

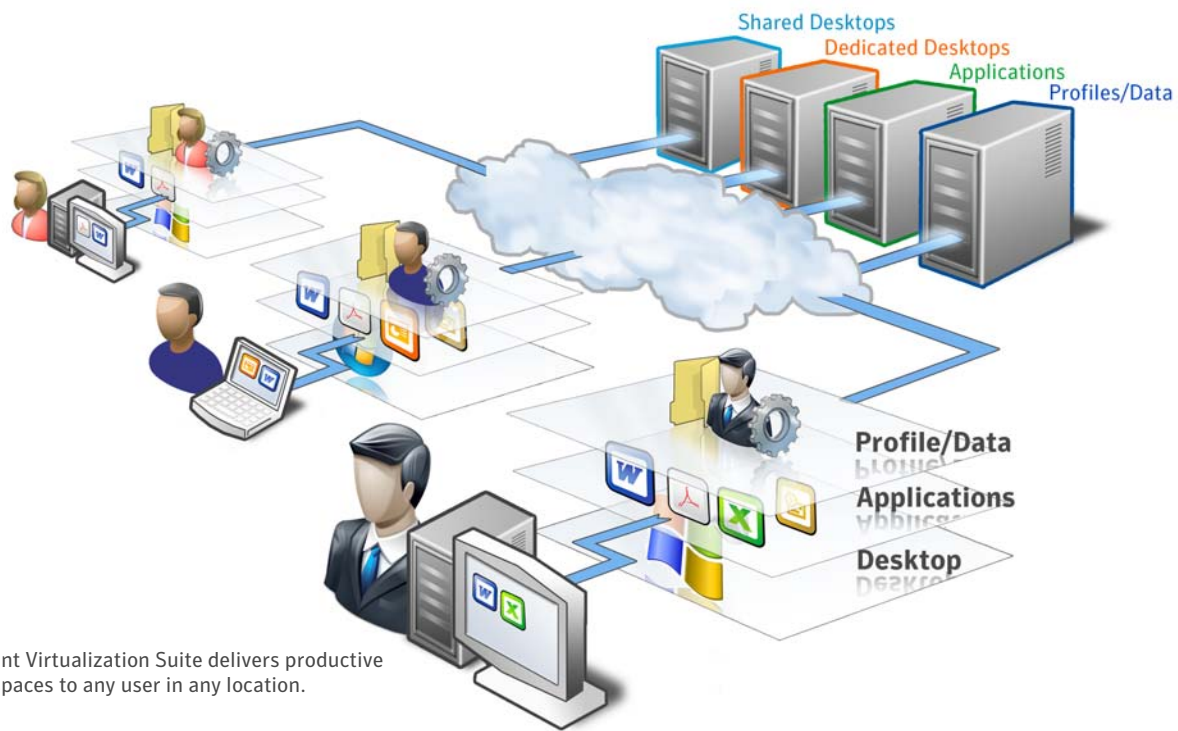
# Symantec Endpoint Virtualization Suite

## Dynamic Workspace Optimization

### Overview

Symantec Endpoint Virtualization Suite is a powerful and flexible solution with a focus on user productivity, regardless of equipment, connectivity or location. Most computing environments today are heterogeneous and complex to manage. Symantec Endpoint Virtualization Suite consolidates and simplifies endpoint management while enhancing the end user experience.

End users are the key to creating value for any business, and Symantec's Endpoint Virtualization solutions insure that users in all roles have the most productive workspaces (desktop, applications and information) available to them at all times. Multiple configurations and computing models are generally deployed across an organization, according to the needs of the users. Desktops and laptops, rich clients and thin clients, physical desktops and virtual desktops, shared systems and dedicated systems each have their place in today's enterprise. With all of this disparity, manageability has become the next big challenge for IT to grapple with. Symantec Endpoint Virtualization Suite turns this challenge into an opportunity with dynamic desktops and application provisioning, application conflict elimination, and proactive license compliance and optimization.



Symantec Endpoint Virtualization Suite delivers productive and robust workspaces to any user in any location.

### Endpoint Virtualization Suite Means Better Manageability

Virtualization enables the separation of key desktop elements for better manageability and instant desktop configuration that is based on the user who logs in and their role in the organization. Symantec Endpoint Virtualization Suite leverages three distinct virtualization technologies and a rules-based approach to proactive management to provide the best on-demand environment for the user and save time and effort for IT managers:

- **Virtual Workspace** — Workspace optimization provides centralized management of shared and dedicated desktop environments and delivers these securely and instantly to any device, for both corporate and remote users.
- **Virtual Distribution** — Streaming allows the user to acquire applications from any endpoint, according to his productivity needs, while minimizing bandwidth requirements and optimizing license consumption.
- **Virtual Execution** — Layering applications on disk ensures that each application includes all of its appropriate resources, eliminates conflicts with other applications and the base operating system, and enables instant repair.
- **Rule-based Management** — Automated system and resource management are achieved by applying a set of rules to govern user access to workspace resources across all access points, and by managing the complete lifecycle of resources.

## Symantec Workspace Corporate/Remote

Symantec Workspace Corporate provides a powerful set of tools to manage centralized computing environments whether Terminal Servers, Virtually Hosted Desktops, Blades or a combination. Symantec Workspace Remote provides a feature rich and easily deployed browser-based client for the Symantec Workspace Corporate architecture. Symantec Workspace Corporate provides IT staff with a streamlined, automated and cost-effective way to deploy and support computing resources and users, while facilitating the customer's ability to comply with regulatory requirements for privacy and reporting. Local and remote users get the resources they need, whenever and wherever they need them. Their workspace follows them, and can be accessed from virtually any device.

### Desktop Connection Broker

Deliver either the host OS desktop or a custom desktop within the user's designated workspace. The custom desktop allows application allocation and standardization amongst different user groups, providing a consistent user experience and control of application licensing. Leverages and simplifies management across existing desktop infrastructures, such as those from VMware, Microsoft and Citrix. Connections supported over RDP, ICA, PCoIP, and others.

### Single Sign On

Streamlines and speeds the process by which users sign on to applications. Rather than having to enter user names and passwords for every application they access, they need only sign into the system, using password, proximity sensor, biometrics, or RFID. Users are instantly delivered to their workspace and can even be brought to unique landing spots deep within the layers of applications.

### Secure Shell

Lock down the workspace and provide the proper level of user access and data security by simplifying the desktop and presenting only those applications and elements needed to perform their jobs. The Secure Shell also provides the ability to provision a full workspace with locally installed, streamed and remote computing applications seamlessly presented to users.

### Fast User Switching (Kiosk)

Kiosk mode lets unlimited numbers of people use the same device in rapid succession, and instantly get their own workspace each time. It enables protocols, desktop types and applications that are tailored to particular users to run off the same device.

### Roaming Printing

As users roam from device to device, Workspace Corporate can direct them to assigned printers based on geographic area, eliminating the hassle of tracking down printers.

### Remote Access

Symantec Workspace Remote supports users inside and outside of the corporate firewall by presenting their desktop in a browser. It gives mobile users easy access to their dedicated workspace resources via an RDP, ICA or other common protocols.



Symantec Workspace Corporate provides centralized management for all types of workspaces

### Symantec Workspace Streaming

Symantec Workspace Streaming is an on-demand application distribution and license management solution that provides an optimal solution to serve the application management needs of enterprise environments, providing high productivity with controlled, guaranteed access to any Windows based applications from any location at any time, including remote and mobile users.

#### On-demand Application Streaming

Simplify OS image management by reducing the number and size of images. The solution enables dynamic configuration of workspaces based on the role of the user, providing instantaneous access to applications and minimizing network bandwidth.

#### User-based Provisioning

New applications, which users can access from any Windows desktop, are instantly available to provisioned users without IT intervention. "Charge backs" can be automatically assessed to each department based on application usage.

#### Direct MSI Streaming

Completely avoid repackaging and retain all install time logic for existing application packages. Organizations can continue to leverage their existing MSI investments and choose to deliver MSI packages as-is or virtualized, on the fly with a single click.

#### Dynamic License Management

Proactively insure license compliance by avoiding over-deployment and optimize software costs by re-harvesting licenses when they expire or after a period of disuse. The solution allows organizations to automatically audit license deployment and compliance history. Frequent and power users have continuous access to the applications they need.

#### Single-click Application Upgrades

You can upgrade and patch applications quickly and painlessly, which allows you to roll back applications to the previous version if required. Application upgrade cycles can be reduced from days to minutes. Users always have the correct version of the application, regardless of their schedules, availability or location.

#### Disconnected Usage Capability

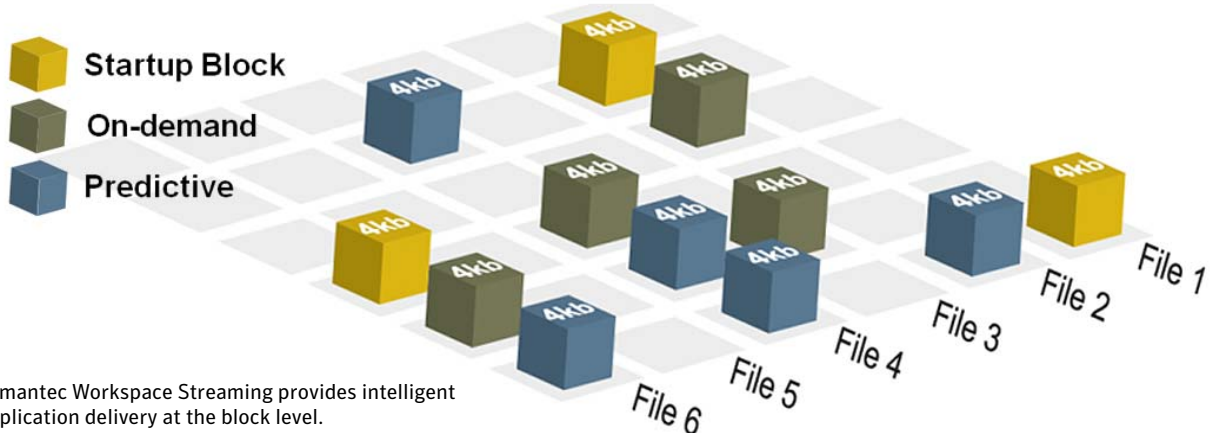
Streamed applications execute locally so laptop and remote users, if allowed, can disconnect from the network and have full use of applications, just as if they were conventionally installed.

#### Global Scalability

Scale effortlessly across multiple geographic locations and tens of thousands of users. The solution allows you to provide highly reliable access to applications in any location and supports high availability and multiple failover and disaster recovery mechanisms.

#### Track and Manage Conventionally Installed Applications

Leverage full dynamic license management capabilities to all applications and enforce access to selected applications only. You can also discover and account for "hidden" application installs and licenses.



Symantec Workspace Streaming provides intelligent application delivery at the block level.

### Symantec Workspace Virtualization

Symantec Workspace Virtualization virtualizes applications and data in workspace environments, decoupling them from the OS and eliminating OS decay over time. Virtualized, or “layered”, applications eliminate conflicts between each other and the base OS, reducing testing requirements, easing version migration, and providing instant reset for broken applications.

#### *Normal Visibility by Default – Isolation as Needed*

Virtualized applications work just like normally installed applications, without introducing performance overhead. Patented filter driver technology enables virtual layers in a way that is transparent to the base operating system and other applications, so icons, shortcuts, context menus, and copy/paste functions just work. Common problems, such as .DLL version conflicts, are eliminated without modifying the operating system and without interfering with other applications. Isolation tools easily cordon off layers from each other or the base if isolation is necessary for proper function, as with multiple versions of Java.

#### *Endpoint Management Integration*

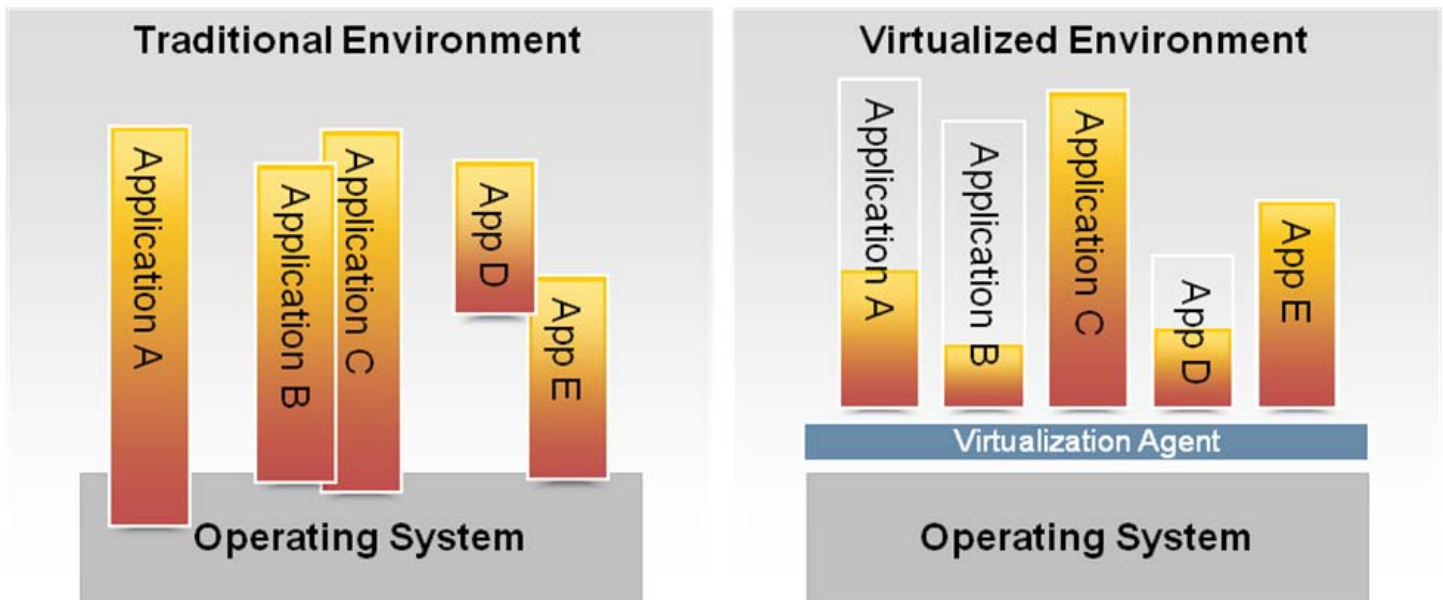
Workspace Virtualization is a standard component of Symantec’s Client Management Suite (CMS), Total Management Suite (TMS), Symantec Workspace Streaming (SWS), Software Management Solution, and other products, providing IT Managers the ability to offer enhanced support and service levels with less user disruption. For example, SWV is unique in delivering standard application .MSIs as a virtual layer with zero repackaging efforts. With published interfaces, SWV works great with software management solutions from other vendors such as Microsoft, BMC, HP, Avocent, Novell, and others.

#### *Significantly Accelerate Application Lifecycle Steps*

Workspace Virtualization simplifies pre-deployment testing, accelerates the delivery cycle, and reduces post-delivery support costs. You can host multiple versions of an application on the same system without conflicts, and virtual patching allows small deployments to update applications. Even phased rollouts are greatly accelerated because rollback can occur immediately.

#### *Increase flexibility & Regain Control*

The tight coupling between applications, data, and Oses, restrict management options. By virtualizing applications and data, SWV breaks the bond between each layer, allowing IT to manage each layer separately. Users can pick hardware and applications while still locking down the OS.



Streamed and virtualized applications are more easily managed and better protect the base system

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