



# XC CORE ADDS LICENSING FLEXIBILITY TO XC FAMILY OF HYPER-CONVERGED INFRASTRUCTURE SOLUTIONS

The Dell EMC XC Family of hyper-converged infrastructure (HCI) products combines our PowerEdge servers with Nutanix software to provide enterprise-class solutions for all virtualized workloads. These 1U, 2U and 3U systems consolidate compute, storage and virtualization resources into a single platform that can be quickly deployed and easily managed. Capacity and performance can be expanded seamlessly – one node at a time – delivering linear and predictable scale-out expansion with pay-as-you-grow flexibility.

The XC Family consists of XC Series Appliances and XC Core Systems. XC Series Appliances provide a turnkey HCI solution with global hardware and software support through Dell EMC. XC Core offers customers an additional method to acquire Nutanix software licensing while leveraging the benefits of the Dell EMC XC platform. XC Core uses the same PowerEdge hardware and software as the XC Series Appliances, however, the HCI software is licensed separately and supported directly by Nutanix. Support and service for Dell EMC hardware and system integration software are provided through our ProSupport centers and teams located in 167 countries around the world.

This alternative lets customers buy Nutanix software licenses from authorized partners, and then add the licenses to pre-validated XC Core systems that are configured, built and tested by Dell EMC. It enables license portability across infrastructure components and separate management and support of hardware and Nutanix software lifecycles. Customers also can update the Dell EMC hardware and Nutanix software independently to take full advantage of the latest technology enhancements to the XC Family.

## Ideal for virtualized workloads

XC Family solutions are ideal for all enterprise workloads and applications running in virtual environments. Preconfigured options with flexible ratios of compute and storage including all flash configurations, coupled with support for Microsoft® Hyper-V®, Nutanix AHV and VMware® ESXi™, make them ideal for running different applications on the same platform in your data center. They can be easily deployed and support multiple virtualized, business-critical workloads including VDI, private cloud, database, OLTP and data warehouse as well as virtualized big data deployments.

## Intuitive and powerful management interface

The Nutanix Prism Central management framework provides a highly intuitive, easy-to-use graphical user interface (GUI). All information is organized and presented through elegant touch points to facilitate easy consumption of operational data. Prism provides the ability to define and manage a complete hyper-converged infrastructure from nearly any device and includes REST APIs for integration with

third-party cloud management systems. It also gives administrators a bird's eye view of resources across multiple clusters running different hypervisors and enables them to manage individual clusters using the GUI or a Windows PowerShell command-line interface.

## Adding value to Nutanix software

Dell EMC has over 12 years of experience integrating hardware and software for appliances built with PowerEdge servers. That expertise helps us design, validate and test the optimal processor, memory and storage configurations for Nutanix software. It also enables us to develop technologies that simplify and streamline common workflows performed throughout the appliance's lifecycle. This starts with factory installation of the hypervisor of choice and pre-configuration of system settings to maximize performance of the Nutanix software. Other examples include one-click BIOS, firmware and software updates, software modules that deliver fast and seamless deployment, rapid factory restore and bare metal recovery, rich in-band hardware monitoring and management capabilities, and components developed specifically for HCI to simplify workflow orchestration across a cluster.

## Built-in Security

Every XC system is based on a cyber-resilient architecture, with security built into all parts of the server's life cycle. XC Series appliances use these security features so you can reliably and securely deliver the right data wherever it's needed. Dell EMC considers each part of system security, from design to end-of-life, to ensure trust and provide worry-free systems that enable you to:

- Rely on a secure component supply chain to ensure protection from the factory to the data center
- Maintain data safety with cryptographically signed firmware packages and Secure Boot
- Prevent unauthorized or malicious change with Server Lock down
- Wipe all data from storage media including drives and system memory quickly and securely with System Erase

Configurations and features	XC640-4/ XC640-4i	XC640-10	XC740xd-12	XC740xd-24 <sup>1</sup>	XC740xd-12C XC740xd-12R	XC940-24	XC6420-6 <sup>2</sup>	
<b>Form factor</b>	1U, 1 node	1U, 1 node	2U, 1 node			3U, 1 node	2U, up to 4 nodes	
<b>Workload</b>	Remote/ branch office, non mission-critical  XC640-4: 3-node cluster deployment  XC640-4i: 1- or 2-node deployment	Compute and performance- intensive VDI, test and development, enterprise cloud, server virtualization	Storage-heavy Microsoft Exchange, SharePoint, data warehouse, big data	Performance- intensive SQL and Oracle OLTP, VDI with GPU	XC740xd- 12C: Storage capacity node for any cluster, does not run VMs or VDI XC740xc-12R: Single node replication target (not clustered)	Memory and performance- intensive Microsoft SQL and Oracle OLTP	Rack Dense VDI, service providers, enterprise cloud	
<b>Dell EMC PowerEdge server platform</b>	R640		R740xd			R940	C6420	
<b>Hypervisor boot</b>	Boot Optimized Storage Solution - 2x120GB M.2 RAID 1 Mirror, low profile PCIe							
<b>Hypervisor options</b>	Microsoft® Windows Server™ 2016 (except XC640-4i) with Hyper-V or Windows Server® 2012 R2 with Hyper-V, Nutanix AHV, VMware® ESXi™ 6.7, 6.5 and 6.0				Nutanix AHV only	Microsoft Windows Server 2016 with Hyper-V, Nutanix AHV, VMware ESXi 6.7, 6.5 and 6.0	Microsoft Windows Server 2016 with Hyper-V, Nutanix AHV, VMware ESXi 6.7, 6.5 and 6.0	
<b>Support</b>	Hardware: 1 - 5 year Dell EMC ProSupport or ProSupport One; software support provided by Nutanix							
<b>Intel® Xeon® processors (dual only per node except XC640-4i)</b>	Dual only: XC640-4: Platinum 8253, 8260, 8260M, 8260Y, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6210U, 6212U, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254; Silver 4208, 4210, 4214, 4214Y, 4215, 4216; Bronze 3204  XC640-4i (single only): Gold 5118, Silver 4114, 4108	Dual only: Platinum 8253, 8260, 8260M, 8260Y, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6210U, 6212U, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254; Silver 4208, 4210, 4214, 4214Y, 4215, 4216; Bronze 3204	Dual only: Platinum 8253, 8260, 8260M, 8260Y, 8268, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254; Silver 4208, 4210, 4214, 4214Y, 4215, 4216; Bronze 3204	Dual only: Platinum 8253, 8260, 8260M, 8260Y, 8268, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254; Silver 4208, 4210, 4214, 4214Y, 4215, 4216; Bronze 3204	Dual only: Platinum 8253, 8260, 8260M, 8260Y, 8268, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254; Silver 4208, 4210, 4214, 4214Y, 4215, 4216; Bronze 3204	Quad only: Platinum 8253, 8256, 8260, 8260M, 8260Y, 8268, 8270, 8276, 8276M, 8280, 8280M; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6230, 6240, 6240Y, 6242, 6244, 6248, 6252, 6254	Dual only Platinum 8253, 8260, 8260M, 8268, 8270, 8276, 8276M, 8280; Gold 5215, 5215M, 5217, 5218, 5218N, 5220, 5222, 6230, 6240, 6242, 6244, 6248, 6252, 6254; Silver Silver 4208, 4210, 4214, 4215, 4216; Bronze 3204	
<b>Data storage controller</b>	Dell EMC SAS HBA330 mini card		Dell EMC SAS HBA330 low profile				Dell EMC SAS HBA330 mini card	

<sup>1</sup> Can be optionally configured with 1 or 2 NVIDIA Tesla M10 GPUs, or with 1, 2, or 3 NVIDIA Tesla M60 or P40 GPUs. Not compatible with NVMe SSDs

<sup>2</sup> Specifications are per node

Configurations and features	XC640-4/ XC640-4i	XC640-10	XC740xd-12	XC740xd-24 <sup>1</sup>	XC740xd-12C XC740xd-12R	XC940-24	XC6420-6 <sup>2</sup>
<b>Drive type</b>	4 x 3.5" drives	10 x 2.5" drives	12 x 3.5" drives	24 x 2.5" drives	12 x 3.5" drives	24 x 2.5" drives	6 x 2.5" drives <sup>2</sup>
<b>SSD capacities</b>	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. min/max 2 for hybrid configurations. All flash SAS/SATA configurations available	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. Min 2, max 4 for hybrid configurations. All flash SAS/SATA and SSD+ NVMe configurations available, NVMe SSDs: 800GB, 1.6TB, 3.2TB	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. Min 2, max 4 for hybrid configurations. All flash SAS/SATA configurations available	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. Min 4, max 8 for hybrid configurations. All flash SAS/SATA and SSD+ NVMe configurations available, max 80TB per node. NVMe SSDs: 800GB, 1.6TB, 3.2TB	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. Min 2, max 4 for hybrid configurations. All flash SAS/SATA configurations available max 80TB per node	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. Min 4, max 8 for hybrid configurations. All flash SAS/SATA and SSD+ NVMe configurations available, max 80TB per node. NVMe SSDs: 800GB, 1.6TB, 3.2TB	SAS/SATA SSDs: 400GB, 480GB, 800GB, 960GB, 1.6TB, 1.9TB, 3.8TB. min/max 2 for hybrid configurations. All flash SAS/SATA available,
<b>HDD capacities (max 80TB total per node)</b>	2X 2TB, 4TB, 8TB or 10TB (10TB for XC640-4 only)	1.2TB, 1.8TB, 2.4TB 12Gb SAS	2TB, 4TB, 8TB or 10TB 12Gb SAS with a maximum of 80TB total capacity per node	1.2TB, 1.8TB, 2.4TB 12Gb SAS; minimum of 4 and max 20	2TB, 4TB, 8TB or 10TB, 12Gb SAS with a maximum of 80TB total capacity per node	1.2TB, 1.8TB, 2.4TB 12Gb SAS; minimum of 4 and max 20	1.2TB, 1.8TB, 2.4TB 12Gb SAS, min/max 4
<b>Self-encrypting drives (SED)</b>	SSD: 1.9TB HDD: 4TB, 8TB	SSD: 1.9TB HDD: 1.2TB, 2.4TB	SSD: 1.9TB HDD: 4TB, 8TB	SSD: 1.9TB HDD: 1.2TB, 2.4TB	SSD: 1.9TB HDD: 4TB, 8TB	SSD: 1.9TB HDD: 1.2TB, 2.4TB	SSD: 1.9TB HDD: 1.2TB, 2.4TB
<b>DIMMs</b>	4 - 24 16GB and 32GB RDIMMS or 64GB or 128GB LRDIMMS (XC640-4) and 4 - 12 16GB and 32GB RDIMMS (XC640-4i)	8-24 x 16GB and 32GB RDIMMS or 64GB or 128GB LRDIMMS, installed in pairs			4 - 24 x 16GB and 32GB RDIMMS, installed in pairs	24-48 x 32GB RDIMMS or 64GB or 128GB LRDIMMS installed in pairs	8-16 per node x 16GB or 32GB RDIMMS or 64GB or 128GB LRDIMMS, installed in pairs
<b>Memory configs</b>	64GB - 3TB (XC640-4) and 64GB - 384GB (XC640-4i)	128GB - 3TB (XC640-10, XC740xd-12) 64GB - 3TB (XC740-24)			64GB - 768GB	768GB - 6TB	128GB - 2TB
<b>Networking options</b>	<p>Network daughter cards: Intel X550 4x10GbE-T, Intel X550 2x10GbE-T &amp; i350 2x1GbE-T, Intel X710 2x10GbE SFP+ &amp; i350 2x1GbE-T, Intel i350 4x1GbE-T (XC640-4i only). Mellanox Connect X4 LX 2x25GbE SFP28 (Except XC640-4i, XC740xd-12R, only compatible with Mellanox CX4 LX)</p> <p>Optional Network Interface Cards (Max 2 for XC640 models, max 4 for XC-740xd models and max 8 for XC940-24): Intel i350 2x1G-T, Intel i350 4x1G-T (except XC740xd-24, XC740xd-12 and XC740xd-12C), Intel X550 2x10G-T, Intel X710 2x10G SFP+, Mellanox Connect X4 LX 2x25G SFP28 (except XC640-4i and XC740xd-12R)</p> <p>Note: 1) Foundation imaging requires 1x 10GbE interface except for XC640-4i 2) Network interface cards are for management and non-CVM traffic only and cannot be used for Foundation imaging.</p>						Network Interface Cards, 1 max: Intel X550 2x10G-T, Intel X710 2x10G SFP+

<sup>1</sup> Can be optionally configured with 1 or 2 NVIDIA Tesla M10 GPUs, or with 1, 2 or 3 NVIDIA Tesla M60 or P40 GPUs. Not compatible with NVMe SSDs

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Supported hypervisor operating systems and AOS (Acropolis operating system)	VMware ESXi 6.0 (Update 3)	VMware ESXi 6.5U2, 6.7U1	Microsoft Windows Server 2012 R2 Standard Edition, Datacenter Edition	Microsoft Windows Server 2016	Nutanix AHV	AOS 5.1.3 or later
<a href="#">XC640-4, XC-640-4i</a>	X	X	X (except XC640-4i)	X (except XC640-4i)	X	X
<a href="#">XC640-10</a>	X	X	X	X	X	X
<a href="#">XC740xd-12</a>	X	X	X	X	X	X
<a href="#">XC740xd-24</a>	X	X	X	X	X	X
<a href="#">XC740xd-12C</a> <a href="#">XC740xd-12R</a>					X	X
<a href="#">XC940-24</a>	X	X		X	X	X
<a href="#">XC6420-6</a>	X	X		X	X	X

### Dell EMC XC Core support and deployment services

XC Core nodes can be installed in the customer's data center by certified XC Family deployment engineers. Once deployed, XC Core customers will receive collaborative support from Dell EMC and Nutanix. Hardware and system integration software issues are managed through Dell EMC ProSupport while software-related assistance is provided by Nutanix. If the source is unknown, customers can either call Dell EMC or Nutanix first and both companies will work together through an established process to quickly resolve the issue.

In addition, our automated proactive and predictive tools and technologies, including iDRAC and SupportAssist, help avoid hardware-related issues and enable faster resolution. And, ProSupport experts are always accessible 24x7x365 by phone, email, chat and social media across 167 countries and 55 languages served by more than 1,000 parts distribution centers.

### End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell EMC Sales Representative for more information.

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