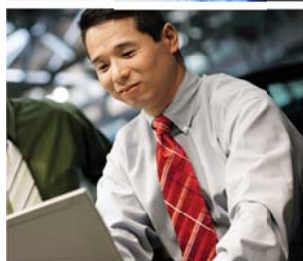




The power to do more



Dell and Microsoft Extend Remote User Experience with 3-D Graphics

Desktop Solutions with Microsoft Remote FX

Solution Brief



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Overview

Microsoft® RemoteFX™ in Microsoft® Windows® Server 2008 R2 SP1 introduces a set of end-user experience enhancements for Microsoft's Remote Desktop Protocol (RDP) and Hyper-V™. Microsoft RemoteFX delivers a rich graphics experience for remote users and virtual desktops by providing a 3D virtual adapter, intelligent codecs, and the ability to leverage processor, graphics processing unit (GPU) and low cost hardware decoders.

Today's users expect seamless high performance access to multimedia, online video, and rich graphical user interfaces no matter how or with what device they access their desktop environment. Delivering multimedia 3-D graphics and other rich media to remote users has traditionally been difficult. Microsoft's introduction of RemoteFX enhances the remote user experience with powerful and flexible graphics capabilities, including options to virtualize a single GPU to support multiple remote users. RemoteFX extends a rich graphical desktop experience to a wide array of remote end point devices, from the most powerful PCs, to thin clients, LCD displays and other devices.

Dell and Microsoft share a long and successful history of engineering collaboration and solution integration spanning desktop, client and data center solutions. Dell brings a unique combination of expertise in client computing, server, storage, and networking infrastructures combined with the analysis, design and implementation resources and experience to enhance workforce adaptability, application support, data security and to create economies of scale to respond to the demands you face today and in the future. Dell will enable IT administrators with new options to leverage the CPUs and GPUs in Dell PowerEdge servers and to support remote users with RemoteFX capable client devices in ways that ensure an optimum user experience.

Dell and Microsoft RemoteFX Solutions

Dell and Microsoft are working together to certify multiple Dell server platforms and GPUs with RemoteFX in the Windows Hardware Quality Labs (WHQL) certification process. Dell's end to end approach simplifies what would otherwise be a highly complex proposition for IT organizations with solutions that securely balance IT operational efficiency, end user productivity, and business agility. Dell together with Microsoft and multiple technology partners are assessing, testing, and refining multiple combinations and configurations of RemoteFX with Dell PowerEdge R710, and M610x servers with various GPUs and related options such as the Dell C410x expansion chassis. This server, GPU, and client compatibility assessment effort includes the following:¹

- **Dell PowerEdge R710 and Dell PowerEdge M610x blade**
- **Dell PowerEdge C410x**
- **NVIDIA M2070Q and AMD V7800P GPUs**

With Dell platforms and RemoteFX our customers in Banking and Financial sectors can provide their workforce with remote and secure access to internal 3D graphics applications. Our customers in Healthcare can provide clinical staff access to graphics-rich medical applications from a diverse set of end points. Our customers in Higher Education can enable students to access labs remotely with better support for applications like Matlab and SPSS. Our customers in Manufacturing and IT can enable application

Benefits of Dell Solutions with RemoteFX

- Expands the range of client devices capable of supporting remote desktops
 - Enable remote desktops with full Windows Aero, SilverLight and 3-D graphics/animation
 - Streamlines desktop deployment, and simplifies desktop management
 - Flexibility to leverage the most appropriate processors, GPUs, or hardware decoders
 - Virtualize a single GPU to support multiple remote users with rich graphics
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¹ Information provided in this document is for informational purposes only and is subject to change without notice. Dell and Microsoft testing is an on-going process and together we have comprehensive plans to test, validate and integrate Windows Server 2008 R2 capabilities with a wide variety of Dell products and solutions. The information provided in this document is preliminary and in no way constitutes or implies a statement of compatibility between Dell products with Windows Server 2008 R2 SP1.



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developers to have more flexibility with remote access to graphics-rich development environments.

Dell OptiPlex business clients including OptiPlex workstations and FX series Thin Clients support and complement current desktop virtualization infrastructure powered by Citrix® XenDesktop™ and VMware® View™. RemoteFX is an important new technology breakthrough that will give customers more choice and increased ability to realize the promise and benefits of desktop virtualization. Inherent in Dell's end-to-end approach to enterprise IT solutions is ongoing close collaboration and integration of Microsoft solutions and platforms with an ecosystem of Dell client devices, and client solutions spanning various form factors and end user use cases.

Dell Services® can provide you with a standardized and centrally managed desktop environment so you can simplify the process of maintaining, distributing, and patching applications while reducing costs for desktop management. Dell's Virtual Desktops Services offerings create increased operating efficiency, robust user performance, and cost control, and our pay-per-use fee structure reduces your capital costs for equipment. Dell Services offerings are currently being refreshed to support Windows Server 2008 R2 SP1 including RemoteFX and related capabilities.

Multiple Options to Optimize the User Experience

With Windows Server 2008 R2 Remote Desktop Services and RemoteFX, Microsoft provides a range of graphics rendering and processing options both on server hosts in the data center and on client devices. Dell will enable IT administrators with extensible new options to leverage the CPUs and GPUs in Dell PowerEdge servers and to support remote users with RemoteFX capable client devices in ways that ensure an optimum user experience. RemoteFX provides customers new choices for supporting users with high performance graphics from a centralized computing infrastructure. When paired with Dell's leading server and business client solutions customers have a clear, proven path to success with RemoteFX, so your businesses can adapt to the changing dynamics of a virtual and media savvy workforce.

Additional information regarding Dell vertical desktop solutions is available at:

<http://content.dell.com/us/en/enterprise/virtual-client.aspx>

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