

Dell Acceleration Appliance for Databases 2.0

Compatibility Guide

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DAAD 2.0 Compatibility Guide

This document describes the hardware components, host OS and initiator support, and SAN switch support for Dell Acceleration Appliance for Databases (DAAD) 2.0.

DAAD 2.0 supports Fibre Channel, iSCSI, and InfiniBand/SRP protocols.

DAAD components

Table 1-1. Dell PowerEdge R730 components

Component	Qty	Details	Firmware	Driver
CPU	2	Intel Xeon E5-2667 v3, 3.2 GHz, 8c	N/A	N/A
Memory		393216 MB (384 GB)	N/A	N/A
BIOS		N/A	v1.1.4	N/A
iDRAC8		N/A	v2.02	N/A
RAID Controller	1	PERC H730	v25.2.2-004	N/A
OS		<ul style="list-style-type: none"> DAAD ION Accelerator v2.5.1 (build-424) DAAD ION Accelerator v2.5.2 (build-433) 	N/A	N/A
Flash Storage for DAAD ION 2.5.1				
Fusion ioMemory	4	3.2 TB FusionIO SX300 (Dell Part # FJYYT)	VSL FW: v8.7.17, rev 20150212 Public	VSL Driver: v4.2.0
Fusion ioMemory	4	6.4 TB FusionIO SX300 (Dell Part # MM86C)		
Flash Storage for DAAD ION 2.5.2				
Fusion ioMemory	4	3.2 TB FusionIO SX350 (Dell Part # NVV4D)	VSL FW: v8.9.1, rev 20150611 Public	VSL Driver: v4.2.1
Fusion ioMemory	4	6.4 TB FusionIO SX350 (Dell Part # J5F1V)		
Fabric Adapters				
iSCSI Adapter	2	Mellanox ConnectX-3 DP EN 40Gb QSFP adapter (Dell Part # OM9NW6)	v2.31.5450	mlx4_en v2.3-2.0.0

Table 1-1. Dell PowerEdge R730 components (continued)

Component	Qty	Details	Firmware	Driver
IB/SRP Adapter	2	Mellanox ConnectX-3 DP VPI FDR QSFP+ adapter (Dell Part # 01T7NW)	v2.32.5100	OFED-internal-2.3-2.0.0: 3.0.101-0.15.1.6651.0.PTF-default
Fibre Channel Adapter	2	QLogic QLE2662 DP 16Gbps (Dell Part # 7JKH4)	Running v7.04.01 (d0d5) Flash v7.04.01	v8.04.00.05.2.2-SCST.03-k-p

Optional Interconnect Adapters for HA Configurations				
iSCSI and FC Fabrics	1	Mellanox ConnectX-3 DP EN 40Gb QSFP adapter (Dell Part # 0M9NW6)	v2.31.5450	mlx4_en v2.3-2.0.0
IB/SRP Fabric	1	Mellanox ConnectX-3 DP VPI FDR QSFP+ adapter (Dell Part # 01T7NW)	v.2.32.5100	OFED-internal-2.3-2.0.0: 3.0.101-0.15.1.6651.0.PTF-default

Host OS and initiators

Table 1-2. Host OS and initiators

Host OS	Protocol	Initiator/HBA	Configuration	Multipath
RHEL 6.5 2.6.32- 431.el6.x86_64	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	Standalone, HA	DM Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
	InfiniBand/SRP ²	- Mellanox ConnectX-3 DP VPI FDR adapter		
Oracle Linux 6.5 ³ Red Hat Compatible Kernel version 2.6.32- 431.el6.x86_64	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	Standalone, HA	DM Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
	InfiniBand/SRP ²	- Mellanox ConnectX-3 DP VPI FDR adapter		
Oracle Linux 6.6 Unbreakable Enterprise Kernel version 3.8.13- 44.1.1.el6.x86_64	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	Standalone, HA	DM Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
	InfiniBand/SRP ²	- Mellanox ConnectX-3 DP VPI FDR adapter		
Windows Server 2008 R2	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	Standalone, HA	Native MPIO
	iSCSI	-- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
Windows Server 2012 R2	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	Standalone, HA	Native MPIO
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
Windows Server 2008 Cluster	Fibre Channel	- Emulex LPe 16002	HA	DSM
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
Windows Server 2012 Cluster	Fibre Channel	- Emulex LPe 16002	HA	DSM
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter		
Hyper-V Server 2012 R2 (Standalone)	Fibre Channel	- QLogic QLE2562	HA	Native MPIO

Table 1-2. Host OS and initiators (continued)

Host OS	Protocol	Initiator/HBA	Configuration	Multipath
Hyper-V Cluster Windows Server 2012 R2	Fibre Channel	- QLogic QLE2562	HA	Native MPIO
ESXi 5.5	Fibre Channel	- QLogic QLE2672 - QLogic QLE266x ¹	Standalone, HA	Native Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter	Standalone, HA	Native Multipath
Oracle VM 3.3.2 kernel 3.8.13-55.1.5.el6uek.x86_64	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	HA	Native Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter	HA	Native Multipath
Oracle VM 3.3.3 kernel 3.8.13-68.3.3.el6uek.x86_64	Fibre Channel	- QLogic QLE2564 - QLogic QLE266x ¹	HA	Native Multipath
	iSCSI	- Mellanox ConnectX-3 DP EN 40 Gb QSFP adapter	HA	Native Multipath

¹QLE266x has not been explicitly tested.

²Requires `ib_srp-backport` RPM version 2.0.34.

³Initiators were tested with RHEL 6.5 that is binary compatible with Oracle Linux 6.5.

SAN switches

Table 1-3. SAN Switches

Fabric	Switches	Version
Fibre Channel	- Brocade 300 - Brocade 400 - Brocade 8000 - Brocade 6505 - Brocade 6510 - Brocade MDS 3100	Brocade Fabric OS: v7.0.0a Brocade Fabric OS: v7.1.0a
iSCSI	- Arista DCS-7050QX-32-F - Dell Networking S6000 ⁴	Arista 7050QX OS: v4.13.7.3M Dell S6000 OS: v9.4.0.0
InfiniBand	- Mellanox SX6036 FDR	SX_PPC_M460EX SX_3.3.4100 2013-09-16 18:27:29 ppc

⁴S6000 has not been explicitly tested.

Contacting technical support

Dell Acceleration Appliance for Databases drivers, utilities, and related documentation are available at:

dell.com/support/home

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To get help with your Fusion ioMemory devices, contact your Dell Technical Service representative or access the Dell Support website.

Choose the method of contacting Dell that is convenient for you.

NOTE: The safety information that shipped with your system provides important safety and regulatory information. Warranty information may be included within this document or as a separate document.

