

DL4300 Appliance

# Interoperability Guide



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# Notes, cautions, and warnings



**NOTE:** A NOTE indicates important information that helps you make better use of your computer.



**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

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This document provides information about the supported hardware and software versions for the Quest DL4300 Appliance.

The versions specified in this document use the same format as found on [Quest.com/support](https://quest.com/support) 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 DL4300 appliance. Where applicable, firmware and driver versions are also listed.

## BIOS versions

Table 1. BIOS versions

The DL4300 system supports BIOS version 2.3.0 or later.

System	BIOS version
DL4300	2.3.0 or later

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## Memory

Table 2. Supported memory configurations

The DL4300 Standard Edition system has a maximum memory module capacity of 128 GB. The system can be populated with eight 16-GB RDIMMs with a clock frequency of 2133 Mhz. The DL4300 High-Capacity Edition system has a maximum memory module capacity of 256 GB. The system can be populated with sixteen 16-GB RDIMM with a clock frequency of 2133 Mhz.

System	Version	Total	Type	Frequency
DL4300	Standard Edition	64 GB or 128 GB	(4) 16 GB RDIMM or (8) 16 GB RDIMM	2133 Mhz
	High Capacity Edition	128 GB or 256 GB	(8) 16 GB RDIMM or (16) 16 GB RDIMM	2133 Mhz

Parent topic

## Processor

Table 3. Supported processor

The DL4300 Standard Edition system supports E5-2640 v4 processor and DL4300 High Capacity Edition system supports E5-2660 v3 processor.

System	Processor
DL4300 (Standard Edition)	E5-2640 v4
DL4300 (High Capacity Edition)	E5-2660 v3

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## Hard drives (internal)

Table 4. Supported internal hard drives

The Quest DL4300 system with a PERC H730P raid controller adapter manages two hot-swappable 2.5-inch rear hard drives connected to SATA chipset, twelve hot-swappable 3.5-inch Nearline SAS drives, and four 3.5-inch internal hard drives configured at RAID-6.

System	Internal RAID Controller	Drive Type	RAID Level
DL4300	PERC H730P	Two hot-swappable 2.5-inch rear hard drives connected to a SATA chipset	6
		Twelve hot-swappable 3.5-inch Nearline SAS drives	6
		Four 3.5 inch internal hard drives	6

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## Storage enclosures

Table 5. Supported storage enclosures

The DL4300 system supports up to four MD1400 SAS storage enclosures with firmware version 1.0.1 or later installed on it. The DL4300 system supports up to 120TB of capacity, with the Compellent (Fiber Channel) and MD3600f storage enclosures supported by all firmware versions.

Storage enclosure	FW revision	Number of enclosures supported	Capacity expansion supported
MD1400 SAS	1.0.1 or later	Four (4)	-
Compellent (Fiber Channel)	All	-	Up to 120 TB
MD3600f	-	-	Up to 120 TB



**NOTE:** To connect or disconnect the redundant SAS cable(s), the DL4300 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.

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Parent topic

## Hard drives (external)

Table 6. Supported external hard drives

The MD 1400 with a PERC H730 raid controller adapter manages Nearline SAS drives of capacities 12 TB, 24 TB, 48 TB or 72 TB.

Storage enclosure	RAID controller	Drive type	Drive capacity
MD1400	PERC H830	Nearline SAS	12x1 TB or 12x2 TB or 12x4 TB or 12x6 TB

Parent topic

## Network Interface Controllers (NIC)

Table 7. Supported NICs

The DL4300 Standard Capacity system supports: Broadcom 5720 QP 1Gb, Broadcom 5719 QP 1Gb or Broadcom 57810 DP 10Gb SFP+ NIC adapters with driver version of 12.0.150.0 or later. The DL4300 High Capacity system supports Broadcom 57800 and 57810 DP 10 Gb SFP+ NIC adapter with driver version of 16.2.0.4 or later.

System	NIC	Driver revision
DL4300 (Standard Capacity Edition)	Broadcom 5720 QP 1Gb, Broadcom 5719 QP 1Gb or Broadcom 57810 DP 10Gb SFP+, QLogic 57810 DP 10Gb Base-T Low Profile	17.2.0
DL4300 (High Capacity Edition)	Broadcom 57800 and 57810 DP 10 Gb SFP+, Broadcom 5720 QP 1Gb, QLogic 57810 DP 10Gb Base-T Low Profile	17.2.0

Parent topic

## Fiber channel controllers

Table 8. Supported fiber channel controllers

The DL4300 high capacity edition system supports Qlogic QLE 2562 HBA with driver version 9.1.11.28 or later OR Qlogic 2662 Dual Port 16GB Fibre Channel HBA, Low profile, and Emulex LPE 12002 with driver version 2.72.205.4 or later.

System	HBA	Driver revision
DL4300 High Capacity Edition only	Qlogic QLE 2562	9.1.11.28 or later
	Qlogic 2662 Dual Port 16GB Fibre Channel HBA, Low profile	
	Emulex LPE 12002	2.72.205.4 or later

Parent topic

## Network cabling

Table 9. Supported network cabling

The Dell Networking Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 1 Meter has a customer kit SKU number of 332-1665. The Dell Networking Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 3 Meters has a customer kit SKU number of 332-1368. The Dell Networking Cable, SFP+ to SFP+, 10GbE, Copper Twinax Direct Attach Cable, 5 Meters has a customer kit SKU number of 332-1666. The SFP+, Short Range, Optical Tranceiver, LC Connector, 10Gb and 1Gb compatible for Intel and Broadcom has a customer kit SKU number of 330-8721. The Cisco 10Gb SFP+ Twinax, 1m has a customer kit SKU number of SFP-H10GB-CU1M. The Cisco 10Gb SFP+ Twinax, 3m has a customer kit SKU number of SFP-H10GB-CU3M. The Cisco 10Gb SFP+ Twinax, 5m has a customer kit SKU number of SFP-H10GB-CU5M.

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

Parent topic



# Fiber channel switch

Table 10. Supported fiber channel switch

The DL4300 High Capacity Edition system supports Brocade 8GB fiber channel switches.

System	Switch
DL4300 High Capacity Edition only	Brocade 8 GB FC models

Parent topic

# RAID controllers

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

Table 11. Supported RAID controllers

The DL4300 system supports one PERC H730P RAID Controller and one PERC H830 RAID Controller installed with a firmware version of 21.2.0-0007 or later and driver version of 6.801.05.00 or later.

System	RAID Controller	Max Number of Controllers	Firmware Revision	Driver Revision
DL4300	PERC H730P	1	25.2.1.0037 or later	6.801.05.00 or later
	PERC H830	1	25.2.1.0037 or later	6.801.05.00 or later

Parent topic

# Display resolution

The minimum display resolution is 1280x1024.

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# Supported software

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This section lists the supported operating systems and applications on the DL4300 appliance.



**NOTE:** Running applications other than those listed in this document on the DL4300 Appliance is not supported.

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## Operating system



**NOTE:** Clustering is not supported on the DL4300 Appliance.

Table 12. Supported operating system

The DL4300 system supports Microsoft Windows Server 2012 R2 Standard Edition.

System	Operating System
DL4300	Microsoft Windows Server 2012 R2 Standard Edition

Parent topic

## Applications

Table 13. Supported applications

The DL4300 system supports Dell OpenManage Server Administrator System management solution of version 8.1.0 or later.

System	Application	Application Type	Version
DL4300	Dell OpenManage Server Administrator	Systems Management	8.1.0 or later

Parent topic

## 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).

Table 14. Supported backup software

The DL4300 system installed with PERC H730P or PERC H830 supports AppAssure 5.4.3 or later and Rapid Recovery 6.0.2.

System	RAID Controller	Version
DL4300	PERC H730P, PERC H830	AppAssure 5.4.3 or later
		Rapid Recovery 6.0.2



**NOTE:** For information about known issues and limitations for Rapid Recovery 6.0.2 support, see the Quest DL4300 Release Notes at [Quest.com/support](https://quest.com/support).

Parent topic

## 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.

Table 15. Supported appliance software stack

The DL4000 system installed with PERC H710P or PERC H810 supports of appliance software stack of version 2.x .

System	RAID Controller	Version
DL4300	PERC H730P, PERC H830	2.x

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