VCE and VMware:
Virtualizing Your Infrastructure Just Got Easier

Ready to Virtualize Mission-Critical Apps?

You already know that virtualization can help you consolidate resources and simplify IT, but you cannot place your company's mission-critical applications at risk.

You want to have the flexibility of a virtual environment, but you are worried about managing mission-critical workloads and data in a shared resources environment. Will you know where the data is?

You may have a number of built-to-purpose application silos which are independently managed to meet the needs of individual business units. You have to maintain specific service levels for each and are not sure a shared platform will let you do that. And if it did, how would you charge the business units for service?

Your business-critical applications require high performance, high availability and high security. And they have to be able to scale as business needs change. In the past, you have managed SLAs by designing your own infrastructure. Can you trust that to someone else?

You need 24x7 availability of applications and data. How are you going to be able to migrate to a new platform without incurring downtime?

You need a robust infrastructure which supports solutions to your business problems and extends the benefits of virtualization to your most demanding business-critical applications. And you need an expert to help: a virtualization partner you know you can trust.

That's why VCE—the Virtual Computing Environment Company—was formed by Cisco and EMC, with investments by VMware and Intel. VCE designs and supports converged infrastructure solutions that simplify deployment and operations, making it easier to virtualize your infrastructure. The Vblock™ Infrastructure Platforms combine compute, networking, storage, virtualization and management technologies to create an integrated infrastructure for the highly visible, mission-critical applications your company depends on to stay in business.

Converged Infrastructure— Scalable to Support Critical Workloads

Vblock platforms are built on robust, industry-leading technologies: Cisco Unified Computing System™ (UCS) blade servers, Cisco networking components, VMware® vSphere™ virtualization technology and EMC storage systems.

Proven technology. Vblock Infrastructure Platforms feature integrated, best-in-class components to support computing, networking, storage, security, virtualization and management technologies. The platforms' design makes it easy to scale your virtualization environment to support your applications workloads.

Easy to deploy. Because they are prepackaged with all the components you need—and are backed by single vendor support—Vblock platforms dramatically reduce implementation timelines. And Vblock solutions help you more quickly migrate applications to the virtual environment.

Ready for mission-critical applications. Vblock platforms are pre-configured to make workload balancing simple and straightforward across all components—network, computer, and storage—so you don't have to worry about I/O system bottlenecks. The Vblock platform continuously and dynamically tunes all aspects of your environment, optimizing performance and ensuring you will meet your service levels.

Unified management. With the Vblock platform's Unified Infrastructure Manager, you can provision and troubleshoot across compute, storage and network resources. UIM supports service catalogues, speedy resource provisioning, and efficient capacity utilization, positioning your IT organization to respond more flexibly to your business needs. Intelligent management automates previously manual processes. And Vblock platforms allow you to manage all of your infrastructure resources through a single console.

Enable secure multi-tenant environments. Vblock platforms provide a foundation for a shared infrastructure that can provide the security you need to protect business-critical applications and data. In conjunction with partners, VCE has developed a Trusted Multi-Tenancy (TMT) solution which provides comprehensive separation between tenants.

Business continuity and disaster recovery. The platform delivers the functionality you need to meet demanding standards for business continuity and disaster recovery. Vblock platforms support virtual server replication, and include VMware High Availability (HA) and VMware® Site Recovery Manager™. Your business-critical applications and data will be protected in the event of hardware or datacenter failure.

Security built in at every step. VCE simplifies the challenges and addresses the security needs holistically by bringing together validated technologies and solutions from the ecosystem. By consistently addressing the Vblock platform as a whole, VCE ensures the interoperability of the individual component's security configurations prior to shipping the platform as well as throughout the lifecycle as updates are provided to customers. VCE utilizes parent company and industry-vetted guidelines and practices in hardening the configuration of the Vblock platforms. The system as a whole is then tested using industry standard tools and approaches to assure confidentiality, integrity, availability and interoperability before the productized platform ships. This methodology allows for third party validated secure solutions such as for PCI-DSS compliance to meet the challenges of today's ever-increasing regulatory requirements and changing threat landscape.

VCE extends the hardened security posture inherent to the Vblock platforms through solutions from the partner ecosystem to address the security and compliance of business challenges. By taking full advantage of new solutions maximizing the benefits of converged infrastructures as well as guidelines on integrating with existing security management infrastructures, VCE provides the means to address the Vblock platforms as not a sum of components, but as a single system including the applications, data, and services it contains.

Robust orchestration capabilities: From service catalogues to workload mobility, Vblock Solutions for Management and Orchestration simplify IT operations and help lower TCO.

Simplified Solution You Can Deploy with Confidence

More than just technology, VCE's Vblock Infrastructure Platforms offers a holistic approach to data center design, implementation, management and support. This is a new way of doing IT, with technology that reflects the extensive expertise of the industry's virtualization and cloud computing leaders and partners.

• Extensive partner ecosystem backs your Vblock platform deployment with technical excellence

• Engineered, tested and manufactured as integrated, predictable units of performance to streamline and simplify business-critical architecture and deployment decisions, and processes

• Tested, and proven on the most mission-critical applications from email, to top tier database and other data intensive production applications

• Simplified support model offers a unified patch/upgrade release, support, and escalation processes to deliver end-to-end accountability and a seamless support experience

Solutions Proven Successful by Companies Like Yours

Healthcare benefits provider rockets from zero to 98 percent virtualization

Using Vblock platform technology, a healthcare benefits management company went from no virtualization to a fully-enabled private cloud in only nine months. By virtualizing its mission-critical production environments, the company has achieved impressive strategic benefits. It once took six months to bring new analytics applications to market. Today, it takes two weeks. Software engineers once spent half of their time supporting existing applications. Now they spend 80 percent of their time developing new services and capabilities. The company's systems can now accommodate larger volumes of data: its Vblock platforms support a fourfold increase in maximum throughput, compressing critical IT workloads and speeding application response times to sub-second levels.

Business services outsourcer deploys production systems in three weeks

It once took up to three months for a services provider to configure, cable, and test the servers, networking, and storage system it deploys and manages on behalf of customers. Today, with Vblock platform technology, it takes three weeks—and once a Vblock platform is deployed, additional resources can be provisioned in less than an hour. In addition to boosting responsiveness to customers, the provider's engineers are now free to focus more of their time on IT innovation

College leverages Vblock platform to launch Infrastructure as a Service, improve disaster recovery

A private liberal arts college has implemented Vblock platform technology to improve manageability and control of its IT infrastructure. The college can add storage and compute capacity in small increments, and manage all of its Vblock platform systems from a single management interface. Automated provisioning has allowed the college to embrace an Infrastructure as a Service model for its web hosting services. The VCE solution also supports replication of the college's virtual machines to a private cloud service provider, delivering the robust disaster recovery capabilities the college previously lacked.

Virtualize Mission-Critical Applications Faster

- **Reduce the uncertainties** associated with virtualizing mission-critical applications

- **Respond faster** to business needs with dynamic, scalable, adaptable solutions

- **Support your Service Level Agreements (SLAs)** for even the most demanding applications

- **Reduce the cost of IT** while increasing capabilities

- **Increase resource efficiency** through pooling and automation

- **Build a foundation for self-service** while maintaining IT control and governance

For More Information

VCE, VMware, and our virtualization partners can help you take the next step in enabling transformational change across your entire IT infrastructure.

To learn more, please visit VCE at
http://www.vce.com/

Vblock SERIES 300
Designed to address a wide spectrum of virtual machines, users, and applications. Ideally suited to achieve the scale required in both private and public cloud environments. Scales from smaller to mid sized deployments of CRM and SCM, e-mail, file and print, and collaboration.

Vblock SERIES 700
Designed for deployments involving very large numbers of virtual machines and users. Ideally suited to meet the higher performance and availability requirements of an enterprise's business critical applications. Scales to the largest deployments of enterprise CRM and SCM, datacenter operation environments, and service provider cloud computing offerings