

# **Dell Hybrid Cloud System for Microsoft Cloud Platform System Standard Version 1.5.16 Support Matrix based on release 2003**

## 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.

# Introduction

The *Dell Hybrid Cloud System for Microsoft Support Matrix* describes supported software and hardware for Dell Hybrid Cloud System for Microsoft.

**i** **NOTE:** As of June 2020, Dell Technologies is no longer supporting or maintaining the Dell EMC Hybrid Cloud System for Microsoft or associated documentation. It is recommended to always use the latest available firmware. Microsoft updates are available through the DHCS Self Service Microsoft Update Tool located on the [Drivers and Download page](#) on the Dell Technologies Support site.

# Support Matrix

## Compute Nodes

The Dell Hybrid Cloud System for Microsoft solution supports the following component driver and firmware versions for compute nodes:

**Table 1. C6300 and C6320**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Fan Control Board	Firmware	C6300 Chassis	Fan Control Board	V0213	2.13
Intel X520 (10 GB NDC)	Driver	C6320	Network — Tenant	0PRVC <b>Minimum supported version:</b> M4PJN	19.5.0 <b>Minimum supported version:</b> 16.5.0
PERC H330	Driver	C6320	SAS HBA — Internal	6V4WY	6.604.06.00
Chipset	Driver	C6320	Intel C610 series	JTN83	10.1.2.85
BIOS	Firmware	C6320	BIOS	4MJ8H	2.11.0
CPLD	Firmware	C6320	CPLD	6KF0V	1.0.0
iDRAC	Firmware	C6320	iDRAC	DNH17	2.70.70.70
Intel X520 (10 GB NDC)	Firmware	C6320	Network — Tenant	40NTK <b>Minimum supported version:</b> DKGC0	19.5.0 <b>Minimum supported version:</b> 16.5.20
PERC H330	Firmware	C6320	SAS HBA — Internal	T23TV	25.5.6.0009
Intel SSDSC2BX400G4R	Firmware	C6320	400 GB Boot SSD	RXYF1 <b>Minimum supported version:</b> 8MD67	DL2D <b>Minimum supported version:</b> DL29
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	C6320	600 GB Boot HDD	HY2HP <b>Minimum supported version:</b> 89VK3	FJ23 <b>Minimum supported version:</b> FJ11
Hitachi HUC101860CSS204 (6 Gbps)	Firmware	C6320	600 GB Boot HDD	H89FV	FJ05
Hitachi HUC109060CSS600 (6 Gbps)	Firmware	C6320	600 GB Boot HDD	F5NH4	N440
Hitachi HUC101860CSS200	Firmware	C6320	600 GB Boot HDD	3M7RX	FU29
Seagate ST600MM0088 (6 Gbps)	Firmware	C6320	600 GB Boot HDD	0YHRW	TS05

**Table 1. C6300 and C6320(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
				<b>Minimum supported version:</b> 40R7R	<b>Minimum supported version:</b> TS04
Seagate ST600MM0088 (12 Gbps)	Firmware	C6320	600 GB Boot HDD	KKNKX	TT31
Seagate ST600MM0006 (6 Gbps)	Firmware	C6320	600 GB Boot HDD	8FF65 <b>Minimum supported version:</b> 68NGY	LS0C <b>Minimum supported version:</b> LS0B
Seagate ST600MM0238	Firmware	C6320	600 GB Boot HDD	64GYN	BS04
Toshiba AL14SEB060N (12 Gbps)	Firmware	C6320	600 GB Boot HDD	NK8T7 <b>Minimum supported version:</b> 5CJXP	DM06 <b>Minimum supported version:</b> DM03
Toshiba AL13SEB600 (6 Gbps)	Firmware	C6320	600 GB Boot HDD	MCM30	DE11

## Storage

**CAUTION:** \*\*The following Dell EMC Enterprise SSD drives with firmware prior to D417 will fail at 40,000 power-on hours, resulting in possible data loss:

Model	Dell EMC Part Number	Description
LT0400MO	C06VX	SSDR,400G,SAS12,2.5,MU,SD-K,EC
LT0800MO	989R8	SSDR,800G,SAS12,2.5,MU,SD-K,EC
LT1600MO	JDTGX	SSDR,1.6T,SAS12,2.5,MU,SD-K,EC

**Solution:** Dell EMC recommends immediately upgrading to firmware D417 (or newer) to prevent unexpected drive failures. See the *Dell Hybrid Cloud System for Microsoft Release Notes* or the *Dell Hybrid Cloud System for Microsoft Patch and Update Guide*.

The Dell Hybrid Cloud System for Microsoft solution supports the following component driver and firmware versions for storage hardware:

**Table 2. R730 and MD14x0**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Intel X520 (10 GB NDC)	Driver	R730	Network — Data Center	0PRVC <b>Minimum supported version:</b> HP103	19.5.0 <b>Minimum supported version:</b> 16.5.0
Dell SAS 12 HBA	Driver	R730	SAS HBA — External	7JTJ1 <b>Minimum supported version:</b> GX4V1	2.51.25.01 <b>Minimum supported version:</b> 2.50.75.01

**Table 2. R730 and MD14x0(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
PERC H330	Driver	R730	SAS HBA — Internal	6V4WY	6.604.06.00
Chipset	Driver	R730	Intel C600/C610/C220/C2000 series	JTN83	10.1.2.85
Non-expander Storage Backplane	Firmware	R730	Backplane	HRP1V	2.25
Expander Storage Backplane	Firmware	R730	Backplane	HYPYY	3.35
BIOS	Firmware	R730	BIOS	7YNRC	2.11.0
iDRAC	Firmware	R730	iDRAC	DNH17	2.70.70.70
Intel X520 (10 GB NDC)	Firmware	R730	Network — Tenant	40NTK <b>Minimum supported version:</b> 6FD9P	19.5.0 <b>Minimum supported version:</b> 16.5.20
Dell SAS 12 HBA	Firmware	R730	SAS HBA — External	20VY1 <b>Minimum supported version:</b> 3VHN7	16.17.00.05 <b>Minimum supported version:</b> 03.17.01.00
PERC H330	Firmware	R730	SAS HBA — Internal	T23TV	25.5.6.0009
Hitachi HUC101830CSS204 (12 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	HY2HP <b>Minimum supported version:</b> 89VK3	FJ23 <b>Minimum supported version:</b> FJ11
Hitachi HUC101830CSS204 (6 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	H89FV	FJ05
Hitachi HUC109030CSS600 (6 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	F5NH4	N440
Seagate ST300MM0006 (6 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	8FF65 <b>Minimum supported version:</b> 68NGY	LS0C <b>Minimum supported version:</b> LS0B
Seagate ST300MM0008 (12 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	KKNKX	TT31
Toshiba AL13SEB300 (6 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	MCM30	DE11
Toshiba AL14SEB030N (12 Gbps)	Firmware	R730	Storage — 300 GB Boot HDD	NK8T7 <b>Minimum supported version:</b> 5CJXP	DM06 <b>Minimum supported version:</b> DM03
Hitachi HUC101860CSS204 (6 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	H89FV	FJ05

**Table 2. R730 and MD14x0(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Hitachi HUC109060CSS600 (6 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	F5NH4	N440
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	HY2HP <b>Minimum supported version: 89VK3</b>	FJ23 <b>Minimum supported version: FJ11</b>
Hitachi HUC101860CSS200	Firmware	R730	Storage — 600 GB Boot HDD	3M7RX	FU29
Seagate ST600MM0088 (12 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	KKNKX	TT31
Seagate ST600MP0005 (12 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	WHWFN <b>Minimum supported version: KYWVC</b>	VT32 <b>Minimum supported version: VT31</b>
Seagate ST600MM0238	Firmware	R730	Storage — 600 GB Boot HDD	64GYN	BS04
Toshiba AL14SEB060N (12 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	NK8T7 <b>Minimum supported version: 5CJXP</b>	DM06 <b>Minimum supported version: DM03</b>
Toshiba AL13SEB600 (6 Gbps)	Firmware	R730	Storage — 600 GB Boot HDD	MCM30	DE11
Sandisk LT0400MO (12 Gbps)	Firmware	MD14x0	JBOD 400 GB SSD	8H6HJ <b>Minimum supported version: PFH20</b>	D417 ** See Caution above. <b>Minimum supported version: D40Z</b>
Toshiba PX02SMF040 (12 Gbps)	Firmware	MD14x0	JBOD 400 GB SSD	HHD9K <b>Minimum supported version: 2N3CV</b>	A3B3 <b>Minimum supported version: A3AE</b>
Toshiba PX04SMB040 (12 Gbps)	Firmware	MD14x0	JBOD 400 GB SSD	WMGV3	AM04
Toshiba PX05SMB040Y (12 Gbps)	Firmware	MD14x0	JBOD 400 GB SSD	DKM6P	AS03
Sandisk LT0800MO (12 Gbps)	Firmware	MD14x0	JBOD 800 GB SSD	8H6HJ <b>Minimum supported version: PFH20</b>	D417 ** See Caution above. <b>Minimum supported version: D40Z</b>
Toshiba PX02SMF080 (12 Gbps)	Firmware	MD14x0	JBOD 800 GB SSD	HHD9K <b>Minimum supported version: 2N3CV</b>	A3B3 <b>Minimum supported version: A3AE</b>

**Table 2. R730 and MD14x0(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Toshiba PX04SMB080 (12 Gbps)	Firmware	MD14x0	JBOD 800 GB SSD	WMGV3	AM04
Toshiba PX05SMB080Y (12 Gbps)	Firmware	MD14x0	JBOD 800 GB SSD	DKM6P	AS03
Sandisk LT1600MO (12 Gbps)	Firmware	MD14x0	JBOD 1.6 TB SSD	8H6HJ <b>Minimum supported version: PFH20</b>	D417 ** See Caution above. <b>Minimum supported version: D40Z</b>
Toshiba PX02SMB160 (12 Gbps)	Firmware	MD14x0	JBOD 1.6 TB SSD	HHD9K <b>Minimum supported version: 2N3CV</b>	A3B3 <b>Minimum supported version: A3AE</b>
Toshiba PX04SMB160 (12 Gbps)	Firmware	MD14x0	JBOD 1.6 TB SSD	WMGV3	AM04
Toshiba PX05SMB160Y (12 Gbps)	Firmware	MD14x0	JBOD 1.6 TB SSD	DKM6P	AS03
Hitachi HUC101812CSS204 (12 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	HY2HP <b>Minimum supported version: 89VK3</b>	FJ23 <b>Minimum supported version: FJ11</b>
Hitachi HUC101812CSS204 (6 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	H89FV	FJ05
Hitachi HUC101212CSS600 (6 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	4DT2J	U5E2
Seagate ST1200MM0007 (6 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	2DDG2	IS06
Seagate ST1200MM0088 (6 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	OYHRW <b>Minimum supported version:40R7R</b>	TS05 <b>Minimum supported version:TS04</b>
Seagate ST1200MM0088 (12 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	KKNKX	TT31
Toshiba AL14SEB120N (12 Gbps)	Firmware	MD1420	JBOD 1.2 TB HDD	NK8T7 <b>Minimum supported version: 5CJXP</b>	DM06 <b>Minimum supported version: DM03</b>
Hitachi HUS726020ALS214 (12 Gbps)	Firmware	MD1400	JBOD 2 TB HDD	WFTGN	KJ03
Hitachi HUS724020ALS640 (6 Gbps)	Firmware	MD1400	JBOD 2 TB HDD	W21D1 <b>Minimum supported version: J6G25</b>	W350 <b>Minimum supported version: W2F0</b>
Seagate ST2000NM0023 (6 Gbps)	Firmware	MD1400	JBOD 2 TB HDD	8PRG2	GS14



**Table 2. R730 and MD14x0(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
				<b>Minimum supported version:</b> MNVH4	<b>Minimum supported version:</b> GS10
Seagate ST2000NM0005 (12 Gbps)	Firmware	MD1400	JBOD 2 TB HDD	297DW <b>Minimum supported version:</b> W80FT	MS06 <b>Minimum supported version:</b> MS05
Seagate ST2000NM0045 (12Gbps)	Firmware	MD1400	JBOD 2 TB HDD	RMDN6	DS04
Hitachi HUS724040ALS640 (6 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	W21D1 <b>Minimum supported version:</b> J6G25	W350 <b>Minimum supported version:</b> W2F0
Hitachi HUS726040ALS214 (12 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	WFTGN	KJ03
Hitachi HUS726040ALS210 (12 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	PC27G	KU27
Seagate ST4000NM0023 (6 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	8PRG2 <b>Minimum supported version:</b> MNVH4	GS14 <b>Minimum supported version:</b> GS10
Seagate ST4000NM0005 (12 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	297DW <b>Minimum supported version:</b> W80FT	MS06 <b>Minimum supported version:</b> MS05
Seagate ST4000NM0025 (12Gbps)	Firmware	MD1400	JBOD 4 TB HDD	RMDN6	DS04
Toshiba MG04SCA40EN (12 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	K3G1W <b>Minimum supported version:</b> T0FMV	DS07 <b>Minimum supported version:</b> DS04
Toshiba MG04SCA40ENY (12 Gbps)	Firmware	MD1400	JBOD 4 TB HDD	D2GG1	EG03
Hitachi HUS726060AL5214 (12 Gbps)	Firmware	MD1400	JBOD 6 TB HDD	FX9XX <b>Minimum supported version:</b> MTG3D	KF26 <b>Minimum supported version:</b> KK06
Seagate ST6000NM0034 (12 Gbps)	Firmware	MD1400	JBOD 6 TB HDD	DN6J2 <b>Minimum supported version:</b> Y9J1F	MS85 <b>Minimum supported version:</b> MS84
Seagate ST6000NM0095 (12Gbps)	Firmware	MD1400	JBOD 6 TB HDD	Y76GF	DS23
Hitachi HUH721008AL5200 (12Gbps)	Firmware	MD1400	JBOD 8 TB HDD	VJ59F	LS03

**Table 2. R730 and MD14x0(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Hitachi HUH728080AL5204 (12 Gbps)	Firmware	MD1400	JBOD 8 TB HDD	TJ8NW <b>Minimum supported version:</b> FT5JT	GK23 <b>Minimum supported version:</b> GK04
Seagate ST8000NM0075 (12 Gbps)	Firmware	MD1400	JBOD 8 TB HDD	R2N0T <b>Minimum supported version:</b> T51M7	PS26 <b>Minimum supported version:</b> PS24
EMM/ESM	Firmware	MD14x0	EMM/ESM	XX44M	1.07

## Backup

Backup is optional. The Dell Hybrid Cloud System for Microsoft solution supports the following component driver and firmware versions for backup hardware:

**Table 3. R730xd**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Intel X520 (10 GB NDC)	Driver	R730xd	Network — Data Center	0PRVC <b>Minimum supported version:</b> HP103	19.5.0 <b>Minimum supported version:</b> 16.5.0
PERC H730P	Driver	R730xd	SAS HBA — Internal	6V4WY	6.604.06.00
Chipset	Driver	R730xd	Intel C600/C610/C220/C2000 series	JTN83	10.1.2.85
Non-expander Storage Backplane	Firmware	R730xd	Backplane	HRP1V	2.25
Expander Storage Backplane	Firmware	R730xd	Backplane	HYPYY	3.35
BIOS	Firmware	R730xd	BIOS	7YNRC	2.11.0
iDRAC	Firmware	R730xd	iDRAC	DNH17	2.70.70.70
Intel X520 (10 GB NDC)	Firmware	R730xd	Network — Tenant	40NTK <b>Minimum supported version:</b> 6FD9P	19.5.0 <b>Minimum supported version:</b> 16.5.20
PERC H730P	Firmware	R730xd	SAS HBA — Internal	G7N2C	25.5.6.0009
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	R730xd	Storage — 600 GB Boot HDD	HY2HP <b>Minimum supported version:</b> 89VK3	FJ23 <b>Minimum supported version:</b> FJ11
Hitachi HUC101860CSS200	Firmware	R730xd	Storage — 600 GB Boot HDD	3M7RX	FU29

**Table 3. R730xd(continued)**

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Seagate ST600MM0088 (12 Gbps)	Firmware	R730xd	Storage — 600 GB Boot HDD	KKNKX	TT31
Seagate ST600MP0005 (12 Gbps)	Firmware	R730xd	Storage — 600 GB Boot HDD	WHWFN <b>Minimum supported version: KYWVC</b>	VT32 <b>Minimum supported version: VT31</b>
Seagate ST600MM0238	Firmware	R730xd	Storage — 600 GB Boot HDD	64GYN	BS04
Toshiba AL14SEB060N (12 Gbps)	Firmware	R730xd	Storage — 600 GB Boot HDD	NK8T7 <b>Minimum supported version: 5CJXP</b>	DM06 <b>Minimum supported version: DM03</b>
Hitachi HUS724040ALS640 (6 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	W21D1 <b>Minimum supported version: J6G25</b>	W350 <b>Minimum supported version: W2F0</b>
Hitachi HUS726040ALS214 (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	WFTGN	KJ03
Hitachi HUS726040ALS210 (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	PC27G	KU27
Seagate ST4000NM0023 (6 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	8PRG2 <b>Minimum supported version: MNVH4</b>	GS14 <b>Minimum supported version: GS10</b>
Seagate ST4000NM0005 (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	297DW <b>Minimum supported version: W80FT</b>	MS06 <b>Minimum supported version: MS05</b>
Seagate ST4000NM0025 (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	RMDN6	DS04
Toshiba MG03SCA400 (6 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	0NXTP	DG09
Toshiba MG04SCA40EN (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	K3G1W <b>Minimum supported version: T0FMV</b>	DS07 <b>Minimum supported version: DS04</b>
Toshiba MG04SCA40ENY (12 Gbps)	Firmware	R730xd	Storage — 4 TB DPM	D2GG1	EG03

## Switches

The Dell Hybrid Cloud System for Microsoft uses Dell Networking S4048-ON, which is a 10/40GbE top-of-rack open networking switch. It is a high-density, 1RU 48-port 10GbE switch with six 40GbE uplinks and ultra-low-latency, non-blocking performance to ensure line-rate performance.

The solution supports the following firmware version:

**Table 4. S4048-ON**

<b>Component</b>	<b>Type</b>	<b>Platform</b>	<b>Category</b>	<b>Software Bundle (SWB)</b>	<b>Supported Version</b>
Dell Networking S4048-ON Switch Dell Networking O/S	Firmware	N/A	Top-of-rack switch	N/A	9.14.2.1 <b>Minimum supported version:</b> 9.9(0.0P9)