

# Dell EMC OpenManage Software Support Matrix

Version 10.0.1

## 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 EMC components that are supported on PowerEdge servers, browsers, and operating systems.

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

## Topics:

- [OMSA Customer Survey](#)
- [What's new in this release](#)
- [Supported web browsers](#)
- [Supported operating systems](#)
- [Supported network cards](#)
- [Structure of this guide](#)
- [Accessing support content from the Dell EMC support site](#)
- [Where can I find the Server Administrator one-to-one agent](#)
- [Supported GUI languages](#)
- [Supported PowerEdge servers](#)

## OMSA Customer Survey

Survey link: <https://secure.opinionlab.com>.

Dell Technologies is exclusively surveying OMSA customers, collecting feedback, and implementing suggestions. As a customer, the above link is available for you to take the survey at various phases of OMSA usage such as Windows or Linux based installation, while using the OMSA GUI and CLI, and VMware ESXi.

## What's new in this release

- Oracle Java Runtime Environment 11.0.9 and Tomcat 9.0.45 bundled with Server Administrator.
- For the YX5X generation of PowerEdge servers, new memory events are supported that provide additional recommendations about the resolution steps to resolve an event.

Supported new features in Storage Management:

- Support for LTO-X tape drives (starting from LTO-8) that can be connected to HBA355e.
- The Auto Configure Behavior feature on PERC 10 and later controllers.
- Single multipath and multiple multipath connection feature for 4-port controllers.
- Support for the Array584EMM enclosures.
- Events for NVMe drives having initialization error.
- Support for non-Dell certified drives connected to S150 controller.

Supported platforms and controllers:

- PowerEdge R750XA: PERC S150, HBA355i Adapter, HBA355e Adapter, H345 Frnt/Adapter, PERC H745 Frnt/Adapter, PERC H755N, PERC H755 Frnt/Adapter.
- PowerEdge R750: PERC S150, HBA355i Adapter, HBA355e Adapter, H345 Frnt/Adapter, PERC H745 Frnt/Adapter, PERC H755N, PERC H755 Frnt/Adapter.
- PowerEdge R650: PERC S150, HBA355i Adapter, HBA355e Adapter, H345 Frnt/Adapter, PERC H745 Frnt/Adapter, PERC H755N, PERC H755 Frnt/Adapter.
- PowerEdge C6520: PERC S150, HBA355i Adapter, H345 Adapter, PERC H745 Adapter.
- PowerEdge MX750c: PERC S150, HBA330MMZ, HBA350iMX, PERC H745P MX, and PERC H755 MX.

## NOTE:

- For the list of supported operating systems and Dell EMC servers, see *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 Dell EMC OpenManage Server Administrator Online Help.

## Supported web browsers

- Mozilla Firefox version 81
- Mozilla Firefox version 80
- Google Chrome version 84
- Google Chrome version 83
- Internet Explorer version 11
- Safari version 13.x
- Microsoft Edge

For more support and compatibility information, see *Dell EMC OpenManage Software Support Matrix Version 10.0.1* and *Dell EMC OpenManage Software Compatibility Matrix Version 10.0.1*.

## Supported operating systems

- Red Hat Enterprise Linux 8.2 and Red Hat Enterprise Linux 8.3
- Red Hat Enterprise Linux 7.9
- SUSE Linux Enterprise Server 15 SP2
- Ubuntu 20.04 64 bit
- VMWare ESXi 6.7 U3 and VMWare ESXi 7.0 U2
- Microsoft Windows 2016
- Microsoft Windows 2019

## Supported network cards

- Marvell QLogic Fibre Channel Single Port 32GFC PCIe Gen4 x8 Adapter
- Marvell QLogic Fibre Channel Dual Port 32GFC PCIe Gen4 x8 Adapter
- Intel(R) Ethernet 25G 2P E810-XXV OCP
- Intel(R) Ethernet 25G 2P E810-XXV Adapter
- Intel(R) Ethernet 10G 4P X710/I350 rNDC
- Intel FPGA Programmable Acceleration Card D5005
- Dual Port 10Gb Ethernet (BCM57810S) LOM (FC430)
- QLogic 57810S-K Dual Port 10Gb bNDC KR CNA
- QLogic 57810S-k Dual Port 10Gb bMezz KR CNA
- QLogic 57840S-K Quad Port 10Gb bNDC KR CNA
- Broadcom BCM57504 25G KR Quad Port Fab AB Mezz

## Structure of this guide

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

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

# Accessing support content from the Dell EMC support site

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

- Direct links:
  - For Dell EMC Enterprise Systems Management and Dell EMC Remote Enterprise Systems Management—<https://www.dell.com/esmmanuals>
  - For Dell EMC Virtualization Solutions—[www.dell.com/virtualizationsolutions](http://www.dell.com/virtualizationsolutions)
  - For Dell EMC OpenManage—<https://www.dell.com/openmanagemanuals>
  - For iDRAC—<https://www.dell.com/idracmanuals>
  - For Dell EMC OpenManage Connections Enterprise Systems Management—<https://www.dell.com/OMConnectionsEnterpriseSystemsManagement>
  - For Dell EMC Serviceability Tools—<https://www.dell.com/serviceabilitytools>
- Dell EMC support site:
  1. Go to <https://www.dell.com/support>.
  2. Click **Browse all products**.
  3. From the **All products** page, click **Software**, and then click the required link.
  4. Click the required product and then click the required version.

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

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

Supported versions of Server Administrator are available at [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								

**Table 1. Supported OpenManage GUI Languages (continued)**

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

## Supported PowerEdge servers

The following table lists the supported yx5x PowerEdge servers:

- R750XA
- R750
- R650
- C6520
- MX750c
- R6515
- R7515
- R6525
- C6525
- R7525

# 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](#)
- [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 EMC devices. 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, which is 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 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 EMC devices column indicates that Server Administrator is supported on that operating system for the corresponding system.

**Table 2. Supported OpenManage Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems**

Dell EMC devices	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
yx5x generation of PowerEdge servers		X	X
yx4x generation of PowerEdge servers			

**Table 2. Supported OpenManage Systems Management Software on Systems Running Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems (continued)**

Dell EMC devices	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
yx3x generation of PowerEdge servers			
yx2x generation of PowerEdge servers			
yx1x generation of PowerEdge servers			

**Table 3. Supported OpenManage Systems Management Software on Systems Running Microsoft Windows Storage Server, Microsoft Windows Server Operating Systems**

Dell EMC devices	Windows Server 2012 R2	Windows Server 2016	Windows Server 2019
yx5x generation of PowerEdge servers		X	X
yx4x generation of PowerEdge servers			
yx3x generation of PowerEdge servers			
yx2x generation of PowerEdge servers			
yx1x generation of PowerEdge servers			

## Supported OpenManage Systems Management Software on Linux Operating Systems

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

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

**Table 4. Supported OpenManage Systems Management Software on Systems Running Linux Operating Systems**

Dell EMC devices	RHEL 8.2 and RHEL 8.3	RHEL 7.8 and RHEL 7.9	SLES 15 SP2
yx5x generation of PowerEdge servers	X	X	X
yx4x generation of PowerEdge servers			
yx3x generation of PowerEdge servers			
yx2x generation of PowerEdge servers			
yx1x generation of PowerEdge servers			

## Supported OpenManage Systems Management Software On Virtualization Operating Systems

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

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

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

Dell EMC devices	VMware vSphere 7.0 and VMware vSphere 7.0 U1	VMware vSphere 6.7 U3
yx5x generation of PowerEdge servers	X	X
yx4x generation of PowerEdge servers		
yx3x generation of PowerEdge servers		
yx2x generation of PowerEdge servers		
yx1x generation of PowerEdge servers		

## OpenManage Server Administrator

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 the latest version of OM 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 6. 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 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 7. Supported Linux Operating Systems for Server Administrator**

Supported Linux Operating Systems	Server Administrator	Server Administrator Web Server
Red Hat Enterprise Linux 8.2 and Red Hat Enterprise Linux 8.3	X	X

**Table 7. Supported Linux Operating Systems for Server Administrator (continued)**

Supported Linux Operating Systems	Server Administrator	Server Administrator Web Server
Red Hat Enterprise Linux 7.8 and Red Hat Enterprise Linux 7.9	X	X
SLES 15 SP2	X	X
Ubuntu 20.04	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 8. Supported VMware operating systems on Physical System**

VMware	Server Administrator	Server Administrator Web Server
vSphere 7.0 and vSphere 7.0 U1	X	N/A
vSphere 6.7 U3	X	N/A

**Table 9. 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 includes Server Instrumentation, Storage Management, Remote Access Components, and Remote Enablement.
- Server Administrator Web Server component cannot be installed on Dell EMC 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 Mobile](#)
- [OpenManage Enterprise Power Manager](#)

- [OpenManage Server Administrator](#)

## OpenManage Mobile v3.3

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.

## Dell EMC OpenManage Enterprise Power Manager v1.2

Dell EMC OpenManage Enterprise Power Manager is an extension to Dell EMC OpenManage Enterprise (OME) console and uses fine-grained instrumentation to provide increased visibility over power consumption, anomalies, and utilization. Also, Power Manager alerts and reports about power and thermal events with servers, chassis, and custom groups consisting of servers and chassis. This enables increased control, faster response times, greater accuracy, and broader decision-making intelligence than would otherwise be possible.

When used with PowerEdge servers, or modular systems with an iDRAC Enterprise license, or supported chassis, and OpenManage Enterprise Advanced license, Power Manager leverages information from OME console for platform-level power reporting. Power Manager then communicates with Integrated Dell Remote Access Controller (iDRAC) or Chassis Management Controller (CMC) on each managed server to provide power-management data, and execution of control policy—making it easy for Administrators to identify areas to gain efficiencies and cut wasteful costs.

## Supported web browsers for In-band management and monitoring

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

**Table 10. Supported web browsers running supported Microsoft Windows, Red Hat Enterprise Linux.**

Operating System	Internet Explorer (64-bit)	Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	11		76	75	12
Windows Server 2019	X	X	X	X	
RHEL 8.2 and RHEL 8.3	Native Mozilla Firefox Web Browsers				
RHEL 7.8 and RHEL 7.9	Native Mozilla Firefox Web Browsers				
SLES 15 SP2	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 3.5.1
- Supported Remote Access Controllers and Solutions for Blade, Rack, and Tower Servers
- Lifecycle Controller—Supported Dell EMC Systems and Operating Systems
- Supported web browsers for Out-of-Band management and monitoring

## Supported Integrated Dell Remote Access Controllers and solutions

The 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 includes:

- Graphical User Interface(GUI), Command-Line Interface(CLI), and WSMAN
- 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 EMC also offers two options to better fit into a customer's existing environment. **Auto-discovery** or **DHCP** can be set from the factory to enable you to access iDRAC and remotely configure your server.

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

For certain yx4x generation of 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 EMC recommends placing 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 EMC 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

iDRAC 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 iDRAC
- Supported Chassis Management Controller versions and firmware
- Supported BMC firmware versions
- Supported IPMI protocol versions

## iDRAC Service Module 3.5.1

The Integrated Dell Remote Access Controller(iDRAC) Service Module is a lightweight optional software application that can be installed on yx2x servers or later with minimum Firmware version of 4.00.00.00 for iDRAC 9 on yx4x and yx5x servers. The iDRAC Service Module complements iDRAC interfaces – Graphical User Interface (GUI), RACADM CLI and Web Service Management (WSMan) 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 11. Supported Remote Access Controllers and Solutions for Blade, Rack, and Tower Servers**

Dell EMC devices	DRACs		MSM/CMC Firmware				BMC	Supported IPMI
	iDRAC Type	Supported DRAC FW version	M1000e CMC	VRTX CMC	FX2 CMC	MX7000 MSM		
R750XA	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R750	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R650	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
C6520	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
MX750c	iDRAC9	4.00.00.00	N/A	N/A	N/A	1.00.01	N/A	2.0
R7525	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R6515	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R7515	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R6525	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
R7525	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0
C6525	iDRAC9	4.00.00.00	N/A	N/A	N/A	N/A	N/A	2.0

## Lifecycle Controller—Supported Dell EMC Systems and Operating Systems

The Dell EMC 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 yx4x generation of 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 yx4xgeneration of 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 4.00.00.00** —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 4.00.00.00** —Remote Services (WSMan) simplifies end-to-end server lifecycle management using the one-to-many method. It interfaces for remote deployment that is 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 EMC Systems and Windows Operating Systems for Lifecycle Controller 4.00.00.00

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

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

## Supported Dell EMC Systems and Linux Operating Systems for Lifecycle Controller 4.00.00.00

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

## Supported Dell EMC Systems and Virtualization Operating Systems for Lifecycle Controller 4.00.00.00

See [Supported OpenManage Systems Management Software on Virtualization Operating Systems](#) for a list of all the Dell EMC 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 and Red Hat enterprise Linux.

**Table 12. Supported web browsers for iDRAC9 on systems running supported Microsoft Windows, Red Hat enterprise Linux.**

Operating System	Internet Explorer (64-bit)	Microsoft Edge	Mozilla Firefox	Google Chrome	Safari
	11		76	75	12
Windows Server 2019	X		X		
RHEL 7.8 and RHEL 7.9	Native Mozilla Firefox Web Browsers				
RHEL 8.2 and RHEL 8.3	Native Mozilla Firefox Web Browsers				
SLES 15 SP2	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 EMC systems. It is also an efficient way to manage hardware, software, and operating system updates.

OpenManage change management software consists 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 EMC system.

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

For more information about DUPs, see the *Dell Update Packages User's Guide* available on the Dell EMC 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 yx2x, yx3x, yx4x and yx5x 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 that are 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 EMC system columns indicates support for DUPs.

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

A '**V**' in the intersection of the operating system and the Dell EMC 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 EMC 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 Change management software on systems running supported Microsoft Windows operating systems.

**Table 13. Supported OpenManage Change Management Software on Systems Running Supported Microsoft Windows Server and Microsoft Windows Small Business Server Operating Systems**


Dell EMC Systems	Windows Server 2019	Windows Server 2016	Windows server 2012 R2
yx5x generation of PowerEdge servers	D, S	D, S	
yx4x generation of PowerEdge servers			
yx3x generation of PowerEdge servers			
yx2x generation of PowerEdge servers			
yx1x generation of PowerEdge servers			

## Supported Change Management Software on Linux Operating Systems

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

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

The following table lists the supported OpenManage Change management software on systems running supported Linux operating systems:

**Table 14. Supported OpenManage Change Management Software on Systems Running Supported Red Hat Enterprise Linux Operating Systems.**

Dell EMC Systems	SLES 15 SP2	RHEL 8.2 and RHEL 8.3	RHEL 7.8 and RHEL 7.9
yx5x generation of PowerEdge servers	D, S, L	D, S, L	D, S, L
yx4x generation of PowerEdge servers			
yx3x generation of PowerEdge servers			
yx2x generation of PowerEdge servers			
yx1x generation of PowerEdge servers			

## Supported Change Management Software on Virtualization Operating Systems

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

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

'**X**' indicates the Dell EMC 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 Change management software on systems running supported Virtualization operating systems.

**Table 15. Supported OpenManage Change Management Software on Systems Running Supported Virtualization Operating Systems for VMware**

Dell EMC Systems	VMware	
	vSphere 7.0 and vSphere 7.0 U1	vSphere 6.7 U3
yx5x generation of PowerEdge servers	X	X
yx4x generation of PowerEdge servers		
yx3x generation of PowerEdge servers		
yx2x generation of PowerEdge servers		
yx1x generation of PowerEdge servers		

# 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 - RACADM
- IPMI Tool in-Band
- BMC Management Utility and IPMI Tool Out-of-Band

## Topics:

- [iDRAC Tools - RACADM](#)
- [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](#)

## iDRAC Tools - RACADM

RACADM is a command-line utility that enables administrators to configure and replicate settings across multiple Dell remote access controllers (iDRACs). The RACADM utility supports operations by using command-line parameters, switches, and a configuration file that contains all data that is required to configure a iDRAC.

 **NOTE:** This release of OpenManage Software does not support VMCLI and iVMCLI tools.

## 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 2019	Microsoft Windows Server 2016	Microsoft Windows Servers 2012 R2
Service Pack	NA	NA	NA
Remote RACADM	X	X	X
Local RACADM	X	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**

<b>RACADM utility</b>	<b>RHEL 7.x</b>	<b>RHEL 8.x</b>
Remote RACADM	X	X
Local RACADM	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 18. Supported Linux Operating Systems for IPMITool In-Band**

<b>Supported Linux Operating Systems</b>	<b>IPMITool In-Band</b>
RHEL 8.x	X
RHEL 7.x	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 19. Supported Microsoft Windows Server Operating Systems for IPMITool**

<b>Supported Microsoft Windows Server Operating System</b>	<b>IPMITool</b>
Windows Server 2019	X
Windows Server 2016	X
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 20. Supported Microsoft Windows Server Operating Systems for BMU and IPMI Tool Out-of- Band**

<b>Supported Microsoft Windows Server Operating System</b>	<b>IPMITool Out-of- Band</b>
Windows Server 2019	X
Windows Server 2016	X
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 21. Supported Linux Operating Systems for IPMITool**

Supported Linux Operating Systems	IPMITool Out-of-Band
RHEL 8.x	X
RHEL 7.x	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:

**Table 22. NIC Manufacturers and Drivers Required for Supported Microsoft Windows Operating Systems**

NIC Product Name	Microsoft Windows Server Family
Broadcom BCM57504 25G KR Quad Port Fab AB Mezz	21.60.29.36
Intel(R) Ethernet 25G 2P E810-XXV OCP	Native
Intel(R) Ethernet 25G 2P E810-XXV Adapter	Native
Intel(R) Ethernet 10G 4P X710/I350 rNDC	19.5.0
Intel FPGA Programmable Acceleration Card D5005	Native
Dual Port 10Gb Ethernet (BCM57810S) LOM (FC430)	Native
Marvell QLogic Fibre Channel Single Port 32GFC PCIe Gen4 x8 Adapter	35.15.00
Marvell QLogic Fibre Channel Dual Port 32GFC PCIe Gen4 x8 Adapter	35.15.00
QLogic 57810S-K Dual Port 10Gb bNDC KR CNA	35.15.00
QLogic 57810S-k Dual Port 10Gb bMezz KR CNA	35.15.00
QLogic 57840S-K Quad Port 10Gb bNDC KR CNA	35.15.00

**Table 23. NIC Manufacturers and Drivers Required for Supported Red Hat Enterprise Linux Operating Systems**

NIC Product Name	Red Hat Enterprise Linux 7,8, 7.9, 8.2, and 8.3 and SLES 15 SP2
Broadcom BCM57504 25G KR Quad Port Fab AB Mezz	21.6.2
Intel(R) Ethernet 25G 2P E810-XXV OCP	NA
Intel(R) Ethernet 25G 2P E810-XXV Adapter	NA
Intel(R) Ethernet 10G 4P X710/I350 rNDC	NA
Intel FPGA Programmable Acceleration Card D5005	NA
Dual Port 10Gb Ethernet (BCM57810S) LOM (FC430)	NA
Marvell QLogic Fibre Channel Single Port 32GFC PCIe Gen4 x8 Adapter	35.15.00.08
Marvell QLogic Fibre Channel Dual Port 32GFC PCIe Gen4 x8 Adapter	35.15.00.08
QLogic 57810S-K Dual Port 10Gb bNDC KR CNA	Native
QLogic 57810S-k Dual Port 10Gb bMezz KR CNA	Native
QLogic 57840S-K Quad Port 10Gb bNDC KR CNA	35.15.00.08

# 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 EMC 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, HBA 330 MX, HBA 330 MMZ, PERC H745P MX, PERC H730P MX, PERC H745 Front, PERC H745 Adapter, PERC H345 Front, PERC H345 Adapter, HBA345 Adp, HBA345 Frnt, PERC H755N, PERC H755 Adapter, PERC H755 Front, HBA 355i Frnt, HBA 355i Adpt. and Dell PowerEdge PCIe Express Flash SSD.
- The RAID controller card group supports the following operating systems: Windows Server 2019, VMWare ESXi 7.0, VMWare ESXi 7.0 U1, VMware, VMware ESXi 6.7 U3, Red Hat Enterprise Linux 7.8, Red Hat Enterprise Linux 7.9, Red Hat Enterprise Linux 8.2, and Red Hat Enterprise Linux 8.3.

**NOTE:** The supported devices for yx5x generation of PowerEdge servers are PERC H730 and PERC H730P, PERC H740 and PERC H740P, PERC S150, PERC H745 Front, PERC H745 Adapter, PERC H345 Front, PERC H345 Adapter, HBA345 Adp, HBA345 Frnt, SAS12 Gbps, HBA330, PERC H755N, PERC H755 Adapter, PERC H755 Front, HBA 355i Frnt, HBA 355i Adpt PowerEdge PCIe Express Flash SSD. Refer platform supported operating system in earlier sections.

**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](#)
- [BOSS-S1 Modular](#)

- BOSS-S1 Adapter
- BOSS-S2
- PERC H745 Adapter
- PERC H745 Front
- PERC HBA345 Front
- PERC HBA345 Adapter
- PERC H345 Adapter
- PERC H345 Front
- 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 S110
- PERC S130
- PERC S140
- PERC S150
- 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
- PERC H755N
- PERC H755 Front
- PERC H755 Adapter
- HBA355i Frnt
- HBA355i Adpt
- SAS 6 Gbps HBA
- SAS 12Gbps HBA
- Internal Tape Adapter
- 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 24. PERC 6/E Adapter**

Storage Management Service supported elements	Version
Storage Management Service Version	6.5.0

**Table 24. PERC 6/E Adapter (continued)**

Storage Management Service supported elements	Version
Server Administrator Version	10.0.1
PERC Firmware Version	6.3.3-0002

## PERC 6i Adapter, Integrated, and Modular

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

The PERC 6/i Integrated supports the following 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 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 25. PERC 6/i Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	6.3.3-0002
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native

## SAS 6iR int Modular

The following tables list the elements that are supported by the SAS 6/iR Integrated and Adapter:

**Table 26. SAS 6/iR Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
SAS Firmware/BIOS Version	00.25.47.00/06.22.03.00
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native

## SAS 6 iR Integrated and Adapter

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

**Table 27. SAS 6/iR Integrated and Adapter**

Storage Management Service supported elements	Version
Storage Management Service Version	6.5.0
Server Administrator Version	10.0.1

**Table 27. SAS 6/iR Integrated and Adapter (continued)**

Storage Management Service supported elements	Version
SAS Firmware/ BIOS Version	00.25.47.00/06.22.03.00
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native

## PERC H200 Adapter, Integrated, and Modular

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

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

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

**Table 28. PERC H200 Modular controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	07.03.06.00
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native

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

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

**Table 29. PERC H310 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	20.13.3-0001
Windows Driver	6.805.03.00 / Not applicable
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
VMware ESXi 7.0 Driver and VMware ESXi 7.0 U1 Driver	Native
VMware ESXi 6.7 U3 Driver	Native

## BOSS-S1 Modular

The following tables list the other elements supported by the BOSS-S1 Modular controller.

**Table 30. OpenManage Supported Elements: BOSS-S1 Modular**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0

**Table 30. OpenManage Supported Elements: BOSS-S1 Modular (continued)**

Storage Management Service supported elements	Version
Server Administrator Version	10.0.1
PERC Firmware Version	2.5.13.3024
Windows Server 2019 Driver	1.2.0.1051
Windows Server 2016 Driver	1.2.0.1051
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## BOSS-S1 Adapter

The following tables list the other elements supported by the BOSS-S1 Adapter controller.

**Table 31. OpenManage Supported Elements: BOSS-S1 Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	2.5.13.1213
Windows Server 2019 Driver	1.2.0.1051
Windows Server 2016 Driver	1.2.0.1051
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## BOSS-S2

The following tables list the other elements supported by the BOSS-S2 controller.

**Table 32. OpenManage Supported Elements: BOSS-S2**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	2.5.13.4007
Windows Server 2019 Driver	1.2.0.1051

**Table 32. OpenManage Supported Elements: BOSS-S2 (continued)**

Storage Management Service supported elements	Version
Windows Server 2016 Driver	1.2.0.1051
Windows Server 2012 R2 Driver	Native
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMWare ESXi 7.0 and VMWare ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC H745 Adapter

The following tables list the other elements supported by the PERC H745 Adapter controller.

**Table 33. OpenManage Supported Elements: PERC H745 Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC H745 Front

The following tables list the other elements supported by the PERC H745 Front controller.

**Table 34. OpenManage Supported Elements: PERC H745 Front**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native

**Table 34. OpenManage Supported Elements: PERC H745 Front (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMWare ESXi 7.0 and VMWare ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC HBA345 Front

The following tables list the other elements supported by the PERC HBA345 Front controller.

**Table 35. OpenManage Supported Elements: PERC HBA345 Front**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	11.08.08.00
Windows Server 2019 Driver	2.60.88.01
Windows Server 2016 Driver	2.60.88.01
RedHat Enterprise Linux 7.x	Native
RedHat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC HBA345 Adapter

The following tables list the other elements supported by the PERC HBA345 Adapter controller.

**Table 36. OpenManage Supported Elements: PERC HBA345 Adapter**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	11.08.01.00
Windows Server 2019 Driver	2.60.88.01
Windows Server 2016 Driver	2.60.88.01
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native

**Table 36. OpenManage Supported Elements: PERC HBA345 Adapter (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC H345 Adapter

The following tables list the other elements supported by the PERC H345 Adapter controller.

**Table 37. OpenManage Supported Elements: PERC H345 Adapter**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	Native

## PERC H345 Front

The following tables list the other elements supported by the PERC H345 Front controller.

**Table 38. OpenManage Supported Elements: PERC H345 Front**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 6.7	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
SUSE Linux 15 SP2	Native
Ubuntu 20.04	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 39. PERC H330 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.6.0009
Windows Server 2016 Driver	6.604.06.00
Windows Server 2019 Driver	Native

# PERC HBA H330 Mini, Adapter

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

**Table 40. PERC HBA 330 Mini, Adapter controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	16.17.00.05
Windows Server 2016 / 2019 Driver	2.51.21.2 / 2.51.21.2

# PERC H700 Adapter, Integrated, and Modular

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

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

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

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

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

**Table 41. Dell EMC OpenManage Supported Elements: PERC H700 Adapter, Integrated, and Modular**

Storage Management Service supported elements	Version
Storage Management Service Version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	12.10.7-0001
Windows Server 2016 / 2019 Driver	Native / Not Applicable
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	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 42. PERC H710 Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	21.3.5-0002
Windows Server 2016 / 2019 Driver	6.805.03.00 / Not Applicable
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 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 43. PERC H730/H730P Adapter, Mini Blade, and Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.6.0009
Windows Server 2016 / 2019 Driver	6.604.06.00 / Native
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

# PERC H740 and H740P Adapter

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

**Table 44. PERC H740/H740P controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1

**Table 44. PERC H740/H740P controller (continued)**

Storage Management Service supported elements	Version
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC H800 Adapter

The PERC H800 Adapter supports the following 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 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 45. PERC H800 Adapter**

Storage Management Service supported elements	Version
Storage Management Service version	6.5
Server Administrator Version	10.0.1
PERC Firmware Version	12.10.7-0001
Windows Server 2016 / 2019 Driver	Native / Not Applicable
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native

## PERC H810 Adapter

The PERC H810 Adapter supports the following 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 46. PERC H810 Adapter controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	N/A
PERC Firmware Version	21.3.5-0002
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native
Windows Server 2016	6.805.03.00

**Table 46. PERC H810 Adapter controller (continued)**

Storage Management Service supported elements	Version
Windows Server 2019	Not Applicable

## PERC H830 Adapter, Mini Monolithic

The PERC H830 Adapter, Mini Monolithic support the following PowerEdge systems: R430, R530, R630, 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 47. PERC H830 Adapter, Mini Monolithic controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.6.0009
Windows Server 2016 / 2019 Driver	6.604.06.00 / Native
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC S110

The PERC S110 controller supports the following 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 EMC OpenManage Supported Elements: PERC S110**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	3.0.0.0139
Windows Server 2016 / 2019 Driver	Native / Not Supported
Red Hat Enterprise Linux 7.x	Not Supported
Red Hat Enterprise Linux 8.x	Not Supported
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Not Supported
VMware ESXi 6.7 U3 Driver	Not Supported

## PERC S130

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

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

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	4.2.0-0009
Windows Server 2019 Driver	4.3.0-0003
Windows Server 2016 Driver	4.3.0-0003

## 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	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	5.5.2.0003
Windows Server 2019 Driver	5.5.1-0002
Windows Server 2016 Driver	5.5.1-0002

## PERC S150

The following tables list the other elements supported by the PERC S150 controller.

**Table 51. OpenManage Supported Elements: PERC S150**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	6.0.3.0002
Windows Server 2019 Driver	6.0.2.0007
Windows Server 2016 Driver	6.0.2.0007

## PERC HBA 330MX

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

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

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	16.17.00.05
Windows Server 2019 Driver	2.51.21.2
Windows Server 2016 Driver	2.51.21.2

**Table 52. PERC HBA 330MX controller (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC HBA 330MMZ

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

**Table 53. PERC HBA 330MMZ controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	16.17.00.05
Windows Server 2019 Driver	2.51.21.2
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC H730P MX

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

**Table 54. PERC H730P MX controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.6.0009
Windows Server 2016 / 2019 Driver	6.604.06.00

## PERC H745P MX

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

**Table 55. PERC H745P MX controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	51.13.0-3299
Windows Server 2019 Driver	7.713.12.00

**Table 55. PERC H745P MX controller (continued)**

Storage Management Service supported elements	Version
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## FD33XS-PERC Single

The FD33XS-PERC Single controller supports the yx3x generation of PowerEdge systems.

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

**Table 56. FD33XS-PERC Single controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.5.000X
Windows Server 2019 Driver	6.604.06.00
Windows Server 2016 Driver	6.604.06.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## FD33XD-PERC Dual

The FD33XD-PERC Dual controller supports the yx4x generation of PowerEdge systems.

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

**Table 57. FD33XD-PERC Dual controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	25.5.5.000X
Windows Server 2016 / 2019 Driver	6.604.06.00 / Native
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## FD33XS-HBA 330 Single

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

**Table 58. FD33XS-HBA 330 Single controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
Firmware Version	16.17.00.05
Windows Server 2016 / 2019 Driver	6.604.06.00 / Native
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## FD33XD-HBA 330 Dual

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

**Table 59. FD33XD-HBA 330 Dual controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
Firmware Version	15.17.09.07
Windows Server 2019 Driver	2.51.21.2
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC H755N

The following tables list the other elements supported by the PERC H755N controller.

**Table 60. PERC H755N controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	52.13.0-3300
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native

**Table 60. PERC H755N controller (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC H755 Front

The following tables list the other elements supported by the PERC H755 Front controller.

**Table 61. PERC H755 Front controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	52.13.0-3300
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PERC H755 Adapter

The following tables list the other elements supported by the PERC H755 Adapter controller.

**Table 62. PERC H755 Adapter controller**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	52.13.0-3300
Windows Server 2019 Driver	7.713.12.00
Windows Server 2016 Driver	7.713.12.00
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## HBA355i Frnt

The following tables list the other elements supported by the HBA355i Frnt controller.

**Table 63. HBA355i Frnt controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	14.25.03.00
Windows Server 2019 Driver	2.61.06.02
Windows Server 2016 Driver	2.61.06.02
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## HBA355i Adpt

The following tables list the other elements supported by the HBA355i Adpt controller.

**Table 64. HBA355i Adpt controller**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	14.25.03.00
Windows Server 2019 Driver	2.61.06.02
Windows Server 2016 Driver	2.61.06.02
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMWare ESXi 7.0 and VMWare ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## SAS 6 Gbps HBA

The SAS 6 Gbps HBA supports the following 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 65. SAS 6 Gbps HBA**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	N/A
Firmware Version	07.03.06.00
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
VMware ESXi 6.5 U3 Driver	Native

**Table 65. SAS 6 Gbps HBA (continued)**

Storage Management Service supported elements	Version
VMware ESXi 6.7 U2 Driver	Native
VMware ESXi 6.7 U3 Driver	Native

## SAS 12Gbps HBA

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

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

**Table 66. Storage Management Service supported elements: SAS 12Gbps HBA**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	16.17.00.05
Windows Server 2016 / 2019 Driver	2.51.21.2
Red Hat Enterprise Linux 7.x	Native
Red Hat Enterprise Linux 8.x	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## Internal Tape Adapter

The Internal Tape Adapter supports the following 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 67. Internal Tape Adapter controllers**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	N/A
PERC Firmware Version	07.03.06.00
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Windows Server 2016 / 2019 Driver	Native / Not Applicable
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Not Supported
VMware ESXi 6.7 U3 Driver	Native

## PowerEdge PCIe Express Flash SSD

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

**Table 68. PowerEdge PCIe Express Flash SSD**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	B1442808
Windows Server 2019 Driver	Not Supported

## XS1715 PCIe SSD

**Table 69. PowerEdge XS1715 PCIe SSD**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	IPM0LD3Q
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## SM1715 PCIe SSD

**Table 70. PowerEdge SM1715 PCIe SSD**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	IPV48D3Q
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PM1725 PCIe SSD

**Table 71. PowerEdge PM1725 PCIe SSD**

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	KPYACD3Q

**Table 71. PowerEdge PM1725 PCIe SSD (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PM1725a PCIe SSD

**Table 72. PowerEdge PM1725a PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	1.1.1
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## PM1725b PCIe SSD

**Table 73. PowerEdge PM1725b PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	1.0.0
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## P4500 PCIe SSD

**Table 74. PowerEdge P4500 PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0

**Table 74. PowerEdge P4500 PCIe SSD (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Server Administrator Version	10.0.1
PERC Firmware Version	QDV1DP15
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## P4600 PCIe SSD

**Table 75. PowerEdge P4600 PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	QDV1DP15
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## P4510 PCIe SSD

**Table 76. PowerEdge P4510 PCIe SSD**

<b>Storage Management Service supported elements</b>	<b>Version</b>
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	VDV1DP20
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## P4610 PCIe SSD

Table 77. PowerEdge P4610 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	VDV1DP20
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## P4800x PCIe SSD

Table 78. PowerEdge P4800x PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	E201DB3D
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native
VMware ESXi 6.7 U3 Driver	Native

## Toshiba CD5 PCIe SSD

Table 79. PowerEdge Toshiba CD5 PCIe SSD

Storage Management Service supported elements	Version
Storage Management Service version	6.5.0
Server Administrator Version	10.0.1
PERC Firmware Version	0.1.10
Windows Server 2019 Driver	Native
Red Hat Enterprise Linux 7.x Driver	Native
Red Hat Enterprise Linux 8.x Driver	Native
Ubuntu 20.04 Driver	Native
VMware ESXi 7.0 and VMware ESXi 7.0 U1	Native

**Table 79. PowerEdge Toshiba CD5 PCIe SSD (continued)**

<b>Storage Management Service supported elements</b>	<b>Version</b>
VMware ESXi 6.7 U3 Driver	Native