



Efficiency. Control. Choice.

Deliver High-Performance Desktops as a Service

Vblock Powered Solution for VMware View provides:

- Modular virtual desktop growth
- Rapid provisioning and decommissioning of desktops
- Simplified management
- Self-curing architecture
- Support for a large number of desktops on a single Vblock

Vblock™ Powered Solution for VMware View Solution Brochure

VCE Vblock™ Infrastructure Packages are optimized for a wide range of virtualized solution deployments. Vblock packages integrate best of breed technology from industry leaders Cisco, EMC, and VMware, backed by VCE's seamless world class support. Each Vblock is pre-built and ready for deployment. The modular design is highly scalable to meet growth needs, provide investment protection, and lower total cost of ownership.

VMware View on Vblock Solution Benefits

- **Modular virtual desktop growth:** IT managers can easily add more virtual desktops as their needs grow simply by moving to larger or adding more Vblock Infrastructure Packages.
- **Rapid provisioning and decommissioning of desktops:** Deploy and decommission virtual desktops much faster than traditional virtual desktop infrastructure (VDI) environments.
- **Simplified management** of the servers, network, and storage whether co-located or distributed around the world.
- **Self-curing architecture** accommodates unplanned events such as spikes and boot storms to ensure a consistent high performance virtual desktop user experience.
- **Support thousands of virtual desktop users on a single Vblock:** This consolidated high-density infrastructure supports thousands of users on a single Vblock.

The Desktop Dilemma

Enterprises today face a serious desktop dilemma. End users need the freedom and flexibility to access their applications and data from a multitude of devices and locations. But meeting this need increases costs, and in addition to financial constraints, IT departments must balance user needs with internal policies and compliance requirements.

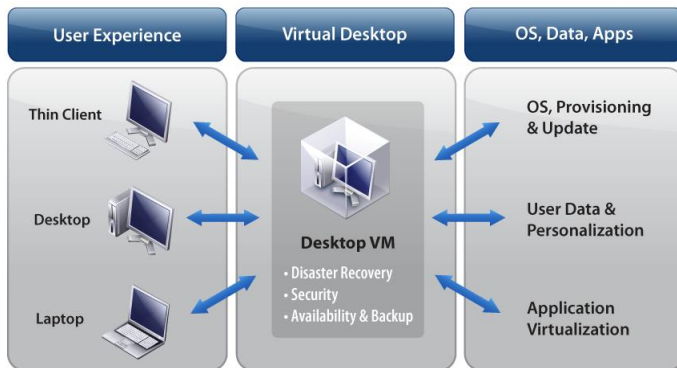
The High Cost of Traditional PC Deployments

For every dollar spent on PC hardware, organizations must spend an average of three dollars just to maintain that device.

— Forrester Research

VMware View solves this dilemma by virtualizing desktop operating systems, applications, and user data, decoupling these components from their underlying hardware. IT administrators can then centrally manage and provision these desktop components from the data center, creating a rapidly deployable private “desktop cloud” infrastructure (Figure 1).

Figure 1. Rapidly Deployable Private "Desktop Cloud" Infrastructure



VMware View encapsulates the OS, applications, and user data into isolated layers for better desktop management, and dynamically assembles desktops on demand to give users personalized views of their individual desktops.

Built expressly for desktops, VMware View is the only end-to-end solution that provides the scalable management, rich user experience, and common virtualization platform you need to energize your business by delivering desktops as a managed service.

Centralizing your desktop infrastructure with VMware View makes it faster, easier, and less costly for IT staff to provision, deploy, maintain, and monitor desktop images across their entire life cycle. IDC Research reports that VMware View customers have been able to lower the total cost of ownership (TCO) of their desktop infrastructures by 50 percent, saving more than US\$500 per user annually.¹

VMware View on Vblock Solution Benefits

Modular virtual desktop growth

IT managers can easily add more virtual desktops as their needs grow by moving to larger Vblock Infrastructure Packages or simply by adding more. This facilitates a departmental virtual desktop infrastructure (VDI) rollout and avoids the need to pre-purchase hardware that may not readily be used. Enterprises can start with a right-sized Vblock and scale up or out as needed.

Rapid provisioning and decommissioning of desktops

The auto-provisioning features built into the Vblock converged infrastructure support rapid provisioning and decommissioning of resources. These features enable IT administrators to create and provision virtual desktops much faster than traditional VDI environments. Cisco UCS Manager and Cisco UCS service profiles help move new server resources from the loading dock into production, or repurpose existing server resources, in minutes rather than in the hours, days, or weeks required to provision traditional servers. This speed becomes an asset when IT departments need to move users to virtual desktops as groups are ready to deploy VDI.

Simplified management

Unified Infrastructure Manager (UIM) enables users to unify their server, network, and storage resources for the Vblock Powered Solution for VMware View. UIM provides a single point of management for Vblock Infrastructure Packages and manages multiple Vblock Infrastructure Packages across compute, network, and storage resources anywhere in the world. Vblock Infrastructure Manager also comes with an open management framework (API) to leverage other quality management solutions such as BMC.

Self-curing architecture

Vblock Powered Solution for VMware View is offered on a high-density architecture that has elastic properties to accommodate unplanned events such as spikes or boot storms. This prevents the degradation of the user experience that can happen when too many users log in at the same time. Instead of rendering mission critical desktops into an unusable state, the self-curing properties of the Vblock Infrastructure Packages kick in, allocate appropriate resources, and enable end users to keep working with a high performance user experience.

¹IDC, Quantifying the Business Value of VMware View, September 2009

High number of virtual desktops on a single Vblock

This solution can support thousands of users on a single Vblock Infrastructure Package that includes all of the server, network and storage that you need for your virtual desktop deployment - all in one box. The patented Cisco Extended Memory Technology improves desktop density by up to 60% per blade over alternative solutions. Enterprises benefit from the ability to support a small number of users on a Vblock 0 to thousands of users in on a Vblock 2. Pick the size that is right for you.

The VCE Coalition

The VCE coalition—formed by Cisco, EMC, and VMware—addresses the management, infrastructure, and deployment challenges of VMware View deployments. This unique collaboration in development, services, and partner enablement reduces risk for companies that want to transform their PC infrastructure into a virtual desktop environment. The VCE coalition offers predictable units of infrastructure called Vblock Infrastructure Packages.

Vblock Infrastructure Packages

With Vblock Infrastructure Packages, the VCE coalition delivers the industry's first completely integrated IT offering that combines best-in-class virtualization, networking, computing, storage, security, and management technologies with end-to-end vendor accountability. This converged infrastructure enables rapid virtualization deployment, so customers quickly see a return on investment (ROI). Vblock Infrastructure Packages offer varying storage capacities and processing and network performance, and they support such incremental capabilities as enhanced security and business continuity (Figure 2).

Figure 2. Vblock Infrastructure Packages



Vblock Powered Solution for VMware View consists of a pre-integrated, validated converged infrastructure that accelerates time to production for your VMware View deployment.

Solution Packages

Three Vblock Infrastructure Packages are offered:

- **Vblock 2:** Designed for massive sizes and numbers of virtual machines in a compact footprint, supporting high-end configurations that are completely extensible to meet the most demanding IT needs. Vblock 2 consists of the Cisco Unified Computing System™, EMC Symmetrix® VMAX storage, and VMware vSphere.
- **Vblock 1:** Designed for large sizes and numbers of virtual machines in a compact footprint, supporting midsized configurations that deliver a broad range of IT capabilities to organizations of all sizes. Vblock 1 consists of the Cisco Unified Computing System, EMC CLARiiON® CX4 or EMC Celerra® unified storage, and VMware vSphere.
- **Vblock 0:** Designed for moderate sizes and numbers of virtual machines in a compact footprint—ideal for a test and development platform or for remote data centers. Vblock 0 consists of the Cisco Unified Computing System, EMC Celerra unified storage, and VMware vSphere.

VMware View on Vblock Summary

Vblock Powered Solution for VMware View enables you to consolidate the infrastructure from thousands of hardware devices into a single validated, pre-integrated infrastructure. This solution reduces the risks associated with deploying a new virtual desktop infrastructure, because Cisco, EMC, and VMware have performed the testing and integration for you. Businesses today spend weeks, or even months, in test and development environments to help ensure that a platform is robust enough to support virtual desktop deployments. Since Vblock Infrastructure Packages are pre-tested, you can eliminate up to 12 weeks of validation for rapid deployment with greatly reduced risk. And because this one infrastructure can support thousands of users, you can achieve significant savings in capital and operational expenditures.

Vblock Powered Solution for VMware View greatly simplifies management of your desktop environment, which is typically at high risk and difficult to manage because end users constantly introduce unknown behaviors. The desktop environment is now centralized, behind the firewall on a tested platform, for ease of management, security, business continuity, and backup. You can easily support service level agreements (SLAs) and compliance initiatives while delivering the performance your end users need to maintain productivity.

VCE Seamless Support Experience

Cisco, EMC, and VMware have invested in building a unique, cohesive support experience using collaborative tools, people, and processes. A single contact point directly connects you to a virtual team of VCE coalition technical support experts.

For More Information

- For more information, please visit www.VCEcoalition.com.
- To contact a sales executive, please visit <http://www.VCEcoalition.com/contact.htm>.



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