Dell™ PowerVault™ MD1200 and PowerVault™ **MD1220** Interoperability Guide

This document provides information about the supported hardware and software versions for Dell™ PowerVault™ MD1200 and PowerVault™ MD1220 systems.



NOTE: The versions specified in this document use the same format as found on support.dell.com/support/downloads and may differ from the version information displayed in the Windows® Device Manager or Dell™ OpenManage™ Server Administrator.

Rules and Considerations

The following are the connectivity and consideration rules for the Dell PowerVault MD1200 and MD1220:

Table 1. Dell PowerVault MD1200 and PowerVault MD1220 Rules and Considerations

PERC H800 is the only host controller supported for PowerVault MD1200 and PowerVault MD1220.

Note: MD1200/1220 is also supported as an expansion unit behind MD32xx

6Gb/s SAS drives are configured in the MD1200 and MD1220 from Dell's factory, and 3Gb/s SAS drives are supported in the field with the supported MD1200 and MD1220 carriers.

Mixing of PowerVault MD1200 and PowerVault MD1220 on the same physical PERC H800 controller and in the same daisy chain is supported. Dell PowerVault MD1120 and PowerVault MD1000 systems cannot coexist on the same controller as a PowerVault MD1200 or PowerVault MD1220 system.

It is recommended that PowerVault MD1200 and PowerVaultMD1220 be powered up first before the server.

A maximum of four PowerVault MD1200 or PowerVault MD1220 systems can be daisy-chained on each RAID controller port, for a total of 96 3.5" disk drives on PowerVault MD1200 or 192 2.5" disk drives on PowerVault MD1220 using the dual-ported PERC H800 controller.

Connecting a PowerVault MD1200 or PowerVault MD1220 to a PowerVault MD3000 or PowerVault MD3000i is not supported. Connecting to an MD32xx is supported.

Supported Servers

PowerEdge™ MD1200 and MD1220 are supported with Dell™ 11th Generation PowerEdge™ Servers that support the PERC H800. For the latest PERC H800 support matrix, visit the PERC web page at www.dell.com/PERC.

Supported Host Controllers

Table 3. Dell PowerVault MD1200 and PowerVault MD1220 Supported Host Controllers

PERC ESG Controller

Dell PERC H800 Adapter

Dell MD32xx

Supported Operating Systems

If a PERC H800 is supported in a server then the PowerVault MD1200/1220 is supported on that server.

To determine the latest supported operating system perform the following two steps:

- 1) Reference **www.dell.com/perc** to verify PERC H800 controller support within a platform.
- 2) Using the info from step one, reference <u>www.dell.com/ossupport</u> to see the latest supported Operating Systems for that platform.

Supported Physical Drives

Table 4 outlines the physical drives supported by MD1200 and MD1220 at the time of initial launch. Additional drive support may be added after launch. Please visit <u>support.dell.com</u> for an updated list of supported physical drives.

NOTE: Only Dell provided physical drives are supported.

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	Dell P/N	Model	Capacity	Speed	Vendor
Form Factor					
3.5"	U717K	ST3500414SS	500GB	7.2K	Seagate
3.5"	U738K	ST31000424SS	1TRB	7.2K	Seagate
3.5"	R755K	ST32000444SS	2TRB	7.2K	Seagate
3.5"	X163K	ST3450757SS	450GB	15K	Seagate
3.5"	T873K	ST3600957SS	600GB	15K	Seagate
3.5"	X164K	ST31000425SS	1TRB	7.2K	Seagate
3.5"	W350K	ST32000445SS	2TRB	7.2K	Seagate
3.5"	F617N	ST3300657SS	300GB	15K	Seagate
3.5"	X150K	HUS156030VLS600	300GB	15K	Hitachi
3.5"	R749K	ST3450857SS	450GB	15K	Seagate
3.5"	T875K	HUS156045VLS600	450Gb	15k	Hitachi
3.5"	W347K	ST3600057SS	600GB	15K	Seagate
2.5"	R734K	ST9500430SS	500GB	7.2K	Seagate
2.5"	R744K	ST9300503SS	300Gb	10K	Seagate
2.5"	U733K	ST9146752SS	146GB	15K	Seagate
2.5"	W335K	ST9500431SS	500GB	7.2K	Seagate
2.5"	R727K	MBE2073RC	73GB	15K	Fujitsu
2.5"	R730K	HUC151473CSS600	73GB	15K	Hitachi
2.5"	W345K	ST973452SS	73GB	15K	Seagate
2.5"	X143K	MBD2147RC	146GB	10K	Fujitsu
2.5"	T855K	HUC103014CSS600	146GB	10K	Hitachi
2.5"	X160K	ST9146803SS	146GB	10K	Seagate
2.5"	W328K	MBE2147RC	146GB	15K	Fujitsu
2.5"	W330K	HUC151414CSS600	146GB	15K	Hitachi
2.5"	X162K	ST9146852SS	146GB	15k	Seagate
2.5"	U709K	ST9146852SS	300GB	10K	Hitachi
2.5"	T871K	ST9300603SS	300GB	10K	Seagate
2.5"	X1MCH	LB150S	149GB	SSD	Pliant

Supported Firmware and Software

Table 5 lists the minimum firmware and software versions supported for PowerVault™ MD1200 and MD1220 systems, supported controllers, supported drives, and management software. For the latest firmware versions, visit support.dell.com/support/downloads.

Table 5. Dell PowerVault MD1200 and MD1220 Minimum Supported Firmware and Software

Device	Firmware/Software	Release Number	Version Number	Revision
MD1200 and MD1220 EMM	Firmware	R248792	1.01	A00
MD1200 and MD1220 Storage Manager	OpenManage 6.2	R250926	OM6.2	OM6.2
MD1200 and MD1220 Supported HDDs	HDD Firmware	See Dell suppo	rt website for la	test HDD firmware
MD1200 and MD1220 Host Controller	PERC H800 Firmware	R245222	12.0.1-0083	A00
	PERC H800 Driver		on Operating System See for latest H800	•

Supported SAS Cables

Table 6. Dell PowerVault MD1200 and MD1220 Supported Cables

Length	Dell Part Number	Use
0.6m (meter)	W508F	Daisy Chain only to another MD1200 or MD1220
1.0m (meter)	171C5	Connect to PERC H800 or Daisy Chain to another MD1200 or MD1220
2.0m (meter)	W390D	Connect to PERC H800 or Daisy Chain to another MD1200 or MD1220
4.0m (meter)	U651D	Connect to PERC H800 or Daisy Chain to another MD1200 or MD1220

Supported Hardware Configurations

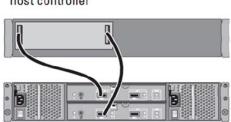
NOTE: The following PowerVault MD1200 and MD1220 hardware configurations are supported only on Dell qualified hardware.

Figure 1. Dell PowerVault MD1200 and MD1220: Single Enclosure, Unified Mode

host controller host controller

Single Hast, Single Controller, Single Data Path

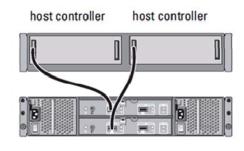
MD1200 or MD1220 Enclosure in Unified Mode



Single Host, Single Controller, Redundant Data Path

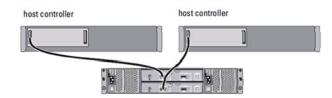
MD1200 or MD1220 Enclosure in Unified Mode

Figure 2. Dell PowerVault MD1200 and MD1220: Single Enclosure, Split Mode



Single Host, Dual Controllers

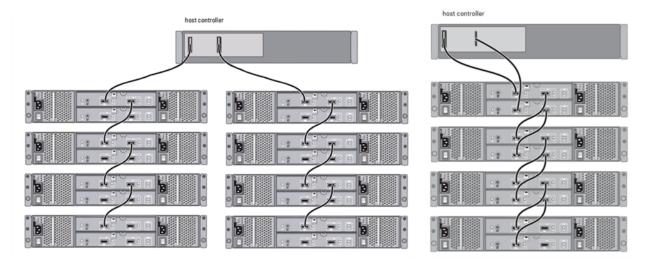
MD1200 or MD1220 Enclosures in Split Mode (expansion not supported)



Dual Host, Single Controllers

MD1200 or MD1220 Enclosure in Split Mode (expansion not supported)

Figure 3. Dell PowerVault MD1200 and MD1220: Maximum Configuration with Enclosure Daisy Chain Expansion



Single Host, Single Controller

Single Host, Single Controller, Redundant Path

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