

### Overview

HP Virtual Desktop Infrastructure is an end-to-end client virtualization solution based on the best managed and virtualization-ready HP ProLiant and BladeSystem servers, HP StorageWorks storage, and HP Thin Client access devices. It is a desktop replacement solution that delivers to IT teams the flexibility to quickly deploy and refresh desktops and reduces the threat of associated potential data loss or theft. XenDesktop also lowers the complexity and cost of desktop and application management, while continuing to provide end-users with the functionality of a stand-alone desktop.

The new HP VDI offering is rich in feature set and significantly improves the end user experience. HP VDI with Citrix XenDesktop is built on an open architecture to offer customers the choice and flexibility of virtualization platform and endpoint devices. The solution delivers a high definition user experience over any connection - from local corporate network to high latency wide area networks for remote desktop access. With easy to use front-end interface and an architecture that can seamlessly integrate into your existing infrastructure, HP VDI with Citrix XenDesktop is ideal choice for new users of desktop virtualization.

XenDesktop 4 delivers the best desktop for every user, the best way to manage applications and the best user experience. With the inclusion of the full capabilities of XenApp, XenDesktop 4 can deliver everything from a single application to a complete Windows desktop experience to any user, anywhere. Whether users are basic task workers or on-the-go mobile workers, desktops and applications are made available as simple, on-demand centrally managed services.

### What's New

- **New XenDesktop 4 with on-demand application delivery using XenApp** - HP VDI with Citrix XenDesktop is announcing new XenDesktop 4 which includes full capabilities of XenApp. XenDesktop4 can now deliver everything from a single application to a complete Windows desktop experience to any user, anywhere. Application virtualization is essential to reducing desktop management costs. With application virtualization, IT can manage fewer, simpler desktop images, eliminate system conflicts, and reduce application regression testing. The latest XenDesktop 4 allows:
  - Dynamically select the best method of delivering applications - offline or online - to each user and device. Applications can be hosted centrally and delivered via Citrix HDX Technology for use while online, or streamed directly to the endpoint and run in an isolated environment for use when offline.
  - Zero application conflicts - Application isolation eliminates application conflicts and simplifies application compatibility testing.
- **Named User Licensing** - Citrix XenDesktop 4 pricing and licensing is changing to align with desktop licensing models. With this new release, XenDesktop will be offered on a "named user license", replacing the "concurrent virtual desktop" license
- **Introducing Platinum edition** - HP now provides a new Platinum edition for XenDesktop. This end-to-end virtual desktop (VDI) and desktop management solution is feature rich and provides virtual application delivery, for the most flexible user access, complete performance monitoring and QoS capabilities. With this new edition, customers now have the choice of 2 editions - Enterprise and Platinum. Upgrade SKUs are available to assist with moves from one edition to another.
- **Get complete Citrix XenServer and Citrix Essentials for XenServer, Enterprise Edition** - HP VDI with Citrix XenDesktop now includes the retail version of Citrix XenServer and Citrix Essentials for XenServer, Enterprise edition. The latest XenServer 5.5 enables easier management and broader integration with enterprise systems. The Essentials for XenServer, Enterprise Edition provides integration with native storage services, workload balancing, high availability and performance monitoring and reporting. Some of the key benefits of Citrix Essentials for XenServer and XenServer 5.5 are - Seamless Storage integration, Dynamic workload balancing, Dynamic provisioning services, High availability and Workflow studio orchestration.
- **Improved End User experience** - Some of the key new features of XenDesktop 4 that improve end user experience are:
  - XenApp - With complete XenApp included with XenDesktop, users can work seamlessly regardless of the application being used.
  - Desk-like access - By using the Repeater acceleration feature in conjunction with the Secure Access Client, users can now enjoy the same network experience and application access as if physically connected to the local network.
  - Voice over IP Support - This enhancement allows remote users to leverage the existing VoIP Soft phones thereby providing convenience and ease of use
- **Easy Management** - The latest HP VDI with Citrix XenDesktop 4 provides easy and enhanced management for the entire solution. Some of the key pieces that enable simple management are:

### Overview

- Citrix Essentials for XenServer
- Rapid, simple Windows 7 migrations - 64 bit VM OS & Win 7 support
- Workflow Studio Orchestration as an add on for XenDesktop 4
- **Better Security** -
  - Access Gateway - Access Gateway delivers high performance, standards-based encrypted transmissions to deliver desktops using SSL technology to both internal and remote users.
  - Other enhancements that deliver better security are multi-factor authentication and RADIUS authentication

### At A Glance

- HP VDI with Citrix XenDesktop comes as an end-to-end solution leveraging integrated virtualization software, reliable ProLiant and BladeSystem server platforms, HP StorageWorks, HP thin clients portfolio and best in class manageability software for physical and virtual infrastructure
- HP VDI with Citrix XenDesktop has an open architecture that seamlessly integrates with Citrix XenServer, Microsoft Hyper-V and VMware vSphere 4.0 being used for backend server virtualization
- Citrix XenDesktop opens the door to customer choice - allowing the infrastructure to host centralized desktops based on multiple hypervisor platforms or Blade PCs and Blade Workstations
- HP serves as the single point of contact for XenDesktop with the integrated HP XenServer offerings and provides 1 year 9x5 support services and upgrades with every purchase. Options are available to upgrade to 24x7 and multi-year support at time of support renewal.
- HP VDI with Citrix XenDesktop is available in 2 editions - Enterprise and Platinum

	Enterprise Edition	Platinum Edition
Citrix XenServer	Included	Included
Citrix Essentials for XenServer, Enterprise Edition	Included	Included
Provisioning Server for Data Center		Included
Virtual Desktop Delivery Controller	Included	Included
Virtual Desktop Provisioning	Included	Included
VM Resource Pooling and XenMotion	Included	Included
XenApp	Included [XenApp Enterprise]	Included [XenApp Platinum]
Access Gateway Client License (Requires purchase of additional hardware)	Included	Included
Profile Management	Included	Included
Password Manager		Included
EdgeSight		Included
Branch Repeater Plug-in Client License (Requires purchase of additional hardware)		Included
Workflow Studio orchestration	Included	Included

- HP VDI with Citrix XenDesktop contains licenses for client-side components of Citrix Branch Repeater™ software (Platinum edition) and Citrix Access Gateway™:
  - Citrix Access Gateway™ is a secure application access solution that provides administrators granular application-level control while empowering users with access from anywhere. It gives IT administrators a single point of control to manage access and actions based on both the user and the endpoint device, providing better risk, security and compliance management. The solution comprises of Data Center hardware and client-side software. The HP VDI with Citrix XenDesktop includes a license for this client-side software. The Data Center side physical hardware can be purchased through HP SLMS or any other Citrix reseller. The client-side software is available and bundled along with the physical access gateway hardware.

### Overview

- Citrix Branch Repeater™ is a WAN optimization solution that accelerates application delivery to branch office users while dramatically reducing WAN bandwidth requirements and simplifying branch IT infrastructure. The solution comprises of Data Center hardware and client-side software. The HP VDI with Citrix XenDesktop, Platinum edition includes a license for Citrix Branch Repeater™ client software. The Data Center side physical hardware can be purchased through HP SLMS or any other Citrix reseller. The client-side software is available and bundled along with the physical branch repeater hardware.
- Workflow Studio Orchestration is a free add-on available with all the editions
  - Available as an add on, Workflow Studio provides an easy-to-use, graphical interface for workflow composition that virtually eliminates scripting. Workflow Studio acts as the glue across the IT infrastructure allowing administrators to easily tie technology components together via workflows.

### Models

#### HP VDI with Citrix XenDesktop

Citrix XenDesktop 4 Enterprise edition for 20 Named User Licenses, No Media Software with 1 year 9X5 Services and Support Updates <b>NOTE:</b> Complete XenDesktop Enterprise edition which includes Citrix XenServer, Citrix Essentials™ for XenServer, Enterprise Edition, Virtual Desktop Delivery Controller, XenApp Enterprise, Virtual Desktop Provisioning, Advance Storage integrators and Standard Secure Remote Access Gateway Client License for 20 NU Licenses, including 1 yr 9X5 Software Technical Support with Updates. <b>NOTE:</b> Additional Free Add-On features - Workflow Studio Orchestration must be downloaded separately.	TC283A
Citrix XenDesktop 4 Platinum edition for 20 Named User Licenses, No Media Software with 1 year 9X5 Services and Support Updates <b>NOTE:</b> Complete XenDesktop Platinum edition which includes Citrix XenServer, Citrix Essentials™ for XenServer, Enterprise Edition, Virtual Desktop Delivery Controller, XenApp Platinum, Virtual Desktop Provisioning, Advance Storage integrators, Provisioning Server, EdgeSight, Universal Secure Remote Access Gateway Client License and Branch Repeater License for 20 NU Licenses. This SKU comes with 1 yr 9X5 Software Technical Support with Updates. <b>NOTE:</b> Additional Free Add-On features - Workflow Studio Orchestration must be downloaded separately.	TC216A
Citrix XenDesktop 4 Enterprise to Platinum Upgrade 20 Named User Licenses, No Media Software with 1 year 9X5 Services and Support Updates <b>NOTE:</b> Includes license keys for upgrade from Enterprise edition to Platinum edition of XenDesktop 4 for 20 NU, including a 1 yr 9X5 Software Technical Support and Updates.	TC219A

### Product Features

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#### Flexibility

- Customers can purchase the end-to-end solution from HP in conjunction with the server and storage management software for physical and virtual infrastructure
  - HP serves as the single point of support for the entire VDI solution
  - The HP VDI with Citrix XenDesktop 4 is available in 2 Editions - Enterprise and Platinum and provides the flexibility to upgrade from one option to another by simply purchasing an upgrade license
  - The HP VDI with Citrix XenDesktop is flexible to fit seamlessly with systems running non Citrix server virtualization in the backend
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#### Manageability

- The Citrix portfolio comes with management software that makes your VDI solution robust, flexible and scalable. The Virtual Desktop Provisioning, Resource Pooling and XenMotion, XenApp and Desktop Delivery Controller allow easy management and monitoring
  - HP Insight Control Management Suite: HP's Insight Control suite is the industry leading management software that helps to deploy, control and manage both physical and virtual infrastructure. It provides an essential set of infrastructure management functionality that includes a complete set of lifecycle management tools including: RDP for rapid software image deployment. HP ICE does not come bundled along with HP VDI with Citrix XenDesktop, but can be procured independently.
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#### Client Manageability

- Complement your server management software with HP's best in class client management solutions
    - Use HP Device Manager, which is included in the price of all HP thin clients, to manage, report on and automate the usage and deployment of all HP thin clients.
    - Use HP Client Automation to manage HP thin clients, PCs, mobile devices and virtual machines.
    - Or select HP's supported 3rd party solutions
      - Symantec Altiris Deployment Solution to manage thin clients and PCs
  - Microsoft System Center Configuration Management to manage Windows based clients
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#### HP ProLiant Server Support

- Server support. HP supports a broad range of servers for integrated Citrix XenServer products, allowing customers to continue to use existing server standards in a virtualized environment.
  - For information on HP servers that support HP VDI with Citrix XenDesktop, see: <http://h10018.www1.hp.com/wwsolutions/index.html>
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#### HP Web Sites

- Information on the Citrix and HP partnership: <http://www.hp.com/solutions/citrix>
- Information on HP iLO Advanced Pack: <http://www.hp.com/go/iLO>

### Supported Product

- HP integrated Citrix XenServer software is supported and certified on a broad range of HP ProLiant Servers including BL, DL, and ML server series products
- The Open architecture XenDesktop allows it to be supported with range of hypervisors available in the industry, including XenServer, VMware vSphere 4.0 and Microsoft Hyper-V. However, currently HP support is only available on the Citrix XenDesktop with Citrix XenServer.
- A broad range of HP thin clients is available for end point access devices
- The solution supports an exhaustive set of OS for Virtual desktops and end point devices

Component	Support Specifications
Citrix XenServer	Citrix XenServer is a proven server virtualization platform that delivers critical features of live migration and centralized multi-server management. HP VDI with Citrix XenDesktop contains the latest XenServer 5.5 enables easier management and broader integration with enterprise systems.
Citrix Essentials for XenServer, Enterprise Edition	Citrix Essentials for XenServer provides a set of management and automation capabilities to Citrix XenServer environments to help customers create highly scalable, manageable and agile virtual infrastructures
Virtual Desktop Delivery Controller	The Virtual Desktop Delivery Controller (DDC) is the brokering mechanism between the endpoint and the virtual desktop running in the data center. This component also manages connections between users' endpoint devices and the virtual desktops.
Virtual Desktop Provisioning	The Virtual Desktop Provisioning feature is powered by Provisioning Server for Desktops. This feature uses operating streaming technology to deliver a single, standard desktop image on-demand to the virtual desktop running in the data center from a network service. The shared desktop image is configured, delivered, and managed centrally. The associated benefits are reduced total costs and increased security and flexibility while enabling an uncompromised user experience.
Resource Pooling & XenMotion	XenMotion gives an administrator the ability to move a running virtual machine from one XenServer to another without service interruption for zero-downtime server maintenance. Administrators can use resource pooling and move running application workloads to take advantage of available compute power.
Integrated XenApp application delivery Profile Management	Integrated application delivery powered by XenApp virtualizes and delivers hosted or streamed applications into virtual desktops in the data center. Profile Manager separates the user's personal settings from the applications, the desktop and the device, so that they can be dynamically assembled on demand regardless of access device or location. This capability is key to enabling the cost savings provided by single image desktop provisioning, while still preserving a personalized user experience.
Password Management	Centrally stored and encrypted passwords make password management simple and secure and eliminate the need for employees to track multiple passwords.
EdgeSight (feature , Platinum edition)	XenDesktop incorporates Citrix EdgeSight to allow detailed monitoring of the virtual desktop hosting infrastructure, delivering real-time and historical virtual machine information on CPU, memory, bandwidth and disk access. EdgeSight performance monitoring can be used not only to analyze and troubleshoot issues, but also to warn IT Administrators in advance when issues may arise.
Access Gateway Client Software and DataCenter Hardware	Citrix Access Gateway™ is a secure application access solution that provides administrators granular application-level control while empowering users with access from anywhere. It gives IT administrators a single point of control to manage access and actions based on both the user and the endpoint device, providing better risk, security and compliance management. The solution comprises of Data Center hardware and client-side software. The HP VDI with Citrix XenDesktop includes a license for the client-side software. This physical hardware and the client-side software can be purchased through HP SLMS or any other Citrix reseller. The client-side software is available and bundled along with the physical branch repeater hardware.

### Supported Product

<b>Citrix Branch Repeater™ Hardware (Platinum edition)</b>	Citrix Branch Repeater™ is a WAN optimization solution that accelerates application delivery to branch office users while dramatically reducing WAN bandwidth requirements and simplifying branch IT infrastructure. The solution comprises of Data Center hardware and client-side software. The HP VDI with Citrix XenDesktop, Platinum edition includes a license for Citrix Branch Repeater™ client software. The Data Center side physical hardware can be purchased through HP SLMS or any other Citrix reseller. The client-side software is available and bundled along with the physical branch repeater hardware.
<b>Workflow Orchestration Software (free add-on)</b>	Workflow Studio provides an easy-to-use, graphical interface for workflow composition that virtually eliminates scripting. Workflow Studio acts as the glue across the IT infrastructure allowing administrators to easily tie technology components together via workflows.
<b>Virtual Machine Infrastructure (additional compatibility)</b>	Citrix XenServer and Citrix Essentials for XenServer, Enterprise edition are bundled along with the product. However, Citrix XenDesktop is also supported on other hypervisors such as VMware ESX and Microsoft Hyper-V.
<b>HP Insight Control Software (optional)</b>	HP Insight Control Management Suite: HP's Insight Control suite is the industry leading management software that helps to deploy, control and manage both physical and virtual infrastructure. It provides an essential set of infrastructure management functionality that includes a complete set of lifecycle management tools including: RDP for rapid software image deployment. HP ICE does not come bundled along with HP VDI with Citrix XenDesktop, but can be procured independently from HP.
<b>HP iLO Advanced Pack (optional)</b>	HP iLO Advanced Pack provides an easy key-activated upgrade to full Lights-Out functionality on HP ProLiant servers. Using HP iLO Advanced Pack features, IT managers can perform most server management and administration tasks without physically visiting servers. iLO Advanced Pack also provides additional diagnostic tools for the physical host, such as automatic video of the last boot and fault sequence, and team collaboration for up to 4 users. This does not come bundled along with HP VDI with Citrix XenDesktop, but can be procured independently from HP.
<b>Virtual Desktop OS Support</b>	The OS support provided for virtual machine desktop includes: <ul style="list-style-type: none"><li>● Microsoft Windows XP</li><li>● Microsoft Windows Vista</li></ul>
<b>XenCenter Host</b>	The OS support for XenCenter server includes: <ul style="list-style-type: none"><li>● Microsoft Windows XP</li><li>● Microsoft Windows Server 2003</li><li>● Microsoft Windows Vista</li></ul>
<b>End point Devices</b>	The user access devices can support OS: <ul style="list-style-type: none"><li>● Microsoft Windows XP with Service Pack 2</li><li>● Microsoft Windows Vista</li><li>● Linux</li></ul>
<b>HP Access Device Support Thin Client Support:</b>	<ul style="list-style-type: none"><li>● t5145</li><li>● 5540</li><li>● t5545</li><li>● t5630</li><li>● t5730</li><li>● t5735</li><li>● Mobile 2533t</li><li>● Mobile 6720t</li><li>● gt7725</li><li>● gt7720</li></ul>

### *Supported Product*

#### **HP ProLiant Support**

The integrated hypervisor and virtualization software is supported on a range of HP ProLiant and Blade system servers.

For the latest list of HP servers that support HP VDI with Citrix XenDesktop, please check <http://h18004.www1.hp.com/products/servers/software/citrix/hpcitrixcert.html>

### Related Options

#### Service and Support Offerings (HP Care Pack Services)

##### XenDesktop Enterprise

**NOTE:** XenDesktop Enterprise software licenses include 1-year 9x5 unlimited technical software support and updates for all major and minor versions available from Citrix. The following SnS upgrade is available.

HP 1-year 24x7 - Unlimited technical software support and updates

US447E

##### XenDesktop Platinum

**NOTE:** XenDesktop Platinum software licenses include 1-year 9x5 unlimited technical software support and updates for all major and minor versions available from Citrix. The following SnS upgrade is available.

HP 1-year 24x7 - Unlimited technical software support and updates

US445E

##### XenDesktop Enterprise to Platinum Upgrade

**NOTE:** XenDesktop Enterprise to Platinum upgrade software licenses include 1-year 9x5 unlimited technical software support and updates for all major and minor versions available from Citrix. The following SnS upgrade is available.

HP 1-year 24x7 - Unlimited technical software support and updates

US446E

## Technical Specifications

Weight and Dimensions	Dimensions (Length x width x height)	6.5 x 5.5 x 1 in (16.51 x 13.97 x 2.54 cm)
	Volume	0.021
	Gross Weight (lbs)	1

Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
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The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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