Trend Micro Joins VCE
to Secure Your Journey to the Cloud

Trend Micro Security Now Certified for Vblock™ Systems

Virtualization and cloud computing have the power to transform your company with the flexible delivery of computing resources across your business. Whether used to consolidate servers, deploy virtual desktop infrastructure (VDI) to deliver desktops as a managed service, or to enable cloud computing for unparalleled business agility—virtualization can help you break barriers and achieve more business innovation and growth.

But pulling everything together to evolve your data center can be difficult. If the physical infrastructure, virtualization platform, and security don't work together, you won't achieve the anticipated return on investment for your virtualization and cloud computing projects. VCE has developed a solution to address this need and to provide better IT integration for virtualization and cloud computing. Its Vblock™ Systems combine industry-leading technologies from Cisco, EMC, and VMware that deliver compute, network, storage, virtualization, and management technologies in prepackaged units. This converged infrastructure enables pre-configured, rapidly deployable cloud computing solutions that can lower capital and operational costs while providing new, strategic opportunities for your business.

To complement its Vblock systems, VCE has developed an extensive partner network and certification program of Vblock Ready solutions. Trend Micro has become part of the VCE Technology Alliance Partner (TAP) Program for independent software vendors (ISV), providing server and VDI security that is certified as Vblock Ready. Trend Micro is the first content security solution to achieve this distinction.

Maximize Your Cloud Security and Performance

As you deploy virtual and cloud infrastructures, you need security that is designed to protect these environments without sacrificing performance. Vblock Ready certification ensures that Trend Micro Deep Security works within the VCE pre-configured and tested environment. Adding Trend Micro security to your Vblock systems will not hinder performance, but will instead enable you to achieve high consolidation rates with lower management complexity while providing a single platform of comprehensive security for your virtual and cloud environments.

Trend Micro Deep Security is the industry's first agentless security platform that unlocks virtual machine (VM) performance for servers and VDI environments. As a security solution with Vblock Ready certification, Deep Security enables workloads to be deployed safely and effectively within VCE's optimized cloud infrastructure, helping you reduce risks and meet compliance and governance requirements.
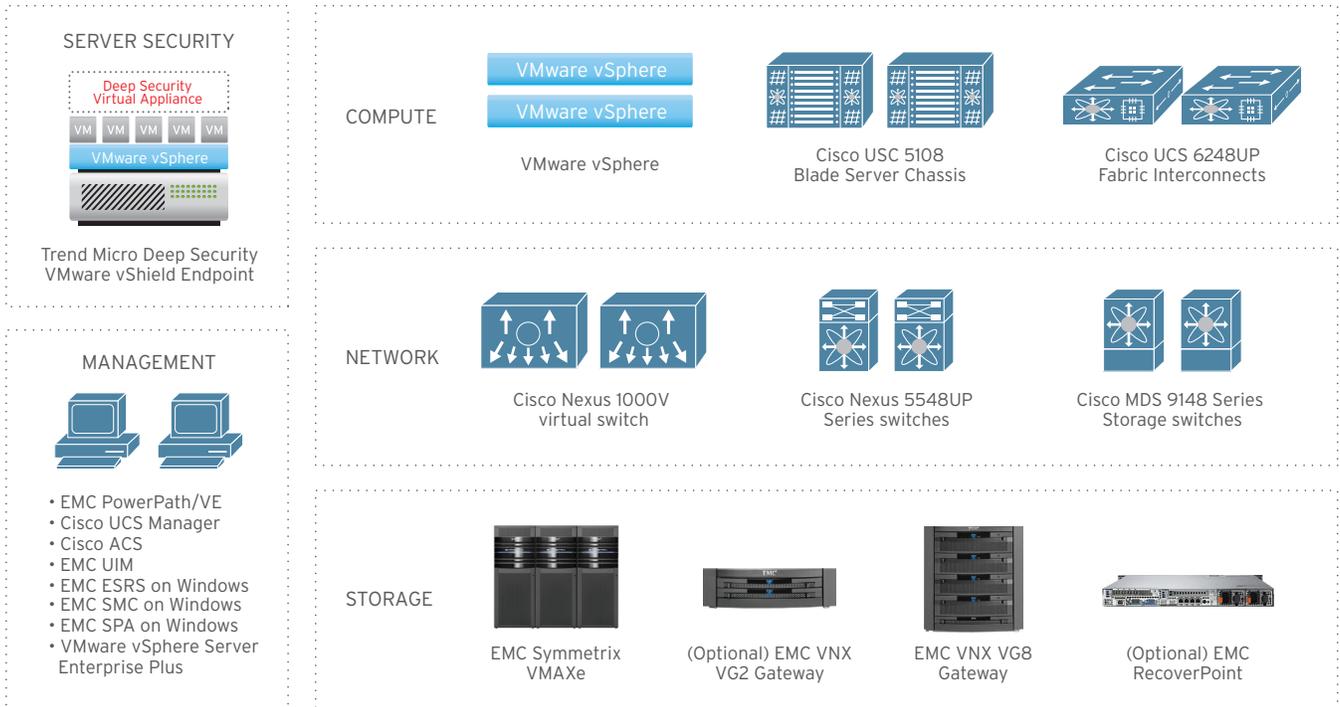
Converged Infrastructure through VCE Means:

- Less than 30 days from order to production (traditional approaches take 90 to 120 days)
- Rapid application deployment for faster ROI
- A single point of support across Vblock Systems
- Lower sustainable total cost of ownership (TCO)
- Predictable cost and performance models

Together, Vblock Systems and Trend Micro Security Achieve:

- Increased consolidation
- Ease of management
- Comprehensive virtualization security
- Increased ROI

SERVER SECURITY

Deep Security
Virtual Appliance

| VM | VM | VM | VM | VM |

VMware vSphere

Trend Micro Deep Security
VMware vShield Endpoint

MANAGEMENT

• EMC PowerPath/VE
• Cisco UCS Manager
• Cisco ACS
• EMC UIM
• EMC ESRS on Windows
• EMC SMC on Windows
• EMC SPA on Windows
• VMware vSphere Server
  Enterprise Plus

COMPUTE

VMware vSphere
VMware vSphere

VMware vSphere

Cisco USC 5108
Blade Server Chassis

Cisco UCS 6248UP
Fabric Interconnects

NETWORK

Cisco Nexus 1000V
virtual switch

Cisco Nexus 5548UP
Series switches

Cisco MDS 9148 Series
Storage switches

STORAGE

EMC Symmetrix
VMAXe

(Optional) EMC VNX
VG2 Gateway

EMC VNX VG8
Gateway

(Optional) EMC
RecoverPoint

Trend Micro Deep Security

As a recognized leader in virtualization, VCE has integrated VMware into its Vblock systems. Trend Micro has been working with VMware for years to design security for VMware virtualized data center and cloud infrastructures through the Deep Security solution. This makes Trend Micro Deep Security a perfect complement to Vblock systems.

Trend Micro Deep Security provides comprehensive server security designed to simplify security operations while accelerating the ROI of virtualization and cloud projects. Tightly integrated modules easily expand the platform to ensure server, application, and data security across physical, virtual, and cloud servers, as well as virtual desktops. Deep Security provides a wide range of agentless security for VMware VMs, including antivirus, integrity monitoring, intrusion detection and prevention, web application protection, application control, and bidirectional stateful

firewall. This single platform of integrated security protects enterprise applications and data from breaches and business disruptions and provides virtual patching to eliminate emergency patching processes. When used with the Vblock systems, this security mitigates risks and supports compliance across the VCE converged infrastructure.

These security options can be integrated in the same Deep Security virtual appliance for increased protection on VMware VMs. Deep Security leverages VMware vShield Endpoint APIs to offload key security functions to a dedicated security appliance and eliminates the security agent footprint in the guest VMs. Robust and secure hypervisor introspection capabilities in vSphere prevent compromises to these protection capabilities. The dedicated security virtual appliance provides "always-on" security to ensure that new VMs are provisioned with protection and

dormant VMs have up-to-date security when reactivated. And detailed logging of activity demonstrates compliance and satisfies auditor requirements. This advanced architecture provides tamper-proof security, frees up system resources, improves performance, and eliminates the risk of security "storms" (overloaded resources during scheduled scans and signature updates).

This agentless security approach provided by Trend Micro Deep Security protects virtual server and desktop network and file systems without deploying in-guest security agents. Agent-based security is also available to enable businesses to combine agentless and agent-based deployment configurations that best support their physical, virtual, and cloud servers and virtual desktops.

Transforming Information Technology

VCE delivers converged, preconfigured systems for rapid deployment, enabling you to spend more time on business innovation and less time on IT integration. And with Trend Micro's Vblock Ready certification for Deep Security, you get a security solution that leverages your Vblock systems investment and optimizes the benefits you receive. Now you can combine VCE and Trend Micro Deep Security for one overall infrastructure and security solution that safely accelerates your journey to the cloud.

Benefits of Trend Micro Deep Security with Vblock Systems

This joint solution provides full protection for virtualized data centers and desktops from the latest threats while delivering:

· **Higher Density** by offloading security scans from individual VMs to a single security virtual appliance on each vSphere host

· **Optimized Resources** by eliminating security storms and resource contention from multiple security agents

· **Simplified Management** by eliminating agents and the need to configure and update each one

· **Stronger Security** by providing instant-on protection for new VMs and tamper-proof security coordinated by the dedicated security appliance