

# Dell EMC OpenManage Software Support Matrix

Version 9.3

## 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 Systems Management Software Support Matrix helps identify OpenManage software and other Dell components supported on Dell PowerEdge, 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 OpenManage components that can be installed on these systems.

Topics:

- [What's new in this release](#)
- [Structure of this guide](#)
- [Accessing documents 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's new in this release

- Supported network cards:
  - Emulex LightPulse LPe35002-M2 2-Port 32 Gb Fibre Channel Adapter
  - Broadcom 57414 Dual Port 25 GbE SFP28 OCP Mezzanine Adapter
  - NVME TOSHIBA CD5 drives
- Supported operating systems:
  - Red Hat Enterprise Linux 7.6
  - VMware ESXi 6.7 U1
  - Ubuntu 18.04.02
  - Client OS support on R7910 and R7920- Red Hat Enterprise Linux 7.5 workstation
  - Client OS support on R7910 and R7920- Win 10RS5 Pro
- Supported web browser versions:
  - Google Chrome version 68
  - Google Chrome version 67
  - Mozilla Firefox version 62
  - Mozilla Firefox version 61
  - Safari version 11.x

### NOTE:

- For the list of supported operating systems and Dell servers, see the *Dell EMC OpenManage Software Support Matrix* in the required version of **OpenManage Software** at [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals).
- For more information about any features, see the *Dell EMC OpenManage Server Administrator Online Help*.
- For 11<sup>th</sup> generation of Dell EMC systems, it is recommended to use Remote/Local RACADM from OpenManage version 8.5.

# Structure of this guide

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 documents from the Dell EMC support site

You can access the required documents using the following links:

- For Dell EMC Enterprise Systems Management documents — [www.dell.com/esmmanuals](http://www.dell.com/esmmanuals)
- For Dell EMC OpenManage documents — [www.dell.com/openmanagemanuals](http://www.dell.com/openmanagemanuals)
- For Dell EMC Remote Enterprise Systems Management documents — [www.dell.com/esmmanuals](http://www.dell.com/esmmanuals)
- For iDRAC and Dell Lifecycle Controller documents — [www.dell.com/idracmanuals](http://www.dell.com/idracmanuals)
- For Dell EMC OpenManage Connections Enterprise Systems Management documents — [www.dell.com/esmmanuals](http://www.dell.com/esmmanuals)
- For Dell EMC Serviceability Tools documents — [www.dell.com/serviceabilitytools](http://www.dell.com/serviceabilitytools)
- a Go to [www.dell.com/support](http://www.dell.com/support).
- b Click **Browse all products**.
- c From **All products** page, click **Software**, and then click the required link from the following:
  - **Analytics**
  - **Client Systems Management**
  - **Enterprise Applications**
  - **Enterprise Systems Management**
  - **Public Sector Solutions**
  - **Utilities**
  - **Mainframe**
  - **Serviceability Tools**
  - **Virtualization Solutions**
  - **Operating Systems**
  - **Support**
- d To view a document, 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 [www.dell.com/Support/Home](http://www.dell.com/Support/Home) and also on the *Dell EMC Systems Management Tools and Documentation* ISO image.

## Supported GUI languages

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

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

**Table 1. Supported 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**

14 <sup>th</sup> generation of PowerEdge servers	13 <sup>th</sup> generation of PowerEdge servers	12 <sup>th</sup> generation of PowerEdge servers	11 <sup>th</sup> generation of PowerEdge servers
R240	C4130	M420	M610
R340	C6320	M520	M610x
T140	C6320P	M620	M710
T340	FC 430	M820	M710 HD
R740xd2	FC 630	M820-VRTX	M910
MX7000	FC 630	R220	M915
MX5016s	FC 830	R320	R210
MX740c	M630	R420	R210 II
MX840c	M630-VRTX	R520	R310
R7425	M830	R620	R410
R7415	M830-VRTX	R720	R415
R6415	R230	R720 XD	R510
C6420	R330	R820	R515
FC 640	R430	R920	R610
M640	R530	T320	R710
M640-VRTX	R630	T420	R715
R440	R730	T620	R810
R540	R730 XD		R815

<b>14<sup>th</sup> generation of PowerEdge servers</b>	<b>13<sup>th</sup> generation of PowerEdge servers</b>	<b>12<sup>th</sup> generation of PowerEdge servers</b>	<b>11<sup>th</sup> generation of PowerEdge servers</b>
R540 XD	R7910		R910
R640	R830		T110
R740	R930		T110 II
R740 XD	T130		T310
R7920	T330		T410
R940	T430		T610
T440	T630		T710
T640			DX2200
C4140			DX6000
			NX200
			NX300
			NX3000
			NX3100

# 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 OpenManage Server Administrator.

Topics:

- [Supported OpenManage Systems Management Software](#)
- [OpenManage Server Administrator v9.3](#)
- [Supported Operating Systems for Server Administrator Web Server on your Managed System Servers](#)
- [Supported OpenManage Systems Management Consoles](#)
- [Supported web browsers for In-band management and monitoring](#)

## Supported OpenManage Systems Management Software

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.

OpenManage systems management software consists of OpenManage Server Administrator.

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 EMC OpenManage Server Administrator User's Guide* available at [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals).

## Supported OpenManage Systems Management Software on Windows Operating Systems

The following table lists the supported OpenManage 9.3 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.

**Table 3. Supported OpenManage 9.3 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems**

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
<b>14th generation servers</b>				
MX7000	X	X		
MX5016s	X	X		
R240	X	X		
R340	X	X		
T140	X	X		
T340	X	X		
R740xd2	X	X		
MX740c	X	X		
MX840c	X	X		
R840	X	X		
R940xa	X	X		
R7425	X	X		
R7415	X	X		
R6415	X	X		
C4140		X		
C6420	X	X		
FC 640	X	X		
M640	X	X		
M640-VRTX	X	X		
R440	X	X		
R540	X	X		
R640	X	X		
R740	X	X		
R740 XD	X	X		
R940	X	X		
R7920				X
T440	X	X		
T640	X	X		
<b>13th generation servers</b>				
C4130	X	X		
C6320	X	X		
FC 430	X	X		
FC 630	X	X		

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
FC 830	X	X		
M630	X	X		
M630-VRTX	X	X		
M830	X	X		
M830-VRTX	X	X		
R230	X	X		
R330	X	X		
R430	X	X		
R530	X	X		
R630	X	X		
R730	X	X		
R730 XD	X	X		
R7910				X
R830	X	X		
R930	X	X		
T130	X	X		
T330	X	X		
T430	X	X		
T630	X	X		
<b>12th generation servers</b>				
M420	X			
M520	X			
M620	X			
M820	X			
M820-VRTX	X			
R220	X			
R320	X			
R420	X			
R520	X			
R620	X			
R720	X			
R720 XD	X			
R820	X			
R920	X			
T320	X			
T420	X			

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
T620	X			
<b>11th generation servers</b>				
M610			X	
M610x			X	
M710			X	
M710 HD			X	
M910			X	
M915			X	
R210			X	
R210 II			X	
R310			X	
R410			X	
R415			X	
R510			X	
R515			X	
R610			X	
R710			X	
R715			X	
R810			X	
R815			X	
R910			X	
T110			X	
T110 II			X	
T310			X	
T410			X	
T610			X	
T710			X	
DX2200	X		X	
DX6000	X		X	
NX200	X		X	
NX300	X		X	
NX3000	X		X	
NX3100	X		X	

**Table 4. Supported OpenManage 9.3 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems**

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
<b>14th generation servers</b>				
R340	X	X		
R240	X	X		
T340	X	X		
T140	X	X		
MX7000	X	X		
MX5016s	X	X		
MX740c	X	X		
MX840c	X	X		
R840	X	X		
R940xa	X	X		
R740xd2	X	X		
R7425	X	X		
R7415	X	X		
R6415	X	X		
C4140		X		
C6420	X	X		
FC 640	X	X		
M640	X	X		
M640-VRTX	X	X		
R440	X	X		
R540	X	X		
R640	X	X		
R740	X	X		
R740 XD	X	X		
R940	X	X		
R7920				X
T440	X	X		
T640	X	X		
<b>13th generation servers</b>				
C4130	X	X		
C6320	X	X		
FC 430	X	X		

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
FC 630	X	X		
FC 830	X	X		
M630	X	X		
M630-VRTX	X	X		
M830	X	X		
M830-VRTX	X	X		
R230	X	X		
R330	X	X		
R430	X	X		
R530	X	X		
R630	X	X		
R730	X	X		
R730 XD	X	X		
R830	X	X		
R930	X	X		
R7910				X
T130	X	X		
T330	X	X		
T430	X	X		
T630	X	X		
<b>12th generation servers</b>				
M420	X			
M520	X			
M620	X			
M820	X			
M820-VRTX	X			
R220	X			
R320	X			
R420	X			
R520	X			
R620	X			
R720	X			
R720 XD	X			
R820	X			
R920	X			

Dell Systems	Windows Server 2016	Windows Server 2019	Windows Server 2012 R2	Windows 10 RS5 Client
T320	X			
T420	X			
T620	X			
<b>11th generation servers</b>				
M610			X	
M610x			X	
M710			X	
M710 HD			X	
M910			X	
M915			X	
R210			X	
R210 II			X	
R310			X	
R410			X	
R415			X	
R510			X	
R515			X	
R610			X	
R710			X	
R715			X	
R810			X	
R815			X	
R910			X	
T110			X	
T110 II			X	
T310			X	
T410			X	
T610			X	
T710			X	
DX2200	X		X	
DX6000	X		X	
NX200	X		X	
NX300	X		X	
NX3000	X		X	
NX3100	X		X	

# Supported OpenManage Systems Management Software on Linux Operating Systems

The following table lists the supported OpenManage 9.3 installation and systems management software on systems running supported Linux operating system.

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

**Table 5. Supported OpenManage Systems Management Software on Systems Running Linux Operating Systems**

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10	RHEL 7.5/RHEL 7.6 Workstation	Ubuntu 18.04.02
<b>14th generation servers</b>					
MX7000	X	X	X		X
MX5016s	X	X	X		X
R240	X	X	X		X
R340	X	X	X		X
T140	X	X	X		X
T340	X	X	X		X
R740xd2	X	X	X		X
MX740c	X	X	X		X
MX840c	X	X	X		X
R840	X	X	X		X
R940xa	X	X	X		X
R7425	X	X	X		X
R7415	X	X	X		X
R6415	X	X	X		X
C4140	X	X			X
C6420	X	X	X		X
FC640	X	X	X		X
M640	X	X	X		X
M640-VRTX	X	X	X		X
R440	X	X	X		X
R540	X	X	X		X
R640	X	X	X		X
R740	X	X	X		X
R740xd	X	X	X		X
R940	X	X	X		X

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10	RHEL 7.5/RHEL 7.6 Workstation	Ubuntu 18.04.02
R7920				X	
T440	X	X	X		X
T640	X	X	X		X
<b>13th generation servers</b>					
C4130	X	X	X		
C6320p	X		X		
FC 430		X	X		
FC 630		X	X		
FC 830		X	X		
M630-VRTX		X	X		
M630		X	X		
M830	X	X	X		
M830-VRTX		X	X		
R230		X	X		
R330		X	X		
R430	X	X	X		
R530	X	X	X		
R630	X	X	X		
R730	X	X	X		
R730 XD	X	X	X		
R7910				X	
R830	X	X	X		
R930		X	X		
T130		X	X		
T330		X	X		
T430		X	X		
T630	X	X	X		
<b>12th generation servers</b>					
M420		X	X		
M520		X	X		
M620		X	X		
M820		X	X		
M820-VRTX		X	X		
R220		X	X		
R320		X	X		

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10	RHEL 7.5/RHEL 7.6 Workstation	Ubuntu 18.04.02
R420		X	X		
R520		X	X		
R620		X	X		
R720		X	X		
R720 XD		X	X		
R820		X	X		
R920		X	X		
T320		X	X		
T420		X	X		
T620		X	X		
<b>11th generation servers</b>					
M610					
M610x					
M710					
M710 HD					
M910					
M915					
R210					
R210 II					
R310					
R410					
R415					
R510					
R515					
R610					
R710					
R715					
R810					
R815					
R910					
T110					
T110 II					
T310					
T410					
T610					

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10	RHEL 7.5/RHEL 7.6 Workstation	Ubuntu 18.04.02
T710					
DX2200					
DX6000					
NX200					
NX300					
NX3000					
NX3100					

## Supported 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.

The following table lists the supported OpenManage 9.3 installation and systems management software on systems running supported Virtualization operating systems.

**Table 6. Supported OpenManage Systems Management Software on Systems Running Supported Virtualization Operating Systems**

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7 U1
<b>14th generation servers</b>		
MX7000	X	X
MX5016s	X	X
R240	X	X
R340	X	X
T140	X	X
T340	X	X
R740xd2	X	X
MX740c	X	X
MX840c	X	X
R7425	X	X
R840	X	X
R940xa	X	X
R7415	X	X
R6415	X	X
C4140	X	X
C6420	X	X

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7 U1
FC640	X	X
M640	X	X
M640-VRTX	X	X
R440	X	X
R540	X	X
R640	X	X
R740	X	X
R740 XD	X	X
R940	X	X
R7920		
T440	X	X
T640	X	X
<b>13th generation servers</b>		
C4130	X	X
C6320p	X	
FC 430	X	X
FC 630	X	X
FC 830	X	X
M630	X	X
M630-VRTX	X	X
M830	X	X
M830-VRTX	X	X
R230	X	X
R330	X	X
R430	X	X
R530	X	X
R630	X	X
R730	X	X
R730 XD	X	X
R830	X	X
R930	X	X
R7910		
T130	X	X
T330	X	X
T430	X	X

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7 U1
T630	X	X
<b>12th generation servers</b>		
M420	X	X
M520	X	X
M620	X	X
M820	X	X
M820-VRTX	X	X
R220	X	X
R320	X	X
R420	X	X
R520	X	X
R620	X	X
R720	X	X
R720 XD	X	X
R820	X	X
R920	X	X
T320	X	X
T420	X	X
T620	X	X
<b>11th generation servers</b>		
M610		
M610x		
M710		
M710 HD		
M910		
M915		
R210		
R210 II		
R310		
R410		
R415		
R510		
R515		
R610		
R710		

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7 U1
R715		
R810		
R815		
R910		
T110		
T110 II		
T310		
T410		
T610		
T710		
DX2200		
DX6000		
NX200		
NX300		
NX3000		
NX3100		

## Supported OpenManage Systems Management Software on Precision Rack Systems

Table 7. Supported OpenManage Systems Management Software on Precision Rack Systems

Dell Systems	Microsoft Windows 10 Client	Microsoft Windows 7 Client	RHEL 7.5 Workstation
R7920	Yes	Yes	Yes
R7910	Yes	Yes	No

## OpenManage Server Administrator v9.3

OpenManage Server Administrator Web Server allows you to remotely manage and monitor your entire network of managed systems from your system. However, for laptop and desktop you are required to use OM 9.3 Web 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 8. Supported Microsoft Windows Server Operating Systems for Server Administrator and Server Administrator web server.**

Microsoft Windows Server	Service Pack	Server Administrator	Server Administrator Web Server
Windows Server 2019	N/A	X	X
Windows Server 2016	N/A	X	X
Windows Server 2012 R2	N/A	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 9. Supported Linux Operating Systems for Server Administrator**

Supported Linux Operating Systems	Server Administrator	Server Administrator Web Server
Red Hat Enterprise Linux 7.6	X	X
Red Hat Enterprise Linux 6.10	X	X
SUSE Linux Enterprise Server 15	X	X
RHEL 7.5/RHEL 7.6 Workstation	X	X
Ubuntu 18.04.02	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 10. Supported VMware operating systems on Physical System**

VMware	Server Administrator	Server Administrator Web Server
vSphere 6.5 U2	X	N/A
vSphere 6.7 U1	X	N/A

**Table 11. Supported Microsoft Operating Systems on Physical System**

Microsoft	Server Administrator	Server Administrator Web Server
Hyper-V for Windows 2012 R2	X	X
Hyper-V for Windows 2016	X	X
Hyper-V for Windows 2019	X	X

### NOTE:

- Server Administrator comprises Server Instrumentation, Storage Management, Remote Access Components, and Remote Enablement.
- 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 OpenManage Systems Management Software](#).

## Supported OpenManage Systems Management Consoles

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.

OpenManage Systems Management Consoles include:

- [OpenManage Essentials](#)
- [OpenManage Mobile](#)
- [OpenManage Power Center](#)
- [OpenManage Server Administrator](#)

## OpenManage Essentials v2.5

The 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 *OpenManage Essentials Support Matrix* at [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals).

## OpenManage Mobile v3.2

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 or later and/or Integrated Dell Remote Access Controllers (iDRACs) 7 or later and/or OpenManage Enterprise consoles and/or Chassis. OpenManage Mobile provides OpenManage Essentials and OpenManage Enterprise 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.

## OpenManage Power Center v4.1

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 v4.1

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

**Table 12. Supported Microsoft Windows Operating Systems for Power Center**

Microsoft Windows	Power Center
Microsoft Windows Server 2012 R2 Essentials Edition	X
Microsoft Windows Server 2012 R2 Standard Edition	X
Microsoft Windows Server 2012 R2 Datacenter Edition	X
Microsoft Windows Server 2016 Standard Edition	X
Microsoft Windows Server 2016 Data Center Edition	X
Microsoft Windows Server 2019 Standard Edition	X
Microsoft Windows Server 2019 Data Center Edition	X
Microsoft Windows 8.1 Professional	X
Microsoft Windows 8.1 Enterprise	X
Microsoft Windows 10 Professional	X

## Supported Linux Operating Systems For Power Center v4.1

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

**Table 13. Supported Linux Operating Systems**

Supported Linux Operating Systems	Power Center
Red Hat Enterprise Linux 6.9 x86_64	X
Red Hat Enterprise Linux 7.4	X
Red Hat Enterprise Linux 7.5	X
SUSE Linux Enterprise Server 11 SP4 x86_64	X
SUSE Linux Enterprise Server 12 SP3	X

# Supported web browsers for In-band management and monitoring

The list of supported web browsers for OpenManage 9.3 Systems Management software on systems running supported Microsoft Windows, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server(SLES).

**Table 14. Supported web browsers running supported Microsoft Windows, Red Hat Enterprise Linux, SLES.**

Operating System	Internet Explorer (64-bit)	Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	10, 11		57, 58, 59	63, 64, 65	11.x
Windows Server 2012 R2	X	X	X	X	
Windows Server 2016	X	X	X	X	
Windows 10 RS5 Client	X	X	X	X	
Windows Server 2019	X	X	X	X	
SLES 15	Native Mozilla Firefox Web Browsers				
RHEL 7.6	Native Mozilla Firefox Web Browsers				
RHEL 6.10	Native Mozilla Firefox Web Browsers				
RHEL 7.5/ RHEL 7.6 Workstation	Native Mozilla Firefox Web Browsers				
Ubuntu 18.04.2	Native Mozilla Firefox Web Browsers				

**NOTE:** For the latest information, see the *Release Notes* for the specific product available at [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals). Select the OpenManage release version and then select the appropriate product to view the *Release Notes*.

# 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 3.4](#)
- [Supported Remote Access Controllers and Solutions for Blade, 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 iDRAC9 – 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.

### iDRAC9 Management Traffic – Dedicated NIC or Shared LOM

For certain 14th 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:

- R740
- R740xd

- T640
- R940
- C6420

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 [www.dell.com/Support/Home](http://www.dell.com/Support/Home).

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 3.4

The Integrated Dell Remote Access Controller(iDRAC) Service Module is a lightweight optional software application that can be installed on 14<sup>th</sup> generation of Dell PowerEdge servers or later with minimum Firmware version of 3.23.23.23 for iDRAC9. 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, Rack, and Tower Servers

The following table lists the supported Remote Access Controllers and Solutions for Blade, Rack, and Tower servers.

**Table 15. Supported Remote Access Controllers and Solutions for Blade, Rack, and Tower Servers**

Dell Systems	DRACs		MSM/CMC Firmware				BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC	MX7000 MSM		
<b>14th generation servers</b>								
R240	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R340	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
T140	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
T340	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R740xd2	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
MX740c	iDRAC9	3.30.30.30	N/A	N/A	N/A	1.00.01	N/A	2.0
MX840c	iDRAC9	3.30.30.30	N/A	N/A	N/A	1.00.01	N/A	2.0
R840	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R940xa	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0

Dell Systems	DRACs		MSM/CMC Firmware				BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC	MX7000 MSM		
R7425	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R7415	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R6415	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
M640-VRTX	iDRAC9	3.30.30.30	N/A	3.20	N/A	N/A	N/A	2.0
M640	iDRAC9	3.30.30.30	6.20	N/A	N/A	N/A	N/A	2.0
FC640	iDRAC9	3.30.30.30	N/A	N/A	2.20	N/A	N/A	2.0
R540	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R440	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
T640	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
T440	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R740xd	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R940	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R740	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
R640	iDRAC9	3.30.30.30	N/A	N/A	N/A	N/A	N/A	2.0
<b>13th generation servers</b>								
FC 430	iDRAC8	2.60.60.60	N/A	N/A	2.20	N/A	N/A	2.0
FC 630	iDRAC8	2.60.60.60	N/A	N/A	2.20	N/A	N/A	2.0
FC 830	iDRAC8	2.60.60.60	N/A	N/A	2.20	N/A	N/A	2.0
FM 120	iDRAC8	2.60.60.60	N/A	N/A	2.20	N/A	N/A	2.0
M430	iDRAC8	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M630	iDRAC8	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M630-VRTX	iDRAC8	2.60.60.60	N/A	3.20	N/A	N/A	N/A	2.0
M830	iDRAC8	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M830-VRTX	iDRAC8	2.60.60.60	N/A	3.20	N/A	N/A	N/A	2.0
R230	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R330	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R430	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R530	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R630	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R730	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R730 XD	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R830	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R930	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T130	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0

Dell Systems	DRACs		MSM/CMC Firmware				BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC	MX7000 MSM		
T330	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T430	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T630	iDRAC8	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
<b>12th generation servers</b>								
M420	iDRAC7	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M520	iDRAC7	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M620	iDRAC7	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
M820	iDRAC7	2.60.60.60	6.20	N/A	N/A	N/A	N/A	2.0
R220	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R320	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R420	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R520	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R620	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R720	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R720 XD	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R820	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
R920	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T320	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T420	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
T620	iDRAC7	2.60.60.60	N/A	N/A	N/A	N/A	N/A	2.0
<b>11th generation servers</b>								
M610	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
M610x	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
M710	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
M710 HD	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
M910	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
M915	iDRAC6	3.85	6.20	N/A	N/A	N/A	N/A	2.0
R210	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R210 II	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R310	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R410	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R415	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R510	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R515	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0

Dell Systems	DRACs		MSM/CMC Firmware				BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC	MX7000 MSM		
R610	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R710	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R715	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R810	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R815	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
R910	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
T110	BMC	N/A	N/A	N/A	N/A	N/A	1.70	2.0
T110 II	BMC	N/A	N/A	N/A	N/A	N/A	1.70	2.0
T310	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
T410	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
T610	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	2.0
T710	iDRAC6	2.9	N/A	N/A	N/A	N/A	N/A	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 14th 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.

On the 14<sup>th</sup> generation of Dell PowerEdge servers, Lifecycle Controller is known as Lifecycle Controller 3 (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 3.30.30.30** — 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 3.30.30.30** — Remote Services (WS-MAN) simplifies end-to-end server lifecycle management using the one-to-many method. It interfaces for remote deployment integrated with OpenManage Essentials and partner consoles.

For more information, see the Lifecycle Controller documentation available at [www.dell.com/Support/Home](http://www.dell.com/Support/Home).

## Supported Dell Systems and Windows Operating Systems for Lifecycle Controller 3.30.30.30

See [Supported 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 Windows Storage Server operating systems.

# Supported Dell Systems and Linux Operating Systems for Lifecycle Controller 3.30.30.30

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

# Supported Dell Systems and Virtualization Operating Systems for Lifecycle Controller 3.30.30.30

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

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

The list of supported web browsers for iDRAC9 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server.

**Table 16. Supported web browsers for iDRAC9 on systems running supported Microsoft Windows, Red Hat enterprise Linux, SUSE Linux Enterprise Server (SLES).**

Operating System	Internet Explorer (64-bit)	Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	10, 11		58, 59	65, 66	10.x
Windows Server 2012 R2	X				
Windows Server 2016	X		X		
Windows Server 2019	X		X		
SLES 15	Native Mozilla Firefox Web Browsers				
RHEL 6.10	Native Mozilla Firefox Web Browsers				
RHEL 7.5	Native Mozilla Firefox Web Browsers				

# Supported OpenManage Change Management Software

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.

OpenManage change management software comprises of:

- Dell EMC Update Packages
- Dell EMC Server Update Utility
- FTP Catalog
- Dell EMC System Update
- **Dell EMC 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 [www.dell.com/Support/Home](http://www.dell.com/Support/Home).

- **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 11<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, and 14<sup>th</sup> generation of Dell PowerEdge systems.
- **Dell System Update** - Dell System Update (DSU) is an improved version of Online repository to distribute Dell updates for Linux and Windows systems. DSU distributes 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.

A **'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.

**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 OpenManage 9.3 change management software on systems running supported Microsoft Windows operating systems.

**Table 17. Supported OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems**

Dell Systems	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
<b>14th generation servers</b>			
R240	D, S	D, S	D, S
R340	D, S	D, S	D, S
T140	D, S	D, S	D, S
T340	D, S	D, S	D, S
R740xd2	D, S	D, S	D, S
MX740c	D, S	D, S	D, S
MX840c	D, S	D, S	D, S
R7425	D, S	D, S	D, S
R7415	D, S	D, S	D, S
R6415	D, S	D, S	D, S
C6420	D, S	D, S	D, S
FC640	D, S	D, S	D, S
M640	D, S	D, S	D, S
M640-VRTX	D, S	D, S	D, S
R440	D, S	D, S	D, S
R540	D, S	D, S	D, S
R640	D, S	D, S	D, S
R740	D, S	D, S	D, S
R740xd	D, S	D, S	D, S
R940	D, S	D, S	D, S
T440	D, S	D, S	D, S
<b>13th generation servers</b>			
C4130	D, S	D, S	D, S
C6320	D, S	D, S	D, S
DSS1500	D, S	D, S	D, S
DSS1510	D, S	D, S	D, S
DSS2500	D, S	D, S	D, S
FC 430	D, S	D, S	D, S
FC 630	D, S	D, S	D, S
FC 830	D, S	D, S	D, S

Dell Systems	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
M630	D, S	D, S	D, S
M630-VRTX	D, S	D, S	D, S
M830	D, S	D, S	D, S
M830-VRTX	D, S	D, S	D, S
R230	D, S	D, S	D, S
R330	D, S	D, S	D, S
R430	D, S	D, S	D, S
R530	D, S	D, S	D, S
R630	D, S	D, S	D, S
R730	D, S	D, S	D, S
R730 XD	D, S	D, S	D, S
R830	D, S	D, S	D, S
R930	D, S	D, S	D, S
T130	D, S	D, S	D, S
T330	D, S	D, S	D, S
T430	D, S	D, S	D, S
T630	D, S	D, S	D, S
<b>12th generation servers</b>			
M420	D, S	D, S	D, S
M520	D, S	D, S	D, S
M520-VRTX	D, S	D, S	D, S
M620	D, S	D, S	D, S
M820	D, S	D, S	D, S
M820-VRTX	D, S	D, S	D, S
R220	D, S	D, S	D, S
R320	D, S	D, S	D, S
R420	D, S	D, S	D, S
R520	D, S	D, S	D, S
R620	D, S	D, S	D, S
R720	D, S	D, S	D, S
R720 XD	D, S	D, S	D, S
R820	D, S	D, S	D, S
R920	D, S	D, S	D, S
T320	D, S	D, S	D, S
T420	D, S	D, S	D, S
T620	D, S	D, S	D, S

Dell Systems	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
<b>11th generation servers</b>			
M610	D	D	D
M610x	D	D	D
M710	D	D	D
M710 HD	D	D	D
M910	D	D	D
M915	D	D	D
R210	D	D	D
R210 II	D	D	D
R310	D	D	D
R410	D	D	D
R415	D	D	D
R510	D	D	D
R515	D	D	D
R610	D	D	D
R710	D	D	D
R715	D	D	D
R810	D	D	D
R815	D	D	D
R910	D	D	D
T110	D	D	D
T110 II	D	D	D
T310	D	D	D
T410	D	D	D
T610	D	D	D
T710	D	D	D

## 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 EMC 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.

A '**S**' in the intersection of the operating system and the Dell system columns indicates support for SUU. The Dell EMC 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 EMC System Update.

**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 OpenManage 9.3 change management software on systems running supported Linux operating systems.

**Table 18. Supported OpenManage Change Management Software on Systems Running Supported SUSE Linux Enterprise Server and Red Hat Enterprise Linux Operating Systems.**

Dell Systems	SLES 15	RHEL 7.5	RHEL 6.10
<b>14th generation servers</b>			
R240	D, L	D, S, L	D, S, L
R340	D, L	D, S, L	D, S, L
T140	D, L	D, S, L	D, S, L
T340	D, L	D, S, L	D, S, L
R740xd2	D, L	D, S, L	D, S, L
MX740c	D, L	D, S, L	D, S, L
MX840c	D, L	D, S, L	D, S, L
R7425	D, L	D, S, L	D, S, L
R7415	D, L	D, S, L	D, S, L
R6415	D, L	D, S, L	D, S, L
C6420	D, L	D, S, L	D, S, L
FC640	D, L	D, S, L	D, S, L
M640	D, L	D, S, L	D, S, L
M640-VRTX	D, L	D, S, L	D, S, L
R440	D, L	D, S, L	D, S, L
R540	D, L	D, S, L	D, S, L
R640	D, L	D, S, L	D, S, L
R740	D, L	D, S, L	D, S, L
R740xd	D, L	D, S, L	D, S, L
R940	D, L	D, S, L	D, S, L
T440	D, L	D, S, L	D, S, L
<b>13th generation servers</b>			
C4130	D, L	D, S, L	D, S, L
C6320	D, L	D, S, L	D, S, L
FC 430	D, L	D, S, L	D, S, L
FC 630	D, L	D, S, L	D, S, L
FC 630	D, L	D, S, L	D, S, L
FC 830	D, L	D, S, L	D, S, L

Dell Systems	SLES 15	RHEL 7.5	RHEL 6.10
M630	D, L	D, S, L	D, S, L
M630-VRTX	D, L	D, S, L	D, S, L
M830	D, L	D, S, L	D, S, L
M830-VRTX	D, L	D, S, L	D, S, L
R230	D, L	D, S, L	D, S, L
R330	D, L	D, S, L	D, S, L
R430	D, L	D, S, L	D, S, L
R530	D, L	D, S, L	D, S, L
R630	D, L	D, S, L	D, S, L
R730	D, L	D, S, L	D, S, L
R730 XD	D, L	D, S, L	D, S, L
R830	D, L	D, S, L	D, S, L
R930	D, L	D, S, L	D, S, L
T130	D, L	D, S, L	D, S, L
T330	D, L	D, S, L	D, S, L
T430	D, L	D, S, L	D, S, L
T630	D, L	D, S, L	D, S, L
<b>12th generation servers</b>			
M420	D, L	D, S, L	D, S, L
M520	D, L	D, S, L	D, S, L
M520-VRTX	D, L	D, S, L	D, S, L
M620	D, L	D, S, L	D, S, L
M820	D, L	D, S, L	D, S, L
M820-VRTX	D, L	D, S, L	D, S, L
R220	D, L	D, S, L	D, S, L
R320	D, L	D, S, L	D, S, L
R420	D, L	D, S, L	D, S, L
R520	D, L	D, S, L	D, S, L
R620	D, L	D, S, L	D, S, L
R720	D, L	D, S, L	D, S, L
R720 XD	D, L	D, S, L	D, S, L
R820	D, L	D, S, L	D, S, L
R920	D, L	D, S, L	D, S, L
T320	D, L	D, S, L	D, S, L

Dell Systems	SLES 15	RHEL 7.5	RHEL 6.10
T420	D, L	D, S, L	D, S, L
T620	D, L	D, S, L	D, S, L
<b>11th generation servers</b>			
M610	D, L	D, L	D, L
M610x	D, L	D, L	D, L
M710	D, L	D, L	D, L
M710 HD	D, L	D, L	D, L
M910	D, L	D, L	D, L
M915	D, L	D, L	D, L
R210	D, L	D, L	D, L
R210 II	D, L	D, L	D, L
R310	D, L	D, L	D, L
R410	D, L	D, L	D, L
R415	D, L	D, L	D, L
R510	D, L	D, L	D, L
R515	D, L	D, L	D, L
R610	D, L	D, L	D, L
R710	D, L	D, L	D, L
R715	D, L	D, L	D, L
R810	D, L	D, L	D, L
R815	D, L	D, L	D, L
R910	D, L	D, L	D, L
T110	D, L	D, L	D, L
T110 II	D, L	D, L	D, L
T310	D, L	D, L	D, L
T410	D, L	D, L	D, L
T610	D, L	D, L	D, L
T710	D, L	D, L	D, 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.

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

An asterisk ( \* ) indicates the Dell systems that do not support 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 OpenManage 9.3 change management software on systems running supported Virtualization operating systems.

**Table 19. Supported OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware**

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7
<b>14th generation servers</b>		
R240	*	*
R340	*	*
T140	*	*
T340	*	*
R740xd2	*	*
MX740c	*	*
MX840c	*	*
R7425	*	*
R7415	*	*
R6415	*	*
C6420	*	*
FC640	*	*
FC640	*	*
M640	*	*
M640-VRTX	*	*
R440	*	*
R540	*	*
R640	*	*
R740	*	*
R740xd	*	*
R940	*	*
T440	*	*
<b>13th generation servers</b>		
C4130	*	*
C6320		

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7
FC 430	*	*
FC 630	*	*
FC 630	*	*
FC 830	*	*
M630	*	*
M630-VRTX	*	*
M830	*	*
M830-VRTX	*	*
R230	*	*
R330	*	*
R430	*	*
R530	*	*
R630	*	*
R730	*	*
R730 XD	*	*
R830	*	*
R930	*	*
T130	*	*
T330	*	*
T430	*	*
T630	*	*
<b>12th generation servers</b>		
M420	*	*
M520	*	*
M520-VRTX	*	*
M620	*	*
M820	*	*
M820-VRTX	*	*
R220	*	*
R320	*	*
R420	*	*
R520	*	*
R620	*	*

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7
R720	*	*
R720 XD	*	*
R820	*	*
R920	*	*
T320	*	*
T420	*	*
T620	*	*
<b>11th generation servers</b>		
M610	*	*
M610x	*	*
M710	*	*
M710 HD	*	*
M910	*	*
M915	*	*
R210	*	*
R210 II	*	*
R310	*	*
R410	*	*
R415	*	*
R510	*	*
R515	*	*
R610	*	*
R710	*	*
R715	*	*
R810	*	*
R815	*	*
R910	*	*
T110	*	*
T110 II	*	*
T310	*	*
T410	*	*
T610	*	*
T710	*	*

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

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 v6.1.2](#)
- [DRAC tools that include RACADM, VMCLI, and iVMCLI](#)
- [Supported Linux Operating Systems for IPMITool In-Band](#)
- [Supported Microsoft Windows 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 Pre-installation Environment for Deployment Toolkit v6.1.2

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

**Table 20. Supported Microsoft Windows Pre-installation Environment for Dell Deployment Tool kit (DTK)**

Windows Preinstallation Environment	DTK
5.1(64-bit)	X
10 (64-bit)	X

## DTK Deprecation Message

The OpenManage Deployment Toolkit (DTK) along with the associated tools and capabilities will be deprecated for version 6.1 and later:

- Redundant Array of Independent Disks Configuration (RAIDCFG) Utility
- System Configuration (SYSCFG) Utility
- ELI tool
- Utility Partition (UPINIT)

It is recommended to use the RACADM Command Line (CLI) as a replacement for the RAIDCFG and SYSCFG utilities. For more information on downloading RACADM, see [www.dell.com/Support/Home](http://www.dell.com/Support/Home).

**NOTE:** DTK will continue to support any new hardware or operating system for the 14th generation of PowerEdge servers. However, support for later generations of PowerEdge servers will be deprecated. For more information about features supported by DTK, see the latest User's Guide available at [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals) .

## 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 21. Supported Microsoft Windows Server Operating Systems for RACADM**

RACADM utility	Microsoft Windows Server 2016	Microsoft Windows Server 2019
Service Pack	NA	NA
Remote RACADM	X	X
Local RACADM	X	X

### Supported Linux Operating Systems for the RACADM Utility

The following table lists the supported Linux operating systems for the RACADM utility. An 'X' in the operating system column indicates support for the RACADM utility.

**Table 22. Supported Linux Operating Systems for RACADM**

RACADM utility	RHEL 6	RHEL 7	SLES 15
Remote RACADM	X	X	X
Local RACADM	X	X	X

### Supported Microsoft Windows Operating Systems for VMCLI and iVMCLI

The following table lists the supported Microsoft Windows operating systems for VMCLI and iVMCLI. An 'X' in the operating system column indicates support for the VMCLI and iVMCLI.

**Table 23. Supported Microsoft Windows Server Operating Systems for VMCLI and iVMCLI**

Microsoft Windows Server	VMCLI and iVMCLI
Windows Server 2016	X
Microsoft Windows Server 2012	X
Microsoft Windows Server 2012 R2	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 24. Supported Linux Operating Systems for VMCLI and iVMCLI**

Supported Linux Operating Systems	VMCLI	iVMCLI
SLES 15	X	
RHEL 7.5	X	X
RHEL 6.10	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 25. Supported Linux Operating Systems for IPMITool In-Band**

Supported Linux Operating Systems	IPMITool In-Band
SLES 15	X
RHEL 7	X
RHEL 6	X

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

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 26. Supported Microsoft Windows Server Operating Systems for IPMITool**

Supported Microsoft Windows Server Operating System	IPMITool
Windows Server 2016	X
Windows Server 2019	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 27. Supported Microsoft Windows Server Operating Systems for BMU and IPMI Tool Out-of- Band**

Supported Microsoft Windows Server Operating System	IPMITool Out-of- Band
Windows Server 2016	X
Windows Server 2019	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 28. Supported Linux Operating Systems for IPMITool**

Supported Linux Operating Systems	IPMITool Out-of-Band
SLES 15	X
RHEL 7	X
RHEL 6	X

# Network Interface Controllers and Supported Operating Systems

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

The following table lists the NIC manufacturers and drivers version that is required for the supported operating systems in OpenManage 9.3:

**Table 29. NIC Manufacturers and Drivers Required for Supported Microsoft Windows Operating Systems**

NIC Product Name	Microsoft Windows Server 2019 Family
Broadcom NetXtreme Family of Adapters	21.40.2
Broadcom NetXtreme E-Series Family of Adapters	21.40.17.70
Intel Family of Adapters	18.8.0
QLogic FC & Classic CNAs Family of Adapters	35.00.00
QLogic formally Broadcom CNAs	21.4
Emulex Family of Adapters	10.1.1
Mellanox Family of ConnectX-3/ConnectX-3 Pro Adapters (Ethernet only)	WinOF 5.50.14661.0
Mellanox Family of ConnectX-4/ConnectX-4 Lx Adapters (Ethernet only)	WinOF 2.10.20286.0

**Table 30. NIC Manufacturers and Drivers Required for Supported Red Hat Enterprise Linux Operating Systems**

NIC Product Name	Red Hat Enterprise Linux 6.10 and 7.6
Broadcom NetXtreme Family of Adapters	21.4.1
Broadcom NetXtreme E-Series Family of Adapters	21.4.1
Intel Family of Adapters	19.0.0
QLogic FC & Classic CNAs Family of Adapters	35.00.00.01
QLogic formally Broadcom CNAs	21.4.1
Emulex Family of Adapters	10.1.1
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 4.5-1.0.1.0

**Table 31. NIC Manufacturers and Drivers Required for Supported SUSE Linux Enterprise Server Operating Systems**

NIC Product Name	SLES 15
Broadcom NetXtreme Family of Adapters	21.4.1
Intel Family of Adapters	19.0.0

<b>NIC Product Name</b>	<b>SLES 15</b>
QLogic FC & Classic CNAs Family of Adapters	10.0.0.16
QLogic formally Broadcom CNAs	35.00.00.01
Emulex Family of Adapters	10.1.1
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 4.5-1.0.1.0

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

Starting with 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 [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals).

The following types of controllers are included in this section:

- The RAID controller card group contains the following controllers: PERC 6E, PERC 6i, SAS 6iR, PERC H200, PERC H310, PERC H330, PERC HBA H330, PERC H700, PERC H710 and H710P, PERC H730 and H730P, PERC H740 and H740P, PERC H800, PERC H810, PERC H830, PERC H840, PERC S110, PERC S130, PERC S140, PERC HBA 330MX, PERC HBA 330MMZ, PERC H730P MX, PERC H745P MX, FD33XS-PERC Single, FD33XD-PERC Dual, FD33XS-HBA 330 Single, FD33XD-HBA 330 Dual, SAS 6 Gbps HBA, SAS 12Gbps HBA, Internal Tape Adapter, and Dell PowerEdge PCIe Express Flash SSD.
- The RAID controller card group supports the following operating systems: Windows Server 2016, Windows Server 2019, VMware ESXi 6.5 U2, VMware ESXi 6.7 U1, Red Hat Enterprise Linux 7.6, Red Hat Enterprise Linux 6.10, and SUSE Linux Enterprise Server 15.

**NOTE: The firmware and drivers listed in this section refer to the minimum supported version as of the publication date of this document. Later versions of the firmware and drivers may also be supported or required. For the most recent driver and firmware requirements, see [www.dell.com/OpenManageManuals](http://www.dell.com/OpenManageManuals) for the Storage Management Service.**

Topics:

- [Linux Driver Included in RPM](#)
- [PERC 6E Adapter](#)
- [PERC 6i Adapter, Integrated, and Modular](#)
- [SAS 6iR int Modular](#)
- [SAS 6 iR Integrated and Adapter](#)
- [PERC H200 Adapter, Integrated, and Modular](#)
- [PERC H310 Adapter, Mini Blade, and Mini Monolithic](#)
- [PERC H330 Adapter, Mini Blade, and Mini Monolithic](#)
- [PERC HBA H330 Mini, Adapter](#)

- PERC H700 Adapter, Integrated, and Modular
- PERC H710 and H710P Adapter, Mini Blade, and Mini Monolithic
- PERC H730 and H730P Adapter, Mini Blade, and Mini Monolithic
- PERC H740 and H740P Adapter
- PERC H800 Adapter
- PERC H810 Adapter
- PERC H830 Adapter, Mini Monolithic
- PERC H840 Adapter
- PERC S110
- PERC S130
- PERC S140
- PERC HBA 330MX
- PERC HBA 330MMZ
- PERC H730P MX
- PERC H745P MX
- FD33XS-PERC Single
- FD33XD-PERC Dual
- FD33XS-HBA 330 Single
- FD33XD-HBA 330 Dual
- SAS 6 Gbps HBA
- SAS 12Gbps HBA
- Internal Tape Adapter
- Dell PowerEdge PCIe Express Flash SSD

## Linux Driver Included in RPM

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

## PERC 6E 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.

**Table 32. PERC 6/E Adapter**

Storage Management Service supported elements	Version
Storage Management Service Version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	6.3.3-0002
Windows Server 2012 R2 Driver	4.5.0.64

## PERC 6i 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.

**Table 33. PERC 6/i Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	6.3.3-0002
Windows Server 2012 R2 Driver	Native

## SAS 6iR int Modular

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

**Table 34. SAS 6/iR Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
SAS Firmware/BIOS Version	00.25.47.00/06.22.03.00
Windows Server 2012 R2 Driver	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.

**Table 35. SAS 6/iR Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service Version	6.3.0
Server Administrator Version	9.3
SAS Firmware/ BIOS Version	00.25.47.00/06.22.03.00
Windows Server 2012 R2 Driver	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.

**Table 36. PERC H200 Modular controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	07.03.06.00
Windows Server 2016 R2 Driver	Native

## PERC H310 Adapter, Mini Blade, and Mini Monolithic

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

**Table 37. PERC H310 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	20.13.3-0001
Windows Server 2016 Driver	6.805.03.00
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

## PERC H330 Adapter, Mini Blade, and Mini Monolithic

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

**Table 38. PERC H330 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native

Storage Management Service supported elements	Version
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## PERC HBA H330 Mini, Adapter

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

**Table 39. PERC HBA 330 Mini, Adapter controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	15.17.09.06
Windows Server 2016 Driver	2.51.21.2
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	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 40. Dell OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular**

Storage Management Service supported elements	Version	
Storage Management Service Version	6.3.0	
Server Administrator Version	9.3	
PERC Firmware Version	<b>Integrated</b> 12.10.7-0001	<b>Modular</b> 12.10.6-0001
Windows Server 2012 R2 Driver	Native	

# PERC H710 and H710P 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.

**Table 41. PERC H710 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	21.3.5-0002
Windows Server 2016 Driver	6.805.03.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

# PERC H730 and H730P Adapter, Mini Blade, and Mini Monolithic

The following tables list the other elements supported by the PERC H730/H730P Adapter, Mini Blade, and Mini Monolithic controllers.

**Table 42. PERC H730/H730P Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# PERC H740 and H740P Adapter

The following tables list the other elements supported by the PERC H740/H740P controller.

**Table 43. PERC H740/H740P controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	50.5.0-1750
Windows Server 2016 Driver	7.703.06.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	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 44. PERC H800 Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	12.10.7-0001
Windows Server 2012 R2 Driver	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 45. PERC H810 Adapter controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	21.3.5-0002
Windows Server 2016 Driver	6.805.03.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	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 46. PERC H830 Adapter, Mini Monolithic controllers**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

## PERC H840 Adapter

The following tables list the other elements supported by the PERC H840 controller.

**Table 47. PERC H840 controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3

Storage Management Service supported elements	Version
PERC Firmware Version	50.5.0-1750
Windows Server 2016 Driver	7.703.06.00
Red Hat Enterprise Linux 6.10	Native
Red Hat Enterprise Linux 7.6	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## 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 48. Dell OpenManage Supported Elements: PERC S110**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
Windows Server 2016 Driver	3.2.0-0014

## PERC S130

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

**Table 49. Dell OpenManage Supported Elements: PERC S130**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
Windows Server 2016 Driver	4.3.0-0003
Windows Server 2019 Driver	4.3.0-0006

## PERC S140

The following tables list the other elements supported by the PERC S140 controller.

**Table 50. OpenManage Supported Elements: PERC S140**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
Windows Server 2016 Driver	5.4.0-0004
Windows Server 2019 Driver	5.4.0-0004

## PERC HBA 330MX

The following tables list the other elements supported by the PERC HBA 330MX controller.

**Table 51. PERC HBA 330MX controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	15.17.09.08
Windows Server 2016 Driver	2.51.21.2
Red Hat Enterprise Linux 7.6 Driver	22.00.04.00 - Native
Red Hat Enterprise Linux 6.10 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## PERC HBA 330MMZ

The following tables list the other elements supported by the PERC HBA 330MMZ controller.

**Table 52. PERC HBA 330MMZ controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	15.17.09.08
Windows Server 2016 Driver	2.51.21.2
Red Hat Enterprise Linux 7.6 Driver	22.00.04.00 - Native
Red Hat Enterprise Linux 6.10 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native

Storage Management Service supported elements	Version
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## PERC H730P MX

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

**Table 53. PERC H730P MX controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Enterprise Linux 7.6	Native
Red Hat Enterprise Linux 6.10	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## PERC H745P MX

The following tables list the other elements supported by the PERC H745P MX controller.

**Table 54. PERC H745P MX controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	50.5.0-1750
Windows Server 2016 Driver	7.703.06.00
Red Hat Enterprise Linux 7.6	7.703.06.00 - Native
Red Hat Enterprise Linux 6.10	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# 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 55. FD33XS-PERC Single controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Linux 6.10 Driver	Native
Red Hat Linux 7.6 Driver	Native
SUSE Linux 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

# FD33XD-PERC Dual

The FD33XD-PERC Dual controller supports the Dell's 14th generation of PowerEdge systems. The following tables list the other elements supported by the FD33XD-PERC Dual controller.

**Table 56. FD33XD-PERC Dual controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	25.5.5.000X
Windows Server 2016 Driver	6.604.06.00
Red Hat Linux 6.10 Driver	Native
Red Hat Linux 7.6 Driver	Native
SUSE Linux 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# FD33XS-HBA 330 Single

The following tables list the other elements supported by the FD33XS-HBA 330 Single controller.

**Table 57. FD33XS-HBA 330 Single controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
Firmware Version	15.17.09.07
Windows Server 2016 Driver	2.51.21.2
Red Hat Linux 6.10 Driver	Native
Red Hat Linux 7.6 Driver	Native
SUSE Linux 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## FD33XD-HBA 330 Dual

The following tables list the other elements supported by the FD33XD-HBA 330 Dual controller.

**Table 58. FD33XD-HBA 330 Dual controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
Firmware Version	15.17.09.07
Windows Server 2016 Driver	2.51.21.2
Red Hat Linux 6.10 Driver	Native
Red Hat Linux 7.6 Driver	Native
SUSE Linux 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## 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 59. SAS 6 Gbps HBA**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
SAS Firmware/ BIOS Version	07.03.06.00
Windows Server 2012 R2 Driver	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 60. Storage Management Service supported elements: SAS 12Gbps HBA**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	15.17.09.06
Windows Server 2016 Driver	2.51.21.2
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	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 61. Internal Tape Adapter controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	07.03.06.00
Windows Server 2016 Driver	Native

Storage Management Service supported elements	Version
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

## 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.

### XS1715 PCIe SSD

Table 62. PowerEdge XS1715 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	IPM0LD3Q
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

### SM1715 PCIe SSD

Table 63. PowerEdge SM1715 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	IPV48D3Q
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native

Storage Management Service supported elements	Version
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

## PM1725 PCIe SSD

Table 64. PowerEdge PM1725 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	KPYACD3Q
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

## PM1725a PCIe SSD

Table 65. PowerEdge PM1725a PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	1.1.1
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native

Storage Management Service supported elements	Version
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## PM1725b PCIe SSD

Table 66. PowerEdge PM1725b PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	1.0.0
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## P4500 PCIe SSD

Table 67. PowerEdge P4500 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	QDV1DP15
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native

Storage Management Service supported elements	Version
Ubuntu 18.04.02 Driver	Native

## P4600 PCIe SSD

Table 68. PowerEdge P4600 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	QDV1DP15
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

## P4510 PCIe SSD

Table 69. PowerEdge P4510 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	VDV1DP20
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# P4610 PCIe SSD

**Table 70. PowerEdge P4610 PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	VDV1DP20
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# P4800x PCIe SSD

**Table 71. PowerEdge P4800x PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	E201DB3D
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native

# Toshiba CD5 PCIe SSD

**Table 72. PowerEdge Toshiba CD5 PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.3.0
Server Administrator Version	9.3
PERC Firmware Version	0.1.10
Windows Server 2016 Driver	Native
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 6.10 Driver	Native
Red Hat Enterprise Linux 7.6 Driver	Native
SUSE Linux Enterprise Server 15	Native
VMware ESXi 6.7 U1 Driver	Native
VMware ESXi 6.5 U2 Driver	Native
Ubuntu 18.04.02 Driver	Native