

Dell EMC XC 740xd2 Core System Support Matrix

July 2020

Revisions

Date	Description
July 2020	Updated the Memory capability section.
June 2020	Updated the Support components section.
May 2020	Updated the following sections: <ul style="list-style-type: none"> • Supported components • Supported NICs • Supported hypervisor OSs
February 2020	Updated the Supported hypervisor OS section.
December 2019	Initial release

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Introduction

This document provides information about the supported software, firmware, and hardware versions and technical specifications for the Dell EMC XC 740xd2 system.

NOTE: This Support Matrix contains the latest compatibility and interoperability information. If you observe inconsistencies between this information and other documentation or references, this document supersedes all other documentation.

1 Supported hardware, firmware, and software

This chapter provides information about supported software, firmware, and hardware versions for the Dell EMC XC 740xd2 system.

NOTE: Future updates to this document may remove firmware versions because Nutanix LCM is the prescribed method to update the appliance.

1.1 Supported components

Table 1 Supported components

Component	Cascade Lake Model	Cascade Lake Refresh
CPUs	4210	4210R
	4214	4214R
	4216	5218R
	5215	
	5215M	
	5218	
	5220	
	6222V	
	6226	
	6230	
	6238	
	6262V	
	BIOS	2.4.5
iDRAC support	4.00.00.00 and later	

Table 2 Memory capability

	Skylake	Cascade Lake	Skylake/Cascade Lake *Will downclock from this to CPU capability
16Gb RDIMM	2666	2933	3200
32Gb RDIMM	2666	2933	3200
64Gb LRDIMM	2666	2666	N/A
64Gb RDIMM	NA	2933	3200
128Gb LRDIMM	2666	2666	3200

Table 3 Support

Shelf	2933 MT/s Support
Gold-62xx	✓
Gold-52xx	
Silver-42xx	

1.2 Supported physical disk drives

This section provides information about disks drives supported by your hardware.

Table 4 Supported physical disk drives

Form Factor	Capacity	Type	Vendor
3.5"	10 TB	SAS HDD	Dell EMC Supported
3.5"	12 TB	SAS HDD	Dell EMC Supported
3.5"	12 TB	SED SAS HDD	Dell EMC Supported
2.5"	960 GB	SATA SSD	Dell EMC Supported
2.5"	1920 GB	SATA SSD	Dell EMC Supported
2.5"	3840 GB	SATA SSD	Dell EMC Supported
2.5"	960 GB	SAS SSD	Dell EMC Supported
2.5"	1920 GB	SAS SSD	Dell EMC Supported
2.5"	3840 GB	SAS SSD	Dell EMC Supported
2.5"	1920 GB	SED SAS SSD	Dell EMC Supported

1.2.1 Encryption Restrictions

This section describes encryption restrictions.

- If encryption has never been enabled and you do not plan to use it in the future, secure encrypted drives (SED) can be mixed with unencrypted (non-SED) drives in the same node.
- If encryption was never enabled and remains disabled, encrypted nodes can be mixed with unencrypted nodes in the same cluster.
- Encryption is not supported for NVMe drives.
- All nodes in the cluster must have SED capable drives to use hardware SED encryption.

If SED drives are mixed with non-SED drives, the encryption cannot be enabled for that cluster.

NOTE: An encryption key must be removed from the SED drives from Prism before you format (clear) the SED drives.

1.3 Supported networking

This section provides information about networking supported by your hardware and supported NICs.

Intel branded Network Daughter Cards (NDC) and Network Interface Cards (NIC) specify the use of only Intel branded SFP+ optical modules for use with optical cables. When ordering a system with optics, the appropriate Intel branded SFP+ optical modules are included with your order. If you already have SFP+ optical modules, ensure that they are the Intel branded modules before inserting into the NDC or NIC. Twinax cables are also the supported network cables for Intel NDC and NIC.

CAUTION: Using any brand of SFP+ module other than Intel during deployment disables the 10 GbE ports. Call Dell EMC Support to recover port functionality.

WARNING: Hot-plugging an unsupported SFP+ module causes ESXi host to fail with purple diagnostic screen. Call Support to recover from this situation.

1.3.1 Supported NDCs

There is no support for NDCs at this time.

1.3.2 Supported NICs

This section specifies supported NICs.

Table 5 Supported NICs

Name
Intel X540 QP 10Gb Base-T NIC
Intel X710 DP 10Gb SFP+ PCIe NIC
Intel X710 DP 10Gb Base-T PCIe NIC
Mellanox 25Gb CX4 SFP28 DP NIC
Intel XXV710 DP 25Gb SFP+ PCIe NIC

1.4 Supported management software

This section provides information about components supported by your appliance.

Table 6 Supported management software

Name	Minimum AOS version
Acropolis Hypervisor (AHV)	5.11.1 or later

1.5 Supported hypervisor OSs

This section provides information about the hypervisor Operating Systems (OS) supported by your appliance.

Table 7 Supported hypervisor OSs

Name	Minimum version
Acropolis Hypervisor (AHV)	5.11.1 or later
VMware	ESXi 6.5 U3 (EOL date 3/12/2020) ESXi 6.7 U3

2 Documentation Matrix

The documentation matrix provides information about the documents that you use to configure and deploy the Dell EMC Hyper-Converged Appliance solution.

WARNING: See the safety and regulatory information that shipped with your system. Warranty information may be included with this document or as a separate document.

Make sure that you read through any media that ships with your system that provides documentation and tools for configuring and managing your system, including those pertaining to the OS, system management software, system updates, and system components that you purchased with your system.

NOTE: URLs such as Dell.com/support or Dell.com/support/home are not active because you must type the URL from your location to access your specific language.

For the full name of an abbreviation or acronym used in this document, see the Glossary at Dell.com/support/home.

NOTE: Always read the updates on Dell.com/support/home because they often supersede information in other documents.

NOTE: While upgrading your system, Dell EMC recommends that you download and install the latest BIOS, driver, and systems management firmware on your system from Dell.com/support/home.

2.1 Dell EMC documentation

Dell EMC documentation is either included with your shipment or available at the Dell EMC website at Dell.com/xcseriesmanuals.

Dell EMC documentation for:

- Dell EMC iDRAC is available at Dell.com/idracmanuals.
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To access Dell EMC documentation:

1. In the **Dell EMC Support** page, scroll down to **General Support**, and then click **Servers, Storage & Networking**.
2. Click **Engineered Solutions**, click **Manuals**, and select the documentation you require.

Table 8 Dell EMC reference documentation

To learn about...	Refer to...
Setup instructions of your system, including the technical specifications	<i>Getting Started Guide</i>
Hardware details for your system	<i>Owner's Manual</i>
How to install your system into a rack	<i>Dell Rack Install Guide</i>
How to deploy and set up this solution	<i>Solutions Guide</i>

To learn about...	Refer to...
How to find important information about your solution	<i>Release Notes</i>
Setting up and using Dell iDRAC9	<i>Dell iDRAC9 Quick Start Guide</i>
Using OpenManage Essentials to monitor, perform updates, view hardware, and view inventory on your system	<i>Dell OpenManage Essentials User's Guide</i>

2.2 Nutanix documentation

You can find Nutanix documentation using the Nutanix portal at <https://portal.nutanix.com/#/page/docs>. To display a complete set of documentation, you must have user credentials to log in.

The required Nutanix documentation is found using various filters or search.

Table 9 Nutanix documentation

To learn about...	<i>Acropolis base document name</i>
Set up instructions for environments with special requirements and restrictions.	<i>Acropolis Advanced Setup Guide</i>
Comprehensive references for Controller Virtual Machine (CVM) utilities, nCLI commands, and Nutanix PowerShell cmdlet	<i>Acropolis Command Reference</i>
Instructions and reference for administering the Nutanix solution software outside the Nutanix Prism UI (such as cluster start/stop, manual upgrade, changing passwords, reconfiguring IP addresses, and troubleshooting tools).	<i>Acropolis Advanced Administration Guide</i>
Managing Nutanix Acropolis AHV hosts that run Nutanix solution software.	<i>Acropolis Hypervisor Administration Guide</i>
Comprehensive references for the Nutanix REST API.	<i>Acropolis API Reference</i>
Distributed VM management services for Nutanix nodes with Acropolis hypervisor (AHV).	<i>Acropolis App Mobility Fabric Guide</i>
Nutanix support of containers through Acropolis Container Services.	<i>Acropolis Container Services Guide</i>
Set up instructions for your solution.	<i>Field Installation Guide</i>
Software instructions for hardware components that are not functioning.	<i>AHV Administration Guide</i>
Software instructions for hardware components that are not functioning.	<i>Hardware Replacement Documentation</i>
Comprehensive instructions and references for the Nutanix UI, including overview information.	<i>Prism Web Console Guide</i>

To learn about...	<i>Acropolis base document name</i>
Monitoring multiple Nutanix cluster through web console.	<i>Prism Central Guide</i>

3 Contacting Dell EMC

Dell EMC 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 EMC product catalog. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical assistance, or customer-service issues:

1. Go to **Dell.com/support**.
3. Select your country from the drop-down menu on the lower right corner of the page.
4. For customized support:
 - Enter your system **Service Tag** in the **Enter your Service Tag** text box.
 - Click **Submit**.
 - The support page that lists the various support categories is displayed.
5. For general support:
 - Select your product category.
 - Select your product segment.
 - Select your product. The support page that lists the various support categories is displayed.
6. For contact details of Dell EMC Global Technical Support:
 - Click Global Technical Support.
 - The Contact Technical Support page is displayed with details to call, chat, or email the Dell EMC Global Technical Support team.

4 Quick Resource Locator

Use the Quick Resource Locator (QRL) to get immediate access to Dell EMC XC 740xd2 solution information. This information provides access to reference documentation, a link to the Dell support page, and links to hardware-specific QRL pages, which include how-to videos. You can access this information by visiting www.dell.com/QRL or by using your smartphone or tablet and scanning the QR code below. You can also click the image below to go directly to the Dell EMC XC 740xd2 QRL location.

