




# Dell Storage Designed for Scality RING Support Matrix

Regulatory Model: E26S Series  
Regulatory Type: E26S001



# 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


This document provides information about supported software, firmware, and hardware versions for the Dell Storage Designed for Scality RING solution. This solution is a storage building block based on PowerEdge servers and Dell Storage, which enables you to deploy an ultra-dense storage platform paired with Scality software. The Dell Storage Designed for Scality RING solution excels at deployment of object-based storage on the petabyte scale. For more information see, [Dell.com/sdscalityseriesmanuals](https://www.dell.com/sdscalityseriesmanuals).

# Dell Storage Designed for Scality RING solution rules


This section contains consideration rules when using the Dell Storage Designed for Scality RING solution.

 **NOTE:** You can install the Supervisor server as a virtual machine.


**Table 1. Dell Storage Designed for Scality RING Rules for Dell SD630-S server**

Information	Description
Minimum Memory	Connectors 64 GB
The required amount of memory (RAM) is related to the number of objects and their average size.	Supervisor 32 GB
Minimum number of Connectors	File Storage: One
	 <b>NOTE:</b> Object storage connectors are installed directly on the Dell SD7000-S server.
Minimum number of Supervisors	One

**Table 2. Dell Storage Designed for Scality RING Rules for Dell SD7000-S server**

Information	Description
Minimum number of physical storage servers	Dell SD7000-S Single Node: Six Dell SD7000-S Dual Node: Three
Minimum Memory	192 GB
The required amount of memory (RAM) is related to the number of objects and their average size.	
Minimum Cache on RAID controller	1 GB
Minimum number of Connectors	Object Storage: Two, directly installed on the Dell SD7000-S server.
	 <b>NOTE:</b> File storage connectors must be installed on the Dell SD630-S server.
Minimum ratio of solid state drives (SSDs) to hard disk drives (HDDs)	1 SSD: 15 HDDs
Minimum number of HDDs	Dell SD7000-S Single Node: 20

Information	Description
	Dell SD7000-S Dual Node: 10
Minimum number of SSDs	Dell SD7000-S Single Node: Two Dell SD7000-S Dual Node: One
Minimum number of Supervisors	One

 **NOTE:** There is no upgrade path from Dell SD7000-S Single Node server to Dell SD7000-S Dual Node server because the internal wiring of the systems differ.

## Supported server firmware and drivers

This section provides information about the supported firmware and drivers by the Dell Storage Designed for Scality RING solution.

**Table 3. Supported server firmware and drivers for Dell SD630-S server**

Dell server model	Component	Minimum version
Dell SD630-S	Scality Software	RING 5.1 (L.1)
	BIOS	1.5.4
	Chipset driver	9.4.2.1019
	iDRAC8 firmware	2.21.21.21
	Backplane Expander Firmware	3.03
	Backplane Firmware	2.23
	PERC H330 firmware	25.3.0.0016
	PERC H330 driver	06.901.04.00
	PERC H730 firmware	25.3.0.0.016
	PERC H730 driver	06.901.04.00
	PERC H730P firmware	25.3.0.0016
	PERC H730P driver	06.901.04.00

**Table 4. Supported server firmware and drivers for Dell SD7000-S server**

Dell server model	Component	Minimum version
Dell SD7000-S	Scality Software	RING 5.1 (L.1)
	BIOS	1.2.3
	iDRAC8 firmware	2.21.21.21
	LSI-9361 8i firmware	4.280.00-4226
	Power supply unit firmware	00.1D.71

## Supported server boot drives

This section provides information about the supported boot drives by the Dell Storage Designed for Scalability RING solution.

**Table 5. Supported server boot drives for Dell SD630-S server**

<b>Form Factor</b>	<b>Model</b>	<b>Disk space</b>	<b>Speed</b>	<b>Interface</b>	<b>Vendor</b>	<b>Minimum version</b>
2.5"	6 Gb SATA	1 TB	7.2 k	512n	STX	AA63
2.5"	6 Gb SATA	2 TB	7.2 k	512n	STX	NA25
2.5"	12 Gb SAS	1 TB	7.2 k	512n	STX	NS01
2.5"	12 Gb SAS	1 TB	7.2 k	512n	STX	AS0B
2.5"	12 Gb SAS	2 TB	7.2 k	512e	STX	NS28

**Table 6. Supported server boot drives for Dell SD7000-S server**

<b>Form Factor</b>	<b>Model</b>	<b>Disk space</b>	<b>Speed</b>	<b>Interface</b>	<b>Vendor</b>	<b>Minimum version</b>
2.5"	SATA	500 GB	7.2 k	512n	STX	AA63
2.5"	SATA	1 TB	7.2 k	512n	STX	NA02

## Supported SSD, SATA, and SAS drive models

This section provides information about SSD, SATA, and SAS drives supported by the Dell Storage Designed for Scalify RING solution.

**Table 7. Supported SATA and SAS models for Dell SD630-S server**


Form factor	Type	Model	Disk space	RPM	Interface	Vendor	Minimum version
2.5"	SATA	ST91000620NS	1 TB	7.2 K	4096n	STX	AA63
2.5"	SATA	ST2000NX0253	2 TB	7.2 K	512e	STX	NA25
2.5"	SAS	ST91000640SS	1 TB	7.2 K	512n	STX	AS0B
2.5"	SAS	ST1000NX0453	1 TB	7.2 K	512n	STX	NS01
2.5"	SAS	ST2000NX0273	2 TB	7.2 K	512e	STX	NS28

**Table 8. Supported SATA, SAS, and SSD models for Dell SD7000-S server**

Form factor	Type	Model	Disk space	RPM	Interface	Vendor	Minimum version
3.5"	SATA	ST6000NM0024-1US17Z	6 TB	7.2 K	512e	STX	MA86
3.5"	SATA	HUS726060ALE614	6 TB	7.2 K	512e	HGST	KP06
3.5"	SATA	ST6000NM0024-1HT17Z	6 TB	7.2	512e	STX	MA2C
3.5"	SATA	HUH728080ALE604	8 TB	7.2 K	512e	HGST	GP04
3.5"	SAS	HUH728080AL5204	8 TB	7.2 K	512e	HGST	GK04
2.5"	SATA SSD	SSDSC2BX800G4R	800 GB	NA	512n	Intel	DL29
2.5"	SAS SSD	LT0800MO	800 GB	NA	512n	Sandisk	D40Z
2.5"	SATA SSD	SSDSC2BX016T4R	1.6 TB	NA	512n	Intel	DL29
2.5"	SAS SSD	LT1600MO	1.6 TB	NA	512n	Sandisk	D40Z

## Supported NDC and NIC

This section provides information about supported Network Daughter Cards (NDC) and Network Interface Cards (NIC) adapters.

 **NOTE:** The Dell SD7000-S add-on NICs require a special bracket. Use the unique parts for the Dell SD7000-S server.

**Table 9. Supported NDC and NIC adapters for Dell SD7000-S server and Dell SD630-S server**

Vendor	Model	Type	Component	Minimum version
Intel	X520 Dual Port 10 GbE SFP+ & i350 Dual Port 1 GbE 1000Base-T	NDC	Firmware	16.5.20
			Driver	17.0.0
Intel	X540 Dual Port 10 GbE SR and i350 1 GbE 1000Base-T	NDC	Firmware	16.5.20
			Driver	17.0.0
Intel	X540 10GbE BT and i350 1 GbE	NDC	Firmware	16.5.20
			Driver	17.0.0
Intel	X710 Dual Port 10 GbE SFP+	NIC	Firmware	16.5.20
			Driver	17.0.0
Intel	X540 Dual Port 10 GbE 10GBase-T	NIC	Firmware	16.5.20
			Driver	17.0.0

## Supported server operating systems

This section provides information about server node operating systems (OS) supported by the Dell Storage Designed for Scalality RING solution.

**Table 10. Minimum supported server operating systems**

OS	Minimum OS version	Installation type
CentOS	6.7; 6.8	Core
CentOS	7.1; 7.2	Core
Red Hat Enterprise Linux	6.7; 6.8	Core
Red Hat Enterprise Linux	7.1; 7.2	Core

## Supported switches

This section provides information about the supported switches by Dell Storage Designed for Scalality RING solution.

**Table 11. Supported Switches**

<b>Vendor</b>	<b>Switch model</b>	<b>Minimum version</b>
Dell	N4032	6.2.7.2
Dell	N4032F	6.2.7.2
Dell	N4063	6.2.7.2
Dell	N4064F	6.2.7.2
Dell	S4048-ON	3.21.1.1
Dell	S4810	6.2.1.6
Dell	S4820T	6.2.1.6
Dell	S5000	6.2.1.6
Dell	S6000	6.2.1.6

## Documentation resources

This section provides information about the documentation resources for your system.

### Dell documentation


Dell documentation is either included with your shipment or available at [Dell.com/sdscalityseriesmanuals](http://Dell.com/sdscalityseriesmanuals).

**Table 12. Dell documentation**

To learn about.....	Refer to...
Setting up your system and the technical specifications of your system	Getting Started Guide
Deploying the hardware and installing the software on the appliance.	Deployment Guide
Best practices you can follow with your storage server	Best Practices Guide
Hardware details of your system	Owner's Manual

### Scality documentation

Scality provides you with login credentials to access the Scality documentation on purchase of Scality RING software.

 **NOTE:** If you are not provided with login credentials, contact your Scality Account Representative. These credentials are required to access Scality Ring documentation, which is delivered in a version specific WIKI format.

For information about top-level documentation, go to <http://docs.scality.com>.

You can view the documents on the Scality documentation page based on the selected version. By default, the latest version is selected.

To view an earlier version, select the version number from the drop-down list, and then click **Go**.

**Table 13. Scality reference documentation**

<b>To learn about...</b>	<b>Task</b>
Requirements for installation	In the <b>Overview</b> section, click <b>Requirements and Recommendations</b> .
Installation procedures	In the <b>Installation and prerequisites</b> section, click <b>Installing the Ring</b> .
Overview of the RING	In the <b>Overview</b> section, click <b>What is Scality Ring?</b>
RING operations	In the left pane, click <b>Operations</b> .
Support FAQ	In the left pane, select <b>Customer Support FAQ</b> .

# Getting help

## Contacting Dell

Dell provides several online and telephone-based support and service options. If you do not have an active internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical assistance, or customer-service issues:

1. Go to **Dell.com/support**.
2. Select your country from the drop-down menu on the lower right corner of the page.
3. For customized support:
  - a. Enter your system Service Tag in the **Enter your Service Tag** field.
  - b. Click **Submit**.  
The support page that lists the various support categories is displayed.
4. For general support:
  - a. Select your product category.
  - b. Select your product segment.
  - c. Select your product.  
The support page that lists the various support categories is displayed.
5. For contact details of Dell Global Technical Support:
  - a. Click [Global Technical Support](#).
  - b. The **Contact Technical Support** page is displayed with details to call, chat, or e-mail the Dell Global Technical Support team.

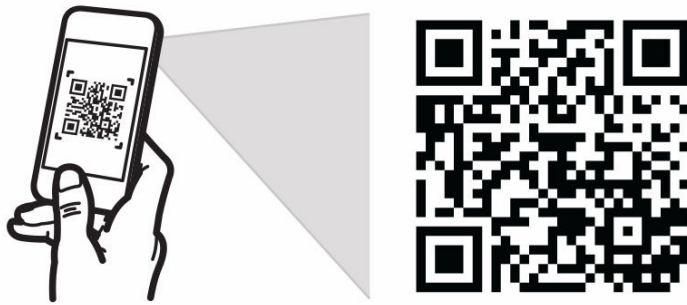
## Documentation feedback

You can rate the documentation or write your feedback on any of our Dell documentation pages and click **Send Feedback** to send your feedback.

## Quick resource locator

Use the Quick Resource Locator (QRL) to get immediate access to system information and how-to videos. This can be done by visiting **Dell.com/QRL**. To try out the QR code, scan the following image by using your smartphone or tablet.

# Quick Resource Locator



[Dell.com/QRL/Solutions/SDScalitySeries](https://Dell.com/QRL/Solutions/SDScalitySeries)