Dell DL4000 Backup and Recovery Appliance - Interoperability Guide

This document provides information about the supported hardware and software versions for the Dell DL4000 Backup and Recovery Appliance.

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

Supported Hardware

This section lists the hardware supported by DL4000 system. Where applicable, firmware and driver versions are also listed.

BIOS Versions

System	BIOS Version
DL4000	2.3.0 or later

Memory

System	Version	Total	Type
DL4000	Standard	64GB	Eight (8) 8GB 1600Mhz RDIMM
	High Capacity	128GB	Eight (8) 16GB 1600MHz RDIMM

NOTE: Early versions of the DL4000 Standard may be upgraded from 32GB to 64GB by replacing the eight (8) 4GB RDIMM with eight (8) Dell 8GB 1600MHz RDIMM.

Hard Drives (Internal)

System	Internal RAID Controller	Slots	Drive Type	RAID Level
DL4000	PERC H710P	0-1	Two (2) hot-swappable 2.5-inch SAS drives	1
		2-9	Eight (2) hot-swappable 2.5-inch Nearline SAS drives	6

Storage Enclosures

Storage Enclosure	FW Revision	Number of Enclosures Supported
MD1200 SAS	1.0.1 or later	Four (4)
Compellent (Fiber Channel)	All	Up to 80TB
MD3600f		Up to 80TB

NOTE: To connect or disconnect the redundant SAS cable(s), the DL4000 system must be powered off. One cable may be unplugged while the server is running. Do not disconnect both cables while the server is running or the external array disk will later be rediscovered as foreign disks.

Hard Drives (External)

Storage Enclosure	RAID Controller	Drive Type	Drive Capacity
MD1200	PERC H810	Nearline SAS	1TB , 2TB, 3TB, 4TB (High Capacity)

Network Interface Controllers (NIC)

System	NIC	Driver Revision
DL4000 (All Capacities)	Broadcom 57800S Quad-Port 1GbE NDC	16.2.0.4 or later
DL4000 Standard Capacity	Intel I350 Quad-Port 10GbE NIC [Low Profile Bracket]	12.0.150.0 or later
DL4000 High Capacity	Broadcom BCM57810 10GbE NIC [Low Profile Bracket]	16.2.0.4 or later

Fiber Channel Controllers

System	HBA	Driver Revision
DL4000 High Capacity only	Qlogic QLE 2562	9.1.11.28 or later
	Emulex LPE 12002	2.72.205.4 or later

Network Cabling

Description	Broadcom SFP+ NIC Ports	Dell Cust Kit SKU
Dell Networking, Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 1 Meter	X	332-1665
Dell Networking, Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 3 Meters	X	332-1368
Dell Networking, Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 5 Meters	X	332-1666
SFP+, Short Range, Optical Tranceiver, LC Connector, 10Gb and 1Gb compatible for Intel and Broadcom	X	330-8721
Cisco 10Gb SFP+ Twinax, 1m	X	SFP-H10GB-CU1M
Cisco 10Gb SFP+ Twinax, 3m	X	SFP-H10GB-CU3M
Cisco 10Gb SFP+ Twinax, 5m	X	SFP-H10GB-CU5M

Fiber Channel Switch

System	Switch
DL4000 High Capacity only	Brocade 8GB FC models

RAID Controllers

 NOTE: Dell does not support upgrading internal RAID controllers. The internal controller shipped with the system is the only supported configuration.

System	RAID Controller	Max Number of Controllers	Firmware Revision	Driver Revision
DL4000	PERC H710P	1	21.2.0-0007 or later	6.801.05.00 or later
	PERC H810	1	21.2.0-0007 or later	6.801.05.00 or later

Display Resolution
The minimum display resolution is 1280x1024.

Supported Software
This section lists the supported operating systems and applications on the Dell DL4000 Backup and Recovery Appliance.

 NOTE: Running applications other than those listed in this document on the DL4000 Appliance is not supported.

Operating System
 NOTE: Clustering is not supported on the DL4000 Backup and Recovery Appliance.

System	Operating System
DL4000	Microsoft Windows Server 2012 Standard Edition

Applications

System	Application	Application Type	Version
DL4000	Dell™ OpenManage™ Server Administrator	Systems Management	7.4.0 or later

Backup Software

See the following tables for information about the supported versions of backup software. The required version is determined by the system and installed RAID controller(s).

AppAssure

System	RAID Controller	5.4.2.228
DL4000	PERC H710P, PERC H810	✓

Appliance Software Stack Release

See the following table for information about the supported versions of the appliance software stack. The required version is determined by the system, the installed RAID controller, and (if applicable) HBA.

System	RAID Controller	2.x
DL4000	PERC H710P, PERC H810	✓

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