

# Dell EMC Storage PowerTools Server Hardware Manager 2.2

Support Matrix

## 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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# Contents

<b>1 Introduction .....</b>	<b>4</b>
<b>2 Dell EMC Storage enclosure rules .....</b>	<b>5</b>
<b>3 Supported software, firmware, and hardware.....</b>	<b>6</b>
Supported storage enclosure firmware .....	6
Supported operating systems .....	6
Supported SAS host bus adapters.....	7
Supported Dell EMC servers .....	8
Supported physical disk drives .....	9
<b>4 Getting help.....</b>	<b>10</b>
Contacting Dell EMC.....	10

# Introduction

When an enclosure is used for server or enclosure expansion, it is known as a storage enclosure. This document provides information about supported software, firmware, and hardware for Dell EMC Storage when used as a storage enclosure.

## NOTE:

- When the Dell EMC PowerVault MD3060e is used for MD3XXX Series (MD32XX/MD36XX/MD38XX) Storage Array expansion, it is referred to as an expansion enclosure. For more information about the Dell EMC PowerVault MD3060e when used as an expansion enclosure, refer to the *MD3XXX Series Storage Array Support Matrix* available at [Dell.com/support](http://Dell.com/support).
- This Support Matrix contains the latest compatibility and interoperability information. This document supersedes all other documentation information.

# Dell EMC Storage enclosure rules

For more information about the supported enclosure, refer to the Support Matrix available at [Dell.com/support](https://Dell.com/support).

# Supported software, firmware, and hardware

This chapter describes the supported configurations, such as storage enclosure firmware, operating systems (OSs), SAS host bus adapters (HBAs), Dell EMC servers, and physical disk drives.

Topics:

- Supported storage enclosure firmware
- Supported operating systems
- Supported SAS host bus adapters
- Supported Dell EMC servers
- Supported physical disk drives

## Supported storage enclosure firmware

Dell EMC Storage enclosures have two Enclosure Management Modules (EMMs). EMMs must have the same firmware version. EMMs do not automatically synchronize firmware, and must be upgraded individually.

**Table 1. Storage enclosure firmware**

Enclosure model	Earliest firmware version supported
Dell EMC PowerVault MD3060e	03.9D
Dell EMC Storage MD1400/MD1420	1.02
Dell EMC Storage MD1200/MD1220	1.05
Dell EMC Storage MD1280	2.14f
Dell EMC Storage ME484 as JBOD	5.2.0.26

## Supported operating systems

When clustering is supported by the OS, clustering is also supported on the Dell EMC Storage enclosure, subject to the following limitations:

**Table 2. Supported OS**

OS	SAS host server	Notes and required hotfixes
<b>Windows</b>		
Windows Server 2012 R2 Standard Server and Core	✓	Ensure that you apply the latest OS updates.
Windows Server 2012 R2 Datacenter Server and Core	✓	Ensure that you apply the latest OS updates.
Windows Server 2016 Standard Server and Core	✓	Ensure that you apply the latest OS updates.

OS	SAS host server	Notes and required hotfixes
Windows Server 2016 DataCenter Server and Core	✓	Ensure that you apply the latest OS updates.
<b>Linux</b>		
Red Hat Enterprise Linux/CentOS 7.x	✓	Ensure that you apply the latest OS updates.
Red Hat Enterprise Linux/CentOS 6.x	✓	Ensure that you apply the latest OS updates.
SUSE Linux Enterprise Server 12.x	✓	Ensure that you apply the latest OS updates.
SUSE Linux Enterprise Server 11.x	✓	Ensure that you apply the latest OS updates.
Ubuntu 16.04 LTS	✓	Ensure that you apply the latest OS updates.
Ubuntu 14.04 LTS	✓	Ensure that you apply the latest OS updates.
<b>VMware</b>		
ESXi 6.5	✓	Server Hardware Manager CLI ( <code>shmccli</code> ) command only
ESXi 6.0	✓	Server Hardware Manager CLI ( <code>shmccli</code> ) command only

## Supported SAS host bus adapters

The following host bus adapters (HBAs) are supported with the Dell EMC Storage enclosures:

- LSI 9207-8e SAS HBA (for Dell EMC PowerEdge 12th and 13th generation servers)
- Dell EMC 12 Gbps SAS HBA (only for Dell EMC PowerEdge 13th generation servers): Support for three MD1400 or MD1420 enclosures only.
- LSI 9207-8i SAS HBA (only for Dell EMC PowerEdge 12th generation servers)
- LSI 9300-8e (only for Dell EMC PowerEdge 13th generation servers)

You can obtain the supported HBA drivers and firmware from the Dell EMC support website at [Dell.com/support](https://www.dell.com/support).

**Table 3. Supported HBA components**

Vendor	Model	Component	Minimum version required
LSI	9207-8e	Firmware	20.00.00.00
		Windows driver	2.069.1
		RHEL driver	18.00.00.00-1
		Ubuntu driver	18.00.00.00-1
Dell EMC	12 Gbps SAS HBS	Firmware	03.09.00.00
		Windows driver	2.50.75.01
		RHEL/SLES driver	4.00.01.00
		Ubuntu driver	Not supported on Ubuntu
LSI	9207-8i	Firmware	20.00.00.00

Vendor	Model	Component	Minimum version required
LSI	9265	Windows driver	2.069.1
		RHEL driver	18.00.00.00-1
		Ubuntu driver	18.00.00.00-1
		Firmware	20.00.00.00
LSI	LSI 9300-8e	Windows driver	2.069.1
		RHEL driver	18.00.00.00-1
		Ubuntu driver	18.00.00.00-1
		Firmware	8.21.00.00
LSI	LSI 9286-8e	Windows driver	2.51.01.00
		RHEL driver	10.00.00.00-1
		Ubuntu driver	10.00.00.00-1
		Firmware	23.34.0-0005
LSI	LSI 9361-8i	Windows driver	2.069.1
		RHEL driver	18.00.00.00-1
		Ubuntu driver	18.00.00.00-1
		Firmware	24.3.0-0050
Dell EMC PERC	H310/H710/H810	Windows driver	2.51.01.00
		RHEL driver	18.00.00.00-1
		Ubuntu driver	18.00.00.00-1
Dell EMC PERC	H730/H830	Firmware	21.0.2-0001
		Windows driver	6.803.21.00
		RHEL driver	6.902.01.00
Dell EMC PERC	H730/H830	Firmware	25.2.2-0004
		Windows driver	6.602.07.00
		RHEL driver	06.901.04.00

## Supported Dell EMC servers

**Table 4. Supported Dell EMC host servers**

### Model

Dell EMC EMC PowerEdge R630

Dell EMC EMC PowerEdge R730

## Model

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Dell EMC PowerEdge R730xd

Dell EMC PowerEdge R620

Dell EMC PowerEdge R720

Dell EMC PowerEdge R720xd

Dell EMC PowerEdge R640

Dell EMC PowerEdge R740

Dell EMC PowerEdge R740xd

Dell EMC PowerEdge R940

Dell EMC PowerEdge C6420

Dell EMC Datacenter Scalable Solutions DSS7000

## Supported physical disk drives

For the latest available physical disk drive firmware, refer to the specific Dell EMC storage enclosure **Drivers and Downloads** section at [Dell.com/support](https://www.dell.com/support).

# Getting help

## Contacting Dell EMC

Dell EMC provides several online and telephone based support and service options. If you do not have an active internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell EMC product catalog. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical assistance, or customer service issues:

- 1 Go to [Dell.com/support/home](https://Dell.com/support/home)
- 2 Select your country from the drop-down menu on the lower right corner of the page.
- 3 For customized support:
  - a Enter your system Service Tag in the **Enter your Service Tag** field.
  - b Click **Submit**.The support page that lists the various support categories is displayed.
- 4 For general support:
  - a Select your product category.
  - b Select your product segment.
  - c Select your product.The support page that lists the various support categories is displayed.
- 5 For contact details of Dell EMC Global Technical Support:
  - a Click [Global Technical Support](#).
  - b The **Contact Technical Support** page is displayed with details to call, chat, or e-mail the Dell EMC Global Technical Support team.