

Dell EMC Microsoft Storage Spaces Direct Ready Nodes, version 1.0

PowerEdge R730xd Support Matrix

Notes, cautions, and warnings

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

 **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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Preface

About this Manual

This manual provides information about supported firmware and drivers that have been validated for Dell EMC Microsoft Storage Spaces Direct Ready Nodes.

This manual is valid for PowerEdge R730xd of Dell EMC Microsoft Storage Spaces Direct Ready Nodes, version

 **NOTE:** The information in this manual is subject to change without notice. Contact your Dell EMC Support representative for more information.

Revision History

Table 1. Document Revisions

Revision	Date	Description
A00	May 2017	Initial release of the <i>Dell EMC Microsoft Storage Spaces Direct Ready Nodes Support Matrix 1.0</i> .
A01	Sept 2017	Updated with Samsung PM1725a NVMe.
A02	March 2018	Updated with Q1 and new template

Introduction

The *Dell EMC Microsoft Storage Spaces Direct Ready Nodes Support Matrix* describes supported software and hardware for supported firmware and driver versions.

Supported Firmware and Drivers

Dell EMC Microsoft Storage Spaces Direct Ready Node

The Microsoft Storage Spaces Direct Ready Nodes solution has been validated against the following firmware and driver versions:

Table 2. PowerEdge R730xd Based Ready Node Supported Firmware and Drivers

Component	Type	Category	Software Bundle	Minimum Supported Version
BIOS	Firmware DUP	BIOS	NMF8F	2.7.1
iDRAC with Lifecycle Controller	Firmware DUP	BMC	74GHJ	2.52.52.52
Mellanox ConnectX-3 Pro / 10GbE	Firmware DUP	Network / RDMA	1HT1R	02.42.50.00
Intel I350 / 1GbE	Firmware DUP	Network / NDC / 1Gb	WWPJK	18.3.6
HBA330 Mini	Firmware DUP	Storage — HBA	PHJ6M	15.17.08.01
PERC H330	Firmware DUP	Storage — RAID	V4G60	25.5.4.0006
Non-expander Storage Backplane	Firmware DUP	Storage — Backplane	HRP1V	2.25
Expander Storage Backplane	Firmware DUP	Storage — Backplane	HYPYY	3.35
Mellanox ConnectX-3 Pro / 10GbE	Driver DUP	Network / RDMA	16VD1	05.35.01
Intel I350 / 1GbE	Driver DUP	Network / NDC / 1Gb	N5GYM	18.3.0
HBA330	Driver DUP	Storage — HBA	6VVMC	2.51.21.1
PERC H330	Driver DUP	Storage — RAID	T244W	6.604.06.00
Chipset Driver for 13G	Driver DUP	Chipset	JTN83	10.1.2.85

Switches

If using Dell EMC Networking switches, the following are the recommended minimum Firmware versions

Table 3. Switch Firmware

Component	Type	Category	Minimum Supported Version
Dell EMC Networking S3048 FTOS	Firmware	Network Switch	9.13.0.1
Dell EMC Networking S4048 FTOS	Firmware	Network Switch	9.13.0.1

Storage Devices

The Dell EMC Microsoft Storage Spaces Direct Ready Node solution supports the following storage devices.

Table 4 list the SATA devices supported on the R730xd as Boot devices for operating system installation.

Table 4. SATA 2.5" SDD Drives (Boot Devices)

Form Factor	Type	Vendor	Model	Model	Device Part Number (P/N)	Software Bundle	Minimum Supported Version	Capacity	Use
2.5"	SSD	Intel	S3610	SSDSC2BX400G4R	65WJJ	RXYF1	DL2D	400 GB	Boot Device
2.5"	SSD	Toshiba	HK4 MU	THNSF8400CCSE	VKT80	MX5JV	DAC9	400 GB	Boot Device
2.5"	SSD	Samsung	SM863a	MZ7KM480HMHQ0D3	2RGGR	MFWYR	GD53	480 GB	Boot Device

Table 5 lists the SATA devices that are supported on the R730xd Hybrid configurations that utilize 3.5" HDD.

Table 5. SATA 3.5" HDD Drives

Form Factor	Type	Vendor	Model	Model	Device Part Number (P/N)	Software Bundle	Minimum Supported Version	Capacity	Use
3.5"	HDD	Seagate	Makara BP	ST4000NM0035	KRH17	R100W	DA06	4 TB	Capacity
		Hitachi	Aries K Plus	HUS726040ALA614	KH21H	XM2PF	KN33		
		Toshiba	Tomcat R	MG04ACA400N	4N6CY	W5CHR	FJ2D		
3.5"	HDD	Seagate	Makara	ST6000NM0115	YXTWT	5F8VF	DA25	6 TB	Capacity
		Hitachi	Aries K Plus	HUS726060ALE614	908XX	F3MMN	KP35		
		Toshiba	Tomcat R	MG04ACA600E	KP22D	MCVYM	FS6D		
3.5"	HDD	Seagate	Makara Plus	ST8000NM0055	T05HP	86CR1	PA28	8 TB	Capacity
		Hitachi	Libra HE10	HUH721008ALE600	KRV2W	KN7WY	LT06		
		Toshiba	Galaxy	MG05ACA800E	4WXV5	39R2K	GX4D		

Table 6 below lists the SATA SSD devices that are supported on R730xd Hybrid configuration that utilize 2.5" SSD for Cache and All Flash configurations for Capacity.

Table 6. SATA 2.5" SSD Drives

Endurance	Vendor	Model	Model	Device Part Number (P/N)	Software Bundle	Minimum Supported Version	Capacity	Use
Mixed Use	Intel	S3710	SSDSC2BA800G4R	DPD14	KCXYV	DL2D	800 GB	Cache / Capacity
Mixed Use	Toshiba	HK4 MU	THNSF81D60CSE	DMF5Y	MX5JV	DAC9	1.6 TB	
Mixed Use	Samsung	SM863a	MZ7KM960HMP0D3	DD4G0	MFWYR	GD53	960 GB	
			MZ7KM1T9HMP0D3	K5P0T			1.92 TB	

Ready Node R730xd NVMe SFF + SSD supports 2 or 4 NVMe devices and 8–20x mixed use SATA SSD.

Table 7. NVMe Devices

Platform	Vendor	Form Factor	Capacity	Description	Model Number	Device Part Number(P/N)	Software Bundle	Minimum Supported Version
R730xd	Samsung	2.5"	1.6TB	PM1725A,SFF-SSD,SSDR,1.6,NVME SFF,2.5	MZWLL1T6HEHP-000D3	JD6CH	M5TNF	1.0.4