VIRTUAL DESKTOP INFRASTRUCTURE (VDI) ON VBLOCK SYSTEMS

Virtualization simplifies desktop management and sparks innovation.

- AUTOMATE VDI deployment and rapid desktop provisioning
- IMPROVE desktop security, performance, and scalability
- LOWER desktop administration costs with centralized management

Organizations are looking for ways to reduce the growing costs and complexity of managing the increasing number of end user devices that are proliferating within the workplace. With so many new types of devices used in and out of the office, data security and 24 x 7 desktop availability take on new dimensions. Complying with the privacy regulations around the world—such as Sarbanes-Oxley, the Healthcare Insurance Portability and Accountability Act (HIPAA), and the European Union Privacy Regulations—adds to the security, archiving, and disaster protection challenges.

With VDI, IT can manage client desktops centrally and achieve:

- **Reduced costs and complexity** through centralized provisioning and management of desktop applications and user accounts.
- **Increased Security** through centralized control of sensitive data and the ability to separate company and personal desktops.
- **Consistent User Experience** through the deployment of uniform high performance architecture.

Vblock™ Systems from VCE provide an enterprise-class IT infrastructure for VDI rollouts. Tight integration with VMware operating system and applications means that Vblock Systems provide the response times, security, availability, and agility IT requires. Factory-integrated systems accelerate deployment and provide performance at scale for the most demanding applications. These purpose-built solutions simplify purchase, streamline provisioning, and lower deployment risk.

Why Vblock Systems are Ideal for VDI

Vblock Systems are designed for the next generation data center—where IT as a Service becomes a reality. They combine high performance technology with ease of management features to optimize applications and lower TCO. VCE integrates and tests systems in-factory to deliver predictable performance. And VCE has engineered a powerful VDI solution—that provides rapid provisioning and decommissioning of virtual desktops, modular scalability, and a resilient and validated architecture.

Virtual Desktop Infrastructure (VDI) on Vblock Systems includes:

- **VMware View** is the industry's leading desktop virtualization platform from VMware and the only solution built expressly to deliver desktop as a service.
- **An "always on" feature for healthcare environments**, the VMware AlwaysOn Point of Care solution on Vblock Systems, allows clinicians and staff to achieve the continuous level of availability they demand. In a typical IT environment, only the production environment is backed up. But with an Active-Active desktop environment running identical desktop images, even if there is a failure at the primary site end users can promptly access their desktops and applications.
- **Mobile Secure Desktop:** The notion of "bring your own device," or BYOD, has redefined the traditional office space. Users are increasingly using smartphones and tablets to access enterprise application to do their work from virtually anywhere. Therefore, securing data, managing devices, and offering a rich end-user experience have now become the top priorities of many customers. VCE and VMware have partnered to offer a secure mobile desktop solution to address the challenges of deploying a virtual desktop project. The VMware View Mobile Secure Desktop validated on Vblock Systems from VCE is an innovative and cost-effective solution for customers adopting BYOD initiatives.

Vblock System Benefits:

- Modular and scalable virtual desktop growth: Vblock Systems are designed to scale up and out so that IT can add compute, networking, and storage resources as the business grows.
- Resilient and validated architecture: The solution allows administrators to accommodate unplanned events, such as spikes and boot storms, to ensure high availability and a consistently high performance VDI user experience.
- Centralized security and manageability: IT can reduce costs while improving the manageability and security of user devices and data.

Choosing the Right Vblock System for Your VDI Solution

When it comes to supporting high-performing infrastructure, VCE is constantly innovating. Optimized for Virtual Desktop Infrastructure, customers have grown to trust the predictable performance, one-stop customer support, and security that are consistently delivered across the entire Vblock Systems family. VCE seamlessly integrates leading compute, network and storage technologies to ensure you have a pain-free deployment:

The Vblock System 100 is "right-sized" to meet the capacity, workload and space requirements of mid-sized datacenters and distributed Enterprise remote offices. By leveraging Vblock System 100, companies experience the repeatability, architecture standardization, and business results synonymous with the Vblock System.

With pre-defined fixed configurations, Vblock 100 is designed to:

- Bring the power and benefits of the Vblock System family into a value-focused solution
- Deliver core IT services (file/print and domain) for mid-sized datacenters and distributed Enterprise remote locations in industries such as healthcare and advanced manufacturing.
- Offer dedicated local instance business application support including VDI, SharePoint, Exchange
- Provide predictable performance and operational characteristics

Vblock System 200 is "right-sized" to meet the capacity, workload and space requirements of mid-sized datacenters and distributed Enterprise remote offices. By leveraging Vblock System 200, companies experience the repeatability, architecture standardization, implementation flexibility and business results synonymous with the Vblock System.

With pre-defined, variable configurations the Vblock System 200 balances real workload requirements with fastest time to value, reducing risk and complexity. Vblock 200 is designed to:

- Bring the power and benefits of the Vblock System family into a value-focused solution
- Deliver core IT services (file/print and domain) for mid-sized datacenters and distributed Enterprise remote locations
- Provide Dev/Test and co-location datacenter support
- Efficiently handle mixed workload requirements for mid-sized datacenters
- Offer Business applications with data segregation requirements (eDiscovery, eArchive) with predictable performance and operational characteristics

Vblock Systems 300 is an enterprise and service provider ready system, designed to address a wide spectrum of virtual machines (VMs), users, and applications. It is ideally suited to achieve the scale required in both private and public cloud environments. Vblock 300 has been engineered for greater scalability and performance to support large enterprise deployments of mission-critical applications, cloud services, VDI, mixed workloads and application development and testing.

Every Vblock System 300 is available with the market-leading EMC VNX storage arrays.

Vblock Systems 700 is an enterprise, service provider class mission-critical system for the most demanding IT environments—supporting enterprise workloads and SLAs that run thousands of virtual machines and virtual desktops. It is architecturally designed to be modular, providing flexibility and choice of configurations based on demanding workloads. These workloads include business-critical enterprise resource planning (ERP), customer relationship management (CRM), and database, messaging, VDI, and collaboration services. Vblock System 700 leverages industry's best director-class fabric switch, the most advanced fabric based blade server, and the most trusted storage platform.

Vblock System 700 delivers greater configuration choices, 2X performance and scale compared to the previous release, flexible storage options, denser compute, five 9s availability, converged network and support for a new virtualization platform that accelerates time to service and reduces operations costs.

Banking on the Right Partner

A large European bank sought to improve customer experiences at branches, where desktop boots took as long as 15 minutes, impeding employee productivity. The company also wanted greater business agility to meet the mandates of regulators calling for the separation of financial services and insurance operations. The institution deployed Vblock Desktop Virtualization for 20,000 desktops, greatly increasing branch productivity. Employees can retain the same sessions on their mobile devices as they move about the offices to serve customers. Log-in times were reduced to seconds. Thin clients are being introduced for remote access from the home and for mobile platforms like the iOS and Android devices

Similarily, one large North American bank looked to VDI to improve security and streamline IT processes. They rolled out a VDI solution based on the Vblock Desktop Virtualization System to 500 users in three weeks, months ahead of their competition. The VDI solution supports a diverse environment of desktop terminals, laptops, and tablet computers and can scale to 5,000 virtual desktops. Now, proprietary data that had been stored on laptops is stored in a central location where IT easily can ensure data protection best practices.

VCE Professional Services: The Right Way to Get Started

VCE technology and industry experts can accelerate business value and manage risk through quality execution and proven deployment, migration, and management services. We intimately understand the entire technology stack and provide seamless support to governments and businesses operating multitenant and mixed workload environments in more than 25 countries on five continents.

Learn more about how to get a single platform containing everything you need to deliver a flexible, scalable virtual desktop infrastructure, visit vce.com or contact a Vblock™ Qualified Partner.