

Dell EMC OpenManage Software Support Matrix

Version 9.2.1

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:
 - QLogic 10GE 4P QL41164HxRJ-DE Adapter
 - QL41262HMKR-DE 25 Gigabit Ethernet
 - QLogic FastLinQ 41262 Dual Port 25GbE SFP28 rNDC
 - QLogic 2x25GE QL41262HMCU CAN
 - Intel(R) Ethernet 25G 2P XXV710 Adapter
 - Intel(R) Ethernet 10G 2P X550-t Adapter
 - Intel(R) Gigabit 4P I350-t Adapter
 - Intel(R) 10GbE 4P X710-t Adapter
 - Intel(R) 4P X550 rNDC
 - ConnectX-5 Dual Port 100 GbE QSFP Network Adapter
 - ConnectX-4 Dual Port 100 GbE QSFP Network Adapter
 - ConnectX-5 Single Port VPI EDR QSFP28 Adapter
- Supported operating systems:
 - Microsoft Windows Server 2019
- Supported web browsers:
 - Google Chrome version 66
 - Google Chrome version 65
 - Mozilla Firefox version 59
 - Mozilla Firefox version 58
 - Internet Explorer 11
 - Internet Explorer 10
 - Safari version 10.x
 - Microsoft "Spartan" / Edge

- ① **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.
- ① **NOTE:** For more information about any features, see the *Dell EMC OpenManage Server Administrator Online Help*.
- ① **NOTE:** For 1st 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
- For Dell EMC OpenManage documents — www.dell.com/openmanagemanuals
- For Dell EMC Remote Enterprise Systems Management documents — www.dell.com/esmmanuals
- For iDRAC and Dell Lifecycle Controller documents — www.dell.com/idracmanuals
- For Dell EMC OpenManage Connections Enterprise Systems Management documents — www.dell.com/esmmanuals
- For Dell EMC Serviceability Tools documents — www.dell.com/serviceabilitytools
- a Go to 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 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 th generation of PowerEdge servers	13 th generation of PowerEdge servers
R240	C4140
R340	C4130
T140	C6320
T340	C6320P
R740xd2	FC 430
MX740c	FC 630
MX840c	FC 630
R7425	FC 830
R7415	M630
R6415	M630
C6420	M830
FC 640	R230
M640	R330

14th generation of PowerEdge servers	13th generation of PowerEdge servers
M640-VRTX	R430
R440	R530
R540	R630
R540 XD	R730
R640	R730 XD
R740	R7910
R740 XD	R830
R7920	R930
R940	T130
T440	T330
	T430
	T630

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 v9.2.1](#)
- [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.

Supported OpenManage Systems Management Software on Windows Operating Systems

The following table lists the supported OpenManage 9.2.1 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 9.2.1 Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

Dell Systems	Microsoft Windows Server 2019
14th generation servers	
R240	X
R340	X
T140	X
T340	X
R740xd2	X
MX740c	X
MX840c	X
R840	X
R940xa	X
R7425	X
R7415	X
R6415	X
C6420	X
FC 640	X
M640	X
M640-VRTX	X
R440	X
R540	X
R640	X
R740	X
R740 XD	X
R940	X
T440	X
13th generation servers	
C4140	X
C4130	X
C6320	X
FC 430	X
FC 630	X
FC 630	X
FC 830	X
M630	X
M630-VRTX	X

Dell Systems	Microsoft Windows Server 2019
M830	X
M830-VRTX	X
R230	X
R330	X
R430	X
R530	X
R630	X
R730	X
R730 XD	X
R830	X
R930	X
T130	X
T330	X
T430	X
T630	X
12th generation servers	
M420	
M520	
M520-VRTX	
M620	
M820	
M820-VRTX	
R220	
R320	
R420	
R520	
R620	
R720	
R720 XD	
R820	
R920	
T320	
T420	
T620	
11th generation servers	
M610	

Dell Systems	Microsoft Windows Server 2019
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	

Table 4. Supported OpenManage 9.2.1 Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems

Dell Systems	Microsoft Windows Server 2019
14th generation servers	
R7425	X
R7415	X
R6415	X
C6420	X
FC 640	X
FC 640 v2	X
FC 840 v2	X

Dell Systems	Microsoft Windows Server 2019
FD 332	X
FD 342 v2	X
M640	X
M640-VRTX	X
R440	X
R540	X
R640	X
R740	X
R740 XD	X
R940	X
T440	X
13th generation servers	
C4130	X
C6320	X
FC 430	X
FC 630	X
FC 630	X
FC 830	X
M630	X
M630	X
M830	X
R230	X
R330	X
R430	X
R530	X
R630	X
R730	X
R730 XD	X
R830	X
R930	X
T130	X
T330	X
T430	X
T630	X
12th generation servers	
M420	

Dell Systems	Microsoft Windows Server 2019
M520	
M620	
M820	
R220	
R320	
R420	
R520	
R620	
R720	
R720 XD	
R820	
R920	
T320	
T420	
T620	
11th generation servers	
M610	
M610x	
M710	
M710 HD	
M910	
M915	
R210	
R210 II	
R310	
R410	
R415	
R510	
R515	
R610	
R710	
R715	
R810	
R815	
R910	
T110	

Dell Systems	Microsoft Windows Server 2019
T110 II	
T310	
T410	
T610	
T710	

OpenManage Server Administrator v9.2.1

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 9.2.1 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 5. 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
Microsoft Windows Server 2019	N/A	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 6. Supported Microsoft Operating Systems on Physical System

Microsoft	Server Administrator	Server Administrator Web Server
Hyper-V for Windows 2019	X	X

① **NOTE:** Server Administrator comprises Server Instrumentation, Storage Management, Remote Access Components, and Remote Enablement.

① **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 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.

OpenManage Mobile v3.1

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 7. Supported Microsoft Windows Operating Systems for Power Center

Microsoft Windows	Power Center
Windows Server 2016	X
Microsoft Windows 8.1 Professional and Enterprise	X
Microsoft Windows 10 Professional	X
Windows Server 2019	X

Supported Linux Operating Systems For Power Center v4.1

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

Table 8. Supported Linux Operating Systems

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

Supported web browsers for In-band management and monitoring

The list of supported web browsers for OpenManage 9.2.1 Systems Management software on systems running supported Microsoft Windows.

Table 9. Supported web browsers running supported Microsoft Windows.

Operating System	Internet Explorer (64-bit)	Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	10, 11		58, 59	65, 66	10.x
Windows Server 2019	X		X	X	

NOTE: For the latest information, see the *Release Notes* for the specific product available at 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 3.3.1](#)
- [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.

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 3.3.1

The Integrated Dell Remote Access Controller(iDRAC) Service Module is a lightweight optional software application that can be installed on 14th generation of Dell PowerEdge servers or later with minimum Firmware version of 3.11.11.11 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 10. Supported Remote Access Controllers and Solutions for Blade, Rack, and Tower Servers

Dell Systems	DRACs		CMC Firmware			BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC		
14th generation servers							
R7425	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
R7415	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
R6415	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
M640-VRTX	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
M640	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
R540	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
R440	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
T640	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0
T440	iDRAC9	3.11.11.11	6.0	3.0	2.0	N/A	2.0

Dell Systems	DRACs		CMC Firmware			BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC		
R740xd	iDRAC9	3.00.00.00	6.0	3.0	2.0	N/A	2.0
R940	iDRAC9	3.00.00.00	6.0	3.0	2.0	N/A	2.0
R740	iDRAC9	3.00.00.00	6.0	3.0	2.0	N/A	2.0
R640	iDRAC9	3.00.00.00	6.0	3.0	2.0	N/A	2.0
FD332	iDRAC9	2.40.40.40	5.2	N/A	N/A	N/A	2.0
13th generation servers							
FC 430	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
FC 630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
FC 630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
FC 830	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
FM 120	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M830	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R230	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R330	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R430	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R530	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R730	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R730 XD	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R830	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R930	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T130	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T330	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T430	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T630	iDRAC8	2.40.40.40	5.2	N/A	N/A	N/A	2.0
12th generation servers							
M420	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M520	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M620	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
M820	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R220	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R320	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0

Dell Systems	DRACs		CMC Firmware			BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC		
R420	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R520	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R620	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R720	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R720 XD	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R820	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
R920	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T320	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T420	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
T620	iDRAC7	2.40.40.40	5.2	N/A	N/A	N/A	2.0
11th generation servers							
M610	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
M610x	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
M710	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
M710 HD	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
M910	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
M915	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R210	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R210 II	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R310	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R410	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R415	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R510	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R515	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R610	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R710	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R715	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R810	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R815	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
R910	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
T110	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
T110 II	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
T310	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
T410	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0

Dell Systems	DRACs		CMC Firmware			BMC	Supported IPMI
	DRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC		
T610	iDRAC6	3.8	5.2	N/A	N/A	N/A	2.0
T710	iDRAC6	3.8	5.2	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 14th 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 3.20.20.20** — 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 3.20.20.20** — 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.

Supported Dell Systems and Windows Operating Systems for Lifecycle Controller 3.20.20.20

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 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 11. 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.

- **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 11th, 12th, 13th, and 14th 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 9.2.1 change management software on systems running supported Microsoft Windows operating systems.

Table 12. Supported OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems

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

Dell Systems	Microsoft Windows Server 2012 R2	Windows Server 2016
FC 630	D, S	D, S
FC 830	D, S	D, S
M630	D, S	D, S
M630-VRTX	D, S	D, S
M830	D, S	D, S
M830-VRTX	D, S	D, S
R230	D, S	D, S
R330	D, S	D, S
R430	D, S	D, S
R530	D, S	D, S
R630	D, S	D, S
R730	D, S	D, S
R730 XD	D, S	D, S
R830	D, S	D, S
R930	D, S	D, S
T130	D, S	D, S
T330	D, S	D, S
T430	D, S	D, S
T630	D, S	D, S
12th generation servers		
M420	D, S	D, S
M520	D, S	D, S
M520-VRTX	D, S	D, S
M620	D, S	D, S
M820	D, S	D, S
M820-VRTX	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
R720 XD	D, S	D, S
R820	D, S	D, S
R920	D, S	D, S
T320	D, S	D, S

Dell Systems	Microsoft Windows Server 2012 R2	Windows Server 2016
T420	D, S	D, S
T620	D, S	D, S
11th generation servers		
M610	D	D
M610x	D	D
M710	D	D
M710 HD	D	D
M910	D	D
M915	D	D
R210	D	D
R210 II	D	D
R310	D	D
R410	D	D
R415	D	D
R510	D	D
R515	D	D
R610	D	D
R710	D	D
R715	D	D
R810	D	D
R815	D	D
R910	D	D
T110	D	D
T110 II	D	D
T310	D	D
T410	D	D
T610	D	D
T710	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 9.2.1 change management software on systems running supported Linux operating systems.

Table 13. 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 7.6	RHEL 6.10
14th generation servers			
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
13th generation servers			
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

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10
FC 830	D, L	D, S, L	D, S, L
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
12th generation servers			
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

Dell Systems	SLES 15	RHEL 7.6	RHEL 6.10
T320	D, L	D, S, L	D, S, L
T420	D, L	D, S, L	D, S, L
T620	D, L	D, S, L	D, S, L
11th generation servers			
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 9.2.1 change management software on systems running supported Virtualization operating systems.

Table 14. Supported OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware

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

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7
C6320		
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	*	*
12th generation servers		
M420	*	*
M520	*	*
M520-VRTX	*	*
M620	*	*
M820	*	*
M820-VRTX	*	*
R220	*	*
R320	*	*
R420	*	*
R520	*	*

Dell Systems	VMware	
	vSphere 6.5 U2	vSphere 6.7
R620	*	*
R720	*	*
R720 XD	*	*
R820	*	*
R920	*	*
T320	*	*
T420	*	*
T620	*	*
11th generation servers		
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	VMware	
	vSphere 6.5 U2	vSphere 6.7
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 Virtualization Operating Systems for IPMITool](#)

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 15. 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.

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 .

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 16. Supported Microsoft Windows Server Operating Systems for RACADM

RACADM utility	Microsoft Windows Server 2016	Microsoft Windows Server 2012 R2
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 17. Supported Linux Operating Systems for RACADM

RACADM utility	RHEL 6.10	RHEL 7.5	SLES 12 SP3	SLES 15
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 18. 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 19. 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 20. Supported Linux Operating Systems for IPMITool In-Band

Supported Linux Operating Systems	IPMITool In-Band
SLES 15	X
RHEL 7.5	X
RHEL 6.10	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 21. Supported Microsoft Windows Server Operating Systems for IPMITool

Supported Microsoft Windows Server Operating System	IPMITool
Windows Server 2016	X
Microsoft Windows Server 2012	X
Microsoft Windows Server 2012 R2	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 22. 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
Microsoft Windows Server 2012	X
Microsoft Windows Server 2012 R2	X

Supported Linux Operating Systems for IPMITool Out-of-Band

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

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

Table 23. Supported Linux Operating Systems for IPMITool

Supported Linux Operating Systems	IPMITool Out-of-Band
SLES 15	X
RHEL 7.5	X
RHEL 6.10	X

Supported Virtualization Operating Systems for IPMITool

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

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

Table 24. Supported Virtualization operating systems for the IPMITool

Supported Virtualization operating system	IPMITool
vSphere 6.5 U1	X
vSphere 6.0 U3	X

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 9.2.1.

Table 25. NIC Manufacturers and Drivers Required for Supported Microsoft Windows Operating Systems

NIC Product Name	Microsoft Windows Server 2012 Family
Broadcom NetXtreme Family of Adapters	21.4
Broadcom NetXtreme E-Series Family of Adapters	20.06.05.06
Intel Family of Adapters	18.8.0
QLogic FC & Classic CNAs Family of Adapters	34.10.00
QLogic formally Broadcom CNAs	21.4
Emulex Family of Adapters	10.04
Brocade Family of Adapters	3.2.3
Mellanox Family of ConnectX-3/ConnectX-3 Pro Adapters (Ethernet only)	WinOF 05.50.03
Mellanox Family of ConnectX-4/ConnectX-4 Lx Adapters (Ethernet only)	WinOF 2-1.80.18515

Table 26. NIC Manufacturers and Drivers Required for Supported Red Hat Enterprise Linux Operating Systems

NIC Product Name	Red Hat Enterprise Linux 6.9 and 7.3
Broadcom NetXtreme Family of Adapters	21.4
Broadcom NetXtreme E-Series Family of Adapters	21.4
Intel Family of Adapters	18.5.0
QLogic FC & Classic CNAs Family of Adapters	34.10.00
QLogic formally Broadcom CNAs	21.4
Emulex Family of Adapters	9.2.1
Brocade Family of Adapters	3.2.3
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 4.4-1.0.0.1

Table 27. NIC Manufacturers and Drivers Required for Supported SUSE Linux Enterprise Server Operating Systems

NIC Product Name	SLES 11 SP4	SLES 12 SP3
Broadcom NetXtreme Family of Adapters	21.4	21.4
Intel Family of Adapters	18.8.0	18.8.0
QLogic FC & Classic CNAs Family of Adapters	10.0.0.16	10.0.0.16
QLogic formally Broadcom CNAs	34.10.00	34.10.00
Emulex Family of Adapters	9.2.1	9.2.1
Brocade Family of Adapters	3.2.3	3.2.3
Mellanox Family of Adapters (Ethernet only)	MLNX OFED 4.4-1.0.0.0	MLNX OFED 4.4-1.0.0.0

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.

The following types of controllers are included in this section:

- The RAID controller card group contains the following controllers: H730P, H745, HBA330, HBA330 MMZ, AND S140.
- The RAID controller card group supports the following operating systems: Windows Server 2012 R2, Windows Server 2016, VMware ESXi 6.5, VMware ESXi 6.0 U3, Red Hat Enterprise Linux 7.3, and SUSE Linux Enterprise Server 12 SP3.

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 for the Storage Management Service.

Topics:

- [PERC H330 Adapter, Mini Blade, and Mini Monolithic](#)
- [PERC HBA H330 Mini, Adapter](#)
- [PERC H730 and H730P Adapter, Mini Blade, and Mini Monolithic](#)
- [PERC H740 and H740P Adapter](#)
- [PERC H830 Adapter, Mini Monolithic](#)
- [PERC H840 Adapter](#)
- [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 12Gbps HBA
- Dell PowerEdge PCIe Express Flash SSD

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 28. PERC H330 Adapter, Mini Blade, and Mini Monolithic controllers

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00

PERC HBA H330 Mini, Adapter

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

Table 29. PERC HBA 330 Mini, Adapter controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	15.17.09.06
Windows Server 2019 Driver	2.51.21.2

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 30. PERC H730/H730P Adapter, Mini Blade, and Mini Monolithic controllers

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00

PERC H740 and H740P Adapter

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

Table 31. PERC H740/H740P controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	50.3.0-1512
Windows Server 2019 Driver	7.703.06.00

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 32. PERC H830 Adapter, Mini Monolithic controllers

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00

PERC H840 Adapter

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

Table 33. PERC H840 controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	50.3.0-1512
Windows Server 2019 Driver	7.703.06.00

PERC S130

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

Table 34. Dell OpenManage Supported Elements: PERC S130

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	4.2.0-0009
Windows Server 2019 Driver	4.3.0-0003

PERC S140

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

Table 35. OpenManage Supported Elements: PERC S140

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	5.2.0-0006
Windows Server 2019 Driver	5.2.0-0006

PERC HBA 330MX

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

Table 36. PERC HBA 330MX controller

Storage Management Service supported elements	Version
Storage Management Service version	6.2
Server Administrator Version	9.2.1
PERC Firmware Version	15.17.09.08
Windows Server 2019 Driver	2.51.21.2

PERC HBA 330MMZ

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

Table 37. PERC HBA 330MMZ controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	15.17.09.08
Windows Server 2019 Driver	2.51.21.2

PERC H730P MX

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

Table 38. PERC H730P MX controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.005
Windows Server 2019 Driver	6.604.06.00

PERC H745P MX

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

Table 39. PERC H745P MX controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	50.3.0-1512
Windows Server 2019 Driver	7.703.06.00

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 40. FD33XS-PERC Single controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00

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 41. FD33XD-PERC Dual controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00

FD33XS-HBA 330 Single

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

Table 42. FD33XS-HBA 330 Single controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
Firmware Version	15.17.09.07
Windows Server 2019 Driver	2.51.21.2

FD33XD-HBA 330 Dual

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

Table 43. FD33XD-HBA 330 Dual controller

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
Firmware Version	15.17.09.07
Windows Server 2019 Driver	2.51.21.2

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 44. Storage Management Service supported elements: SAS 12Gbps HBA

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	15.17.09.06

Storage Management Service supported elements	Version
Windows Server 2019 Driver	2.51.21.2

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 45. PowerEdge PCIe Express Flash SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.0.1
Server Administrator Version	9.2.1
PERC Firmware Version	B1442808
Windows Server 2019 Driver	Not Supported