

## Konect Elite™ ON

### MICROSOFT REMOTE DESKTOP SERVICES: FEATURE ANALYSIS

This document illustrates how desktopsites Konect Elite™ extends Microsoft Windows Server Remote Desktop Services Platform in order to provide greater scalability, an enhanced user experience, and simplified management of complex application and desktop delivery challenges.

#### Any Device, Anywhere

Konect Elite offers users can simply and securely access to their published resources regardless of location or device.

Category/ Feature	Description	Microsoft Windows Server 2003	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Konect Elite Standard	Konect Elite Enterprise
<b>Client Devices (Supported)</b>						
<b>Integrated Desktop Client</b>	Windows x86 Platforms Windows 7, Vista, Windows XP, Windows 2003, 2008, 2008 R2		✓ Web Browser	✓ (Windows 7)	✓	✓
<b>Thin Client Integrated Desktop Client</b>	Support RDP 6.1 and higher.				✓	✓
<b>Desktop Icon Integration</b>	Allows applications to appear in the start menu or on the local desktop providing a familiar application access experience for users.		Requires distribution of .msi packages	Requires Windows7 clients or MSE Distribution	✓	✓
<b>Automated Client Installation</b>	A wizard process walks the user through the process of automatically detecting the needed client software and then automatically installs the appropriate client software for the platform used.				✓	✓
<b>Auto-updating client</b>	When a users launches the Konect Elite client it will auto detect if a newer version of the client is available. If so, users can select OK to auto update Konect Elite client.				✓	✓
<b>Connection Broker</b>	Connection broker manages connections between clients and remote resources on the server. It supports load balancing and reconnection to existing sessions on virtual desktops, Remote Desktop sessions, and session-based applications.			✓	✓	✓
<b>Web Interface</b>	The client view of Web Interface uses standard HTML and is supported on most modern web browser using IE 6+ and higher.		✓	✓	✓	✓

#### High Definition User Experience

Virtualized desktops and applications deliver a high performance, high definition user experience from any device, on any network.

Category/ Feature	Description	Microsoft Windows Server 2003	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Konect Elite Standard	Konect Elite Enterprise
<b>TS Desktops &amp; Remote Apps</b>						
<b>Seamless Applications (RDS/TS)</b>	Enables applications running on Remote Desktop Services/Terminal Services (2003/2008/2008 R2) to look and feel as if they are running locally.				✓	✓
<b>Server Hosted Desktops (RDS/TS)</b>	Enables users access to a personal user based desktop with user specific application and data.				✓	✓
<b>Seamless Applications (RDS)</b>	Enables applications running on Remote Desktop Services to look and feel as if they are running locally.		✓	✓	✓	✓
<b>Support for Multiple Monitors</b>	Allows applications running on Remote Desktop Services to be displayed across multiple local monitors connected to the client workstation forming a single virtual display.	✓ Single video space spans multiple monitors	✓	✓	✓	✓

High Definition User Experience <i>Continued</i>						
TS Desktops and Remote Apps <i>Continued</i>						
<b>Support for Multiple Monitor aware applications</b>	Provide features that mimic the behavior of applications running locally in a multi-monitor environment.			✓	✓	✓
<b>Multiple Monitor Dynamic Display Configuration</b>	Multiple monitor array settings are reconfigured dynamically any time the client display environment changes.			✓	✓	✓
<b>Multiple Monitor Boundary Awareness</b>	Ensures applications respect multiple monitor boundaries (applications maximize to a single monitor, dialogs center properly, menus and tooltips are positioned so they do not span monitor boundaries, etc...			✓	✓	✓
<b>Audio Playback</b>	Supports audio playback on the client device for audio streams from the server session.		✓	✓	✓	✓
<b>Bi-Directional Audio Support</b>	Supports audio recording and playback on a client desktop. Bidirectional audio is a common requirement in medical and legal firms, and provides a foundation to support VoIP soft phones in the future.			✓	✓	✓
Single Sign-On						
<b>Roaming User Single Sign-On (LAN/WAN)</b>	For Windows clients connected to the company directory, the credentials used for local device logon are passed automatically to sessions running on Remote Desktop Services/Terminal Service both in and outside the workplace.				✓	✓
<b>Pass-Through Authentication (LAN)</b>	For Windows clients connected to the company directory, the credentials used for local device logon are passed automatically to sessions running on Remote Desktop Services. This simplifies and speeds up the users connection process.		Domain-joined clients only	Domain-joined clients only	✓	✓
<b>Basic Roaming User Support</b>	Allows a user to roam between devices and networks while maintaining the state of their server-based applications. User will be automatically connected to their applications with the display automatically re-configured when the user re-connects.	✓	✓	✓	✓	
Printer Management						
<b>Konect Elite Universal Printing (2003)</b>	Provides client-side printing support without requiring a printer driver to be installed on the server.				✓	✓
<b>TS Easy Print (2008)</b>	Provides client-side printing support without requiring a printer driver to be installed on the server. (3.5 .Net Required)		✓	✓	✓	✓
<b>Scanner Support</b>	Enables applications running on the server to access TWAIN scanners connected to the client device via the Konect Drive.				✓	✓
RDP Settings						
<b>Client Experience Configuration</b>	The client experience configuration page centralizes the client experience configuration into Server Manager; it is available when installing the RD Session Host role service by using Server Manager. The client experience configuration page allows you to configure the following functionality: audio and video playback redirection, audio recording redirection, desktop composition.				✓	✓

High Definition User Experience <a href="#">Continued</a>						
<b>Hardware Accelerators</b>						
<b>Hardware acceleration for DirectX/Direct3D</b>	DirectX and Direct3D apps configured for 32-bit or 16-bit color depth can leverage a graphics card (any card that is WDDM compatible) on the server thus improving single server scalability by offloading application rendering to the graphics cards as opposed to using CPU software rasterization.			✓	✓	✓
<b>Support for High Color</b>	Enables applications running on Remote Desktop Services to display in 24 or 32-bit color depth.	✓ 24-bit	✓ 32-bit	✓ 32-bit	✓ 32-bit	✓ 32-bit
<b>Session Continuity</b>						
<b>Disconnect or Close All Applications</b>	A single button on the web interface provides a means for the user to suspend or exit all running applications without having to perform this action in each individual application. This functionality works regardless of how many server sessions the user has established. This is especially useful for situations where the user wants to switch devices such as when leaving the office to go home.				✓	✓
<b>Session Sharing</b>	When a user requests a second application on the Remote Desktop Session Host, the application is launched in the existing user session. This allows the application to start up almost instantly (as opposed to creating a new session) and reduces memory and CPU consumption on the server.		✓	✓	✓	✓
<b>Automatic Reconnection</b>	Automatically re-connects to all disconnected sessions at logon. This provides an automated means of reconnecting to all disconnected applications without user interaction. This functionality works regardless of how many server sessions the user has established. Administrators and users can turn this feature off and also use manual reconnection which still provides a single-click interface for this functionality.			✓ Single server session	✓	✓
<b>Connection Resiliency</b>	Automatically reconnects user sessions when the network connection is temporarily lost.	✓	✓	✓	✓	✓
<b>Session Reconnect</b>	Allows users to reconnect to their Remote Desktop Services sessions without going through the time-consuming logon process again.	✓	✓	✓	✓	✓
<b>Roaming Profile</b>						
<b>Advanced Roaming User Profile Support</b>	SmoothRoaming™ using Konect Elite ensures that applications and data move with your users as they change locations, networks, or devices, so they can pick up exactly where they left off, without interruption.				✓	✓
<b>Advanced Profile Management</b>	Includes built-in profile management to make it easy for IT to provide a personalized, consistent experience for users every time they log on, regardless of endpoint devices or locations. Resolves “Last Write wins” issues across multiple simultaneous server sessions found in more complex environments.				✓	✓
<b>Desktop Composition</b>	Desktop composition provides users with the user interface elements of the Windows® Aero® desktop experience within their RD Session Host session.		Vista clients only	Windows 7 clients only	✓	✓

### Single Management Console

With Konect Elite, IT administration is simplified by being able to manage, publish, and provision user specific resources from a single management console.

Category/ Feature	Description	Microsoft Windows Server 2003	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Konect Elite Standard	Konect Elite Enterprise
<b>Integration</b>						
<b>Hyper-V</b>	Konect Elite's Hyper-V integration allows administrators to manage, provision, and publish VM's on a host .		Hyper-V Manager	Hyper-V Manager	✓ Sync (push/pull)	✓ Sync (push/pull)

Single Management Console <i>Continued</i>						
Integration <i>Continued</i>						
<b>SCVMM</b>	Konect <i>Elite's</i> SCVMM integration allows administrators to manage, provision, and publish VM on a host .		SCVMM Manager	SCVMM Manager		✓ Sync (push/pull)
<b>Terminal Server Manager</b>	Konect <i>Elite's</i> Terminal server Manager integration allows administrators advanced management and monitoring capabilities of users and user sessions.		Terminal Server Manager	Terminal Server Manager	✓ Integrated	✓ Integrated
<b>RDS Managers</b>	Konect <i>Elite</i> integrates the management of multiple RDS managers into a single management console simplifying IT administration significantly.		RDS/TS Managers	RDS/TS Managers	✓ Single Manager	✓ Single Manager
<b>Active Directory</b>	Konect <i>Elite</i> leverages Active Directory to authenticate and deliver server resources – such as applications, content, and server desktops – to hundreds of users from a single management console.		Active Directory Manager	Active Directory Manager	✓ Utilizes AD Manager	✓ Utilizes AD Manager
<b>Group Policy Management</b>	Konect <i>Elite</i> integrates Group Policy management, assignment and creation directly into a easy to use single management console allowing administrators the flexibility and agility to have granular control over user resources. resources using Group policy.		Group Policy Manager	Group Policy Manager	✓ Integrated	✓ Integrated
<b>Configurable Idle and Session Timeouts</b>	An idle timeout provides the ability to reclaim resources used by inactive user sessions without affecting the user's session or data. This helps free up resources on the server. A session timeout provides the capability to periodically enforce new policies on active user connections.			✓	✓	
<b>Policy-Based Control of Bandwidth Usage</b>	Administrators can configure overall session bandwidth limits and also specific limits for audio usage, printing, client storage devices, TWAIN devices, clipboard usage, COM/LPT ports, and OEM virtual channels.				✓	
<b>CPU Utilization Management</b>	In a shared, multi-user Remote Desktop Services environment, one users activities can adversely affect performance for other users. CPU management ensures that CPU-intensive processes initiated by one user do not degrade performance of other sessions. As a result, additional RD Session Hosts do not need to be maintained to assure good user performance.	✓ Requires Enterprise Edition	With WSRM	With WSRM	✓	
<b>Fair Share CPU Scheduling</b>	Fair Share CPU Scheduling dynamically distributes processor time across sessions based on the number of active sessions and load on those sessions by using the kernel-level scheduling mechanism included with Windows Server 2008 R2.			✓ Kernel Based	✓ Enterprise / Platinum Editions	
TS Desktops & Remote Apps - (Publishing)						
<b>Publishing Capabilities for both 2003 &amp; 2008/ 2008 R2 Servers</b>	Allows administrators to publish server based TS/RDS applications and desktops .		Single Server (2008 only)	Few Servers (2008 Only)	✓	✓
<b>Smart licensing publishing capabilities</b>	Provides a centralized mechanism for farm isolation when publishing applications to groups of servers in a 2003 or 2008 server family.				✓	✓
<b>Policy based Application Publishing for groups of servers</b>	Provides a centralized mechanism for publishing applications to groups of servers simply by adding or removing servers from a group.				✓	✓

Single Management Console <i>Continued</i>						
VM Desktops - (Publishing)						
<b>VM desktops</b>	Both personal and pooled VM desktops can be published to users.			✓	✓	✓
<b>VM Hosted Applications</b>	By leveraging Hyper-V desktop virtualization technologies and Konect <i>Elite's</i> application publishing, individual applications are hosted on a physical or virtual desktop OS, such as Windows 7, and delivered to the user as a published application over a remote presentation protocol.				✓	✓
<b>Virtual IP Address Support</b>	Applications that require a unique IP address for each application instance may not work properly in a Remote Desktop Services environment. Virtual IP address support allows an administrator to define a range of IP addresses so that each user session can have a unique IP address. This is especially useful for customer service applications that integrate into VoIP telephony systems. It is also useful when			✓	✓	✓
App-V - (Publishing)						
<b>Application Virtualization (App-V)</b>	App-V applications can be dynamically published to specific users & groups from a central location. App-V applications are dynamically made available in a users TS and VM desktop, as well as from the Konect client broker on XP,Vista, and Windows 7 client devices .					✓
<b>Published Applications (App-V)</b>	Streams applications into an isolated environment running on the users machine to eliminate potential conflicts between applications. This offloads the resources required to run applications from the server to the users machine. It is especially useful in Windows environments for applications that can be or must be used while disconnected from the network (e.g. synchronized e-mail, Microsoft Office Suite, etc.)	✓	✓	✓		✓
<b>Communication Between Application Virtualization Environments</b>	Enables virtualized application isolation environments to communicate with each other, providing customers with simplified maintenance of streamed applications as well as decreasing the time it takes to update/patch these applications.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>HTTP(S) Based Application Streaming</b>	Enables application streams applications to be streamed using the HTTP protocol. HTTP(s) is WAN friendly and can leverage a company's existing HTTP infrastructure. This feature also supports secure connections for streaming applications over HTTPS.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>64-bit Platform Support</b>	Allows administrators to deploy application virtualization technology to the latest 64-bit OS platforms for both client-side and server-side virtualization scenarios.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>Support for Complex Application Virtualization Needs</b>	Some applications require access to system components that make them more difficult to stream. Support for the isolation of services, COM+, DCOM access, and printer drivers allow more complex applications (or portions of applications) to be streamed without the need for complex sequencing or profiling customizations.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>Isolation of Services</b>	Some applications require access to system components that make them more difficult to stream. Support for the isolation of services allows more complex applications (or portions of applications) to be streamed without the need for complex sequencing or profiling customizations.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>Isolation of COM+</b>	Some applications require access to system components that make them more difficult to stream. Support for the isolation of COM+ allow more complex applications (or portions of applications) to be streamed without the need for complex sequencing or profiling customizations.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓

Single Management Console <i>Continued</i>						
<b>App-V - (Publishing)</b>						
<b>Support for DCOM access</b>	Some applications require access to system components that make them more difficult to stream. Support for the isolation of DCOM access allow more complex applications (or portions of applications) to be streamed without the need for complex sequencing or profiling customizations.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>Isolation of Printer Drivers</b>	Some applications require access to system components that make them more difficult to stream. Support for the isolation of services, COM+, DCOM access, and printer drivers allow more complex applications (or portions of applications) to be streamed without the need for complex sequencing or profiling customizations.	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization	Available in Microsoft Application Virtualization		✓
<b>Flex Computing</b>						
<b>Flex Spin</b>	Dynamic assignment and creation of a users VM desktop, applications, and user profile settings.				✓ SCVMM Templates not supported	✓
<b>Centralized Access Policies</b>	Administrators can configure settings for user sessions as policies that can be applied to sessions based on username, group, server name, server management container, client IP address or subnet, zone, or client name (or partial name). Priorities can be applied to these policies depending on specific user session situations.  <small>www.desktopsites.com</small>		✓ Partial	✓ Partial	✓	✓

### Secure by Design

Centralized application management is the most secure architecture for delivering applications. Data remains in the datacenter while only screen updates, mouse clicks and keystrokes transit the network. Centralized password control, multi-factor authentication, encrypted delivery and a hardened SSL VPN appliance eliminate the chance for loss or theft of data.

Category/ Feature	Description	Microsoft Windows Server 2003	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Konect Elite Standard	Konect Elite Enterprise
<b>Authentication</b>						
<b>Support for Windows Directory Services</b>	Allows role-based access to be provided using Active Directory®.	✓	✓	✓	✓ Utilizes AD Manager	✓ Utilizes AD Manager
<b>Single Sign-On</b>	Requires users to logon only once with their network credentials and automates subsequent logons to applications accessed through a Web browser, Windows client, or host terminal emulator. Specifies strong password characteristics such as length, character repetition and alphanumeric requirements on a per-application basis – applies to manual and automated password changes.			✓ Partial	✓	✓
<b>Forms Based Single Sign On</b>	Passes web entered credentials to RD Session Hosts, desktops and application sessions.			✓	✓	✓
<b>Background Session Authentication and Authorization</b>	When a session timeout has been reached, the remote session can be disconnected or the session can be silently re-authenticated and reauthorized. Background authentication and authorization requests are done automatically and require no user interaction.			✓	✓	✓

Secure by Design <a href="#">Continued</a>						
Access						
<b>Secure Sockets Layer Access to Server Applications</b>	Provides SSL/TLS encryption and multifactor authentication to provide authorized application access to appropriate users.		✓	✓	✓	✓
<b>DMZ Traversal</b>	Provide access to corporate resources from anywhere over SSL. Allows the use of SSL end-to-end from the client, through the DMZ, and into the internal corporate network.		✓	✓	✓	✓
<b>Device Redirection Enforcement</b>	Device redirection enforcement helps prevent malicious code on remote clients from overriding security policies set by an administrator.			✓	✓	✓
<b>Pluggable Authentication and Authorization</b>	Pluggable authentication and authorization allows you to use non-Windows-based methods for authentication and authorization. IT admins can use this to develop their own custom plug-ins to better fit their network admission			✓	✓	✓
<b>VPN Support</b>	Support for VPN connections.			✓	✓	✓

### Enterprise-class Scalability

Advanced scalability for 250 - 3,000 users, scale beyond 50 servers in a single implementation and ensure 99.999 percent application availability. management, application virtualization, and monitoring and automation tools enable rapid response to business and user needs.

Category/ Feature	Description	Microsoft Windows Server 2003	Microsoft Windows Server 2008	Microsoft Windows Server 2008 R2	Konect Elite Standard	Konect Elite Enterprise
<b>Integration with System Center Virtual Machine Manager (SCVMM)</b>	A Configuration Pack is available for Microsoft System Center Configuration Manager 2007 that evaluates configurations against predefined security and best practice guidelines specific to Remote Desktop Services environments. This provides administrators with a tool for automated configuration management.					✓ Sync (push/pull)
<b>Flex Spin</b>	Dynamic assignment and creation of a users VM desktop, applications, and user profile settings. SCVMM templates used.					✓
<b>Integration with App-V</b>	A Management Pack is available for Microsoft System Center Operations Manager 2007 that provides integrated monitoring and alerting capabilities specific to Remote Desktop Services environments.					✓

#### About desktopsites

desktopsites is a leading developer of innovative and cost effective application and desktop virtualization solutions for small and mid-size businesses ("SMBs"). desktopsites' Konect Elite solution delivers applications to physical or virtual desktops on-demand to users through a single management console without sacrificing the features typically available with more expensive alternatives.

desktopsites is a privately-held Canadian corporation with head offices in Calgary, AB, Canada. desktopsites' Konect solution is available to SMBs across North America through our channel network.

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