VBLOCK® SYSTEM 540
INDUSTRY’S FIRST ALL-FLASH-BASED CONVERGED INFRASTRUCTURE

Rapidly growing data volumes and data types challenge global enterprises today. They have to find new ways of using their datacenters to drive business value and as a source of competitive differentiation. Increasing agility, simplifying operations while minimizing risk and costs have become table stakes. For IT professionals, a converged infrastructure model like VCE™ Vblock® Systems that integrates compute, network, storage, and virtualization into a single pool of resource and one that is engineered, manufactured, sustained, and supported by a single vendor—has promised remarkable results as illustrated by a recent IDC study.¹

IDC forecasts the use of flash in the datacenter to be in the $7 billion by 2017.² Many customers are now leveraging flash arrays not just to accelerate their applications, but to consolidate multiple workloads and deliver new business agility. Leading the innovations path, Vblock® System 540 is the industry’s first All-Flash based converged infrastructure system for high performance mixed workloads. Combined with VCE™ technology extension for EMC® Isilon® storage, the Vblock System 540 is ideal for mission critical and emerging third platform applications such as Big Data (Business Analytics) and End-User Computing.

VCE holds the #1 market position for Integrated Infrastructure Systems, as defined by Gartner.³ VCE, once again, is demonstrating its extraordinary capability by bringing to market innovations that meet customer needs today and tomorrow. The Vblock System 540 is powered by EMC’s market-leading XtremIO™ all-flash arrays (AFA), next-generation Cisco Unified Computing, and Cisco Nexus ACI-Ready networking, delivering scale-out performance at ultra-low latency, superior flexibility, and operational excellence to handle multiple tier 1 workloads.

Enterprise-class All Flash Vblock System delivers breakthrough performance, cost-effective capacity

- Every Vblock System 540 is based on the industry’s leading EMC XtremIO all-flash array, delivering >1M IOPS, with consistent sub-millisecond application response times.
- Rich data services such as in-line de-duplication, storage compression, space-efficient writeable copies, and always-on thin provisioning delivers scale-out performance and optimal end-user experience.
- Shared in-memory meta data and content based data placement ensures flash data services are optimized for predictable performance at low latency—inline.
- The scale-out system requires no tuning for any workload combinations and leverages a unique flash-optimized data protection algorithm (XDP) to deliver superior performance, protection, and usable capacity.
- The next-generation Cisco Unified Computing System offers scalability up to 192 blade servers and supports the latest B-series M4 blades that deliver 1.5x compute memory and 1.5x core capacity than previous blade servers.
- The Cisco Nexus ACI-Ready networking with 40G and Cisco MDS switches with 16Gbps Fibre Channel, provide unprecedented performance for application deployment and operations.
Flexible for high performance mixed workloads and emerging third platform applications

Vblock System 540 enables new and broad range of use cases:

- Mixed high performance workloads: such as databases, data warehouse, business applications, and end-user-computing environments are good targets for virtualization and consolidation where extreme performance and scalable capacity is needed, while meeting prescribed SLAs.

- Dev/Test Environments: With space-efficient snapshots and cloning, hundreds of full-performance writeable instances can be deployed instantly with no capacity impact.

- Real-time Analytics and On-Demand Reporting: Production OLTP, ETL, and OLAP can be combined onto the Vblock System for instant Business Intelligence.

- Mission-critical workload virtualization: A broad range of performance and capacity optimized servers and storage drives high throughput at sub millisecond latency.

- Big Data for Business Analytics: Vblock System 540 combined with VCE technology extension for EMC® Isilon® storage.

- End User Computing: Vblock System 540 combined with VCE technology extension for EMC® Isilon® storage.

- Superior Flexibility—Enables customers to choose the right configuration and expand both server and storage performance and capacity to meet growing workloads with no single point of failure.

- Greater Application and Business Agility—Breakthrough application and copy services enable transformational benefits for applications, including business intelligence agility through real-time analytics and business innovation agility through accelerated dev/test and software development.

- Automation—With Cisco Nexus 9396PX switches customers can choose to enable Cisco ACI-Ready network to take full advantage of application policy-based templates automating the provisioning of network resources, application services, security, segmentation, and workload placement.

- Lower TCO—The new cabinet 2.0 enables better insights into data center power, overall environmental monitoring, and improved compliance using SmartLock technology. Faster processing cores, space efficient all flash array (1/2 a rack) combined with rich data services results in 6-20x more effective capacity, data reduction and space efficient copies. The net result is a smaller datacenter footprint, achieving the lowest TCO than traditional storage arrays.

Breadth of VCE Portfolio

Business Continuity and Data Protection

Only VCE offers a complete portfolio of factory-integrated data protection. Backups, archive, zero data loss, zero down time; whatever level of protection each business application needs, VCE delivers it as scalable, lowest risk and fully supported by a single phone call.

Security and Compliance

Vblock Systems are engineered with security as a fundamental requirement for system functionality and trust, providing a baseline security profile designed to incorporate and serve as a primer for your unique security and compliance requirements.

Systems Management

VCE delivers intelligent systems management of Vblock Systems. VCE also provides an extensible API to leading management tools to protect investments in existing management frameworks.
About VCE

VCE, formed by Cisco and EMC with investments from VMware and Intel, accelerates the adoption of converged infrastructure and cloud-based computing models that dramatically reduce the cost of IT while improving time to market for our customers. VCE, through the Vblock Systems delivers the industry’s only fully integrated and fully virtualized cloud infrastructure system.

VCE solutions are available through an extensive partner network, and cover horizontal applications, vertical industry offerings, and application development environments, allowing customers to focus on business innovation instead of integrating, validating and managing IT infrastructure.

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