

# Symantec™ Workspace Streaming 6.1

## Workspace Management: Simplify IT Organizations

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### Overview

As IT organizations today face the reality of managing an increasingly complex mix of desktops, laptops, and mobile devices, more efficient ways to deliver and provision essential applications have become critical to ensuring cost-effective management. Symantec™ Workspace Streaming (SWS) is designed specifically for this purpose, and actually enhances users' ability to be productive, while supporting the trend toward increased flexibility and mobility. SWS utilizes your existing infrastructure and software investment to deliver applications to all devices – laptops, desktops, VDI, Terminal Services, and Citrix – on-demand, anywhere, at any time. SWS simplifies application usability, reduces application license costs, and improves IT management efficiency with a cost-effective centralized management system.

- **On-demand Application Distribution** — 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 instant access to applications without IT intervention while minimizing network bandwidth.
- **User-Based Provisioning** — New applications, which provisioned users can access from any Windows desktop, are instantly available without IT intervention. “Chargebacks” can be automatically assessed to each department based on application usage.
- **Dynamic License Management** — Ensure license compliance, simplify software deployment, optimize software costs, and avoid over-deployment by only delivering what is needed and re-harvesting licenses when they expire or after an idle period. The solution offers policy-driven controlled access to any Windows application from any location.
- **Un-managed Computers** — Extend application management beyond your enterprise boundaries. Deliver applications securely to un-managed computers via the public internet.
- **Physical and Virtual** — Utilize a single set of application packages and a single process across traditional desktops & laptops as well as server hosted computing environment like Virtual desktops and Terminal Services.
- **Easy Integration** — Streaming can be easily integrated with enterprise workflows and other systems, such as CMDB, Asset and Helpdesk, with an open, standards-based Webservices API.

### SWS also allows applications to be virtualized, enabling organizations to:

- Ease Windows 7 migration
- Eliminate application incompatibilities
- Reduce helpdesk calls
- Reset broken applications instantly

### What's New in 6.1 SP6

The new Symantec Workspace Streaming features offer greater flexibility, improved performance and require fewer resources.

- Simplified Packaging
  - New “XPF” package format
  - Single package for streaming and virtualization
  - Wizards for every package
  - Packaging Templates – share packaging know-how
- Scalability
  - Streaming from a network share – simplified scalability
  - Location-aware streaming – stream from the nearest server
- Security
  - Kerberos authentication
  - Enhanced security with server “Whitelisting/Blacklisting”
- Platform support
  - Windows 7
  - 64 bit support - agent
  - Windows 2008 R2 - server
- Performance
  - Faster streaming – Up to 3 times faster
  - 25% more sessions on each server
  - Reduced Storage - 50% reduction per session
  - Memory usage – 20% reduction per session

### License Management

Symantec Workspace Streaming provides businesses total control of their application costs, with a web-based, centralized view of application usage data across their extended network, including up-to-date statistics on the number and location of application licenses installed and usage statistics, such as time and frequency of use.

License allocation management and compliance features include:

- Manage all popular license types - user, node, and concurrent
- Automatically re-harvest licenses based on idle time.
- Identify frequently-utilized and under-utilized applications.
- Provide an aggregated, global view of usage levels across the enterprise.
- Track application usage and licenses on a per-user and per-machine basis, including applications with conventional licenses.
- View comprehensive and clear reporting tools that provide text-based views, graphical views, and predefined reports.
- Allow administrators to pre-deploy, de-provision, and re-provision applications as desired; flexible delivery options such as USB or CD are supported.
- Remove an idle application package from a client cache after a pre-defined period of disuse.
- Monitor and enforce license compliance for offline applications.
- Automatic notification to the administrator upon reaching a predefined threshold of license utilization.

### Disaster Recovery With Streaming

An effective disaster recovery (DR) strategy should cover every aspect of IT – data, servers, and client-side applications. However, client-side applications are frequently overlooked. In the unfortunate event of a disaster, providing employees quick access to applications and their workspace is critical for business continuity. The success of a DR strategy hinges on its flexibility and adaptability. Which devices can employees use? Where can they securely access and run client-side applications? How is version control managed? How is it ensured that users only get the applications they are authorized to use?

SWS enables IT to implement optimal disaster recovery strategies for maximum flexibility. This allows employees to utilize readily-available devices – including their home computers – and securely run their applications via any public Internet access point. To further reduce costs, a single centralized repository of applications can be maintained, that is continuously and automatically synchronized with production systems. This eliminates manual duplication of efforts in updating and patching applications in multiple locations. Also, by not pre-installing applications to client machines at multiple DR locations, licensing costs are considerably reduced.

### Heterogeneous Environment – Uniform Process

Enterprise computing environments are rapidly changing. Along with traditional user devices like desktops laptops and Terminal Services, new solutions like server hosted virtual desktops are increasingly being deployed. Also, there is a trend towards greater workforce mobility (work from home) and end-user empowerment, such as, bring your own computer initiatives. The result is an exponential increase in complexity and cost of delivering and managing applications.

SWS allows IT to utilize a common set of uniform processes to deliver applications across all these environments. An application packaged once, can be delivered and managed to these myriad devices through a single unified process. Symantec Workspace Streaming can also be a useful upgrade to complement delivery and license-management capabilities, such as:

- MSPs – on-demand application portal
- ISVs – Software as a Service (SaaS) infrastructure
- Mobile, contract, and remote workforce application delivery

### How Streaming Works

Symantec Workspace Streaming divides applications into small pieces called streamlets. When an application is first requested by a client, the streaming server first delivers the minimum number of streamlets required to launch the application. The process by which the client gets the streamlets from the Streaming Server is called streaming. In most cases, the Streaming Server streams about 10 percent of the application. As the client submits requests for more functionality, the request includes usage statistics for the server to analyze. The server sends streamlets both on demand and based on prior user behavior. This process is transparent to the user. The application functions identically to a fully-installed product. (See Figure 1)

## SWS - Streaming Architecture

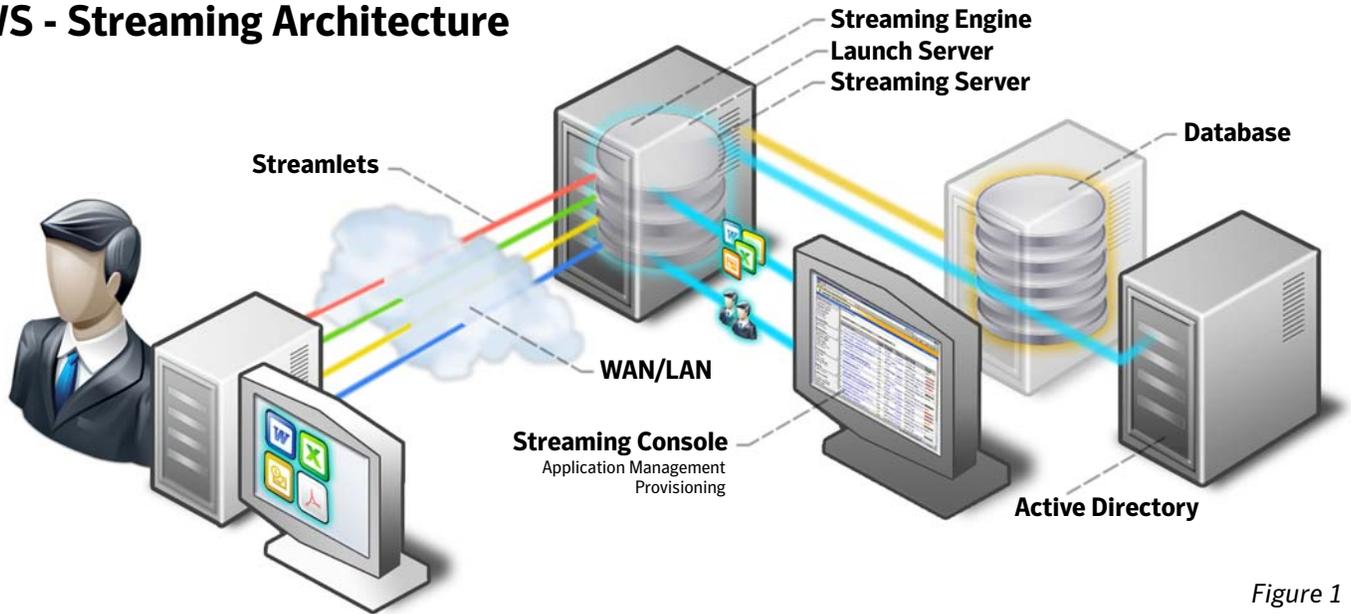


Figure 1

### System Requirements

*Note: Wise Virtual Composer and SVS Admin console are included with Symantec Workspace Streaming.*

#### Endpoint operating systems

- SWS Streaming Agent
- Windows 7: 64-bit and 32-bit
- Windows Vista and Windows Vista SP1: 64-bit and 32-bit
- Windows XP SP2 or SP3: 32-bit  
(If using SP2, Workspace Streaming requires the filter manager roll-up hotfix:  
<http://support.microsoft.com/kb/914882>. SP3 is required when using a non-English-language XP operating system)
- Windows Server 2008 and 2003 SP1 or later: 64-bit and 32-bit

#### Streaming server

- Windows 2008 64-bit and 32-bit editions
- Windows 2003 SP2 or later 64-bit and 32-bit editions
- System Processor: Minimum 1GHz
- System Memory: 2 GB minimum, 4 GB or more recommended
- Free Disk Space: 2 GB, plus two times the space required by the applications to be uploaded on to the server

#### Streaming databases

- Microsoft SQL Server 2005 SP3 or later
- Oracle 10g and 11i
- PostgreSQL when installed by Workspace Streaming
- Directory
  - MS Active Directory
  - Novell eDirectory

#### Wise Virtual Composer

- Windows 7
- Windows Vista and Windows Vista SP1
- Windows XP SP2 or SP3
- System Memory: 1 GB minimum, additional as recommended by the applications you want to package
- Free Disk Space: 30 MB, plus two times the space required by the applications to be uploaded on to the server

### *Contact Us Today*

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### *About Symantec*

Symantec is a global leader in providing security, storage, and systems management solutions to help businesses and consumers secure and manage their information. Headquartered in Mountain View, Calif., Symantec has operations in more than 40 countries.

More information is available at [www.symantec.com](http://www.symantec.com).

### *Symantec World Headquarters*

350 Ellis Street.

Mountain View, CA 94043 USA

+1 650-527-8000

1 (800) 721 3934

[www.symantec.com](http://www.symantec.com)

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