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	Windows Server 2008 R2 Driver	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enter Server 10 SP3
3.2	6.3	5B2D	6.46.2.32 (32-bit) 6.46.3.64 (64-bit)	v6.53.0.64	2.20.4.4	Native	NA

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	Windows Server 2008 R2
3.2	6.3	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)	Native 4.5.0.64

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux Enterprise Server 11 SP1
3.2	6.3	5.2.2-0076	00.00.04.17-2	Native	00.00.03.21-6	Native

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	Windows Server 2008 R2 Driver
3.2	6.3	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)	Native 4.5.0.64

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux Enterprise Server 11 SP1
3.2	6.3	5.2.2-0072	00.00.04.17-2	Native	00.00.03.21-6	Native

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 Serer 2008
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux Enterprise Server 11 SP1
3.2	6.3	5.2.2-0072	00.00.04.17-2	Native	00.00.03.21-6	Native

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
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Se 10 SP3
3.2	6.3	6.2.0-0013	00.00.03.21-6 Dell A09	Native	00.00.03.21-6 A09

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	Windows Server R2 2008
3.2	6.3	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01	Native 1.28.5.32

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux Enterprise Server
3.2	6.3	00.10.51.00.06.12.05.00	NA	Native	4.00.38.02-3	Nat

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	Windows Server R2 2008
3.2	6.2	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01	Native 1.28.5.32

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	SUSE Linux Enterprise Server
3.2	6.3	00.10.51.00.06.12.05.00	NA	Native	4.00.38.02-3	Native

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	Windows Server R2 2008
3.2	6.3	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01	Native 1.28.5.32

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server 10 SP3	S S
3.2	6.3	00.10.51.00.06.12.05.00	NA	Native	4.00.38.02-3	N

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	Windows Server R2 2008
3.2	6.3	00.10.51.00.06.12.05.00	1.28.03.01	1.28.03.01	Native 1.28.5.32

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)
3.2	6.3	00.10.51.00.06.12.05.00	NA	Native	4.00.38.02-3

PERC 6/i Integrated and Adapter

The PERC 6/i Integrated supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, R805, R900, T610, R410, 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: R410, 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	Windows Server R2 2008
3.2	6.3	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	Native 4.5.0.64

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)
3.2	6.3	6.2.0-0013	00.00.04.17-2	Native	00.00.03.21-6	Native

PERC 6/E Adapter

The PERC 6/E Adapter supports the following Dell PowerEdge systems: 1950, 2900, 2950, 2970, 6950, R200, R300, R805, R900, R905, T300, T610, R410, R610, 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
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 S
3.2	6.3	6.2.0-0013	00.00.04.17-2	Native	00.00.03.21-6	Native

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, R410, R610, R710, M610, and M710.

The SAS 6/iR Adapter supports the following Dell PowerEdge systems: R200, R300, R410, 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	Windows Server R2 2008
3.2	6.3	00.25.47.00.06.22.03.00	1.28.03.01	1.28.03.01	Native 1.28.5.32

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE (versi
3.2	6.3	00.25.47.00.06.22.03.00	3.12.29.00-6 Dell A07	Native	4.00.78.02-3	Native

LSI Logic 1020/1030 Ultra320 SCSI Adapter

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

LSI Logic 1020/1030 Ultra320 SCSI adapter supports the following Dell PowerVault 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
3.2	6.3	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Serve (versi
3.2	6.3	1.03.27.00.5.10.08.00.12	3.02.83.12-5	Native	NA	Native

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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE (versi
3.2	6.3	NA	6.0.50.5 (32-bit) 6.0.3643.4 (64-bit)	NA	Native	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)
3.2	6.3	1.03.23	1.09.11	NA	Native	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 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version...)
3..2	6.3	1.03.23	1.09.11	NA	Native	NA	Native

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	Windows Server R2 2008 Driver
3.2	6.3	1.03.27.00.5.10.08.00.12	1.21.25.00	Native

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

Storage Management Service	Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)
3.2	6.3	1.03.27.00.5.10.08.00.12	NA	Native	NA	Native

PERC H700 Integrated and Adapter

The PERC H700 Integrated supports the following Dell PowerEdge systems: R710, R815, R715, R510, T610, R610, and T710.
The PERC H700 Adapter supports the following Dell PowerEdge systems: R310, R410, T310, and T410.
The PERC H700 Adapter supports the following Dell PowerVault systems: PowerVault NX300.

Table 8-46 and 8-47 show the other elements supported by the PERC H700 Integrated and Adapter.

Table 8-46. Dell OpenManage Supported Elements: PERC H700 Integrated and Adapter

Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008
6.3	12.3.0-0032	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01

Table 8-47. Dell OpenManage Supported Elements: PERC H700 Integrated and Adapter

Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)

| 6.3 | 12.3.0-0032 | 00.00.04.17-2 Dell A10 | (Native) | 00.00.04.17-2 Dell A10 | Native |

PERC H800 Adapter

The PERC H800 Adapter supports the following Dell PowerEdge systems: R710, R815, T410, R715, R210, R510, T310, R310, T610, R610, R410, T710, and M20X.

Table 8-48 and 8-49 show the other elements supported by the PERC H800 Adapter.

Table 8-48. Dell OpenManage Supported Elements: PERC H800 Adapter

Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008
6.3	12.3.0-0032	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01

Table 8-49. Dell OpenManage Supported Elements: PERC H800 Adapter

Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)
6.3	12.3.0-0032	00.00.04.17-2 Dell A10	Native	00.00.04.17-2 Dell A10	Native

PERC H700 Modular

The PERC H800 Modular supports the following Dell PowerEdge systems: M610 and M710.

Table 8-50 and 8-51 show the other elements supported by the PERC H700 Modular.

Table 8-50. Dell OpenManage Supported Elements: PERC H700 Modular

Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008
6.3	12.3.0-0032	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01	4.23.0.32 (32-bit) Dell A01 4.23.0.64 (64-bit) Dell A01

Table 8-51. Dell OpenManage Supported Elements: PERC H700 Modular

Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.8 Driver	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)
6.3	12.3.0-0032	00.00.04.17-2 Dell A10	(Native)	00.00.04.17-2 Dell A10	Native

PERC H200

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

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

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

Table 8-52 and 8-53 show the other elements supported by the PERC H200 Modular controllers.

Table 8-52. Dell OpenManage Supported Elements: PERC H200 Modular Controller

Dell OpenManage Version	PERC Firmware Version	Windows Server 2003 Driver	Windows Server 2008	Windows Server R2 2008
6.3	07.01.33.00 Dell A00	2.0.12.10 (32-bit) Dell A00 2.0.12.10 (64-bit) Dell A00	2.0.12.10 (32-bit) Dell A00 2.0.12.10 (64-bit) Dell A00	2.0.12.10 (64-bit) Dell A00

Table 8-53. Dell OpenManage Supported Elements: PERC H200 Modular Controller

Dell OpenManage Version	PERC Firmware Version	Red Hat Enterprise Linux 4.8	Red Hat Enterprise Linux 5.5 server Driver	SUSE Linux Enterprise Server (version 10 SP3)	SUSE Linux Enterprise Server (version 11 SP1)
6.3	07.01.33.00 Dell A00	02.15.00.00-2 (x86 and x86_64) Dell A00	(Native)	02.00.00.00-5 (x86_64) Dell A00	Native

Supported Dell Remote Access Controllers and Solutions

Dell Systems Software Support Matrix Version 6.3

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/manuals**.

Supported Remote Access Controller versions and firmware, as well as supported BMC IPMI protocol versions, are listed in Table 5-1 and Table 5-2. The tables list the following DRAC types:

- Integrated Dell Remote Access Controller 6 (iDRAC6)
- Integrated Dell Remote Access Controller (iDRAC)
- Dell Remote Access Controller 5 (DRAC 5)
- Dell Remote Access Controller/Modular Computer (DRAC/MC)
- Dell Remote Access Controller 4 (DRAC 4)
- Dell Chassis Management Controller (CMC)

Table 5-1. Supported Remote Access Controllers and Solutions for Blade Servers

Dell System	DRACs		CMC Firmware Version	BMC Firmware Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC Firmware Version			
M600	iDRAC	1.52	3.00	N/A	2.2
M605	iDRAC	1.52	3.00	N/A	2.2
M610	iDRAC6	3.00	3.00	N/A	2.2
M710	iDRAC6	3.00	3.00	N/A	2.2
M710X	iDRAC6	3.00	3.00	N/A	2.2
M610x	iDRAC6	3.00	3.00	N/A	2.2
M710HD	iDRAC6	3.00	3.00	N/A	2.2
M805	iDRAC	1.52	3.00	N/A	2.2
M905	iDRAC	1.52	3.00	N/A	2.2
M910	iDRAC6	3.00	3.00	N/A	2.2
1955	DRAC/MC	1.5	N/A	2.03	2.0
1855	DRAC/MC	1.5	N/A	1.01 or later	1.5

Table 5-2. Supported Remote Access Controllers and Solutions for Rack and Tower Servers

Dell System	DRACs		BMC Firmware Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC Firmware Version		
R200	DRAC 4	1.75	1.29 or later	2.0
R210	iDRAC6	1.50	1.3	2.0
R300	DRAC 5	1.51	2.34	2.0
R310	iDRAC6	1.50	NA	2.0
R410	iDRAC6	1.50	1.3	2.0
R510	iDRAC6	1.51	1.3	2.0
R610	iDRAC6	1.50	1.29 or later	2.0
R710	iDRAC6	1.50	1.29 or later	2.0
R715	iDRAC6	1.50	NA	2.0
R805	DRAC 5	1.50	2.38	2.0
R810	iDRAC6	1.50	NA	2.0
R815	iDRAC6	1.50	NA	2.0
R900	DRAC 5	1.51	2.32	2.0
R905	DRAC 5	1.51	2.31	2.0
R910	iDRAC6	1.50	NA	2.0
T100	DRAC 5	1.51	1.29 or later	2.0

T105	DRAC 5	1.51	1.29 or later	2.0
T110	No iDRAC support		1.3	2.0
T300	DRAC 5	1.51	2.34	2.0
T310	iDRAC6	1.50	1.3	2.0
T410	iDRAC6	1.50	1.3	2.0
T605	DRAC 5	1.51	2.30	2.0
T610	iDRAC6	1.50	1.29 or later	2.0
T710	iDRAC6	1.50	1.29 or later	2.0
6950	DRAC 5	1.51	2.29	2.0
2970	DRAC 5	1.51	2.29	2.0
2950	DRAC 5	1.51	2.28	2.0
2900	DRAC 5	1.51	2.28	2.0
1955	DRAC/MC	1.50	2.03	2.0
1950	DRAC 5	1.51	2.28	2.0
1900	DRAC 5	1.51	2.29	1.5
6850	DRAC 4	1.75	1.40 or later	1.5
6800	DRAC 4	1.75	1.40 or later	1.5
2850	DRAC 4	1.75	1.23 or later	1.5
2800	DRAC 4	1.75	1.23 or later	1.5
1855	DRAC/MC	1.5	1.01 or later	1.5
1800	DRAC 4	1.75	1.23 or later	1.5
860	DRAC 4	1.75	1.67 or later	1.5
850	DRAC 4	1.75	1.44 or later	1.5
840	DRAC 4	1.75	1.67 or later	1.5
830	DRAC 4	1.75	1.44 or later	1.5
800	DRAC 4	1.75	1.30 or later	1.5
PowerVault 100	DRAC 5	1.51	1.29 or later	2.0
PowerVault 500	DRAC 5	1.51	1.29 or later	2.0
PowerVault 600	DRAC 5	1.51	1.29 or later	2.0
PowerVault DL2000	DRAC 5	1.51	1.29 or later	2.0
PowerVault DL2200	iDRAC6	1.50	1.5	2.0
PowerVault NX1950	DRAC 5	1.51	1.29 or later	2.0
PowerVault NX3000	iDRAC6	1.50	1.29 or later	2.0
PowerVault NX3100	iDRAC6	1.50		
PowerVault NX300	iDRAC6	1.50	1.29 or later	2.0
PowerVault DL2100	iDRAC6	1.50		2.0
PowerVault DX6000	iDRAC6	1.50	NA	2.0
SC1435			2.29	2.0
SC1430				
SC1425			1.30 or later	1.5
SC440				
SC430				
SC420				

Supported Unified Server Configurator Versions

Dell Systems Software Support Matrix Version 6.3

The Unified Server Configurator (USC) or Unified Server Configurator-Lifecycle Controller Enabler (USC-**LCE**) provides an embedded solution on the local server to assist with providing a pre-operating system environment. It simplifies the end-to-end server lifecycle management.

The Lifecycle Controller software components are 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 BMC (Baseboard Management Controller) capabilities. The UEFI environment provides the local console interface and the infrastructure for locally managed system components.

Table 9-1. Supported Dell Systems and Operating Systems for USC and USC-LCE

l   A X in the intersection of the operating system and the Dell system columns indicates support for USC-LCE.

l   An * in the intersection of the operating system and the Dell system columns indicates support for USC.

USC-LCE is supported on the following servers only if iDRAC6 Express card is installed on the servers: T310, T410, R210, R410, R510, R310

Supported Operating System	Dell Systems																			
	T110	T310	T410	T610	T710	R210	R410	R510	R610	R710	M610	M710	M710HD	M910	R310	R715	R810	R815	R910	N
Microsoft																				
Windows Server 2003 x64 and x86 R2 SP2		X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X	
Windows Server 2008 SP2 x64 and Windows Server 2008 SP2 x64 Core	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X	
Windows Server 2008 SP2 x86 and Windows Server 2008 SP2 x86 Core	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X	
Windows Server 2008 x64 R2	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X	
Windows Small Business Server 2008 with SP2	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X					X, *	X				
Windows Small Business Server 2008 R2	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X					X, *	X				
Microsoft Windows Server 2008 Foundation	*																			
Windows Essential Business Server 2008 with SP1	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X	
Windows Small Business Server 2003 with R2 and SP2			X, *				X, *													
Windows Storage Server 2008 Standard																				X
Windows Server 2008 HPC Edition		X, *					X, *		X	X	X	X								
Linux Operating																				

Systems																			
Red Hat Enterprise Linux WS, ES, and AS version 4.8 (x86_32)	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X			X, *				
Red Hat Enterprise Linux WS, ES, and AS version 4.8 (x86_64)	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X			X, *				
Red Hat Enterprise Linux WS, ES, and AS version 5.5 (x86_32)	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
Red Hat Enterprise Linux WS, ES, and AS version 5.5 (x86_64)	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
SUSE Linux Enterprise Server 10 with SP3 (x86_64)	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
SUSE Linux Enterprise Server 11 (x86_64) with SP1	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
Virtualization Operating Systems																			
VMware ESX version 4.0 update 1	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
VMware ESX version 4.1	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
VMware ESXi version 4.0 update 1 HDD version	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
VMware ESXi version 4.1 HDD	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X
Citrix XenServer 5.6 (HDD)				X	X			X	X	X	X	X	X	X		X	X	X	X
Microsoft Hyper-V R2	*	X, *	X, *	X	X	X, *	X, *	X, *	X	X	X	X	X	X	X, *	X	X	X	X