

DELL EMC VXBLOCK SYSTEMS

The industry-leading* CI that delivers turnkey SAN-based solutions for mission-critical workloads

DELL EMC VXBLOCK SYSTEM



ESSENTIALS

- Simplified IT
- Improved business agility
- Quicker time-to-value
- Less time to maintain
- Increased business responsiveness

Powering the modern data center

Dell EMC Converged Infrastructure (CI) has helped thousands of global enterprise customers transform their IT environments to become more agile, reliable, and cost-effective. Dell EMC Converged Infrastructure systems integrate enterprise-class technologies—including compute, network, storage, virtualization, and management—into one engineered system that is engineered, manufactured, managed, supported, and sustained as one. These systems eliminate the slow, complex, and costly process of procuring, assembling, and the ongoing maintenance of traditional in-house integration approaches.

Dell EMC Converged Infrastructure overview

Dell EMC VxBLOCK Systems deliver simple IT solutions from general-purpose workloads to mission-critical use cases, significantly reducing costs, time-to-deploy, and ongoing management/maintenance time, enabling your IT staff to spend more time focused on business outcomes and on new initiatives than on managing the IT infrastructure and keeping the lights on.



IDC White Paper: [Leveraging Convergence to Drive Business Agility](#)

Unsurpassed simplicity

VxBLOCK Systems bring together leading technologies from Dell EMC, Cisco, and VMware. All system elements are pre-integrated, pre-configured, then tested and validated before shipping. Seamless integration allows you to operate and manage your system as a single product, rather than as individual, siloed components. Ongoing, component-level testing, and qualification result in drastically simplified updates and maintenances. The end result is significant time and resource savings throughout the systems' life cycle.

Fastest and easiest way to modernize your infrastructure

VxBLOCK Systems are one of the fastest and easiest ways to modernize a data center with all-flash storage, including Dell EMC Unity, XtremIO, and VMAX options. All-flash VxBLOCK Systems are ideal for mixed-workload consolidation, applications that require extreme performance and scale, mission-critical applications, and whenever you are looking for the highest storage density at the lowest operational total cost of ownership (TCO).

* Source: IDC Quarterly Converged Systems Tracker Q4 2016

#1 FOR A REASON

Delivering real business results

“The capabilities and reliability of the new system has freed up some of my time, meaning I can focus on the things that really matter, like managing my teams and delivering the best outcome for our internal customers.”

Brad Flintoff, IT Manager, Brownes

“Dell EMC listens and responds, and gives us better solutions—month after month, year after year. USD is a world-class Higher Education Experience business supported by a world-class IT infrastructure—and Dell EMC is at the heart of that.”

Mike Somerville, NISS Manager – Systems Support & Chief Cloud Evangelist, University of San Diego

“Every day we’ve got to do things better than we did the day before and be even more competitive if we’re going to thrive in this competitive electric market. Because of that, it has required us to be more agile, bringing cost savings back to the business and investing those in new innovation.”

Kevin Chase, Senior VP and Chief Information Officer, Energy Future Holdings Corp

“Our mission to deliver a dynamic and evolving set of core services and innovative technologies essential to the citizens is critical. Dell EMC is helping the City of Virginia Beach achieve this mission by enabling us to develop and implement the best technology solutions to meet those demands.”

Matthew Arvay, former CIO, City of Virginia Beach, VA

Streamlined deployments

With multivendor solutions, considerable time and resources are devoted to sourcing, integrating, testing, validating, and ongoing maintenance. VxBlock Systems are factory-integrated and can be delivered within 60 days of order with an almost immediate time-to-value thereafter.

System sustainability

Rely on the Dell EMC Release Certification Matrix (RCM) to streamline software release planning and ongoing configuration management across all converged infrastructure components. Dell EMC quality assurance tests for interoperability of hardware and software ensures that your system and data center experience dramatically reduced downtime due to updates and scheduled maintenance. This unique experience spans across all VxBlock Systems for an unmatched customer experience.

Converged System Management

Dell EMC Vision Intelligent Operations is health and life cycle management software at its best. Its intelligence, automation, and visualization facilitate standardized, repeatable IT processes—making it easier to keep your data center/hybrid-cloud environment healthy, stable, optimized, and secure. The software manages compute, network, storage, and virtualization components together as a single system and multiple systems as a single pool of resources. Functions include health, RCM compliance, and security compliance management.

Simple to scale and easy to share resources

Dell EMC Vscale Architecture provides the most flexible and optimal way to scale out data centers and share resources across converged infrastructure systems, hyper-converged systems, and non-converged systems. Through the Dell EMC Vscale Fabric, a scalable spine-leaf network fabric, you can connect multiple systems and modular components to create a shared pool of resources.

Single-call support

Dell EMC delivers fully integrated, 24/7 support with a single phone call. There’s never any finger-pointing between vendors, and you can always rely on our fully cross-trained team for a fast resolution to any problem.

Integrated data protection

For reliable backup and recovery, your converged systems are built with data protection optimized for your specific needs. Dell EMC offers the most advanced data deduplication, replication, and data protection technologies for achieving your Recover Point Objective (RPO) and Recover Time Objective (RTO) requirements.

Security and compliance

VxBlock Systems are engineered to ensure the highest levels of security and are built to simplify complicated compliance requirements. All components and software are tested and validated to eliminate security vulnerabilities and to enhance performance and integrity. In addition, Vision software automates the inspection and other time-consuming aspects of system security and software compliance policy, greatly reducing the time needed to pinpoint and eliminate security vulnerabilities.

VxBLOCK Systems

VxBLOCK Systems provide a wide range of solutions to meet your requirements for size, performance, and scalability. VxBLOCK Systems are built with industry-leading compute and networking from Cisco, storage from Dell EMC with Dell EMC Unity, XtremIO, and VMAX, and virtual distributed switching from VMware.



The VxBLOCK Systems portfolio

Midrange scale for general, file, and block workloads

The VxBLOCK System 350 is agile and highly scalable. It's a unified, converged infrastructure that is designed for general-purpose mixed workloads. These systems can be easily tailored to meet specific workload or SLA requirements like VDI, Microsoft Exchange, Oracle, and SAP while minimizing risks and costs. Available with the powerful Dell EMC Unity all-flash (or hybrid-flash) storage options, these are perfect for general-purpose mixed workloads.

All-Flash Converged Infrastructures targeting reduction and copy-friendly workflows

The VxBLOCK System 540 is optimized for data reduction and copy-friendly workflows, such as Virtual Desktop Infrastructure (VDI) and test and development environments. Leveraging Dell EMC XtremIO storage, with inline efficiencies, these systems deliver scale-out performance at ultralow latency.

The most advanced data services in a Converged Infrastructure

The VxBLOCK System 740 is the industry's most advanced intelligent converged system with unmatched performance, scalability, and availability for the most demanding mission-critical applications. With Dell EMC VMAX all-flash (or hybrid) storage options, this system delivers multidimensional scale, high IOPS for extreme levels of performance with low latency. It is ideal for large-scale mixed workload consolidation and mission-critical workloads, such as SAP, Oracle, Microsoft, and VDI.

Converged Technology Extensions

Dell Converged Technology Extensions provide an innovative way to expand and enhance a converged system quickly and easily by adding compute or storage outside of the original system. They are available for Cisco UCS and Dell EMC storage and support multiarray storage combinations.

Add Dell EMC Unity all flash with inline compression, rich data services for mixed workloads like databases, data warehouses, transactional workloads, and virtualization applications.

Add XtremIO all flash for linear growth, massive I/O performance, 40 G connectivity, and workload consolidation. With a scale-out design, it is ideal for data reduction and copy-friendly workflows, such as Virtual Desktop Infrastructure (VDI) and test and development environments.

#1 FOR A REASON

Delivering real business results

"First of all, it's saving us on the maintenance and support funding. That allows us to take those remaining investment dollars and actually put them into new innovative investment."

Chad Eckes, Executive Vice President and CFO, Wake Forest Baptist Medical Center

"It provided us the flexibility we needed for both our revenue-generating mixed workloads and all-flash back end."

Carlos Sotero, IT Director, Insight

"It's pre-built and pre-tested, and offered us high availability, scalability, and automation to make provisioning new services faster and more efficient."

Jonas Esko, IT Architect Manager, LKAB

"We're now 100 percent responsive to the business."

Michael Tomkins, Chief Technology Officer, Fox Sports Australia

"We have a small IT staff and the minimal maintenance time required allows us to work on projects that help grow our business rather than just "keep the lights on."

Tom Nollan, Director of IT, Old Dutch Foods

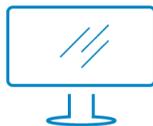
Add VMAX all-flash configurations to support your large-scale data center consolidation, diverse and heavy-transaction workloads, data warehousing, analytics, and mission-critical applications.

Add VNX2 and VMAX3 hybrid to grow and cost-effectively manage multiprotocol file/block systems. These arrays are ideal for VxBlock 540 customers (XtremIO) who want to extend their storage with hybrid-configuration options.

Add Isilon for scale-out Network Attached Storage (NAS) capacity to address the increased performance and scaling needs for file-based and data-driven applications. It's optimized for large-scale, unstructured data, including videos, pictures, audios, texts, and genomic/mobile data.

VxBlock Systems Specifications

System	VxBlock System 240	VxBlock System 350	VxBlock System 540	VxBlock System 740
Compute	Cisco UCS C220 M4 Rackmount Servers Cisco UCS Virtual Interface Card (VIC) 1227	Cisco UCS Server Chassis Cisco UCS B-Series Blade Servers Cisco UCS 2204XP/2208XP Series Fabric Extenders (540 also supports the UCS 2304XP) Cisco UCS 6246/6296UP Fabric Interconnects (540 also supports the UCS 6332-16UP) Cisco USC Virtual Interface Card 1227, 1240, 1280, 1340 and 1380 (540 also supports the 1387)		
Min/Max. Servers	4-12	N/A	NA	NA
Min/Max. Chassis	NA	2/32	2/24	2/64
Min/Max. Blades	NA	2/256	2/256	2/512
Network	Nexus 5548UP Cisco ACI	Nexus 9396 Nexus 93180YC-EX Nexus 3172TQ Cisco ACI MDS 9148S Multilayer Fabric Switch MDS 9396S MDS 9706 Multilayer Director	Nexus 9396 Nexus 93180YC-EX Nexus 5548UP Nexus 5596UP Nexus 3172TO Nexus 9332PQ Cisco ACI MDS 9148S Multilayer Fabric Switch MDS 9396S MDS 9706 Multilayer Director	Nexus 9396 Nexus 93180YC-EX Nexus 5548UP Nexus 5596UP Nexus 3172TO Cisco ACI MDS 9148S Multilayer Fabric Switch MDS 9396S MDS 9706 Multilayer Director
Storage	Dell EMC VNX 5200	Dell EMC Unity 300F, 400F, 500F, 600F (all flash) Dell EMC Unity 300, 400, 500, 600 (hybrid flash)	Dell EMC XtremIO 1, 2, 4, 6, or 8 X-Brick Cluster	Dell EMC VMAX 250F, 450F, 850F, and 950F (all flash) Dell EMC VMAX 100K, 200K, and 400K (hybrid flash)
Storage Capacity	Up to 500 TB	Up to 15 PBe	1.6 PBe	Up to 4 PBe
Virtualization	VMware vSphere Enterprise Plus (with VDS) VMware NSX (not available on VxBlock System 240) Cisco Nexus 1000V Dell EMC PowerPath/VE			
Management	Dell EMC Vision Intelligent Operations 3.5			



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