




Dell DL4300 Appliance Interoperability Guide



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.

© 2016 Dell Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. Dell and the Dell logo are trademarks of Dell Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

2016 - 05

Rev. A02

Contents

1 Introduction	4
2 Supported hardware.....	5
BIOS versions.....	5
Memory.....	5
Processor.....	5
Hard drives (internal).....	6
Storage enclosures.....	6
Hard drives (external).....	6
Network Interface Controllers (NIC).....	7
Fiber channel controllers.....	7
Network cabling.....	7
Fiber channel switch.....	8
RAID controllers.....	8
Display resolution.....	8
3 Supported software.....	9
Operating system.....	9
Applications.....	9
Backup software.....	9
Appliance software stack release.....	10

Introduction

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

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

BIOS versions

Table 1. BIOS versions

System	BIOS version
DL4300	2.3.0 or later

Memory

Table 2. Supported memory configurations

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

Processor

Table 3. Supported processor

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

Hard drives (internal)


Table 4. Supported internal hard drives

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

Storage enclosures

Table 5. Supported storage enclosures

Storage enclosure	FW revision	Number of enclosures supported	Capacity expansion
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.

Hard drives (external)

Table 6. Supported external hard drives

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

Network Interface Controllers (NIC)

Table 7. Supported NICs

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

Fiber channel controllers

Table 8. Supported fiber channel controllers

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

Network cabling

Table 9. Supported 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 Transceiver, 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

Description	Broadcom SFP+ NIC ports	Dell cust kit SKU
Cisco 10Gb SFP+ Twinax, 5m	X	SFP-H10GB-CU5M

Fiber channel switch

Table 10. Supported fiber channel switch

System	Switch
DL4300 High Capacity Edition only	Brocade 8 GB 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.

Table 11. Supported RAID controllers


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

Display resolution

The minimum display resolution is 1280x1024.

Supported software

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.

Operating system


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

Table 12. Supported operating system

System	Operating System
DL4300	Microsoft Windows Server 2012 R2 Standard Edition

Applications

Table 13. Supported applications


System	Application	Application Type	Version
DL4300	Dell OpenManage Server Administrator	Systems Management	8.1.0 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).

Table 14. Supported backup software

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 *Dell DL4300 Release Notes* at Dell.com/support/home.

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

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