


# Dell Hybrid Cloud System for Microsoft Cloud Platform System (CPS) Standard

Version 1.1 Support Matrix



## 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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# Preface

## About this manual

This manual provides information about supported software and hardware configurations for Dell Hybrid Cloud System for Microsoft.

This manual is valid for all versions of Dell Hybrid Cloud System for Microsoft.

- ① **NOTE:** The information in this manual is subject to change without notice. Contact your Dell support representative for more information.
- ① **NOTE:** Where appropriate, this manual lists both the minimum supported version and the latest supported version. Dell recommends using the latest supported version.

## Revision history

Revision	Date	Changes from previous revision
A00	December 2015	Initial release of the <i>Dell Hybrid Cloud System for Microsoft Support Matrix</i>
A02	February 2016	<ul style="list-style-type: none"><li>• Updated the firmware matrix for release 1.0.2:<ul style="list-style-type: none"><li>• Near-line SAS drives</li><li>• iDRAC</li></ul></li><li>• Fixed table headers</li></ul>
A03	May 2016	Updated the matrix for release 1.1: <ul style="list-style-type: none"><li>• BIOS</li><li>• Firmware</li><li>• Drivers</li><li>• Additional HDD and SSD drives</li><li>• Updates to support Intel E5 v4 processors</li></ul>

# Introduction

The *Dell Hybrid Cloud System for Microsoft Support Matrix* describes supported software and hardware for Dell Hybrid Cloud System for Microsoft, including usage considerations, recommendations, and rules.

## 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	M8DVY	2.02
Intel X520 (10GB NDC)	Driver	C6320	Network – Tenant	W205T <b>Minimum supported version:</b> M4PJN	17.0.0 <b>Minimum supported version:</b> 16.5.0
PERC H330	Driver	C6320	SAS HBA – Internal	T7F02	6.603.07.00
Chipset	Driver	C6320	Intel C610 series	007K2	10.1.2.10
BIOS	Firmware	C6320	BIOS	XWHNM	2.0.3
CPLD	Firmware	C6320	CPLD	6KF0V	1.0.0
iDRAC	Firmware	C6320	iDRAC	5GCHC	2.30.30.30
Intel X520 (10GB NDC)	Firmware	C6320	Network – Tenant	F8H29 <b>Minimum supported version:</b> DKGC0	17.0.12 <b>Minimum supported version:</b> 16.5.20
PERC H330	Firmware	C6320	SAS HBA – Internal	N3C08	25.4.0.0017
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	C6320	600GB Boot HDD	89VK3	FJ11

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Hitachi HUC101860CSS204 (6 Gbps)	Firmware	C6320	600GB Boot HDD	H89FV	FJ05
Hitachi HUC109060CSS600 (6 Gbps)	Firmware	C6320	600GB Boot HDD	F5NH4	N440
Seagate ST600MM0088 (6 Gbps)	Firmware	C6320	600GB Boot HDD	40R7R	TS04
Seagate ST600MM0088 (12 Gbps)	Firmware	C6320	600GB Boot HDD	KKNKX	TT31
Seagate ST600MM0006 (6 Gbps)	Firmware	C6320	600GB Boot HDD	68NGY	LS0B
Toshiba AL14SEB060N (12 Gbps)	Firmware	C6320	600GB Boot HDD	TT55H <b>Minimum supported version: 5CJXP</b>	DM05 <b>Minimum supported version: DM03</b>
Toshiba AL13SEB600 (6 Gbps)	Firmware	C6320	600GB Boot HDD	MCM30	DE11
Intel SSDSC2BX400G4R (6 Gbps)	Firmware	C6320	400GB Boot SSD	8MD67	DL29

## Storage

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 (10GB NDC)	Driver	R730	Network – Data Center	W205T	17.0.0

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
				<b>Minimum supported version:</b> HP103	<b>Minimum supported version:</b> 16.5.0
Dell SAS 12 HBA	Driver	R730	SAS HBA – External	KCPM3 <b>Minimum supported version:</b> GX4V1	2.51.1.2 <b>Minimum supported version:</b> 2.50.75.01
PERC H330	Driver	R730	SAS HBA – Internal	T7F02	6.603.07.00
Chipset	Driver	R730	Intel C600/ C610/C220/ C2000 series	007K2	10.1.2.10
Backplane	Firmware	R730	Backplane	635G9	2.23
BIOS	Firmware	R730	BIOS	2H4CC	2.0.2
iDRAC	Firmware	R730	iDRAC	5GCHC	2.30.30.30
Intel X520 (10GB NDC)	Firmware	R730	Network – Tenant	F8H29 <b>Minimum supported version:</b> 6FD9P	17.0.12 <b>Minimum supported version:</b> 16.5.20
Dell SAS 12 HBA	Firmware	R730	SAS HBA – External	2G2KF <b>Minimum supported version:</b> 3VHN7	09.17.20.07 <b>Minimum supported version:</b> 03.17.01.00
PERC H330	Firmware	R730	SAS HBA – Internal	N3C08	25.4.0.0017
Hitachi HUC101830CSS204 (12 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	89VK3	FJ11
Hitachi HUC101830CSS204 (6 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	H89FV	FJ05
Hitachi HUC101860CSS204 (6 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	H89FV	FJ05
Hitachi HUC109030CSS600 (6 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	F5NH4	N440

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Hitachi HUC109060CSS600 (6 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	F5NH4	N440
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	89VK3	FJ11
Seagate ST300MM0006 (6 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	68NGY	LS0B
Seagate ST300MM0008 (12 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	KKNKX	TT31
Seagate ST600MM0088 (12 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	KKNKX	TT31
Seagate ST600MP0005 (12 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	KYWVC	VT31
Toshiba AL13SEB300 (6 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	MCM30	DE11
Toshiba AL14SEB030N (12 Gbps)	Firmware	R730	Storage – 300GB Boot HDD	TT55H <b>Minimum supported version: 5CJXP</b>	DM05 <b>Minimum supported version: DM03</b>
Toshiba AL14SEB060N (12 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	TT55H <b>Minimum supported version: 5CJXP</b>	DM05 <b>Minimum supported version: DM03</b>
Toshiba AL13SEB600 (6 Gbps)	Firmware	R730	Storage – 600GB Boot HDD	MCM30	DE11
Hitachi HUS724020ALS640 (6 Gbps)	Firmware	MD1400	JBOD 2TB HDD	W21D1 <b>Minimum supported version: J6G25</b>	W350 <b>Minimum supported version: W2F0</b>
Hitachi HUS724040ALS640 (6 Gbps)	Firmware	MD1400	JBOD 4TB HDD	W21D1 <b>Minimum supported version: J6G25</b>	W350 <b>Minimum supported version: W2F0</b>

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Hitachi HUS726020ALS214 (12 Gbps)	Firmware	MD1400	JBOD 2TB HDD	WFTGN	KJ03
Hitachi HUS726040ALS214 (12 Gbps)	Firmware	MD1400	JBOD 4TB HDD	WFTGN	KJ03
Seagate ST2000NM0023 (6 Gbps)	Firmware	MD1400	JBOD 2TB HDD	MF5DP <b>Minimum supported version:</b> MNVH4	GS13 <b>Minimum supported version:</b> GS10
Seagate ST4000NM0023 (6 Gbps)	Firmware	MD1400	JBOD 4TB HDD	MF5DP <b>Minimum supported version:</b> MNVH4	GS13 <b>Minimum supported version:</b> GS10
Seagate ST2000NM0005 (12 Gbps)	Firmware	MD1400	JBOD 2TB HDD	W80FT	MS05
Seagate ST4000NM0005 (12 Gbps)	Firmware	MD1400	JBOD 4TB HDD	W80FT	MS05
Seagate ST6000NM0034 (12 Gbps)	Firmware	MD1400	JBOD 6TB HDD	Y9J1F	MS84
Seagate ST8000NM0075 (12 Gbps)	Firmware	MD1400	JBOD 8TB HDD	T51M7	PS24
Hitachi HUH728080AL5204 (12 Gbps)	Firmware	MD1400	JBOD 8TB HDD	FT5JT	GK04
Hitachi HUC101812CSS204 (12 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	89VK3	FJ11
Hitachi HUC101812CSS204 (6 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	H89FV	FJ05
Hitachi HUC101212CSS600 (6 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	4DT2J	U5E2

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Seagate ST1200MM0007 (6 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	2DDG2	IS06
Seagate ST1200MM0088 (6 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	40R7R	TS04
Seagate ST1200MM0088 (12 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	KKNKX	TT31
Toshiba AL14SEB120N (12 Gbps)	Firmware	MD1420	JBOD 1.2TB HDD	TT55H <b>Minimum supported version: 5CJXP</b>	DM05 <b>Minimum supported version: DM03</b>
EMM/ESM	Firmware	MD14x0	EMM/ESM	N/A	1.02
Sandisk LT0400MO (12 Gbps)	Firmware	MD14x0	JBOD 400GB SSD	4XWDY <b>Minimum supported version: PFH20</b>	D414 <b>Minimum supported version: D40Z</b>
Sandisk LT0800MO (12 Gbps)	Firmware	MD14x0	JBOD 800GB SSD	4XWDY <b>Minimum supported version: PFH20</b>	D414 <b>Minimum supported version: D40Z</b>
Toshiba PX02SMF040 (12 Gbps)	Firmware	MD14x0	JBOD 400GB SSD	9V6P2 <b>Minimum supported version: 2N3CV</b>	A3AF <b>Minimum supported version: A3AE</b>
Toshiba PX02SMF080 (12 Gbps)	Firmware	MD14x0	JBOD 800GB SSD	9V6P2 <b>Minimum supported version: 2N3CV</b>	A3AF <b>Minimum supported version: A3AE</b>
Toshiba PX04SMB040 (12 Gbps)	Firmware	MD14x0	JBOD 400GB SSD	WMGV3	AM04
Toshiba PX04SMB080 (12 Gbps)	Firmware	MD14x0	JBOD 800GB SSD	WMGV3	AM04
Toshiba PX04SMB160 (12 Gbps)	Firmware	MD14x0	JBOD 1.6TB SSD	WMGV3	AM04

# 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 (10GB NDC)	Driver	R730xd	Network – Data Center	W205T <b>Minimum supported version: HP103</b>	17.0.0 <b>Minimum supported version: 16.5.0</b>
PERC H730P	Driver	R730xd	SAS HBA – Internal	T7F02	6.603.07.00
Chipset	Driver	R730xd	Intel C600/ C610/C220/ C2000 series	007K2	10.1.2.10
Backplane	Firmware	R730xd	Backplane	635G9	2.23
BIOS	Firmware	R730xd	BIOS	2H4CC	2.0.2
iDRAC	Firmware	R730xd	iDRAC	5GCHC	2.30.30.30
Intel X520 (10GB NDC)	Firmware	R730xd	Network – Tenant	F8H29 <b>Minimum supported version: 6FD9P</b>	17.0.12 <b>Minimum supported version: 16.5.20</b>
PERC H730P	Firmware	R730xd	SAS HBA – Internal	VH28K	25.4.0.0017
Hitachi HUC101860CSS204 (12 Gbps)	Firmware	R730xd	Storage – 600GB Boot HDD	89VK3	FJ11
Seagate ST600MM0088 (12 Gbps)	Firmware	R730xd	Storage – 600GB Boot HDD	KKNKX	TT31
Seagate ST600MP0005 (12 Gbps)	Firmware	R730xd	Storage – 600GB Boot HDD	KYWVC	VT31

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Toshiba AL14SEB060N (12 Gbps)	Firmware	R730xd	Storage – 600GB Boot HDD	TT55H <b>Minimum supported version:</b> 5CJXP	DM05 <b>Minimum supported version:</b> DM03
Hitachi HUS724040ALS640 (6 Gbps)	Firmware	R730xd	Storage – 4TB DPM	W21D1 <b>Minimum supported version:</b> J6G25	W350 <b>Minimum supported version:</b> W2F0
Hitachi HUS726040ALS214 (12 Gbps)	Firmware	R730xd	Storage – 4TB DPM	WFTGN	KJ03
Seagate ST4000NM0023 (6 Gbps)	Firmware	R730xd	Storage – 4TB DPM	MF5DP <b>Minimum supported version:</b> MNVH4	GS13 <b>Minimum supported version:</b> GS10
Seagate ST4000NM0005 (12 Gbps)	Firmware	R730xd	Storage – 4TB DPM	W80FT	MS05
Toshiba MG03SCA400 (6 Gbps)	Firmware	R730xd	Storage – 4TB DPM	ONXTP	DG09
Toshiba MG04SCA40EN (12 Gbps)	Firmware	R730xd	Storage – 4TB DPM	3FDM3 <b>Minimum supported version:</b> TOFMV	DS06 <b>Minimum supported version:</b> DS04

## 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

Component	Type	Platform	Category	Software Bundle (SWB)	Supported Version
Dell Networking S4048-ON Switch Dell Networking O/S	Firmware	N/A	Top-of-rack switch	N/A	9.9(0.0) <b>Minimum supported version:</b> 9.8(0.0)