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SOLUTION OVERVIEW

VIRTUAL ACCESS SUITE

The Only Enterprise-Grade Desktop Deployment & Application Delivery Platform – Enabling Server-Hosted Desktop & Presentation Virtualization

The Enterprise Edition of the Virtual Access Suite™ (VAS) from Provision Networks is the only end-to-end platform for Windows® application delivery and desktop deployment – reducing the cost and complexity of application and desktop lifecycle management in today's distributed enterprise.

REDEFINING DESKTOP MANAGEMENT

The corporate desktop is an integral part of the enterprise IT infrastructure, and has rapidly become the essential platform for user productivity and business agility in the modern enterprise. As distributed endpoints, desktops are the hardest IT assets to manage, secure and maintain. The Virtual Access Suite transforms the fleeting promise of effective enterprise desktop management into reality, by providing the enabling technology to automate the provisioning, management, and access control of a virtual desktop infrastructure and corporate applications from a centrally-controlled data center environment.

By centralizing the application delivery and desktop deployment from the data center, organizations can control, retain, and safeguard intellectual property, meet regulatory compliance, and enforce security objectives, while laying the infrastructure foundation for intrinsic fault tolerance and comprehensive disaster recovery.

LOWERING THE TOTAL COST OF OWNERSHIP

The relatively low cost of PC hardware is often more than offset by the high cost of PC management and support. Ongoing management including deployment of applications, new operating systems, updates and patches can be labor-intensive and time consuming because of the need to test and validate deployments for a wide variety of PC configurations. The need for support personnel to troubleshoot issues in person and on-site raise support costs dramatically.

The Virtual Access Suite enables desktop and application virtualization, presented to users securely from the data center. This ensures the highest levels of availability and user productivity. Only mouse movements, keystrokes and screen updates traverse the network, ensuring application responsiveness and "eyes-only" security – enhanced with an integrated single sign-on and SSL VPN gateway.

The Virtual Access Suite Enables Business Agility in a Dynamic World. That is why the world's leading companies entrust Provision Networks to deliver the most compelling and strategic offerings for their internal and external customers.

"HP's leadership in virtualization solutions is further advanced through our relationship with Provision Networks. The combination of Provision Networks' Virtual Access Suite with our industry-leading ProLiant servers and portfolio of thin clients offers customers a comprehensive, robust solution to help optimize desktop infrastructure investments and address critical business needs."

Scott Farrand
Vice President, ISS Software
Hewlett-Packard

"Provision Networks is a perfect complement for IBM's VCS offering. With an enterprise feature-set, a comprehensive integration framework, and an unmatched end-user experience, the Virtual Access Suite offers customers a best-in-class desktop virtualization solution."

Wendy McGee
Director
IBM System x Stack Solutions

"The Virtual Access Suite from Provision Networks has been an instrumental platform for virtualizing the school's desktop infrastructure and providing anywhere anytime availability, centralized administration, and reduced complexity through simplified image management."

Douglas Stone
IT Director
International School of Brussels

"Provision Networks' virtualization solution has afforded us better availability, manageability, agility and security."

Anthony Escarpenter
Director of IT Infrastructure & Security
Brightstar Corp.

"We have relied exclusively on Provision Networks to virtualize our desktop infrastructure and application delivery."

Jeff Brown
Telecom Manager
Investools

"We can now deliver new applications to hundreds of users in minutes not weeks."

David Herr
Director of IT
Asbury Services

"Provision Networks has allowed us to centralize our application access and management infrastructure, and has drastically reduced on-going desktop support costs."

Aaron Zimmerman
IT Director
Anderson Union High School District

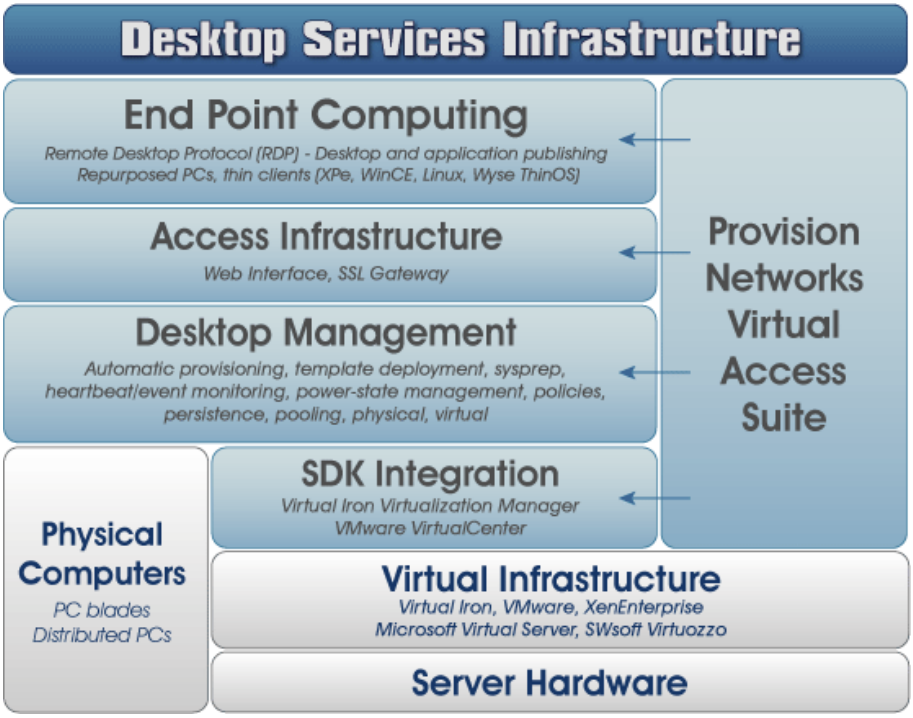
The traditional PC as the corporate full-featured "thick client" has been the ubiquitous workhorse of desktop computing. For many use case scenarios, it has offered the best available compromise between price on one hand and performance and capabilities on the other. However, for most use case scenarios, full-featured PCs on the physical desktop are less than ideal. Among those challenges:

- **Desktop Management:** Centralizing desktop management is an extremely difficult task in the face of a broadly distributed computing environment and the corporate workforce. Furthermore, desktops are notoriously difficult to standardize because of the variety of PC hardware and users' needs to modify desktop environments.
- **Data Security:** Ensuring that data on PCs is successfully backed up and can be restored when PCs fail or files are lost is a significant challenge. Even when data is successfully backed up, the risk of PC theft threatens the security of important data.
- **Low Resource Utilization:** The distributed nature of PCs makes it difficult to pool resources to improve utilization and reduce costs. As a result, PCs are often less than five percent utilized, remote offices require duplicate desktop infrastructures, and remote desktop solutions may be required for mobile workers.

Because of these challenges, organizations worldwide have evaluated and implemented alternatives to thick clients, such as our acclaimed server-based computing solution, an enterprise extension for Microsoft's Terminal Server platform. This presentation virtualization platform meets the needs of several ancillary applications and use cases, but does not adequately address the needs of the widespread enterprise task, knowledge and power users.

A newer and emerging trend is the ability to host complete desktop images on server systems to enable them to centralize resources, improve desktop management, while providing a secure access and application delivery mechanism. This is the Virtual Desktop Infrastructure (VDI), whereby the entire desktop environment, including operating systems, applications and configurations, reside in virtual machines (VMs) running on servers virtualized by virtual infrastructure software, such as VMware VI3, Virtual Iron, XenSource and Microsoft Virtual Server.

The Virtual Access Suite – Desktop Services Edition, available as a standalone solution or component of the VAS Enterprise Edition delivers the most comprehensive desktop brokering, management, access and security solution, supporting the world's leading virtual infrastructure platforms and blade PC implementations, to meet the needs of task, knowledge and power users alike.



VIRTUAL ACCESS SUITE – Unique Features and Benefits

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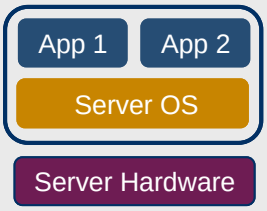
REDUCE THE COST AND COMPLEXITY OF APPLICATION AND DESKTOP LIFECYCLE MANAGEMENT	ENTERPRISE EDITION	DESKTOP SERVICES EDITION
Application, Desktop and Content Publishing – Provides users with the familiar experience of local computing, and enables them to operate from any location or device over any network. Full desktops, individual applications, and contents such as URLs can be published, making the management of a desktop infrastructure as easy and intuitive as that of a Windows Terminal Server farm.	•	•
Seamless Windows, Session Sharing, Desktop Integration – Published applications can be launched seamlessly, looking and feeling as if executing locally on the user's local desktop. Session-sharing enables multiple applications to execute within the same session. Desktop integration places published application icons directly on the user's local desktop and Start menu.	•	•
Web Interface and SharePoint Integration – Remote applications can be published to the client's Web browser, providing a secure and ubiquitous access portal to authorized users.	•	•
SSL Gateway – Access to published desktops and applications is secured using a built-in Secure Sockets Layer (SSL) VPN Gateway, making firewall and proxy server traversal completely seamless.	•	•
Universal Print Driver – Delivers robust, driver-independent printing regardless of printer make and model. Uses an adaptive universal print driver that inherits the native print driver's features and capabilities to produce optimized print streams.	•	•
USB Handheld Device Redirection – Enables users to seamlessly redirect their local USB-connected Palm, BlackBerry and PocketPC handhelds to their hosted sessions.	•	•
Multi-Monitor and Expanded Screen Resolutions – Multiple monitors are supported through the RDP session and can be stacked vertically or horizontally in either left to right or right to left scenarios.	•	•
Single Sign-On and Multi-Factor Authentication – Support for credentials pass-through and Kerberos authentication delivers a seamless single sign-on experience, while integration with smart card and two-factor authentication (RSA SecurID and Secure Computing tokens) solutions increases overall reliability and security.	•	•
Heterogeneous Client Support – Support for Windows XP, Vista, Windows-Based Terminals (WBT), Linux workstations and Linux-based thin clients, and Wyse ThinOS clients.	•	•
User Profile Acceleration – Accelerates logon and logoff times, and achieves unprecedented profile stability levels by combining the persistence benefits of roaming profiles with the speed and robustness of mandatory profiles.	• Terminal Services only	In Progress
Workspace Configuration and Lockdown – Automates time-consuming configuration tasks, including the ability to dynamically create Desktop and Start Menu program shortcuts, configure background and color settings, connect to shared network folders and printers, execute scripts, configure user registry settings and environment variables, and lock down the user's workspace using standard Explorer shell policies.	• Terminal Services only	In Progress
Application and Host Access Control – An access control engine enables administrators to grant or deny access to program executables on a day-and-time basis, as well as access to TCP/IP hosts and network application servers from front-end programs such as Internet Explorer and others.	• Terminal Services only	In Progress
Advanced Session Brokering and Load Balancing – Terminal Servers and published applications can be load-balanced based on a wealth of performance metrics including CPU utilization, available memory, context switching, interrupt rate and number of active sessions.	• Terminal Services only	
Performance Management and Optimization – Improves response times and increases overall server capacity by ensuring that users and programs receive their rightful share of CPU cycles, and by drastically reducing or eliminating the wasteful use of virtual memory.	• Terminal Services only	
Application Compatibility Enhancements – Eliminates multi-user application conflicts arising from software design limitations by using a sophisticated registry and file system isolation engine.	• Terminal Services only	
Virtual IP Support – Enables the assignment of a distinct IP address from a pre-defined range to each Terminal Server session. Also supports client IP address passing and virtual loopback addresses.	• Terminal Services only	
Session-Based Time Zone Support – Allows administrators to specify a unique time zone by user name, group membership, OU, or client device.	• Terminal Services only	
Fault Tolerant, Highly Available Broker Infrastructure – An unlimited number of brokers may be present within the infrastructure to ensure scalability, high availability and fault tolerance. Virtual desktop connections are not tunneled through the brokers, thus eliminating single points of failure. A local database cache is created and updated on each broker to achieve unprecedented levels of performance and scalability.	• Desktop Services only	•
Integration with Multiple Hypervisors – Fully integrated with VMware VirtualCenter and Virtual Iron Virtualization Manager. Also supports XenEnterprise, SWsoft Virtuozzo and Microsoft Virtual Server.	• Desktop Services only	•

There are three distinct server-hosted virtual client computing models – each has its own best-fit use case. Provision Networks supports all three models with the Virtual Access Suite.

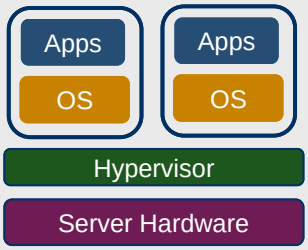
Presentation Virtualization (Terminal Services)



Best Use Case: Ancillary Users and Applications

- Shared Server OS and Applications
- No user customizations
- One user impacts all or many

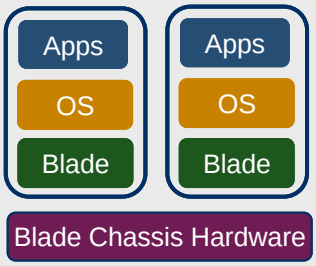
Shared Remote Desktops (VDI)



Best Use Case: Task and Knowledge Workers

- Standard desktop OS
- Fully isolated and secure
- User customizable

Dedicated Remote Desktops (Blade PCs)

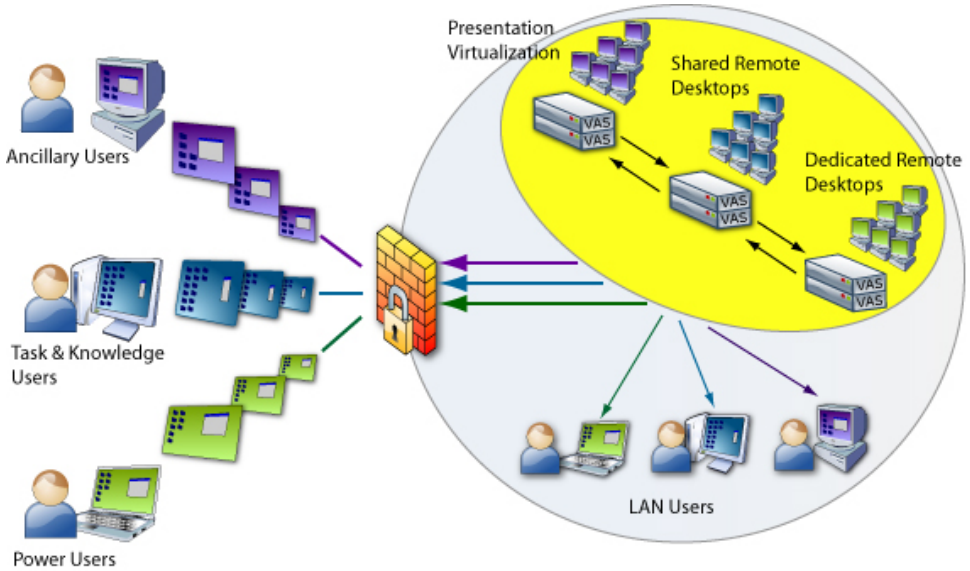


Best Use Case: Power Users

- Standard desktop OS
- Fully isolated and secure
- User customizable
- Consistent user experience

VAS – Unique Features and Benefits (continued)

REDUCE THE COST AND COMPLEXITY OF APPLICATION AND DESKTOP LIFECYCLE MANAGEMENT	ENTERPRISE EDITION	DESKTOP SERVICES EDITION
Virtual Machine Guest Support – Support for Windows XP, Windows Vista and Windows Server 2003 hosted guests.	• Desktop Services only	•
Fully Automated Virtual Desktop Provisioning – Virtual desktops can be provisioned on demand from existing golden images (templates). The guest Windows OS can be fully customized using a hands-free Sysprep process, and then put into production within minutes.	• Desktop Services only	•
Active Directory Integration – Virtual desktops can be automatically added to and removed from Active Directory upon VM creation and deletion, respectively. Access to published desktops, applications, and other resources such as printers and other configuration settings, is granted to Active Directory users, groups, and organizational units.	• Desktop Services only	•
Multiple Resource Pools and Datastores – Virtual desktops can be distributed across multiple resource pools and datastores. Administrators can manually specify the number of desktops to create per resource pool and datastore, or select from a number of available distribution schemes. For example, desktops can be distributed evenly across all datastores, or proportionally according to the available storage space on each datastore.	• Desktop Services only	•
Guest Windows OS Customization – A full-featured Sysprep customization wizard enables administrators to customize all aspects of the Windows guest OS. A custom Sysprep editor also makes it possible to manually customize sysprep.inf.	• Desktop Services only	•
Integrated Power Management Capabilities – By directly integrating with VMware VirtualCenter and Virtual Iron Virtualization Manager, virtual desktops can be powered off, powered on, suspended, and resumed. To conserve resources, a power management policy can be enabled to automatically suspend inactive desktops. Upon logon, powered-off or suspended desktops are automatically powered on or resumed in seconds.	• Desktop Services only	•
Real-Time Desktop Usage Reporting – As users connect to and disconnect from their desktops, event and status information is reported to the Connection Broker, and instantly updated in the database and the Management Console.	• Desktop Services only	•
Virtual Channel Policies – Client device redirection can be enabled by user, group, and organizational unit. Client devices include drives, printers, serial and parallel ports, USB-connected PDAs, clipboard, and sound.	• Desktop Services only	•
Desktop State Control – Active desktops can be logged off or reset. The guest OS can also be shut down or restarted.	• Desktop Services only	•
Remote Control – Active desktops can be remote-controlled (shadowed) for technical assistance purposes.	• Desktop Services only	•
Policy-Driven Desktop Configuration – Managed desktops, virtual or physical, are logically grouped and managed like Terminal Server silos. Policies are configured at the desktop group level to specify desktop assignment type (i.e., permanent or temporary), access timetable, user privilege elevation, suspend-on-logoff, and various other settings. Group-level policies can be overridden by individual desktop.	• Desktop Services only	•



The Provision Networks Virtual Access Suite is the platform of choice for thousands of enterprise customers in Government, Financial Services, Education, Manufacturing, Healthcare and many other industries.

WHY NOT MAKE THE SMART MOVE TO THE PROVISION NETWORKS VIRTUAL ACCESS SUITE?

Empower you enterprise with business agility, unprecedented user productivity and unparalleled availability of Windows applications and desktops. ANYWHERE. ANYTIME.

LEARN HOW PROVISION NETWORKS CAN HELP YOU TODAY.

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About Provision Networks

Provision Networks is a global provider of presentation and desktop virtualization solutions. Provision Networks solutions embrace and extend the Microsoft Terminal Services platform and Virtualization Infrastructure platforms from VMware, Virtual Iron, XenSource, SWSoft, and Microsoft, delivering resilient, scalable and dynamic on-demand desktop deployment and application delivery for enterprises worldwide.

Provision Networks produces and markets three product suites through a global network of value-added resellers:

- Virtual Access Suite – Enterprise Edition
- Virtual Access Suite – Desktop Services Edition
- Virtual Access Suite – Standard Edition

With a world-class client list, comprised of some of the world's largest commercial enterprises and government organizations, Provision Networks is the most trusted name in presentation and desktop infrastructure virtualization.

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