# Trend Micro Deep Security +
# VMware vSphere with Operations Management

Security and operations management bundle for midsized businesses running vSphere

VMware and Trend Micro have partnered to deliver the first security and operations management bundle designed for virtualized environments within midsize businesses.

Most midsize organizations are highly virtualized on VMware, and while this has produced significant savings, it also has created new challenges when it comes to security, manageability, business continuity, meeting service level agreements (SLAs), and optimizing capacity. Specifically:

- Security – Most midsize organizations are running a legacy agent-based antivirus product in their virtual environment.  In the fast-changing virtual environment, it is difficult to keep this agent-based security up to date. Also, antivirus as a technology is insufficient to protect against today's sophisticated threats. However, the burden of managing more security agents (in addition to antivirus) causes most organizations to live with an inordinate level of risk to the virtual environment.

- Manageability – Administrators need to provision security agents in new virtual machines.  Continuously reconfiguring these agents as the virtual machines move around or change state and rolling out pattern updates on a regular basis, can be extremely time consuming.

- Business continuity - When traditional antivirus solutions initiate scans simultaneously, or when security updates run on all virtual machines on a single physical host—an "anti-virus storm" can cause application slowdowns and loss of business continuity.

- Meeting SLAs - Many organizations are in a reactive mode and lack the ability to aggregate workloads.  They need performance tools to analyze performance trends, correlate abnormalities, and identify the root cause in dynamic virtualized environments. Their existing tools may require extensive scripting to provide automation and alerting capabilities, leading to frequent false alerts or no alerts at all.

- Capacity Planning – With no tools to gain visibility into utilization, midsized organizations may be under or over provisioning, and undercutting the savings and agility promised through virtualization.

## SOLUTION OVERVIEW

VMware and Trend Micro have partnered to deliver the first security and operations management bundle designed for VMware® vSphere environments.

The joint solution includes the following components:

- VMware vSphere® with Operations Management is a new offering that combines the market leader and gold standard for virtualization with best-in-class virtualization performance and capacity management capabilities based on vCenter Operations Management Standard Edition. It enables organizations to transform physical data centers into dynamic, simplified infrastructures and lays the foundation for building private, public and hybrid cloud environments.

- Trend Micro™ Deep Security, the market leader in security for virtualization and cloud, provides a next-generation server security platform specifically designed for virtual and cloud environments. Its agentless architecture provides comprehensive protection from advanced threats, minimizes operational complexity, improves business continuity, and allows organizations to accelerate virtualization and cloud adoption. Deep Security provides a hardened security virtual appliance that integrates with vSphere at the hypervisor level to offer agentless antivirus, web reputation, integrity monitoring, and intrusion prevention for VMware virtual machines.
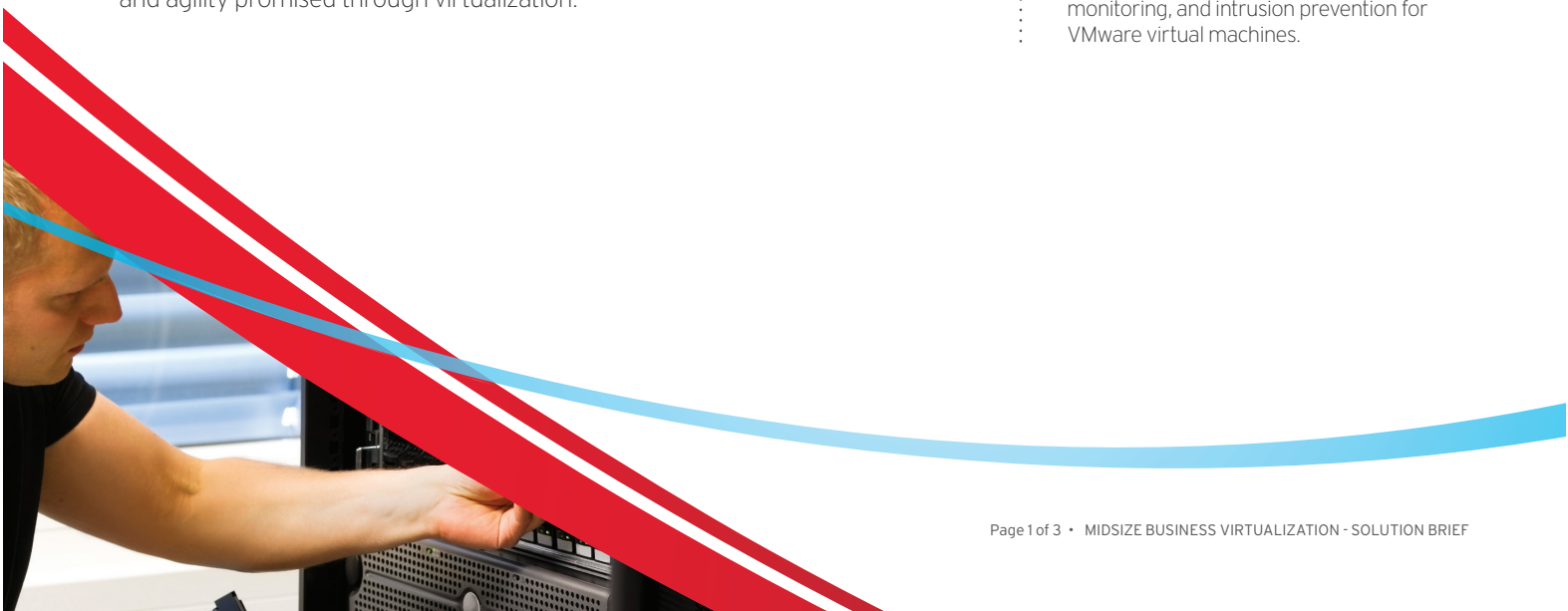
## SIMPLIFYING VIRTUALIZATION MANAGEMENT WITH VSPHERE WITH OPERATIONS MANAGEMENT

As vSphere environments continue to grow, users need proactive management that can deliver monitoring, performance, and capacity information at a glance. This new solution enables users to gain operational insight into a vSphere environment while optimizing capacity. This detailed analysis enables midsized organizations to get the most out of the virtualization platform by reclaiming used capacity, rightsizing virtual machines, improving utilization, and helping to increase consolidation ratios.

vSphere with Operations Management gives midsized organizations the ability to:

- gain comprehensive visibility into the health, risk, and efficiency of their infrastructure and applications
- spot potential performance bottlenecks early on and remediate before end users notice
- right-size and reclaim over-provisioned capacity to increase consolidation ratios and ROI

For performance and capacity optimization of virtualized environments, vSphere with Operations Management combines vSphere with vCenter Operations Management Standard Edition.

## SIMPLIFIED SECURITY WITH TREND MICRO DEEP SECURITY

With Deep Security, midsized businesses gain an easy-to-use, advanced, virtualization security solution that optimizes the performance and availability of business applications while protecting their VMware environment from sophisticated threats.

Deep Security combines multiple, tightly integrated modules including anti-malware, web reputation, integrity monitoring, and intrusion prevention to prevent data breaches. This enables advanced server security, application security, and data security across virtual machines (VMs).

Although it can be deployed in the form of an integrated agent, Deep Security is an agentless security solution that allows a single virtual appliance to secure the entire virtualized host without in-guest security agents. This flexible, agentless deployment simplifies security operations while consuming fewer system resources and supporting higher virtual machines densities.

With Deep Security, midsized businesses gain:

- comprehensive virtualization security with multilayered protection – with four modules that protect the entire virtual environment
- orders-of-magnitude better manageability due to the single virtual appliance rather than up to hundreds of in-guest agents to provision, maintain, patch and update with patterns
- improved business continuity through mitigation of application outages from infections, prevention of antivirus storms, virtual patching to shield vulnerabilities from exploits and prevent unplanned downtime from emergency patching
- a lighter, more manageable way to secure VMs that delivers more efficient resource utilization and higher VM densities than traditional agent-based solutions

The Deep Security agentless architecture has been market tested in thousands of real-world customer deployments including large enterprises and midsized businesses. All customers cite strong improvements in security and manageability. Customers have been able to achieve breakthrough VM densities of about 300 VMs/host, up to 7 times higher than what was previously possible with an agent-based security product.

Deep Security is now available in an Acceleration Kit that includes software and remote deployment services designed for midsized businesses.

## KEY BENEFITS FOR MIDSIZED BUSINESSES

This joint solution protects virtualized datacenters and desktops from the latest threats, while delivering:

Comprehensive virtualization security

- Multilayered, real-time protection against sophisticated, data-stealing threats without gaps in securing the fast-changing virtual environment.
- Broader security coverage of the virtual environment including monitoring for unauthorized changes to both virtual machine and hypervisor files.

Easier operational manageability

- Shifts teams from reactive to proactive mode by collecting and analyzing performance data, correlating abnormalities, and identifying problems before they impact the business.
- Simplifies security management—by orders of magnitude—by eliminating security agents and the need to configure and update each one.

Improved business continuity

- Supports even the most resource-intensive applications to guarantee SLAs and availability. Reduces downtime of virtualized infrastructure by 36%.
- Prevents unplanned downtime from emergency patching by virtually patching (shielding) critical vulnerabilities from zero-day attacks, and multilayered defense mitigates application outage from infections.

Higher virtualization savings

- Makes it easier to manage and optimize capacity planning. Unused virtual machines can be reclaimed, and under-provisioned virtual machines can be right sized, improving capacity utilization by 40 percent.
- Agentless architecture delivers significantly more efficient resource utilization and up to 7 times higher VM densities than legacy agent-based security products.

## SOLUTION COMPONENTS

Trend Micro and VMware security and operations management solution bundle consists of these components:

- VMware vSphere with Operations Management (comes in Standard, Enterprise, or Enterprise Plus editions)
  - vSphere with Operations Management Standard Edition: server consolidation and no planned downtime with proactive operations management
  - vSphere with Operations Management Enterprise Edition: powerful and efficient resource management with proactive operations management
  - vSphere with Operations Management Enterprise Plus Edition: policy-based datacenter automation with proactive operations management
- Trend Micro Deep Security Acceleration Kit (comes in Advanced and Premier editions)
  - Acceleration Kit Advanced: Comprises anti-malware, web reputation and integrity monitoring plus remote deployment services
  - Acceleration Kit Premier: Comprises Acceleration Kit Advanced plus virtual patching (provided by Deep Security intrusion prevention module)

## SECURITY PARTNER

Trend Micro is a leading VMware security partner. Trend Micro Deep Security is the first VMware security partner to:

- integrate with vShield Endpoint and other vSphere APIs to deliver agentless antimalware, web reputation, integrity monitoring, and intrusion prevention in one virtual appliance
- integrate with VMware vCloud Director for integrated cloud security
- offer deployment services (included with the Deep Security Acceleration Kit) to get midsized businesses up and running quickly
- receive the Technology Alliance Partner of the Year award from VMware

## FIND OUT MORE FROM VMware OR TREND MICRO:

**VMware:**
http://www.vmware.com/products/
datacenter-virtualization/vsphere/
compare-editions.html

**Trend Micro:**
http://www.trendmicro.com/
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