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HDX 3D – Version 1.0

Requirements Guide

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CHAPTER 1 – OVERVIEW

INTRODUCTION TO HDX 3D FOR PROFESSIONAL GRAPHICS

Citrix HDX 3D for Professional Graphics can now deliver Windows physical desktops and applications to the most advanced professional graphics power users through Citrix XenDesktop technology. XenDesktop with HDX 3D provides the best performance possible over the wide area network (WAN), and over a local area network (LAN), HDX 3D consumes 10x less bandwidth than alternatives while still providing a high-definition user experience.

In industries such as Manufacturing, Engineering and Graphic Design, Architecture and Animation, design teams are often geographically-dispersed but still require the ability to collaborate and work from the same source files. And these teams work with highly-valued intellectual property where security is paramount. Desktop virtualization provides significant business benefits to these organizations – among them making secure, global collaboration possible. With XenDesktop 3.0 with HDX 3D enterprise users are ensured the best experience over any network. Design teams can collaborate in real time and keep IP safely housed in the datacenter.
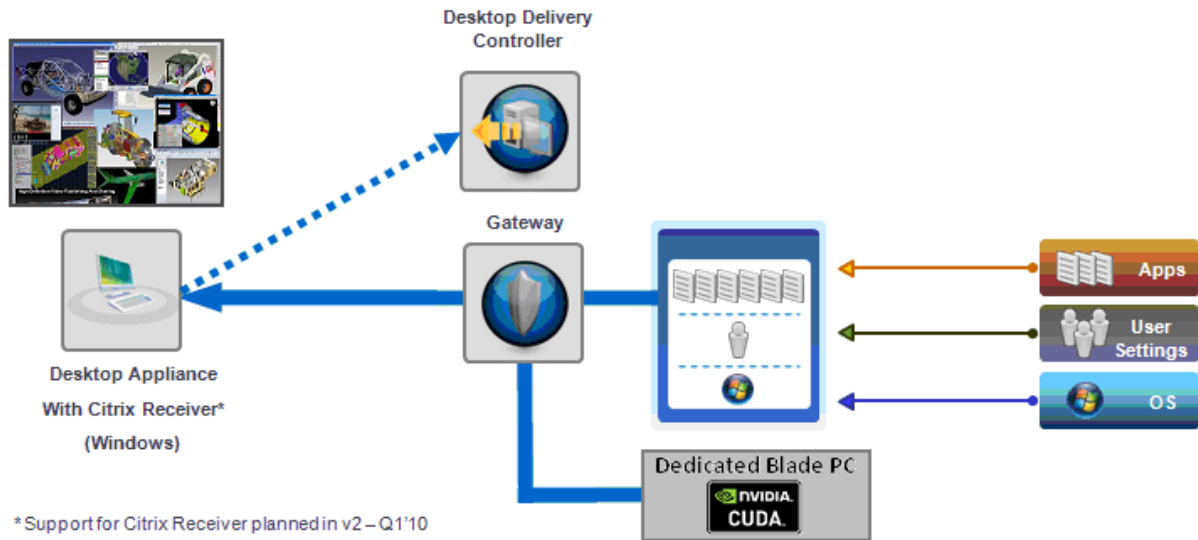
HDX 3D also leverages the same rich management consoles available from both Citrix and 3rd parties. This allows organizations to use different policies regarding resource usage and follow a finely tuned on-demand strategy.
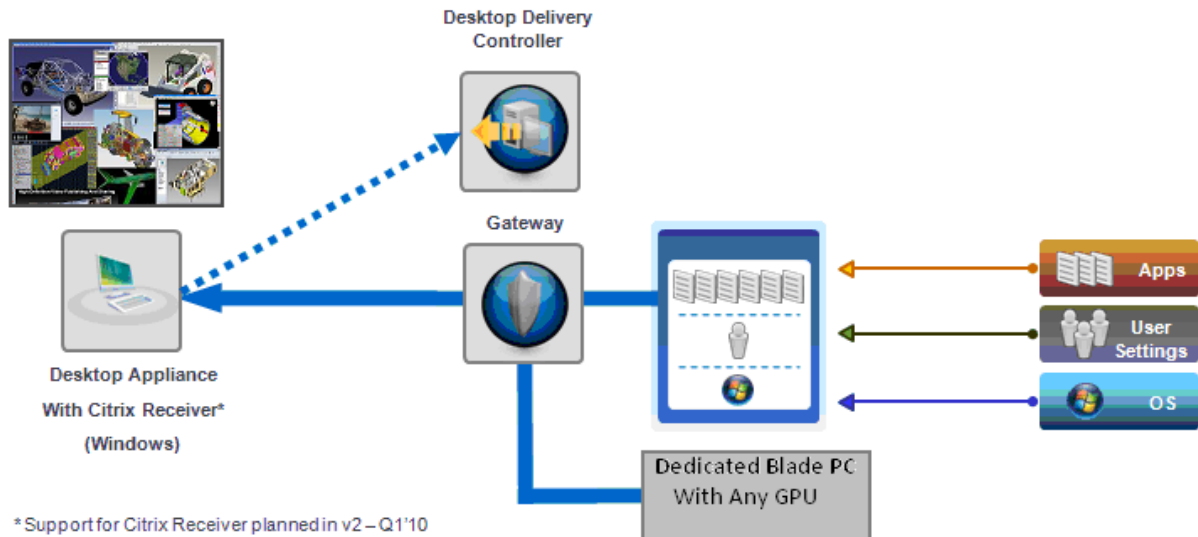
ARCHITECTURE

HDX 3D for Professional Graphics (HDX 3D for ProGfx) integrates into your XenDesktop environment. Your HDX 3D for ProGfx will be added to a Desktop Delivery Group within your Desktop Delivery Controller. Clients will connect to the XenDesktop environment using the standard means and then select their HDX 3D for ProGfx server.

Typical HDX 3D for ProGfx setup:

CASE I: The HDX 3D for ProGfx server has a NVIDIA CUDA enabled GPU with at least 96 cores and the NVIDIA CUDA 2.1 (or higher) display drivers installed. In this architecture, the GPU codec can be leveraged to get the optimum performance in both LAN and WAN. You can also use the CPU codec with this configuration.

CASE II: The HDX 3D for ProGfx server has a NVIDIA CUDA enabled GPU with less than 96 cores and the Nvidia CUDA 2.1 (or higher) display drivers installed, or does not contain a CUDA-enabled Nvida GPU at all. In this architecture, only the CPU codec can be leveraged to get the optimum performance in both LAN and WAN.

LICENSING

No additional license files or keys are required for HDX 3D for Professional Graphics, however, as a XenDesktop environment is required, you must have a Citrix License Server deployed with active XenDesktop licenses.

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SERVER

HARDWARE

The host workstation must be a physical machine as HDX 3D for ProGfx does not work on Virtual Machines (VMs) in version 1.0. The host workstation may be a tower or desktop workstation, or a blade/rack mountable workstation. It is strongly recommended that the host workstation/GPU is one that is recommended by the application vendor.

HDX 3D for ProGfx does not require one specific manufacturer's equipment. Citrix has tested the HDX 3D for ProGfx Tech Preview release on hardware from HP, IBM and Dell. Although blade and rack workstations are envisioned as the ideal platforms for this generation of the HDX 3D technology, regular freestanding PCs and workstations are suitable for using this technology. We recommend at least 4 GB of RAM and a quad core CPU.

A CUDA enabled NVIDIA graphics card with at least 96 core is required if you want to leverage the benefits of the GPU codec. Currently we recommend an Nvidia Graphics card that has 128 or more parallel CUDA cores. Cards that meet this specification are the Nvidia Quadro FX 4600, 5600, 3800, 4800 and 5800. For a detailed list of CUDA-enabled cards please see the following website:

http://www.Nvidia.com/object/IO_11761.html#mobile

For a HDX 3D server that does not have a CUDA-enabled GPU (or a CUDA-enabled GPU with less than 96 CUDA cores) a user will leverage the CPU codec to still insure strong LAN and WAN performance.

SOFTWARE

The host/server workstation must run Windows XP SP2/ SP3 32-bit Professional.

This host must have the appropriate CUDA-enabled Nvidia drivers installed if the NVIDIA graphics card being used has at least 96 cores. Please see the following Nvidia website to obtain the CUDA 2.1 or CUDA 2.2 drivers here:

http://www.Nvidia.com/object/cuda_get.html

Note: At the time of this release the CUDA 2.3 (or higher) drivers have not been tested.

For all other graphics products the normal display drivers should be used.

Note: Multi Monitor server-side systems are not supported in this release. Only one monitor/display should be attached to the server.

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HARDWARE

Minimum Requirements:

Configuration: Pentium 4, 3.0 GHz CPU or equivalently fast single core CPU, 1 GB RAM,

Monitor Resolution: 800x600

GPU: No GPU required.

Recommended requirements:

Configuration: Core Duo 1.5 GHz CPU or higher dual core CPU, 2 GB RAM

Monitor Resolution: WAN: 800x600 - 1280X1024

                      LAN: 800x600 - 1920x1200

GPU: No GPU required.

Note: Client system may have multiple monitors attached; however, HDX 3D client sessions will only utilize one monitor/display from the server.

SOFTWARE

Windows 32 bit and 64 bit OS (Windows XP, Windows VISTA, and Windows Server 2003)

LANGUAGE

HDX 3D – Version 1.0 is supported ONLY in English.

About Citrix

Citrix Systems, Inc. (NASDAQ:CTXS) is the leading provider of virtualization, networking and software as a service technologies for more than 230,000 organizations worldwide. Its Citrix Delivery Center, Citrix Cloud Center (C3) and Citrix Online Services product families radically simplify computing for millions of users, delivering applications as an on-demand service to any user, in any location on any device. Citrix customers include the world's largest Internet companies, 99 percent of Fortune Global 500 enterprises, and hundreds of thousands of small businesses and prosumers worldwide. Citrix partners with over 10,000 companies worldwide in more than 100 countries. Founded in 1989, annual revenue in 2008 was $1.6 billion.