Dell Systems Management - OpenManage Software Support Matrix

Version 8.4

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Notes, cautions, and warnings

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

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

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

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Introduction

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

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

Topics:

- What is new in this release
- Structure of this guide
- Accessing support content from the Dell EMC support site
- Where can I find the Server Administrator one-to-one agent
- Supported GUI languages
- Documentation conventions for Dell systems

What is new in this release

This release adds support for the following:

- **New operating systems**:
  - SUSE Linux Enterprise Server 11 SP4
  - ESXi 6.0 U2
- CMC 5.2
- OpenManage Essentials v2.2
- OpenManage Mobile v1.5 for Android and iOS
- Integrated Dell Remote Access 2.40.40.40
  - iDRAC Service Module 2.4
- The Systems Management Tools and Documentation (SMTD) Media would provide guidance on the OpenManage Products/tools.

Structure of this guide

Dell OpenManage solutions and tools allow customers to quickly respond to problems by helping them to manage Dell servers effectively and efficiently; in physical, virtual, local, and remote environments, operating in-band and out-of-band (agent-free).

This guide is organized on the basis of in-band and out-of-band management and monitoring.

Accessing support content from the Dell EMC support site

Access supporting content related to an array of systems management tools using direct links, going to the Dell EMC support site, or using a search engine.

- Direct links:
  - For Dell EMC Enterprise Systems Management and Dell EMC Remote Enterprise Systems Management—https://www.dell.com/esmmanuals
  - For Dell EMC Virtualization Solutions—https://www.dell.com/SoftwareManuals
  - For Dell EMC OpenManage—https://www.dell.com/openmanagemanuals

- For iDRAC—https://www.dell.com/idracmanuals
- For Dell EMC OpenManage Connections Enterprise Systems Management—https://www.dell.com/OMConnectionsEnterpriseSystemsManagement
- For Dell EMC Serviceability Tools—https://www.dell.com/serviceabilitytools

- Dell EMC support site:
  1. Go to https://www.dell.com/support.
  2. Click **Browse all products**.
  3. From the **All products** page, click **Software**, and then click the required link.
  4. Click the required product and then click the required version.

Using search engines, type the name and version of the document in the search box.

Where can I find the Server Administrator one-to-one agent

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

Supported GUI languages

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

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

Table 1. Supported Dell OpenManage GUI Languages

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

Documentation conventions for Dell systems

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

Table 2. Documentation Conventions for Dell Systems

Table 2. Documentation Conventions for Dell Systems

10th generation of PowerEdge servers	11th generation of PowerEdge servers	12th generation of PowerEdge servers	13th generation of PowerEdge servers
M600	M610	R220	R430
M605	M610x	R320	R530
M805	M710	R420	R630
M905	M710HD	R520	R730
R200	M910	R620	R730 XD
R300	M915	R720	M630
R805	R210	R720XD	FC630
R900	R210 II	R820	M830
R905	R310	R920	FC430
T100	R410	M420	T430
T105	R415	M520	T630
T300	R510	M620	C4130
T605	R515	M820	R7910
	R610	T320	FC830
	R710	T420	R930
	R715	T620	C6320
	R810		R330
	R815		R230
	R910		T330
	T110		T130
	T110 II		R830
	T310		
	T410		
	T610		
	T710		
	PowerVault DL2200		
	PowerVault DX6000		
	PowerVault NX200		
	PowerVault NX300		
	PowerVault NX3000		
	PowerVault NX3100		

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In-band server management and monitoring

In-band server management is the process of managing and monitoring servers using operating system tools, and other inbuilt tools, using Dell OpenManage Server Administrator.

Topics:

- Supported Dell OpenManage Systems Management Software
- Dell OpenManage Server Administrator v8.4
- Supported Operating Systems for Server Administrator Web Server on your Managed System (Servers)
- Supported Dell OpenManage Systems Management Consoles
- Supported web browsers for In-band management and monitoring

Supported Dell OpenManage Systems Management Software

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

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

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

Server Administrator comprises the following services:

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

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

Supported Dell OpenManage Systems Management Software on Windows Operating Systems

The following table lists the supported Dell OpenManage 8.5 installation and systems management software on systems running supported Microsoft Windows operating systems.

An **X** in the intersection of the operating system and the Dell system columns indicates that Server Administrator is supported on that operating system for the corresponding system.

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

Table 3. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Table 3. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1				Microsoft Windows Small Business Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011		Windows Server 2016
	Workgroup, Standard, Essentials, DataCenter	Standard, Foundation, Enterprise	DataCenter	Web	Foundation, Standard, Enterprise, DataCenter	Essentials	Standard, Premium Add- on	
M600	X	X		X	X			X
T605	X	X			X		X	X
M610	X	X		X	X			X
M610x	X	X	X	X	X			X
M710	X	X		X	X			X
M710 HD	X	X		X	X			X
M910	X	X	X	X	X			X
M915								X
R210	X	X	X		X	X	X	X
R210 II	X	X	X		X		X	X
R310	X	X	X		X	X	X	X
R410	X	X	X	X	X		X	X
R415	X	X	X	X	X		X	X
R510	X	X		X	X		X	X
R515	X	X	X	X	X		X	X
R610	X	X	X	X	X		X	X
R710	X	X	X	X	X	X	X	X
R715	X	X	X	X	X	X	X	X
R810	X	X		X	X			X
R815	X	X		X	X			X
R910	X	X	X	X	X			X
T110	X	X			X		X	X
T110 II	X	X	X		X	X	X	X
T310	X	X		X	X	X	X	X
T410	X	X		X	X		X	X

Table 3. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1				Microsoft Windows Small Business Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011		Windows Server 2016
	Workgroup, Standard, Essentials, DataCenter	Standard, Foundation, Enterprise	DataCenter	Web	Foundation, Standard, Enterprise, DataCenter	Essentials	Standard, Premium Add- on	
T610	X	X		X	X		X	X
T710	X	X		X	X		X	X
PowerVault DL 220	X	X	X	X	X		X	X
PowerVault DX 6000	X	X	X	X	X		X	X
PowerVault NX 200								X
PowerVault NX 300	X	X	X	X	X		X	X
PowerVault NX 300	X	X	X	X	X		X	X
PowerVault NX 310	X	X	X	X	X		X	X
M420		X	X	X	X			X
M520		X	X		X			X
M620		X	X		X			X
M820		X	X		X			X
R220		X	X	X	X	X	X	X
R320		X		X	X			X
R420		X	X	X	X			X
R520		X	X		X			X
R620		X	X	X	X			X
R720		X	X	X	X			X
R720 XD		X	X	X	X			X
R820		X	X		X			X
R920		X	X	X	X	X	X	X
T320		X		X			X	X
T420		X	X	X	X		X	X

Table 3. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1				Microsoft Windows Small Business Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011		Windows Server 2016
	Workgroup, Standard, Essentials, DataCenter	Standard, Foundation, Enterprise	DataCenter	Web	Foundation, Standard, Enterprise, DataCenter	Essentials	Standard, Premium Add- on	
T620		X	X	X	X			X
PowerVault NX 400								X
PowerVault NX 320								X
PowerVault NX 330								X
R730		X	X	X	X			X
R730 XD		X	X	X	X			X
R630		X		X	X			X
T630		X	X	X	X			X
R430		X	X	X	X			X
R530		X	X	X	X			X
T430		X	X	X	X			X
R930					X	X	X	X
M630		X	X	X	X			X
FC 630		X	X	X	X			X
C4130	X	X	X		X		X	X
R7910								X
M630		X	X	X				X
M830		X	X	X				X
FC 830		X	X	X	X			X
FC 630		X	X	X	X			X
FC 430		X	X	X	X			X
R330	X	X	X	X	X	X	X	X
R230	X	X	X	X	X	X	X	X
T330	X	X	X	X	X	X	X	X
T130					X	X	X	X

Table 3. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 and SP1				Microsoft Windows Small Business Server 2008 x86 and x64 SP2	Microsoft Windows Small Business Server 2011		Windows Server 2016
	Workgroup, Standard, Essentials, DataCenter	Standard, Foundation, Enterprise	DataCenter	Web	Foundation, Standard, Enterprise, DataCenter	Essentials	Standard, Premium Add- on	
R830	X	X	X	X	X	X	X	X
C6320	X	X	X	X	X	X	X	X

Table 4. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2				Microsoft Windows Server 2012				Microsoft Windows Server 2012 R2				Windows Server 2016
	Basic	Standard	Enterprise	Work Group	Foundation	Essentials	Standard	DataCenter	Foundation	Essentials	Standard	DataCenter	
M600							X				X	X	X
T605							X				X		X
M610							X					X	X
M610x							X				X	X	X
M710							X				X	X	X
M710 HD							X				X	X	X
M910							X				X	X	X
M915						X	X						X
R210							X		X		X		X
R210 II						X	X		X	X	X		X
R310						X	X			X	X		X
R410							X				X	X	X
R415							X				X	X	X
R510							X				X	X	X
R515							X				X	X	X
R610							X				X	X	X
R710	X	X					X				X	X	X
R715	X						X				X	X	X
R810							X				X	X	X

Table 4. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2				Microsoft Windows Server 2012				Microsoft Windows Server 2012 R2				Windows Server 2016
	Basic	Standard	Enterprise	Work Group	Foundation	Essentials	Standard	DataCenter	Foundation	Essentials	Standard	DataCenter	
R815							X				X	X	X
R910							X				X	X	X
T110							X		X		X		X
T110 II						X	X		X	X	X		X
T310						X	X			X	X		X
T410							X				X	X	X
T610							X				X	X	X
T710							X				X	X	X
PowerVault DL 220							X						X
PowerVault DX 6000							X						X
PowerVault NX 200	X												X
PowerVault NX 300		X					X						X
PowerVault NX 300		X	X				X						X
PowerVault NX 310		X					X						X
M420							X				X	X	X
M520							X				X	X	X
M620							X				X	X	X
M820							X				X	X	X
R220	X	X	X	X		X	X		X	X	X	X	X
R320						X	X			X	X		X
R420							X				X	X	X
R520							X				X	X	X
R620		X	X				X				X	X	X
R720		X					X				X	X	X

Table 4. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2				Microsoft Windows Server 2012				Microsoft Windows Server 2012 R2				Windows Server 2016
	Basic	Standard	Enterprise	Work Group	Foundation	Essentials	Standard	DataCenter	Foundation	Essentials	Standard	DataCenter	
R720 XD		X					X						X
R820							X				X	X	X
R920	X	X	X	X		X	X		X	X	X	X	X
T320						X	X		X		X		X
T420							X				X	X	X
T620							X				X	X	X
PowerVault NX 400													X
PowerVault NX 320													X
PowerVault NX 330													X
R730	X	X	X	X		X	X		X	X	X	X	X
R730 XD	X	X	X	X		X	X		X	X	X	X	X
R630	X	X	X	X		X	X		X	X	X	X	X
T630	X	X	X	X		X	X		X	X	X	X	X
R430						X	X		X	X	X	X	X
R530						X	X		X	X	X	X	X
R930						X	X		X	X	X	X	X
T430						X	X		X	X	X	X	X
M630						X	X		X	X	X	X	X
FC 630						X	X		X	X	X	X	X
C4130			X	X		X	X		X	X	X	X	X
R7910													X
M830						X	X		X	X	X	X	X
FC 830						X	X		X	X	X	X	X
FC 630						X	X		X	X	X	X	X
FC 430						X	X		X	X	X	X	X

Table 4. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2				Microsoft Windows Server 2012				Microsoft Windows Server 2012 R2				Windows Server 2016
	Basic	Standard	Enterprise	Work Group	Foundation	Essentials	Standard	DataCenter	Foundation	Essentials	Standard	DataCenter	
R330						X	X		X	X	X		X
R230						X	X		X	X	X		X
T330						X	X		X	X	X		X
T130						X	X		X	X	X		X
R830						X	X		X	X	X	X	X
C6320						X	X		X	X	X	X	X

Table 5. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System	Microsoft Windows 7.0 32-bit and 64-bit	Microsoft Windows 8.1	Microsoft Windows 10
M600			
T605			
M610			
M610x			
M710			
M710 HD			
M910			
M915			
R210			
R210 II			
R310			
R410			
R415			
R510			
R515			
R610			
R710			
R715			

Table 5. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System	Microsoft Windows 7.0 32-bit and 64-bit	Microsoft Windows 8.1	Microsoft Windows 10
R810			
R815			
R910			
T110			
T110 II			
T310			
T410			
T610			
T710			
PowerVault DL 220			
PowerVault DX 6000			
PowerVault NX 200			
PowerVault NX 300			
PowerVault NX 300			
PowerVault NX 310			
M420			
M520			
M620			
M820			
R220			
R320			
R420			
R520			
R620			
R720			
R720 XD			
R820			
R920			

Table 5. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System	Microsoft Windows 7.0 32-bit and 64-bit	Microsoft Windows 8.1	Microsoft Windows 10
T320			
T420			
T620			
PowerVault NX 400			
PowerVault NX 320			
PowerVault NX 330			
R730			
R730 XD			
R630			
T630			
R430			
R530			
R930			
T430			
M630			
FC 630			
C4130			
R7910	X	X	X
M630			
M830			
FC 830			
FC 630			
FC 430			
R330			
R230			
T330			
T130			
R830			

Table 5. Supported Dell OpenManage 8.5 Systems Management Software on Systems Running Microsoft Windows Operating Systems

Dell System	Microsoft Windows 7.0 32-bit and 64-bit	Microsoft Windows 8.1	Microsoft Windows 10
C6320			

Supported Dell OpenManage Systems Management Software on Linux Operating Systems

The following table lists the supported Dell OpenManage 8.4 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 is supported on that operating system for the corresponding Dell system.

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

Table 6. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP4	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.2
M600	X	X	X	X	X
M605	X	X	X	X	X
M805	X	X	X	X	X
M905	X	X	X	X	X
R200	X	X	X	X	X
R300	X	X	X	X	X
R805	X	X	X	X	X
R900	X	X	X	X	X
R905	X	X	X	X	X
T100	X	X	X	X	X
T105	X	X	X	X	X
T300	X	X	X	X	X
T605	X	X	X	X	X
M610	X	X	X	X	X
M610x	X	X	X	X	X
M710	X	X	X	X	X
M710HD	X	X	X	X	X
M910	X	X	X	X	X

Table 6. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP4	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.2
M915	X		X	X	X
R210	X	X	X	X	X
R210 II	X	X	X	X	X
R310	X	X	X	X	X
R410	X	X	X	X	X
R415	X	X	X	X	X
R510	X	X	X	X	X
R515	X	X	X	X	X
R610	X	X	X	X	X
R710	X	X	X	X	X
R715	X	X	X	X	X
R810	X	X	X	X	X
R815	X	X	X	X	X
R910	X	X	X	X	X
T110	X	X	X	X	X
T110 II	X	X	X	X	X
T310	X	X	X	X	X
T410	X	X	X	X	X
T610	X	X	X	X	X
T710	X	X	X	X	X
PowerVault DL2200					
PowerVault DX6000					
PowerVault NX200					
PowerVault NX300					
PowerVault NX3000					
PowerVault NX3100					

Table 6. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP4	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.2
M420	X	X	X	X	X
M520	X	X	X	X	X
M620	X			X	X
M820	X	X	X	X	X
R220	X	X	X	X	X
R320	X	X	X	X	X
R420	X	X	X	X	X
R520	X	X	X	X	X
R620	X	X	X	X	X
R720	X	X	X	X	X
R720XD	X	X	X	X	X
R820	X	X	X	X	X
R920	X	X	X	X	X
T320	X	X	X	X	X
T420	X	X	X	X	X
T620	X	X	X	X	
PowerVault NX400					X
PowerVault NX3200					
PowerVault NX3300					
R730	X	X	X	X	X
R730 XD	X	X	X	X	X
R930	X	X	X	X	X
R630	X	X	X	X	X
T630	X	X	X	X	X
R430	X	X	X	X	X
R530	X	X	X	X	X
T430	X	X	X	X	X

Table 6. Supported Dell OpenManage Systems Management Software on Systems Running Linux Operating Systems

Dell System	SUSE Linux Enterprise Server 11 SP4	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.2
M630	X	X	X	X	X
FC630	X	X	X	X	X
C4130	X	X	X	X	X
R7910	X	X	X	X	X
M830	X	X	X	X	X
FC630	X	X	X	X	X
FC830	X	X	X	X	X
FC430	X	X	X	X	X
R330	X	X	X	X	X
R230	X	X	X	X	X
T330	X	X	X	X	X
T130	X	X	X	X	X
FX120x4	X	X	X	X	X
R830	X	X	X	X	X
C6320	X	X	X	X	X

Supported Dell OpenManage Systems Management Software On Virtualization Operating Systems

An **X** in the intersection of the operating system and the Dell system columns indicates that the Server Administrator is supported on that operating system for the corresponding Dell system.

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

The following table lists the supported Dell OpenManage 8.4 installation and systems management software on systems running supported Virtualization operating systems.

NOTE: OpenManage Software supports VMware ESXi 5.1 U3 operating system only on the 11th generation of Dell's PowerEdge servers.

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

Dell System	VMware		
	ESXi 5.1 U3 (Flash and HDD)	ESXi 5.5 U3	ESXi 6.0 U2
M600	X	X	
M605	X		

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

Dell System	VMware		
	ESXi 5.1 U3 (Flash and HDD)	ESXi 5.5 U3	ESXi 6.0 U2
M805	X	X	
M905	X	X	
R200	X		
R300	X		
R805	X	X	
R900	X	X	
R905	X	X	
T100	X		
T105	X		
T300	X		
T605	X		
M610	X	X	X
M610x	X	X	X
M710	X	X	X
M710HD	X	X	X
M910	X	X	X
M915	X	X	X
R210	X	X	X
R210 II	X	X	X
R310	X	X	X
R410	X	X	X
R415	X	X	X
R510	X	X	X
R515	X	X	X
R610	X	X	X
R710	X	X	X
R715	X	X	X
R810	X	X	X

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

Dell System	VMware		
	ESXi 5.1 U3 (Flash and HDD)	ESXi 5.5 U3	ESXi 6.0 U2
R815	X	X	X
R910	X	X	X
T110	X	X	X
T110 II	X	X	X
T310	X	X	X
T410	X	X	X
T610	X	X	X
T710	X	X	X
PowerVault DL2200			
PowerVault DX6000			
PowerVault NX200			
PowerVault NX300			
PowerVault NX3000			
PowerVault NX3100			
M420	X	X	X
M520	X	X	X
M620	X	X	X
M820	X	X	X
R220	X	X	X
R320	X	X	X
R420	X	X	X
R520	X	X	X
R620	X	X	X
R720	X	X	X
R720XD	X	X	X
R820	X	X	X
R920	X	X	X
T320	X	X	X

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

Dell System	VMware		
	ESXi 5.1 U3 (Flash and HDD)	ESXi 5.5 U3	ESXi 6.0 U2
T420	X	X	X
T620	X	X	X
PowerVault NX400			
PowerVault NX3200			
PowerVault NX3300			
R730	X	X	X
R730 XD	X	X	X
R630	X	X	X
T630	X	X	X
R430	X	X	X
R530	X	X	X
R930	X	X	X
T430	X	X	X
M630	X	X	X
FC630	X	X	X
C4130	X	X	X
R7910	X	X	X
M830	X	X	X
FC630	X	X	X
FC830	X	X	X
FC430	X	X	X
R330	X	X	X
R230	X	X	X
T330	X	X	X
T130	X	X	X
R830	X	X	X
C6320	X	X	X
R930	X	X	X

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

Dell System	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
M600	X	X
M605	X	X
M805	X	X
M905	X	X
R200	X	X
R300	X	X
R805	X	X
R900	X	X
R905	X	X
T100	X	X
T105	X	X
T300	X	X
T605	X	X
M610	X	X
M610x	X	X
M710	X	X
M710HD	X	X
M910	X	X
M915	X	X
R210	X	X
R210 II	X	X
R310	X	X
R410	X	X
R415	X	X
R510	X	X
R515	X	X
R610	X	X
R710	X	X

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

Dell System	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
R715	X	X
R810	X	X
R815	X	X
R910	X	X
T110	X	X
T110 II	X	X
T310	X	X
T410	X	X
T610	X	X
T710	X	X
PowerVault DL2200		
PowerVault DX6000		
PowerVault NX200		
PowerVault NX300		
PowerVault NX3000		
PowerVault NX3100		
M420	X	X
M520	X	X
M620	X	X
M820	X	X
R220	X	X
R320	X	X
R420	X	X
R520	X	X
R620	X	X
R720	X	X
R720XD	X	X
R820	X	X

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

Dell System	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
R920	X	X
T320	X	X
T420	X	X
T620	X	X
PowerVault NX400		
PowerVault NX3200		
PowerVault NX3300		
R730	X	X
R730 XD	X	X
R630	X	X
T630	X	X
R430	X	X
R530	X	X
T430	X	X
M630	X	X
C4130	X	X
R7910	X	X
M630	X	X
M830	X	X
FC630	X	X
FC830	X	X
FC430	X	X
R330	X	X
R230	X	X
T330	X	X
T130	X	X
R830	X	X
R930	X	X
C6320	X	X

Dell OpenManage Server Administrator v8.4

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

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

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

Table 9. Supported Microsoft Windows Server Operating Systems for Server Administrator and Server Administrator web server.

Microsoft Windows Server						
	2008 (32-bit)	**2008 (64-bit)**	**2008 R2 (64 - Bit)**	**2012 DataCenter**	**2012 Essentials**	**2012 R2**
Service Pack	SP2	SP2	SP1	N/A	N/A	N/A
Server Administrator	X	X	X	X	X	X
Server Administrator Web Server	X	X	X	X	X	X

NOTE: Microsoft Windows 2003 support is not provided for 12th generation or later PowerEdge servers.

Table 10. Supported Microsoft Windows Operating Systems for Server Administrator and Server Administrator web server.

Microsoft Windows					
	XP (32-bit)	**Vista (32-bit)**	**Vista (64-bit)**	**7.0 (32-bit and 64-bit)**	**8.0 (32-bit and 64-bit)**
Service Pack	SP2	SP3	SP2	SP1	N/A
Server Administrator					
Server Administrator Web Server	X	X	X	X	X

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

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

Table 11. Supported SUSE Linux Enterprise Server Operating Systems for Server Administrator

	SUSE Linux Enterprise Server 11 (64-bit)	**SUSE Linux Enterprise Server 12 SP1**
Service Pack	SP4	
Server Administrator	X	X
Server Administrator Web Server	X	X

Table 12. Supported Red Hat Enterprise Linux Operating Systems for Server Administrator

Table 12. Supported Red Hat Enterprise Linux Operating Systems for Server Administrator

	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.2
Service Pack		
Server Administrator	X	X
Server Administrator Web Server	X	X

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

The following table lists the supported Virtualization Operating Systems for the Server Administrator and Server Administrator web server.

Table 13. Supported VMware operating systems on Physical System

	VMware		
Edition	**ESXi 5.1 U3 (HDD and Flash)**	**ESXi 5.5 U3**	**ESXi 6.0 U2**
Server Administrator	X	X	X
Server Administrator Web Server	N/A	N/A	N/A

Table 14. Supported Microsoft Operating Systems on Physical System

	Microsoft			
Edition	**Hyper-V for Windows 2008**	**Hyper-V R2 SP1 for Windows 2008**	**Hyper-V for Windows 2012**	**Hyper-V for Windows 2012 R2**
Server Administrator	X	X	X	X
Server Administrator Web Server	X	X	X	X

NOTE:

OpenManage Software supports VMware ESXi 5.1 U3 operating system only on Dell's 11th generation of PowerEdge servers.

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

NOTE: Server Administrator Web Server component cannot be installed on Dell systems running the VMware ESXi operating system.

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 Dell OpenManage Systems Management Consoles

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

Dell OpenManage Systems Management Consoles include:

- Dell OpenManage Essentials v2.2
- Dell OpenManage Mobile v1.5
- Dell OpenManage Power Center v 3.2
- Dell OpenManage Server Administrator v8.4

Dell OpenManage Essentials v2.2

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

For more information, see the *Dell OpenManage Essentials Support Matrix* at **dell.com/openmanagemanuals**.

Dell OpenManage Mobile v1.5

OpenManage Mobile is a systems management application that enables you to monitor your datacenter from an Android or an iOS mobile device. OpenManage Mobile enables you to add one or more OpenManage Essentials consoles 1.5 or later and/or Integrated Dell Remote Access Controllers (iDRACs) 7 or later. OpenManage Mobile provides OpenManage Essentials alerts to your mobile device and enables you to troubleshoot your hardware in case of emergencies. In addition, OpenManage Mobile allows you to view the health of your data center and perform basic tasks such as power control functions.

Dell OpenManage Power Center v3.2

Dell OpenManage Power Center (OMPC) management console provides increased visibility of and control over Dell PowerEdge Servers power consumption, anomalies, and utilization through fine-grained instrumentation. This enables increased control, improved rack density, faster response times, greater accuracy, and broader decision-making intelligence. OMPC allows customers to set a budget cap and provides millisecond fast power capping to prevent tripping a circuit breaker, allows IT Admins to set policies to dictate automated response when power or temperature events occur. OMPC supports heterogeneous environment, generate reports for stranded power for devices and device groups. Representational State Transfer (REST) Application Program Interface (API) support is also provided for report generation.

Supported Microsoft Windows Operating Systems for Power Center v3.2

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

Table 15. Supported Microsoft Windows Operating Systems for Power Center

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

Supported Linux Operating Systems For Power Center v3.2

The following table lists the supported Linux Operating Systems for the power center.

Table 16. Supported Linux Operating Systems

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.6 (64-bit)	Red Hat Enterprise Linux 7.0 (64-bit)	SUSE Linux Enterprise Server 11 SP3 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)
Power Center	X	X	X	X	X

Supported web browsers for In-band management and monitoring

The list of supported web browsers for OpenManage 8.4 Systems Management software on systems running supported Microsoft Windows, Red Hat Enterprise Linux, SUSE Linux Enterprise Server(SLES), and Macintosh operating systems.

Table 17. Supported web browsers running supported Microsoft Windows, Red Hat Enterprise Linux, SLES, and Macintosh operating systems.

Operating System	Internet Explorer (64-bit)			Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	9	10	11		22, 23, 29, 30, 33, 37, 38, 40 and 41	30, 31, 33, 34, 35, 38, 43 till 50	7.0.6, 7.1 and 8.0
Windows 7 SP2 (32-bit & 64-bit)	X	X	X		X		
Windows 8.1 (32-bit & 64-bit)			X		X	X	
Macintosh OSX 10.9 (Mavericks)							X
Macintosh OSX 10.10							X
Windows Server 2008 R2 SP1 (32-bit & 64-bit)	X	X	X		X	X	
Windows Server 2008 SP2 (32-bit & 64-bit)	X				X	X	
Windows Server 2012		X			X	X	
Windows Server 2012 R2 standard edition			X		X	X	
Windows Server 2012 R2 (64-bit)		X	X		X		
Windows Server 2016				X			
SLES 11 SP4	Native Mozilla Firefox Web Browsers						
SLES 12 SP1	Native Mozilla Firefox Web Browsers						
Red Hat Enterprise Linux 6.8	Native Mozilla Firefox Web Browsers						
Red Hat Enterprise Linux 7.3	Native Mozilla Firefox Web Browsers						

NOTE: For the latest information, see the *Release Notes* for the specific product available at **dell.com/openmanagemanuals**. Select the OpenManage release version and then select the appropriate product to view the *Release Notes*.

3

Out-of-band server management and monitoring

Out-of-band server management is the process of remotely managing and monitoring servers using Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller.

Topics:

- Supported Integrated Dell Remote Access Controllers and solutions
- iDRAC Service Module 2.4
- Supported Remote Access Controllers and Solutions for Blade Servers
- Supported Remote Access Controllers and Solutions for Rack and Tower Servers
- Lifecycle Controller — Supported Dell Systems and Operating Systems
- Supported web browsers for Out-of-Band management and monitoring

Supported Integrated Dell Remote Access Controllers and solutions

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

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

iDRAC comprises:

- Graphical User Interface(GUI), Command Line Interface(CLI), and WS-MAN
- Server instrumentation
- OS Integration
- Manage storage devices

Overview

All versions of iDRAC8 – Basic, Express, and Enterprise – ship from the factory with a default static IP address, this is a preferred and a known method. However, Dell also offers two options to better fit into a customer's existing environment. **Auto-discovery** or **DHCP** can be set from the factory to allow you to access iDRAC and remotely configure your server.

iDRAC version naming convention

- iDRAC7
  - 1.xx.yy
  - xx is the iDRAC firmware version
  - yy is the power & thermal table version
- iDRAC8
  - 2.xx.yy.zz
  - xx is the iDRAC firmware version
  - yy is the power & thermal table version
  - zz is the Lifecycle Controller version

For 13th generation of Dell PowerEdge servers, the iDRAC and Lifecycle Controller firmware is a single image.

NOTE: A single iDRAC firmware is used across Dell's 12th and 13th generation PowerEdge servers.

iDRAC ships from the factory with a default, static IP address, with either Express or Enterprise licenses. This is a preferred and known method. However, Dell also offers two additional options to better fit into a certain customer IT environments: **DHCP**

or **Provisioning Server**. Either of which can be set from the factory to allow you to access the iDRAC and remotely configure your server. Only one setting is possible There is no charge for any of these options.

- Static

  iDRAC will ship with the factory default static IP address 192.168.0.120
- DHCP

  This option is for customers who have a Dynamic Host Configuration Protocol (DHCP) server already installed in their data center environment. The DHCP server can automatically assign the IP address, gateway, and subnet mask to a server's iDRAC . DHCP should also be selected if using iDRAC Auto Config or OpenManage Essentials Configuration Manager to automate server provisioning. Please select this option if you would like to ensure that this feature is enabled at the Dell factory. Again, there is no charge to enable the "DHCP" option at time of order.
- Provisioning Server

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

iDRAC8 Management Traffic – Dedicated NIC or Shared LOM

For certain 13th generation of Dell's PowerEdge servers, you have the option to choose the network interface they wish to route iDRAC traffic – either the default **Dedicated NIC** for the iDRAC itself or through the **Shared LOM** that is also used by the server. Dell recommends to place the iDRAC's on a separate management network for best iDRAC security. However, you can also route iDRAC management traffic over the shared LOM. Select the **shared LOM** option if you may want to ensure that this feature is enabled at the Dell factory. There is no additional charge to enable shared LOM at the time of order. The servers which support the option of selecting shared LOM for iDRAC management traffic are:

- R730
- R730xd
- T630
- R630
- FC630
- FC830

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, see the *Dell Remote Access Controller User's Guide* or the *Integrated Dell Remote Access Controller User's Guide* at **dell.com/support/manuals**.

Table below "Remote Access Controllers and Solutions for Blade Servers" and Table "For Rack and Tower Servers" list the following:

- Supported Remote Access Controller versions and firmware for iDRAC8
- Supported Chassis Management Controller versions and firmware
- Supported BMC firmware versions
- Supported IPMI protocol versions

iDRAC Service Module 2.4

The Integrated Dell Remote Access Controller(iDRAC) Service Module is a lightweight optional software application that can be installed on 12th generation of Dell PowerEdge servers or later with minimum Firmware version of 1.57.57 for iDRAC7 and 2.05.05.05 or later for iDRAC8. The iDRAC Service Module complements iDRAC interfaces – Graphical User Interface (GUI), RACADM CLI and Web Service Management (WS-MAN) with additional monitoring data. You can configure the features on the supported operating system depending on the features to be installed and the unique integration needs in a work environment.

The iDRAC Service Module architecture uses IP socket communication and provides additional Server Management data (OS/ device driver) to iDRAC and presents one-to-many consoles with access to Systems Management data through OS standard interfaces.

Supported Remote Access Controllers and Solutions for Blade Servers

The following table lists the supported Remote Access Controllers and Solutions for blade servers.

Table 18. Supported Remote Access Controllers and Solutions for Blade Servers

Dell System	DRACs		CMC Firmware			BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC		
M610	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M610x	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M710	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M710HD	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M910	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M915	iDRAC6	3.80	5.2	N/A	N/A	N/A	2.0
M420	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M520	iDRAC7	2.40.40.40	5.2	2.2	N/A	N/A	2.0
M620	iDRAC7	2.40.40.40	5.2	2.2	N/A	N/A	2.0
M630	iDRAC8	2.40.40.40	5.2	2.2	N/A	N/A	2.0
M820	iDRAC7	2.40.40.40	5.2	2.2	N/A	N/A	2.0
M830	iDRAC8	2.40.40.40	5.2	2.2	N/A	2.50	2.0
FC430	iDRAC8	2.40.40.40	N/A	N/A	1.4	2.50	2.0
FC630	iDRAC8	2.40.40.40	N/A	N/A	1.4	N/A	2.0
FC830	iDRAC8	2.40.40.40	N/A	N/A	1.4	2.50	2.0
FM120	iDRAC7	2.40.40.40	N/A	N/A	1.4	N/A	2.0

Supported Remote Access Controllers and Solutions for Rack and Tower Servers

The following table lists the supported Remote Access Controllers and Solutions for Rack and Tower Servers.

Table 19. The following table lists the supported Remote Access Controllers and Solutions for Rack and Tower Servers

Dell System	DRACs		BMC FW Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC FW		
R210	iDRAC6	2.85	1.92	2.0
R210 II	iDRAC6	2.85	1.95	2.0
R310	iDRAC6	2.85	1.92	2.0
R410	iDRAC6	2.85	1.92	2.0

Table 19. The following table lists the supported Remote Access Controllers and Solutions for Rack and Tower Servers

Dell System	DRACs		BMC FW Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC FW		
R415	iDRAC6	2.85	1.95	2.0
R510	iDRAC6	2.85	1.92	2.0
R515	iDRAC6	2.85	1.92	2.0
R610	iDRAC6	2.85	N/A	2.0
R710	iDRAC6	2.85	N/A	2.0
R715	iDRAC6	2.85	N/A	2.0
R810	iDRAC6	2.85	N/A	2.0
R815	iDRAC6	2.85	N/A	2.0
R910	iDRAC6	2.85	N/A	2.0
T110	No iDRAC support		1.92	2.0
T110 II	No iDRAC support		1.95	2.0
T310	iDRAC6	2.85	1.92	2.0
T410	iDRAC6	2.85	1.92	2.0
T610	iDRAC6	2.85	N/A	2.0
T710	iDRAC6	2.85	N/A	2.0
PowerVault DL2200	iDRAC6	1.99	N/A	2.0
PowerVault DX6000	iDRAC6	1.99	N/A	2.0
PowerVault NX200	iDRAC6	1.99	N/A	2.0
PowerVault NX300	iDRAC6	1.99	N/A	2.0
PowerVault NX3000	iDRAC6	1.99	N/A	2.0
PowerVault NX3100	iDRAC6	1.99	N/A	2.0
R220	iDRAC7	2.40.40.40	N/A	2.0
R320	iDRAC7	2.40.40.40	N/A	2.0
R420	iDRAC7	2.40.40.40	N/A	2.0
R520	iDRAC7	2.40.40.40	N/A	2.0
R620	iDRAC7	2.40.40.40	N/A	2.0
R720	iDRAC7	2.40.40.40	N/A	2.0
R720XD	iDRAC7	2.40.40.40	N/A	2.0

Table 19. The following table lists the supported Remote Access Controllers and Solutions for Rack and Tower Servers

Dell System	DRACs		BMC FW Version	Supported IPMI Protocol Versions
	DRAC Type	Supported DRAC FW		
R820	iDRAC7	2.40.40.40	N/A	2.0
R920	iDRAC7	2.40.40.40	N/A	2.0
T320	iDRAC7	2.40.40.40	N/A	2.0
T420	iDRAC7	2.40.40.40	N/A	2.0
T620	iDRAC7	2.40.40.40	N/A	2.0
PowerVault NX400		2.40.40.40		
PowerVault NX3200		2.40.40.40		
PowerVault DL2100	iDRAC6	1.99	1.95	2.0
PowerVault NX3300		2.40.40.40		
EqualLogic FS7500	iDRAC6	1.99	1.95	2.0
R730	iDRAC8	2.40.40.40	N/A	2.0
R730 XD	iDRAC8	2.40.40.40	N/A	2.0
R830	iDRAC8	2.40.40.40	N/A	2.0
R630	iDRAC8	2.40.40.40	N/A	2.0
T630	iDRAC8	2.40.40.40	N/A	2.0
R430	iDRAC8	2.40.40.40	N/A	2.0
R530	iDRAC8	2.40.40.40	N/A	2.0
R530xd	iDRAC8	2.40.40.40	N/A	2.0
T430	iDRAC8	2.40.40.40	N/A	2.0
R7910	iDRAC8	2.40.40.40	N/A	2.0
C4130		2.40.40.40	N/A	2.0
R930	iDRAC8	2.40.40.40	2.50	2.0
R330	iDRAC8	2.40.40.40	2.50	2.0
R230	iDRAC8	2.40.40.40	2.50	2.0
T330	iDRAC8	2.40.40.40	2.50	2.0
T130	iDRAC8	2.40.40.40	2.50	2.0

Lifecycle Controller — Supported Dell Systems and Operating Systems

The Dell Lifecycle Controller provides advanced embedded systems management and is delivered as part of integrated Dell Remote Access Controller (iDRAC) and embedded Unified Extensible Firmware Interface (UEFI) applications in the 12th and 13th generation of Dell PowerEdge servers.

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

Beginning with v2.10.10.10, iDRAC with Lifecycle Controller firmware is supported on both 12th and 13th generation of Dell PowerEdge servers.

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

- **Lifecycle Controller GUI 2.40.40.40** — Lifecycle Controller GUI supports systems management tasks such as deploy, configure, update, maintain, and diagnose in a one-to-one method.
- **Lifecycle Controller-Remote Services 2.40.40.40** — Remote Services (WS-MAN) simplifies end-to-end server lifecycle management using the one-to-many method. It interfaces for remote deployment integrated with Dell OpenManage Essentials and partner consoles.

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

Supported Dell Systems and Windows Operating Systems for Lifecycle Controller 2.40.40.40

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

NOTE: Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.

NOTE: Lifecycle Controller is not supported on Windows Storage Server operating systems.

Supported Dell Systems and Linux Operating Systems for Lifecycle Controller 2.40.40.40

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

NOTE: Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.

Supported Dell Systems and Virtualization Operating Systems for Lifecycle Controller 2.40.40.40

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

NOTE: Lifecycle controller is not supported on Dell PowerEdge T110 and T110II.

Supported web browsers for Out-of-Band management and monitoring

The list of supported web browsers for iDRDAC7 and iDRAC8 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server, and Macintosh operating systems.

Table 20. Supported web browsers for iDRAC8 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server (SLES), and Macintosh operating systems

Operating System	Internet Explorer (64-bit)			Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	9	10	11		35, 36, 40	41, 42 ,45	7.1 and 8.0
Windows 7 SP2 (32-bit)	X	X			X		
Windows 7 SP2 (64-bit)	X	X			X		
Windows 8 SP1 (32-bit)		X			X	X	
Windows 8 SP1 (64-bit)		X			X	X	
Macintosh OSX10.7 (Lion)							X
Macintosh OSX10.8 (MountainLion)							X
Windows Server2008 R2 SP2 (32-bit)	X				X		
Windows Server2008 R2 SP2 (64-bit)	X				X		
Windows Server2008 R2 SP1 (64-bit)	X	X	X		X		
Windows Server2012 (64-bit)		X	X		X		
Windows Server2012 R2 standard edition (64-bit)		X	X		X		
Windows Server 2016				X			
SLES 11 SP3 (64 bit)	Native Mozilla Firefox Web Browsers						
SLES 11 SP4 (64 bit)	Native Mozilla Firefox Web Browsers						
SLES 12 (64 bit)	Native Mozilla Firefox Web Browsers						
SLES 12 SP1	Native Mozilla Firefox Web Browsers						
Red Hat enterprise Linux 6.5 (64-bit)	Native Mozilla Firefox Web Browsers						
Red Hat enterprise Linux 6.7 (64-bit)	Native Mozilla Firefox Web Browsers						
Red Hat enterprise Linux 7.0 (64-bit)	Native Mozilla Firefox Web Browsers						
Red Hat enterprise Linux 7.1 (64-bit)	Native Mozilla Firefox Web Browsers						
Red Hat enterprise Linux 7.2	Native Mozilla Firefox Web Browsers						

4

Supported Dell OpenManage Change Management Software

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

Dell OpenManage change management software comprises of:

- Dell Update Packages
- Server Update Utility
- Dell System Update Repository — Formerly known as Yellow Dog Update Modified Repository
- FTP Catalog
- Dell System Update Linux Repository
- **Dell Update Packages** - A Dell Update Package (DUP) is a self-contained executable in a standard package format. Each DUP is designed to update a single software component on a Dell system.

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

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

- **FTP Catalog** With Repository Manager, you can use the FTP catalog to identify and gather updates relevant to the system in your Data Center. The FTP catalog contain updates for 10th, 11th, 12th and 13th generation of Dell PowerEdge systems.
- **Dell System Update** - Dell System Update (DSU) is an improved version of Dell OpenManage Linux Repository (DLR) to distribute Dell updates for Linux systems. DSU distributes OpenManage Server Administrator and BIOS and Firmware updates for different servers. DSU provides a better customer experience by getting the latest updates to your system.

NOTE: The list provides the details of the supported platforms against the operating systems for other change management products that are aligned with the latest OpenManage release. For the latest list of operating systems and platforms supported by DSU, see Dell System Update.

Topics:

- 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

Supported Change Management Software on Microsoft Windows Operating Systems

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

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

A ' **V** ' in the intersection of the operating system and the Dell system columns indicates support only in a virtual machine and not as a host operating 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.

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

NOTE: DSS1500, DSS1510, and DSS2500 are supported only by SUU of Change management and not supported by OM.

The following table lists the supported Dell OpenManage 8.4 change management software on systems running supported Microsoft Windows operating systems.

Table 21. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 (includes all services packs)	Microsoft Windows Small Business Server 2011	Microsoft Windows Small Business Server 2011	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Essentials, DataCenter, and Web	Essentials	Standard, Premium Add-on	Foundation, Essentials, Standard, DataCenter
M610	D,S	D,S	D,S	D,S
M610x	D,S	D,S	D,S	D,S
M710	D,S	D,S	D,S	D,S
M710HD	D,S	D,S	D,S	D,S
M910	D,S	D,S	D,S	D,S
M915	D,S	D,S	D,S	D,S
R210	D,S	D,S	D,S	D,S
R210 II	D,S	D,S	D,S	D,S
R310	D,S	D,S	D,S	D,S
R410	D,S	D,S	D,S	D,S
R415	D,S	D,S	D,S	D,S
R510	D,S	D,S	D,S	D,S
R515	D,S	D,S	D,S	D,S
R610	D,S	D,S	D,S	D,S
R710	D,S	D,S	D,S	D,S
R715	D,S	D,S	D,S	D,S
R810	D,S	D,S	D,S	D,S
R815	D,S	D,S	D,S	D,S
R910	D,S	D,S	D,S	D,S
T110	D,S	D,S	D,S	D,S
T110 II	D,S	D,S	D,S	D,S
T310	D,S	D,S	D,S	D,S
T410	D,S	D,S	D,S	D,S
T610	D,S	D,S	D,S	D,S

Table 21. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 (includes all services packs)	Microsoft Windows Small Business Server 2011	Microsoft Windows Small Business Server 2011	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Essentials, DataCenter, and Web	Essentials	Standard, Premium Add-on	Foundation, Essentials, Standard, DataCenter
T710	D,S	D,S	D,S	D,S
PowerVault DL2200	D,S	D,S	D,S	D,S
PowerVault DX6000	D,S	D,S	D,S	D,S
PowerVault NX200	*	D,S	*	D,S
PowerVault NX300	*		*	D,S
PowerVault NX3000	D,S	D,S	D,S	D,S
PowerVault NX3100	D	D	D	D
PowerVault NX1950	D,S	D,S	D,S	D,S
PowerVault NX3500	*	*	*	*
PowerVault NX3610	*	*	*	*
PowerVault NX3230	D,S	D,S	D,S	D,S
PowerVault NX3330	D,S	D,S	D,S	D,S
PowerVault NX430	D,S	D,S	D,S	D,S
M420	D,S	D,S	D,S	D,S
M520	D,S	D,S	D,S	D,S
M620	D,S	D,S	D,S	D,S
M820	D,S	D,S	D,S	D,S
R220	D,S	D,S	D,S	D,S
R320	D,S	D,S	D,S	D,S
R420	D,S	D,S	D,S	D,S
R520	D,S	D,S	D,S	D,S
R620	D,S	D,S	D,S	D,S

Table 21. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 (includes all services packs)	Microsoft Windows Small Business Server 2011	Microsoft Windows Small Business Server 2011	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Essentials, DataCenter, and Web	Essentials	Standard, Premium Add-on	Foundation, Essentials, Standard, DataCenter
R720	D,S	D,S	D,S	D,S
R720XD	D,S	D,S	D,S	D,S
R820	D,S	D,S	D,S	D,S
R920	D,S	D,S	D,S	D,S
T320	D,S	D,S	D,S	D,S
T420	D,S	D,S	D,S	D,S
T620	D,S	D,S	D,S	D,S
PowerVault NX400	D	D	D	D
PowerVault NX3200	D	D	D	D
PowerVault NX3300	D	D	D	D
R730	D,S	D,S	D,S	D,S
R730 XD	D,S	D,S	D,S	D,S
R630	D,S	D,S	D,S	D,S
T630	D,S	D,S	D,S	D,S
R430	D,S	D,S	D,S	D,S
R530	D,S	D,S	D,S	D,S
R930	D,S	D,S	D,S	D,S
T430	D,S	D,S	D,S	D,S
M630	D,S	D,S	D,S	D,S
FC630	D,S	D,S	D,S	D,S
C4130	D,S	D,S	D,S	D,S
M830	D,S	D,S	D,S	D,S
FC830	D,S	D,S	D,S	D,S
FC430	D,S	D,S	D,S	D,S

Table 21. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell System	Microsoft Windows Server 2008 R2 x64 (includes all services packs)	Microsoft Windows Small Business Server 2011	Microsoft Windows Small Business Server 2011	Microsoft Windows Server 2012 and 2012 R2
	Foundation, Standard, Essentials, DataCenter, and Web	Essentials	Standard, Premium Add-on	Foundation, Essentials, Standard, DataCenter
C6320				S
DSS1500				S
DSS1510				S
DSS2500				S
R330	D,S	D,S	D,S	D,S
R230	D,S	D,S	D,S	D,S
T330	D,S	D,S	D,S	D,S
T130	D,S	D,S	D,S	D,S
R830	D,S	D,S	D,S	D,S

Table 22. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Storage Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2
	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise
M610	D,S	D,S
M610x	D,S	D,S
M710	D,S	D,S
M710HD	D,S	D,S
M910	D,S	D,S
M915	D,S	D,S
R210	D,S	D,S
R210 II	D,S	D,S
R310	D,S	D,S
R410	D,S	D,S
R415	D,S	D,S
R510	D,S	D,S

Table 22. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Storage Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2
	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise
R515	D,S	D,S
R610	D,S	D,S
R710	D,S	D,S
R715	D,S	D,S
R810	D,S	D,S
R815	D,S	D,S
R910	D,S	D,S
T110	D,S	D,S
T110 II	D,S	D,S
T310	D,S	D,S
T410	D,S	D,S
T610	D,S	D,S
T710	D,S	D,S
PowerVault DL2200	D,S	D,S
PowerVault DX6000	D,S	D,S
PowerVault NX200	D,S	D,S
PowerVault NX300	D,S	D,S
PowerVault NX3000	D,S	D,S
PowerVault NX3100	D	D
PowerVault NX1950	D,S	D,S
PowerVault NX3500	*	*
PowerVault NX3610	*	*

Table 22. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Storage Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2
	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise
PowerVault NX3230	D,S	D,S
PowerVault NX3330	D,S	D,S
PowerVault NX430	D,S	D,S
M420	D,S	D,S
M520	D,S	D,S
M620	D,S	D,S
M820	D,S	D,S
R220	D,S	D,S
R320	D,S	D,S
R420	D,S	D,S
R520	D,S	D,S
R620	D,S	D,S
R720	D,S	D,S
R720XD	D,S	D,S
R820	D,S	D,S
R920	D,S	D,S
T320	D,S	D,S
T420	D,S	D,S
T620	D,S	D,S
PowerVault NX400	D	D
PowerVault NX3200	D	D
PowerVault NX3300	D	D
R730	V	D,S
R730 XD	V	D,S

Table 22. Supported Dell OpenManage Change Management Software on Systems Running Supported Microsoft Windows Storage Server Operating Systems

Dell System	Microsoft Windows Storage Server 2008 SP2	Microsoft Windows Storage Server 2008 R2
	Basic, Standard, Enterprise, and Workgroup	Express, Workgroup, Standard, and Enterprise
R630	V	D,S
T630	V	D,S
R430	V	D,S
R530	V	D,S
R930	V	D,S
T430	V	D,S
M630	V	D,S
FC630	V	D,S
C4130	V	D,S
M830	V	D,S
FC830	V	D,S
FC430	V	D,S
C6320		S
DSS1500		S
DSS1510		S
DSS2500		S
R330	V	
R230	V	
T330	V	
T130	V	
R830	V	D,S

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

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

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

Supported Change Management Software on Linux Operating Systems

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

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

A ' **L** ' in the intersection of the operating system and the Dell system columns indicates support for Dell System Update Linux Repository information — Formerly known as Dell System Update repository.

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

The following table lists the supported Dell OpenManage 8.5 change management software on systems running supported Linux operating systems.

Table 23. Supported Dell OpenManage Change Management Software on Systems Running Supported SUSE Linux Enterprise Server Operating Systems

Dell System	SUSE Linux Enterprise Server 10 SP3 (64-bit) and SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1, SP2, and SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1 (64-bit)
M610	D,S,L	D,S,L		
M610x	D,S,L	D,S,L		
M710	D,S,L	D,S,L		
M710HD	D,S,L	D,S,L		
M910	D,S,L	D,S,L		
M915	D,S,L	D,S,L		
R210	D,S,L	D,S,L		
R210 II	D,S,L	D,S,L		
R310	D,S,L	D,S,L		
R410	D,S,L	D,S,L		
R415	D,S,L	D,S,L		
R510	D,S,L	D,S,L		
R515	D,S,L	D,S,L		
R610	D,S,L	D,S,L		
R710	D,S,L	D,S,L		
R715	D,S,L	D,S,L		
R810	D,S,L	D,S,L		
R815	D,S,L	D,S,L		

Table 23. Supported Dell OpenManage Change Management Software on Systems Running Supported SUSE Linux Enterprise Server Operating Systems

Dell System	SUSE Linux Enterprise Server 10 SP3 (64-bit) and SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1, SP2, and SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1 (64-bit)
R910	D,S,L	D,S,L		
T110	D,S,L	D,S,L		
T110 II	D,S,L	D,S,L		
T310	D,S,L	D,S,L		
T410	D,S,L	D,S,L		
T610	D,S,L	D,S,L		
T710	D,S,L	D,S,L		
PowerVault DL2200	D,S,L	D,S,L		
PowerVault DX6000	D,S,L	D,S,L		
PowerVault NX200	D,S,L	D,S,L		
PowerVault NX300	D,S,L	D,S,L		
PowerVault NX3000	D,S,L	D,S,L		
PowerVault NX3100	D,S,L	D,S,L		
M420	D,S,L	D,S,L	D,S,L	D,S,L
M520	D,S,L	D,S,L	D,S,L	D,S,L
M620	D,S,L	D,S,L	D,S,L	D,S,L
M820	D,S,L	D,S,L	D,S,L	D,S,L
R220	D,S,L	D,S,L	D,S,L	D,S,L
R320	D,S,L	D,S,L	D,S,L	D,S,L
R420	D,S,L	D,S,L	D,S,L	D,S,L
R520	D,S,L	D,S,L	D,S,L	D,S,L
R620	D,S,L	D,S,L	D,S,L	D,S,L
R720	D,S,L	D,S,L	D,S,L	D,S,L
R720XD	D,S,L	D,S,L	D,S,L	D,S,L
R820	D,S,L	D,S,L	D,S,L	D,S,L
R920	D,S,L	D,S,L	D,S,L	D,S,L
T320	D,S,L	D,S,L	D,S,L	D,S,L

Table 23. Supported Dell OpenManage Change Management Software on Systems Running Supported SUSE Linux Enterprise Server Operating Systems

Dell System	SUSE Linux Enterprise Server 10 SP3 (64-bit) and SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1, SP2, and SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1 (64-bit)
T420	D,S,L	D,S,L	D,S,L	D,S,L
T620	D,S,L	D,S,L	D,S,L	D,S,L
PowerVault NX400	D,S,L	D,S,L	D,S,L	D,S,L
PowerVault NX3200	D,S,L	D,S,L	D,S,L	D,S,L
PowerVault NX3300	D,S,L	D,S,L	D,S,L	D,S,L
FM120	D,S,L	D,S,L	D,S,L	D,S,L
R730		D,S,L (SP4 only)	D,S,L	D,S,L
R730 XD		D,S,L	D,S,L	D,S,L
R630		D,S,L	D,S,L	D,S,L
T630		D,S,L	D,S,L	D,S,L
R430		D,S,L	D,S,L	D,S,L
R530		D,S,L	D,S,L	D,S,L
R930		D,S,L	D,S,L	D,S,L
T430		D,S,L	D,S,L	D,S,L
M630		D,S,L	D,S,L	D,S,L
FC630		D,S,L	D,S,L	D,S,L
C4130		D,S,L	D,S,L	D,S,L
M830		D,S,L	D,S,L	D,S,L
FC830		D,S,L	D,S,L	D,S,L
FC430		D,S,L	D,S,L	D,S,L
R330		D,S,L (SP4 only)	D,S,L	D,S,L
R230		D,S,L (SP4 only)	D,S,L	D,S,L
T330		D,S,L (SP4 only)	D,S,L	D,S,L
T130		D,S,L (SP4 only)	D,S,L	D,S,L
R830		D,S,L (SP4 only)	D,S,L	D,S,L
C6320				

Table 24. Supported Dell OpenManage Change Management Software on Systems Running Supported Red Hat Enterprise Linux Operating Systems

Dell System	Red Hat Enterprise Linux 6.x	Red Hat Enterprise Linux 7.x
M610	D,S,L	
M610x	D,S,L	
M710	D,S,L	
M710HD	D,S,L	
M910	D,S,L	
M915	D,S,L	
R210	D,S,L	
R210 II	D,S,L	
R310	D,S,L	
R410	D,S,L	
R415	D,S,L	
R510	D,S,L	
R515	D,S,L	
R610	D,S,L	
R710	D,S,L	
R715	D,S,L	
R810	D,S,L	
R815	D,S,L	
R910	D,S,L	
T110	D,S,L	
T110 II	D,S,L	
T310	D,S,L	
T410	D,S,L	
T610	D,S,L	
T710	D,S,L	
PowerVault DL2200	D,S,L	
PowerVault DX6000	D,S,L	
PowerVault NX200	D,S,L	
PowerVault NX300	D,S,L	

Table 24. Supported Dell OpenManage Change Management Software on Systems Running Supported Red Hat Enterprise Linux Operating Systems

Dell System	Red Hat Enterprise Linux 6.x	Red Hat Enterprise Linux 7.x
PowerVault NX3000	D,S,L	
PowerVault NX3100	D,S,L	
M420	D,S,L	D,S,L
M520	D,S,L	D,S,L
M620	D,S,L	D,S,L
M820	D,S,L	D,S,L
R220	D,S,L	D,S,L
R320	D,S,L	D,S,L
R420	D,S,L	D,S,L
R520	D,S,L	D,S,L
R620	D,S,L	D,S,L
R720	D,S,L	D,S,L
R720XD	D,S,L	D,S,L
R820	D,S,L	D,S,L
R920	D,S,L	D,S,L
T320	D,S,L	D,S,L
T420	D,S,L	D,S,L
T620	D,S,L	D,S,L
PowerVault NX400	D,S,L	D,S,L
PowerVault NX3200	D,S,L	D,S,L
PowerVault NX3300	D,S,L	D,S,L
FM120	D,S,L	D,S,L
R730	D,S,L	D,S,L
R730 XD	D,S,L	D,S,L
R630	D,S,L	D,S,L
T630	D,S,L	D,S,L
R430	D,S,L	D,S,L
R530	D,S,L	D,S,L
R930	D,S,L	D,S,L

Table 24. Supported Dell OpenManage Change Management Software on Systems Running Supported Red Hat Enterprise Linux Operating Systems

Dell System	Red Hat Enterprise Linux 6.x	Red Hat Enterprise Linux 7.x
T430	D,S,L	D,S,L
M630	D,S,L	D,S,L
FC630	D,S,L	D,S,L
C4130	D,S,L	D,S,L
M830	D,S,L	D,S,L
FC830	D,S,L	D,S,L
FC430	D,S,L	D,S,L
R330	D,S,L	D,S,L
R230	D,S,L	D,S,L
T330	D,S,L	D,S,L
T130	D,S,L	D,S,L
R830	D,S,L	D,S,L
C6320	D,S,L	D,S,L

Supported Change Management Software on Virtualization Operating Systems

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

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

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

NOTE: You can install OMSA using VIB file on Embedded VMware (ESXi) operating systems.

NOTE: DUPs are not supported on ESXi operating systems.

The following table lists the supported Dell OpenManage 8.4 change management software on systems running supported Virtualization operating systems.

Table 25. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware

Dell Systems	VMware						
	ESXi 5.0 U1	ESXi 5.1 U3	ESXi 5.1	ESXi 5.5	ESXi 5.5 U3	ESXi 6.0 U1	ESXi 6.0 U2
M600	*		*	*		*	
M605	*		*	*		*	
M805	*		*	*		*	
M905	*		*	*		*	

Table 25. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware

Dell Systems	VMware						
	ESXi 5.0 U1	ESXi 5.1 U3	ESXi 5.1	ESXi 5.5	ESXi 5.5 U3	ESXi 6.0 U1	ESXi 6.0 U2
R200	*		*	*		*	
R300	*		*	*		*	
R805	*		*	*		*	
R900	*		*	*		*	
R905	*		*	*		*	
T100	*		*	*		*	
T105	*		*	*		*	
T300	*		*	*		*	
T605	*	*	*	*		*	
M610	*	*	*	*		*	
M610x	*	*	*	*		*	
M710	*	*	*	*		*	
M710HD	*	*	*	*		*	
M910	*	*	*	*		*	
M915	*	*	*	*		*	
R210	*	*	*	*		*	
R210 II	*	*	*	*		*	
R310	*	*	*	*		*	
R410	*	*	*	*		*	
R415	*	*	*	*		*	
R510	*	*	*	*		*	
R515	*	*	*	*		*	
R610	*	*	*	*		*	
R710	*	*	*	*		*	
R715	*	*	*	*		*	
R810	*	*	*	*		*	
R815	*	*	*	*		*	
R910	*	*	*	*		*	

Table 25. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware

Dell Systems	VMware						
	ESXi 5.0 U1	ESXi 5.1 U3	ESXi 5.1	ESXi 5.5	ESXi 5.5 U3	ESXi 6.0 U1	ESXi 6.0 U2
T110	*	*	*	*		*	
T110 II	*	*	*	*		*	
T310	*	*	*	*		*	
T410	*	*	*	*		*	
T610	*	*	*	*		*	
T710	*	*	*	*		*	
PowerVault DL2200	*		*	*		*	
PowerVault DX6000	*		*	*		*	
M420	*		*	*		*	
M520	*		*	*		*	
M620	*		*	*		*	
M820	*		*	*		*	
R220	*		*	*		*	
R320	*		*	*		*	
R420	*		*	*		*	
R520	*		*	*		*	
R620	*		*	*		*	
R720	*		*	*		*	
R720XD	*		*	*		*	
R820	*		*	*		*	
R920	*		*	*		*	
T320	*		*	*		*	
T420	*		*	*		*	
T620	*		*	*		*	
R730	*		*	*		*	
R730 XD	*		*	*		*	
R630	*		*	*		*	

Table 25. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware

Dell Systems	VMware						
	ESXi 5.0 U1	ESXi 5.1 U3	ESXi 5.1	ESXi 5.5	ESXi 5.5 U3	ESXi 6.0 U1	ESXi 6.0 U2
T630	*		*	*		*	
R430	*		*	*		*	
R530	*		*	*		*	
R930	*		*	*		*	
T430	*		*	*		*	
M630	*		*	*		*	
FC630	*		*	*		*	
C4130	*		*	*		*	
M830	*		*	*		*	
FC830	*		*	*		*	
FC430	*		*	*		*	
R330					*	*	
R230					*	*	
T330					*	*	
T130					*	*	
C6320							
R830	*		*	*		*	

Table 26. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for Microsoft Hyper—V

Dell Systems	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
M600	D,S	D,S
M605	D,S	D,S
M805	D,S	D,S
M905	D,S	D,S
R200	D,S	D,S
R300	D,S	D,S
R805	D,S	D,S
R900	D,S	D,S

Table 26. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for Microsoft Hyper—V

Dell Systems	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
R905	D,S	D,S
T100	D,S	D,S
T105	D,S	D,S
T300	D,S	D,S
T605	D,S	D,S
M610	D,S	D,S
M610x	D,S	D,S
M710	D,S	D,S
M710HD	D,S	D,S
M910	D,S	D,S
M915	D,S	D,S
R210	D,S	D,S
R210 II	D,S	D,S
R310	D,S	D,S
R410	D,S	D,S
R415	D,S	D,S
R510	D,S	D,S
R515	D,S	D,S
R610	D,S	D,S
R710	D,S	D,S
R715	D,S	D,S
R810	D,S	D,S
R815	D,S	D,S
R910	D,S	D,S
T110	D,S	D,S
T110 II	D,S	D,S
T310	D,S	D,S
T410	D,S	D,S

Table 26. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for Microsoft Hyper—V

Dell Systems	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
T610	D,S	D,S
T710	D,S	D,S
PowerVault DL2200	D,S	D,S
PowerVault DX6000	D,S	D,S
PowerVault NX200		
PowerVault NX300	D,S	D,S
PowerVault NX3000	D,S	D,S
PowerVault NX3100		
PowerVault NX1950	D,S	D,S
PowerVault NX 3230	D,S	D,S
PowerVault NX3330	D,S	D,S
PowerVault NX430	D,S	D,S
M420	D,S	D,S
M520	D,S	D,S
M620	D,S	D,S
M820	D,S	D,S
R220	D,S	D,S
R320	D,S	D,S
R420	D,S	D,S
R520	D,S	D,S
R620	D,S	D,S
R720	D,S	D,S
R720XD	D,S	D,S
R820	D,S	D,S
R920	D,S	D,S
T320	D,S	D,S
T420	D,S	D,S
T620	D,S	D,S

Table 26. Supported Dell OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for Microsoft Hyper—V

Dell Systems	Microsoft	
	Hyper-V for Windows 2008	Hyper-V R2 SP1 for Windows 2008
PowerVault NX400	D	D
PowerVault NX3200	D	D
PowerVault NX3300	D	D
R730	D,S	D,S
R730 XD	D,S	D,S
R630	D,S	D,S
T630	D,S	D,S
R430	D,S	D,S
R530	D,S	D,S
R930	D,S	D,S
T430	D,S	D,S
M630	D,S	D,S
FC630	D,S	D,S
C4130	D,S	D,S
M830	D,S	D,S
FC830	D,S	D,S
FC430	D,S	D,S
C6320		D,S
DSS1500		D,S
DSS1510		D,S
DSS2500		D,S
R330	D,S	D,S
R230	D,S	D,S
T330	D,S	D,S
T130	D,S	D,S
R830	D,S	D,S
R930	D,S	D,S

NOTE: DSS1500, DSS1510, and DSS2500 are supported only by SUU of Change management and not supported by OM.

5

Dell OpenManage Systems Management tools for in-band and out-of-band access

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

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

Topics:

- Supported Microsoft Windows Pre-installation Environment for Deployment Toolkit v5.4
- DRAC tools that include RACADM, VMCLI, and iVMCLI
- Supported Microsoft Windows Operating Systems for IPMITool In-Band
- Supported Linux Operating Systems for IPMITool In-Band
- Supported Microsoft Windows Operating Systems for IPMITool Out-of-Band
- Supported Linux Operating Systems for IPMITool Out-of-Band
- Supported Microsoft Windows Operating Systems for IPMITool BMU
- Supported Linux Operating Systems for IPMITool BMU
- Supported Virtualization Operating Systems for IPMITool BMU

Supported Microsoft Windows Pre-installation Environment for Deployment Toolkit v5.4

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

Table 27. Supported Microsoft Windows Pre-installation Environment for Dell Deployment Tool kit (DTK)

	Windows Preinstallation Environment 5.1	Windows Preinstallation Environment 4.0	Windows Preinstallation Environment 3.0	Windows Preinstallation Environment 3.0
	(64-bit)	(64-bit)	(64-bit)	(32-bit)
DTK	X	X	X	X

DRAC tools that include RACADM, VMCLI, and iVMCLI

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

Supported Microsoft Windows Operating Systems for the RACADM Utility

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

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

Table 28. Supported Microsoft Windows Server Operating Systems for RACADM

	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Microsoft Windows Server 2012 and 2012 R2
	(32-bit and 64- bit)	(64-bit)	
Service Pack	SP2	N/A	N/A
Remote RACADM	X	X	X
Local RACADM	X	X	X

Table 29. Supported Microsoft Windows Operating Systems for RACADM

	Microsoft Windows XP	Microsoft Windows Vista	Microsoft Windows 7.0
	(32-bit)	(32-bit and 64- bit)	(32-bit and 64-bit)
Service Pack	SP3	SP2	N/A
Remote RACADM	X	X	X
Local RACADM	N/A	N/A	N/A

Supported Linux Operating Systems for the RACADM Utility

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

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

Table 30. Supported SUSE Linux Enterprise Server Operating Systems for RACADM

	SUSE Linux Enterprise Server 11 (64-bit)	SUSE Linux Enterprise Server 12 SP1
Service Pack	SP4	SP1
Remote RACADM	X	X
Local RACADM	X	X

Table 31. Supported Red Hat Enterprise Linux Enterprise Server Operating Systems for RACADM

	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7(64-bit)	Red Hat Enterprise Linux 7.1 (64-bit)	Red Hat Enterprise Linux 7.2
Service Pack	N/A	N/A	N/A	N/A	N/A	N/A
Remote RACADM	X	X	X	X	X	X
Local RACADM	X	X	X	X	X	X

Supported Virtualization Operating Systems For The RACADM Utility

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

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

Table 32. Supported VMware Operating Systems for RACADM

Table 32. Supported VMware Operating Systems for RACADM

	VMware											
	ESX 4.1 U3	**ESXi 4.1 U3**	**ESXi 5.0 U1**	**ESXi 5.0 U3**	**ESXi 5.1 U2**	**ESXi 5.1 U3**	**ESXi 5.5 (Flash, HDD)**	**ESXi 5.5 U3**	**ESXi 6.0 U1**	**vSphere v4.1 U3**	**vSphere v5.0 U2**	**vSphere v5.1 U1**
Remote RACADM	X	X	X	X	X	X	X	X	X	X	X	X
Local RACADM	X	X	N/A	X	N/A	X	X	X	X	X	X	X

Table 33. Supported Microsoft Operating Systems for RACADM

	Microsoft			
	Hyper-V for Windows 2008	**Hyper-V R2 SP1 for Windows 2008**	**Hyper-V for Windows 2012**	**Hyper-V for Windows 2012 R2**
Remote RACADM	X	X	X	X
Local RACADM	X	X	X	X

Supported Microsoft Windows Operating Systems for VMCLI and iVMCLI

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

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

Table 34. Supported Microsoft Windows Server Operating Systems for VMCLI and iVMCLI

	Microsoft Windows Server 2008 (32-bit and 64- bit)	Microsoft Windows Server 2008 R2 (64-bit)	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
Service Pack	SP1/SP2	SP1/SP2		
VMCLI and iVMCLI	X	X	X	X

Table 35. Supported Microsoft Windows Operating Systems for VMCLI and iVMCLI

	Microsoft Windows XP (32-bit)	Microsoft Windows Vista (32-bit and 64-bit)	Microsoft Windows 7.0 (32-bit)	Microsoft Windows 7.0 (64-bit)
Service Pack	SP3	SP2		
VMCLI and iVMCLI	X	X	X	X

Supported Linux Operating Systems for the VMCLI and iVMCLI

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

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

Table 36. Supported Linux Operating Systems for VMCLI and iVMCLI

Table 36. Supported Linux Operating Systems for VMCLI and iVMCLI

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64- bit)	SUSE Linux Enterprise Server 12 SP1
VMCLI and iVMCLI	N/A	X	N/A	X	X	X	X

Table 37. Supported Linux Operating Systems for VMCLI and iVMCLI

	Red Hat Enterprise Linux 5.8 (32-bit and 64-bit)	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4(64-bit)
VMCLI and iVMCLI	X	X	X	X

Table 38. Supported Linux Operating Systems for VMCLI and iVMCLI

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7 (64-bit)	Red Hat Enterprise Linux 7.1 (64-bit)	Red Hat Enterprise Linux 7.2
VMCLI and iVMCLI	X	X	X	X	X

Supported Microsoft Windows Operating Systems for IPMITool In-Band

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

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

Table 39. Supported Microsoft Windows Server Operating Systems for IPMITool In-Band

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

Table 40. Supported Microsoft Windows Operating Systems for IPMITool In-Band

	Microsoft Windows XP (32-bit)	Microsoft Windows XP (32-bit and 64-bit)	Microsoft Windows 7.0 (32-bit)	Microsoft Windows 7.0 (64-bit)
Edition	SP3	SP2		
IPMITool	X			
IPMITool In-Band	X	X	X	X

Supported Linux Operating Systems for IPMITool In-Band

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

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

Table 41. Supported Linux Operating Systems for IPMITool In-Band

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1
IPMITool In-Band	X	X	X	X	X	X	X

Table 42. Supported Linux Operating Systems for IPMITool In-Band

	Red Hat Enterprise Linux 5.8 (32-bit)	Red Hat Enterprise Linux 5.8 (64-bit)	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)
IPMITool In-Band	X	X	X	X

Table 43. Supported Linux Operating Systems for IPMITool In-Band

	Red Hat Enterprise Linux 6.4 (64-bit)	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.1 (64-bit)	Red Hat Enterprise Linux 7.2
IPMITool In-Band	X	X	X	X	X

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

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

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

Table 44. Supported Microsoft Windows Server Operating Systems for BMU and IPMI Tool Out-of- Band

	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Microsoft Windows Server 2012	Microsoft Windows Server 2012 R2
	(64-bit)	(64-bit)		
Service Pack		SP1/SP2		
IPMITool Out-of- Band		X	X	X

Table 45. Supported Microsoft Windows Operating Systems for BMU and IPMI Tool Out-of- Band

	Microsoft Windows	Microsoft Windows	Microsoft Windows 7.0	Microsoft Windows 7.0
	XP (32-bit)	Vista (64- bit)	(32-bit)	(64-bit)
Service Pack	SP3	SP2		
IPMITool Out-of- Band	X	X	X	X

Supported Linux Operating Systems for IPMITool Out-of-Band

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

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

Table 46. Supported Linux Operating Systems for IPMITooll

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP4 (64-bit)	SUSE Linux Enterprise Server 12 (64-bit)	SUSE Linux Enterprise Server 12 SP1
IPMITool Out-of-Band	X	X	X	X	X	X	X

Table 47. Supported Linux Operating Systems for IPMITooll

	Red Hat Enterprise Linux 5.8 (32-bit and 64-bit)	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4 (64-bit)
IPMITool Out-of-Band	X	X	X	X

Table 48. Supported Linux Operating Systems for IPMITooll

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7 (64-bit)	Red Hat Enterprise Linux 7.1 (64-bit)	Red Hat Enterprise Linux 7.2
IPMITool Out-of-Band	X	X	X	X	X

Supported Microsoft Windows Operating Systems for IPMITool BMU

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

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

Table 49. Supported Microsoft Windows Server Operating Systems for IPMITool

	Microsoft Windows Server2008 (32-bit and 64- bit)	Microsoft Windows Server2008 R2 (64-bit)	Microsoft Windows Server2012	Microsoft Windows Server2012 R2
Service Pack	SP1/SP2	SP1/SP2		
IPMITool	X	X	X	X

Table 50. Supported Microsoft Windows Operating Systems for IPMITool

	Microsoft Windows XP (32-bit)	Microsoft Windows Vista (32-bit)	Microsoft Windows Vista (64-bit)	Microsoft Windows 7.0 (32-bit)	Microsoft Windows 7.0 (64-bit)
Service Pack	SP3	SP2	SP2		
IPMITool	X	X	X	X	X

Supported Linux Operating Systems for IPMITool BMU

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

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

Table 51. Supported Linux Operating Systems for IPMITool

	SUSE Linux Enterprise Server 10 SP3 (64-bit)	SUSE Linux Enterprise Server 10 SP4 (64-bit)	SUSE Linux Enterprise Server 11 SP1 (64-bit)	SUSE Linux Enterprise Server 11 SP2 (64-bit)	SUSE Linux Enterprise Server 11 SP4 (64-bit)	SUSE Linux Enterprise Server 12 SP4 (64-bit)	SUSE Linux Enterprise Server 12 SP1
IPMITool	X	X	X	X	X	X	X

Table 52. Supported Linux Operating Systems for IPMITool

	Red Hat Enterprise Linux 5.8 (32-bit and 64-bit)	Red Hat Enterprise Linux 5.9 (32-bit and 64-bit)	Red Hat Enterprise Linux 6.3 (64-bit)	Red Hat Enterprise Linux 6.4 (64-bit)
IPMITool	X	X	X	X

Table 53. Supported Linux Operating Systems for IPMITool

	Red Hat Enterprise Linux 6.5 (64-bit)	Red Hat Enterprise Linux 6.7 (64-bit)	Red Hat Enterprise Linux 7.1 (64-bit)	Red Hat Enterprise Linux 7.1
IPMITool	X	X	X	X

Supported Virtualization Operating Systems for IPMITool BMU

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

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

Table 54. Supported Virtualization operating systems for the IPMITool

Edition	VMware						
	ESXi 5.0 U1 and U3	ESXi 5.1 U2	ESXi 5.5 (flash, HDD)	ESXi 5.1 U3	ESXi 5.5 U2	ESXi 5.5 U3	ESXi 6.0 U1
IPMI Tool	X	X	X	X	X	X	X

Table 55. Supported Virtualization Operating Systems for IPMITool BMU

Microsoft			
Hyper -V for Windows 2008	Hyper-V R2 SP1 for Windows 2008	Hyper-V for Windows 2012	Hyper-V for Windows 2012 R2
X	X	X	X

6

Network Interface Controllers and Supported Operating Systems

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

The following table lists the NIC manufacturers and drivers version required for the supported operating systems in OpenManage 8.4.

Table 56. NIC Manufacturers and Drivers Required for Supported Microsoft Windows Operating Systems

NIC Product Name	Microsoft Windows	
	Microsoft Windows 2008 Family	Microsoft Windows Server 2012 Family
Broadcom NetXtreme Family of Adapters	20.2	20.2
Broadcom NetXtreme E-Series Family of Adapters	N/A	20.2
Intel Family of Adapters	17.0.0	17.5.0
QLogic FC & Classic CNAs Family of Adapters	5.3.29.801	5.3.29.801
QLogic formally Broadcom CNAs	19.0.0	19.0.0
Emulex Family of Adapters	9.0.1	9.0.1
Brocade Family of Adapters	3.2.3	3.2.3
Mellanox Family of ConnectX-3/ ConnectX-3 Pro Adapters (Ethernet only)	WinOF 5.10 (R2 only)	WinOF 5.10
Mellanox Family of ConnectX-4/ ConnectX-4 Lx Adapters (Ethernet only)	Not supported	WinOF-2 1.40

Table 57. NIC Manufacturers and Drivers Required for Supported Red Hat Enterprise Linux Operating Systems

NIC Product Name	Red Hat Enterprise Linux		
	7	7.1	7.2
Broadcom NetXtreme Family of Adapters	20.2	20.2	20.2
Broadcom NetXtreme E-Series Family of Adapters	20.2	20.2	20.2
Intel Family of Adapters	16.5.0	17.0.0	17.5.0
QLogic FC & Classic CNAs Family of Adapters	5.3.62	5.3.62	5.3.62
QLogic formally Broadcom CNAs	19.2.0	19.2.0	19.2.0
Emulex Family of Adapters	08.04.00	08.04.00	08.04.00
Brocade Family of Adapters	3.2.3	3.2.3	3.2.3
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 3.2-1.0.0.1	MLNX OFED 3.2-1.0.0.1	MLNX OFED 3.2-1.0.0.1

Table 58. NIC Manufacturers and Drivers Required for Supported SUSE Linux Enterprise Server Operating Systems

Table 58. NIC Manufacturers and Drivers Required for Supported SUSE Linux Enterprise Server Operating Systems

NIC Product Name	SUSE Linux Enterprise Server		
	11 SP4 (64–bit)	12	12 SP1
Broadcom NetXtreme Family of Adapters	20.2	20.2	20.2
Broadcom NetXtreme Family of Adapters	20.2 (SLES 11 SP4, x86_64)		20.2
Intel Family of Adapters	16.5.0	16.5.0	17.5.0
QLogic FC & Classic CNAs Family of Adapters	5.3.62	5.3.62	5.3.62
QLogic formally Broadcom CNAs	19.2.0	19.2.0	19.2.0
Emulex Family of Adapters	08.04.00 (SP3, SP4, x86_64)	08.04.00	08.04.00
Brocade Family of Adapters	3.2.3	3.2.3	3.2.3
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 3.2-1.0.0.1	MLNX OFED 3.2-1.0.0.1	MLNX OFED 3.2-1.0.0.1

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

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

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

Most of the systems management releases support management of RAID controllers in the form of PERC cards, and some systems management releases also support 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 *Server Administrator Storage Management User's Guide* at **dell.com/openmanagemanuals**.

The following types of controllers are included in this section:

- The RAID controller card group contains the following controllers: SAS 6/iR Integrated, PERC 6/E Adapter, PERC 6/i Adapter, PERC 6/i Integrated, PERC 6/i Modular, PERC H200 Adapter, PERC H200 Integrated, PERC H200 Modular, PERC H700, PERC H710 Adapter, H710P Adapter, H710P Mini, PERC H800, PERC H810 Adapter, PERC H830 Adapter, PERC H830 Mini Monolithic, PERC H730 Adapter, PERC H730 Mini Monolithic, PERC H730P Adapter, PERC H730P Mini Monolithic, PERC H330 Adapter, PERC H330 Mini Monolithic, PERC H330 Embedded, S130, SAS 6/iR Adapter, and SAS 12Gbps HBA, HBA H330 Adapter, HBA H330 Mini, FD33XD-PERC Dual, FD33XS-PERC single.

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 **dell.com/openmanagemanuals** for the Storage Management Service.

Topics:

- Linux Driver Included in RPM*
- PERC 6/i Adapter, Integrated, and Modular
- PERC 6/E Adapter
- SAS 6/iR Integrated and Adapter
- SAS 6/int Modular
- SAS 6 Gbps HBA
- LSI Logic 1020/1030 Ultra320 SCSI Adapter
- PERC H700 Adapter, Integrated, and Modular
- PERC H800 Adapter
- PERC H830 Adapter, Mini Monolithic
- PERC H200 Adapter, Integrated, and Modular
- PERC H310 Adapter, Mini Blade, and Mini Monolithic
- PERC H330 Adapter, Mini Monolithic, Embedded
- PERC H710 Adapter, Mini Blade, and Mini Monolithic
- PERC H710P Adapter, Mini Blade, and Mini Monolithic
- PERC H730 Adapter
- PERC H730P Adapter

- PERC H810 Adapter
- PERC S100
- PERC S110
- PERC S130
- FD33XS-PERC Single
- FD33XD-PERC Dual
- PERC S300
- Dell PowerEdge PCIe Express Flash SSD
- PERC HBA 330 Mini, Adapter
- SAS 12Gbps HBA
- Internal Tape Adapter

Linux Driver Included in RPM*

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

PERC 6/i Adapter, Integrated, and Modular

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

The PERC 6/i Integrated supports the following Dell PowerEdge systems: T410, T710, T310, R310, R210, R220, T110, R510, R810, R910, M910, R715, R815, R415, R515, R805, R900, T610, R410, R610, R710, M610, and M710.

The PERC 6/i Modular supports the following Dell PowerEdge systems: R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, R220, T110, R510, R810, R910, M910, R715, R815, R415, R515, R805, and R900.

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

Table 59. Storage Management Service Supported Elements: PERC 6/i Adapter, Integrated and Modular

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	6.3.3-0002	2.24.0.32	2.24.0.64	4.5.0.64	Native

Table 60. Storage Management Service Supported Elements: PERC 6/i Adapter, Integrated and Modular

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64-bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

PERC 6/E Adapter

The PERC 6/E Adapter supports the following Dell PowerEdge systems: R200, R220, R300, R805, R900, R905, T300, T610, R410, R610, R710, T410, M610, M710, T710, T310, R310, R210, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

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

The PERC 6/E Adapter supports six storage enclosures.

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

Table 61. Storage Management Service Supported Elements: PERC 6/E Adapter

Table 61. Storage Management Service Supported Elements: PERC 6/E Adapter

Storage Management Service Version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	6.3.3-0002	2.24.0.32	2.24.0.64	4.5.0.64	Native

Table 62. Storage Management Service Supported Elements: PERC 6/E Adapter

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

SAS 6/iR Integrated and Adapter

The SAS 6/iR Integrated supports the following Dell PowerEdge systems: R805, R900, M600, M605, M805, M905, T610, R410, R610, R710, M610, M710, R610, R710, T610, R410, T410, M610, M710, T710, T310, R310, R210, R220, T110, R510, R810, R910, M910, R715, R815, R415, and R515.

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

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

Table 63. Storage Management Service Supported Elements: SAS 6/iR Integrated and Adapter

Storage Management Service Version	Server Administrator Version	SAS Firmware/ BIOS Version	Windows Server 2008 Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	00.25.47.00/ 06.22.03.00	1.28.03.01 (32-bit) 1.28.03.01 (64-bit)	1.28.03.52	Native

Table 64. Storage Management Service Supported Elements: SAS 6/iR Integrated and Adapter

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native	Native

SAS 6/int Modular

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

Table 65. Storage Management Service Supported Elements: SAS 6/int Modular

Storage Management Service version	Server Administrator Version	SAS Firmware/BIOS Version
5.4	8.4	00.25.47.00/06.22.03.00

Table 66. Storage Management Service Supported Elements: SAS 6/int Modular

Windows Server 2008 Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver	Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
1.28.03.01 (32–bit)	1.28.03.52	Native	Native	Native	Native	Native	Native	Native

Table 66. Storage Management Service Supported Elements: SAS 6/int Modular

Windows Server 2008 Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver	Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
1.28.03.01 (64–bit)								

SAS 6 Gbps HBA

The SAS 6 Gbps HBA supports the following Dell PowerEdge systems: R805, R900, M600, M605, M805, M905, T610, R410, R610, R710, M610, M710, R200, R220, R300, R410, T105, T300, R905, T100, and T605.

The following tables list the other elements supported by the SAS 6 Gbps HBA.

Table 67. Storage Management Service Supported Elements: SAS 6 Gbps HBA

Storage Management Service version	Server Administrator Version	SAS Firmware/ BIOS Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	07.03.06.00	2.0.35.10	2.0.35.10	2.0.35.10	Native

Table 68. Storage Management Service Supported Elements: SAS 6 Gbps HBA

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native	Native	Native

LSI Logic 1020/1030 Ultra320 SCSI Adapter

LSI Logic 1020/1030 Ultra320 SCSI adapter supports the following Dell PowerEdge systems: R200, R220, R300, R900, R805, R905, T100, T105, T300, and T605.

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

Table 69. Storage Management Service Supported Elements: LSI Logic 1020/1030 Ultra320 SCSI Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware/BIOS Version
5.4	8.4	1.03.27.00.5.10.08.00.12

Table 70. Storage Management Service Supported Elements: LSI Logic 1020/1030 Ultra320 SCSI Adapter

Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.1 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

PERC H700 Adapter, Integrated, and Modular

The PERC H700 Adapter supports the following Dell PowerEdge systems: R220, R310, R410, R320, R420, R520, T310, T320, T410 and T420.

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

The PERC H700 Integrated supports the following Dell PowerEdge systems: R710, R815, R715, R510, T610, R610, T710, R410, T410, M610, M710, T710, T310, R310, R210, R220, T110, R810, R910, M910, R415, and R515.

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

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

Table 71. Dell OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular

Storage Management Service Version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver	Windows Server 2012 Driver R2
5.4	8.4	12.10.7-0001	4.31.1.32	4.31.1.64	4.31.1.64	Native	Native

Table 72. Dell OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular

Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

PERC H800 Adapter

The PERC H800 Adapter supports the following Dell PowerEdge systems: R220, R320, R420, R520, R710, R815, T410, R715, R210, R510, T310, R310, T320, T420, T610, R610, R410, and T710.

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

The PERC H800 Adapter supports eight storage devices.

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

Table 73. Dell OpenManage Supported Elements: PERC H800 Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	12.10.7-0001	4.31.1.32	4.31.1.64	4.31.1.64	Native

Table 74. Dell OpenManage Supported Elements: PERC H800 Adapter

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

PERC H830 Adapter, Mini Monolithic

The PERC H830 Adapter, Mini Monolithic support the following Dell PowerEdge systems: R430, R530, R,630, R730, R7910, R730 XD, T430, T630, M630, M830, FC430, FC630, FC830 and C4130.

The following tables list the other elements supported by the PERC H830 Adapter, Mini Monolithic controllers.

Table 75. Dell OpenManage supported elements: PERC H830 Adapter, Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32–bit Driver	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.4	8.4	25.4.0.0017	6.600.55.00	6.600.55.00	6.603.07.00

Table 76. Dell OpenManage supported elements: PERC H830 Adapter, Mini Monolithic

Table 76. Dell OpenManage supported elements: PERC H830 Adapter, Mini Monolithic

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	VMware ESXi 5.x Driver	VMware ESXi 6.0 U2 Driver	SUSE Linux Enterprise Server 11 SP4 64 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
6.603.07.00	Native	Native	Native	Native	Native	Native

PERC H200 Adapter, Integrated, and Modular

The PERC H200 Adapter supports the following Dell PowerEdge systems: T410, R210, R220, T110, T310, R310, T610, R410, and T710.

The PERC H200 Integrated supports the following Dell PowerEdge systems: R220, R710, R815, R715, R510, T610, R610, and T710.

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

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

Table 77. Dell OpenManage Supported Elements: PERC H200 Adapter, Integrated and Modular

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	07.03.06.00	2.0.35.10	2.0.35.10	2.0.35.10	Native

Table 78. Dell OpenManage Supported Elements: PERC H200 Adapter, Integrated and Modular

Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native

PERC H310 Adapter, Mini Blade, and Mini Monolithic

The PERC H310 Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems: R620, R720, R720XD, M520, M620, R820, R220, R320, R420, R520, T320, T420 and T620.

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

Table 79. Dell OpenManage Supported Elements: PERC H310 Adapter, Mini Blade, and Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	20.13.1-0004	6.803.21.00	6.803.21.00	6.803.21.00	6.805.21.00

Table 80. Dell OpenManage Supported Elements: PERC H310 Adapter, Mini Blade, and Mini Monolithic

Windows Server 2012 R2 Driver	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 64–bit Driver	SUSE Linux Enterprise Server 12 SP1 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 Driver
6.805.21.00	Native	Native	Native	Native	Native	Native

PERC H330 Adapter, Mini Monolithic, Embedded

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

Table 81. Dell OpenManage supported elements: PERC H330 Adapter, Mini Monolithic, Embedded

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.4	8.4	25.4.0.0017	6.600.55.00	6.603.07.00

Table 82. Dell OpenManage supported elements: PERC H330 Adapter, Mini Monolithic, Embedded

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
6.603.07.00	Native	Native	Native	Native

PERC H710 Adapter, Mini Blade, and Mini Monolithic

The PERC H710 Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems: R620, R720, R720XD, M520, M620, R220, R320, R420, R520, T320, T420 and T620.

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

Table 83. Dell OpenManage Supported Elements: PERC H710 Adapter, Mini Blade and Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	21.3.2.0005	6.803.21.00	6.803.21.00	6.803.21.00	6.805.21.00

Table 84. Dell OpenManage Supported Elements: PERC H710 Adapter, Mini Blade and Mini Monolithic

Windows Server 2012 R2 Driver	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
6.805.21.00	Native	Native	Native	Native

PERC H710P Adapter, Mini Blade, and Mini Monolithic

The PERC H710P Adapter, Mini Blade, and Mini Monolithic support the following Dell PowerEdge systems: R620, R720, R720XD, R820, M520, M620, R220, R320, R420, R520, T320, T420 and T620.

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

Table 85. Dell OpenManage Supported Elements: PERC H710P Adapter, Mini Blade, and Mini Monolithic

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	21.3.2-0005	6.803.21.00	6.803.21.00	6.803.21.00	6.805.21.00

Table 86. Dell OpenManage Supported Elements: PERC H710P Adapter, Mini Blade, and Mini Monolithic

Windows Server 2012 R2 Driver	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 Driver
6.805.21.00	Native	Native	Native	Native	Native	Native

PERC H730 Adapter

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

Table 87. Dell OpenManage Supported Elements: PERC H730

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	25.4.0.0017	6.600.55.00	6.600.55.00	6.600.55.00	6.603.07.00

Table 88. Dell OpenManage Supported Elements: PERC H730

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7	SUSE Linux Enterprise Server 11 SP4 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 Driver
6.603.07.00	Native	Native	Native	Native

PERC H730P Adapter

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

Table 89. Dell OpenManage Supported Elements: PERC H730P

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	25.4.0.0017	6.600.55.00	6.600.55.00	6.600.55.00	6.603.07.00

Table 90. Dell OpenManage Supported Elements: PERC H730P

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 10 SP4 Driver	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
6.603.07.00	Native	Native	06.602.03.00	Native	Native

PERC H810 Adapter

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

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

Table 91. Dell OpenManage Supported Elements: PERC H810 Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	21.3.2-0005	6.803.21.00	6.803.21.00	6.803.21.00	6.805.21.00

Table 92. Dell Dell OpenManage Supported Elements: PERC H810 Adapter

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 Driver
6.805.21.00	Native	Native	Native	Native	Native	Native

PERC S100

The PERC S100 controller supports the following Dell PowerEdge systems: R210, R210 II, R220, R310, R410, R510, R920, T110, T110 II, T310, and T410.

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

Table 93. Dell OpenManage Supported Elements: PERC S100

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	2.0.0-0162	2.0.0-0162	2.0.0-0162	2.0.0-0162	Not Applicable

Table 94. Dell OpenManage Supported Elements: PERC S100

Windows Server 2012 Driver R2
Not Applicable

PERC S110

The PERC S110 controller supports the following Dell PowerEdge systems: M520, M620, R220, R320, R420, R520, R620, R720, T320, T420, and T620

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

Table 95. Dell OpenManage Supported Elements: PERC S110

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	3.0.0.0139	3.0.0.0134	3.0.0.0134	3.0.0.0134	Not Applicable

Table 96. Dell OpenManage Supported Elements: PERC S110

Windows Server 2012 Driver R2
Not Applicable

PERC S130

The PERC S130 controller supports the following Dell PowerEdge systems: M520, M620, R220, R320, R420, R520, R620, R720, T320, T420, and T620

The following tables list the other elements supported by the PERC S130 controller.

Table 97. Dell OpenManage Supported Elements: PERC S110

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	4.1.0–0006	4.2.0–0009	4.2.0–0009	4.2.0–0009	4.2.0–0009

Table 98. Dell OpenManage Supported Elements: PERC S110

Windows Server 2012 Driver R2
4.2.0–0009

FD33XS-PERC Single

The FD33XS-PERC Single controller supports the Dell's 13th generation of PowerEdge systems.

The following tables list the other elements supported by the FD33XS-PERC Single controller.

Table 99. Dell OpenManage Supported Elements: FD33XS-PERC Single

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	25.4.0.0017	6.600.55.00	6.600.55.00	6.600.55.00	6.603.07.00

Table 100. Dell OpenManage Supported Elements: FD33XS-PERC Single

Windows Server 2012 Driver R2	Red Hat Linux 6.7 Driver	Red Hat Linux 7.2 Driver	SUSE Linux 11 SP4 Driver	SUSE Linux 12 SP1 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 U1 Driver
6.603.07.00	Native	Native	Native	Native	Native	Native

FD33XD-PERC Dual

The FD33XD-PERC Dual controller supports the Dell's 13th generation of PowerEdge systems.

The following tables list the other elements supported by the FD33XD-PERC Dual controller.

Table 101. Dell OpenManage Supported Elements: FD33XD-PERC Dual

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	25.4.0.0017	6.600.55.00	6.600.55.00	6.600.55.00	6.603.07.00

Table 102. Dell OpenManage Supported Elements: FD33XD-PERC Dual

Windows Server 2012 Driver R2	Red Hat Linux 6.7 Driver	Red Hat Linux 7.2 Driver	SUSE Linux 11 SP4 Driver	SUSE Linux 12 SP1 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 U1 Driver
6.603.07.00	Native	Native	Native	Native	Native	Native

PERC S300

The PERC S300 controller supports the following Dell PowerEdge systems: R210, R210 II, R220, R310, R410, R415, R510, R515, T110, T110 II, T310, and T410

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

Table 103. Dell OpenManage Supported Elements: PERC S300

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	2.0.0-0166+00193000	2.0.0-0162	2.0.0-0162	2.0.0-0162	Not Applicable

Table 104. Dell OpenManage Supported Elements: PERC S300

Table 104. Dell OpenManage Supported Elements: PERC S300

Windows Server 2012 Driver R2
Not Applicable

Dell PowerEdge PCIe Express Flash SSD

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

Table 105. Dell OpenManage Supported Elements: Dell PowerEdge PCIe Express Flash SSD

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	B1442808	Not Supported	Not Supported	6.27.1.8	Native

Table 106. Dell OpenManage Supported Elements: Dell PowerEdge PCIe Express Flash SSD

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	1.2.32-1	Native	1.2.32-1	Native

PERC HBA 330 Mini, Adapter

The following tables list the other elements supported by the PERC HBA 330 Mini, Adapter controller.

Table 107. Dell OpenManage Supported Elements: PERC HBA 330 Mini, Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver
5.4	8.4	09.17.20.07	2.50.92.00	2.50.92.00	2.50.92.00	2.51.1.2

Table 108. Dell OpenManage Supported Elements: PERC HBA 330 Mini, Adapter

Windows Server 2012 Driver R2	Red Hat Enterprise Linux 6.7 Driver	SUSE Linux Enterprise Server 11 SP4 Driver	VMware ESXi 5.x Driver	VMware ESXi 6.0 Driver
2.51.1.2	Native	Native	Native	Native

SAS 12Gbps HBA

The SAS 12Gbps HBA supports the Dell Storage MD1400 and MD1420 Enclosures.

The following tables list the other elements supported by the SAS 12Gbps HBA.

Table 109. Storage Management Service supported elements: SAS 12Gbps HBA

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 SP1 R2 (64-bit)	Windows Server 2012 (64–bit)
5.4	8.4	09.17.20.07	2.50.92.00	2.51.1.2

Table 110. Storage Management Service supported elements: SAS 12Gbps HBA

Table 110. Storage Management Service supported elements: SAS 12Gbps HBA

Windows Server 2012 Driver R2 (64–bit)	Red Hat Enterprise Linux 6.7	Red Hat Enterprise Linux 7.2	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
2.51.1.2	Native	Native	Native	Native

Internal Tape Adapter

The Internal Tape Adapter supports the following Dell PowerEdge systems: T620, T320, and T420.

The following tables list the other elements supported by the Internal Tape Adapter.

The Internal Tape Adapter supports the following Tape Drives: LTO3-080 for IBM ULTRIUM-HH3, LTO4-120 for IBM ULTRIUM-HH4, LTO5-140 for IBM ULTRIUM-HH5 and LTO6-200 for IBM ULTRIUM-HH6.

Table 111. Dell OpenManage Supported Elements: Internal Tape Adapter

Storage Management Service version	Server Administrator Version	PERC Firmware Version	Windows Server 2008 32-bit Driver	Windows Server 2008 64-bit Driver	Windows Server 2008 R2 Driver	Windows Server 2012 Driver	Windows Server 2012 R2 Driver
5.4	8.4	07.03.06.00	2.0.35.10	2.0.35.10	2.0.35.10	Native	Native

Table 112. Dell OpenManage Supported Elements: Internal Tape Adapter

Red Hat Enterprise Linux 6.7 Driver	Red Hat Enterprise Linux 7.2 Driver	SUSE Linux Enterprise Server 11 SP4 Driver	SUSE Linux Enterprise Server 12 SP1 Driver
Native	Native	Native	Native