Dell™ PowerVault™ MD1120 Support Matrix

This document provides information on supported software and hardware for Dell PowerVault MD1120 systems.

NOTE: For the latest driver and firmware releases, see the Downloads section at **support.dell.com**.

Rules and Considerations

The following are the connectivity and consideration rules for the Dell PowerVault MD1120:

Table 1. Dell PowerVault MD1120 Rules and Considerations

No external SAS cables should be connected to the secondary enclosure management module (EMM) in unified mode.
PERC6/E is the only host controller supported for the Dell PowerVault MD1120.
Only SAS drives are supported.
Combining a PowerVault MD1120 and PowerVault MD1000 on the same physical PERC6/E controller is not supported. A PowerVault MD1120 and PowerVault MD1000, however, can coexist on the same server as long as they are connected to their own respective RAID controllers.
The PowerVault MD1120 can contain a combination of different physical disk capacities and spindle speeds.
The PowerVault MD1120 must be powered up first before the server is powered up.
A maximum of three PowerVault MD1120 units can be daisy-chained on each RAID controller port, for a total of 144 disk drives using the dual-ported PERC6/E controller.
Connecting a PowerVault MD1120 to a PowerVault MD3000 or PowerVault MD3000i is not supported.
The maximum number of PERCs that can be connected to an MD1120 in unified mode is one, and for the split mode the maximum number of PERCs that can be connected is two.

Supported Servers

Table 2. Dell PowerVault MD1120 Supported Servers

PowerEdge™ 860
PowerEdge 1950
PowerEdge 2900
PowerEdge 2950
PowerEdge 2970

Table 2. Dell PowerVault MD1120 Supported Servers *(continued)*

PowerEdge 6950
PowerEdge R200
PowerEdge R300
PowerEdge R805
PowerEdge R905
PowerEdge R900
PowerVault NF500
PowerVault NF600

Supported Operating Systems

PERC 6/E Adapter With Dell PowerVault MD1120

Table 3. Supported Operating Systems for the Dell PowerVault MD1120

Operating System	Version Number	Revision
Microsoft® Windows Server® 2003 32-bit Standard and Enterprise SP1, R2 and SP2	2.14.0.32	A05
Microsoft Windows Server 2003 Standard and Enterprise x64 Edition SP1, R2 and SP2	2.14.0.64	A05
Microsoft Windows Server 2008 32-bit Standard, Enterprise and Web	2.20.0.32	A00
Microsoft Windows Server 2008 x64 Standard, Enterprise and Web	2.20.0.64	A00
Red Hat Enterprise Linux V4.0 Update 2, Update 3, Update 4, Update 5, Update 6 (AS, ES, WS), 32 bit and 64 bit (2.6 kernel)	00.00.03.16-1	A07
Red Hat® Enterprise Linux® V5.0 and V5.0 Update 1 (AS, ES, WS), 32 bit and 64 bit (2.6 kernel)	00.00.03.16-1	A07
SUSE® Linux Enterprise Server V9.0 x64 Service Pack 2, Service Pack 3, Service Pack 4	00.00.03.16-1	A07
SUSE Linux Enterprise Server V10.0 x64 Service Pack 1	00.00.03.16-1	A07

Supported Physical Disks

NOTE: Only Dell provided physical disks are supported. Physical disks not purchased from Dell will be marked as uncertified and will not be usable.

Table 4. Supported Physical Disks for Dell PowerVault MD1120 Systems

Drive	Model Number	Current Firmware Revision
Seagate SAS 73GB 10K RPM	ST973402SS	S229
Seagate SAS 146GB 10K RPM	ST9146802SS	S229

Table 4. Supported Physical Disks for Dell PowerVault MD1120 Systems *(continued)*

Drive	Model Number	Current Firmware Revision
Seagate SAS 36GB 15K RPM	ST936751SS	SM04
Seagate SAS 73GB 15K RPM	ST973451SS	SM04
Fujitsu SAS 73GB 10K RPM	MBB2073RC	D406
Fujitsu SAS 146GB 10K RPM	MBB2147RC	D406
Fujitsu SAS 36GB 15K RPM	MBC2036RC	D505
Fujitsu SAS 73GB 15K RPM	MBC2073RC	D505

Supported Management Software for Windows and Linux

The supported management software for the Dell PowerVault MD1120 is OMSA 5.4 (minimum level for MD1120 support).

Supported Controller Firmware

Table 5. Dell PowerVault MD1120 Supported Controller Firmware

Controller	Operating System/Firmware	Last Update	Release Number	Version Number	Revision
MD1120 Controller	Firmware	06/16/08	R188485	A.01	A.01

Table 6. PERC 6/E Supported Controller Firmware

Controller	Operating System/Firmware	Last Update	Release Number	Version Number	Revision
MD1120 PERC 6/E	Firmware & Drivers	02/05/08	R178171	6.0.2-0002	A.03

Supported SAS Cables

Table 7. Dell PowerVault MD1120 Supported Cables

Length	Dell part number	Use
0.6m (meter)	HR216	Daisy chain only to another MD1120
1m (meter)	R8200	Connect to PERC6/E or Daisy Chain to another MD1120
2m (meter)	J9189	Connect to PERC6/E or Daisy Chain to another MD1120
4m (meter)	N8416	Connect to PERC6/E or Daisy Chain to another MD1120

Supported Hardware Configurations

NOTE: The following PowerVault MD1120 hardware configurations are supported only on Dell qualified hardware.

Unified Mode Configurations

Figure 1. Single Host Server, Unified Mode (No Expansion)

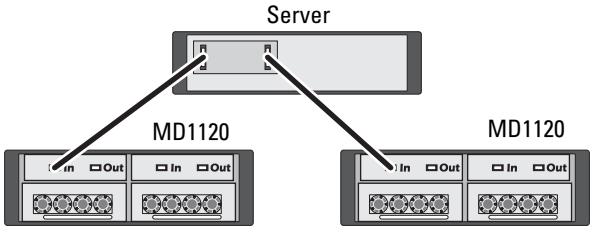
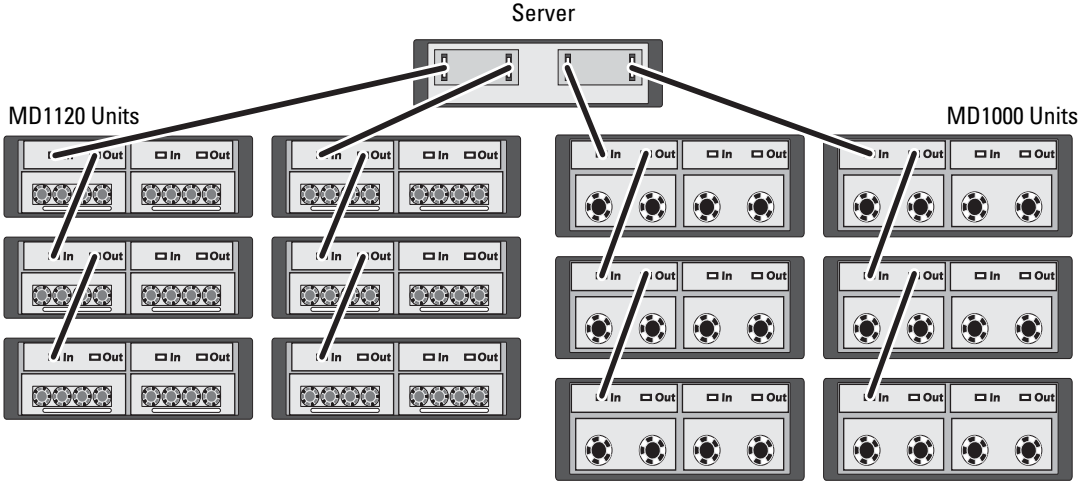


Figure 2. Single Host Server, Unified Mode (MD1120 and MD1000 Maximum Expansion)



NOTE: MD1120 and MD1000 enclosures cannot be attached in the same expansion chain, or connected to the same host server controller.

Split Mode Configurations

NOTE: In split mode, you can cable the enclosure to operate in either a two-host or single-host configuration. In single-host configuration, you can cable both EMMs to either the same host controller, or to a separate host controller.

Figure 3. Single Host Server, Split Mode (Expansion Not Supported)

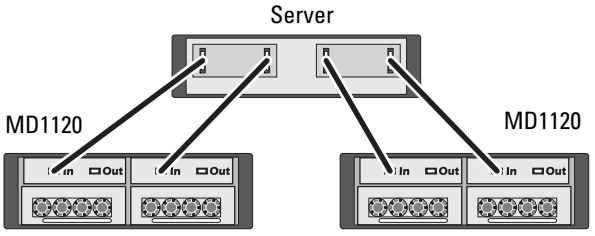


Figure 4. Two Host Servers, Split Mode (Expansion Not Supported)

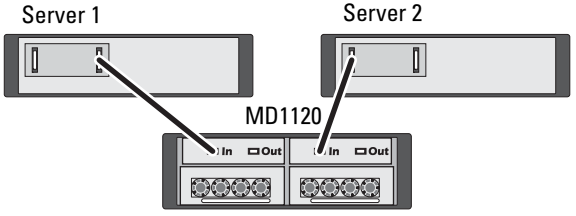
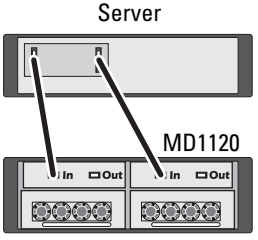


Figure 5. Single Host Server and Single MD1120, Split Mode (Expansion Not Supported)



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