VMWARE HORIZON 7

AT A GLANCE

VMware Horizon® 7 delivers virtualized or hosted desktops and applications through a single platform to end users. These desktop and application services—including Remote Desktop Services (RDS) hosted apps, packaged apps with VMware ThinApp®, software-as-a-service (SaaS) apps, and even virtualized apps from Citrix—can all be accessed from one digital workspace across devices, locations, media, and connections without compromising quality and user experience.

Leveraging complete workspace environment management and optimized for the software–defined data center, Horizon 7 helps IT control, manage, and protect all of the Windows resources end users want, at the speed they expect, with the efficiency business demands.

WHAT'S NEW

Drawing on the best of mobile and cloud, Horizon 7 radically transforms virtual desktop infrastructure (VDI), giving you unprecedented simplicity, security, speed, and scale—all at lower costs. Horizon 7 helps you get up and running up to 30x faster while cutting costs over traditional solutions by as much as 50%.

End-User Computing Today

Today, end users are leveraging new types of devices for work—accessing Windows and Linux applications alongside iOS or Android applications—and are more mobile than ever.

In this new mobile cloud world, managing and delivering services to end users with traditional PC-centric tools have become increasingly difficult. Data loss and image drift are real security and compliance concerns. And organizations are struggling to contain costs. Horizon 7 provides IT with a new streamlined approach to deliver, protect, and manage Windows and Linux desktops and applications while containing costs and ensuring that end users can work anytime, anywhere, on any device.

Horizon 7: Delivering Desktops and Applications as a Service

Horizon 7 allows IT to centrally manage images to streamline management, reduce costs, and maintain compliance. With Horizon 7, virtualized or hosted desktops and applications can be delivered through a single platform to end users. These desktop and application services—including RDS hosted apps, packaged apps with ThinApp, SaaS apps, and even virtualized apps from Citrix—can all be accessed from one unified workspace to provide end users with all of the resources they want, at the speed they expect, with the efficiency business demands.

Desktops and Applications Delivered Through a Single Platform

Deliver virtual or hosted desktops and applications through the VMware's next-generation JMP platform to streamline management, easily entitle end users, and quickly deliver desktops and applications to end users across devices and locations.

Horizon 7 provides a single platform for delivering hosted Windows applications and shared desktop sessions from Windows Server instances using Microsoft Remote Desktop Services (RDS), virtual desktops, and ThinApp packaged applications.

Horizon 7 supports both Windows- and Linux-based desktops, including RHEL, Ubuntu, CentOS, and NeoKylin.

Unified Digital Workspace

With Horizon 7, IT can support real-time validation, streamlined identity management across identity sources such as Active Directory and LDAP, and provide end users with contextual and customizable access to resources through a single unified workspace.

Horizon 7 supports two-factor, smart card, and biometric authentication. It is designed and certified to meet the most demanding compliance regulations, including those of the U.S. federal government.

vmware®

Desktops and applications that can be securely delivered and accessed through the digital workspace include:

• Horizon virtual desktops
• XenApp 5.0 and later
• RDS-hosted apps and desktops for Windows Server 2008 and later
• SaaS applications
• ThinApp 5.0 and later
• VMware Horizon Cloud desktops and Horizon Cloud apps

Figure 1. Digital Workspace

Just-in-Time Delivery with Instant Clone Technology

Instant clone technology coupled with VMware App Volumes™ dramatically reduces infrastructure requirements while enhancing security. The VMware JMP platform enables to you deliver brand new personalized desktops and published applications instantly to end users every time they log in:

• Deliver pristine high-performance personalized desktops to end users every time they log in.
• Scale published applications effortlessly at the push of a button while deploying them 5–10x faster and eliminating image sprawl.
• Simplify deployments with a tightly integrated stack and fewer components, along with half the required steps when deploying or scaling as compared to competitive solutions.
• Reduce endpoint security concerns by destroying desktops as soon as users log off.
• Drastically lower costs by pooling required infrastructure to drive down storage costs by up to 30% with a truly stateless desktop, but deliver the personalization end users expect.
• With updated Cloud Pod Architecture, scale to over 50,000 desktops across 50+ sites with improved failover characteristics, in a fraction of the time of traditional desktop virtualization models.

Rich, Adaptive User Experience

Horizon 7 provides end users with a consistently great experience across devices, locations, media, and connections. The latest Horizon 7 release delivers bandwidth utilization improvements of up to 50% to support more use cases across your organization alongside feature-rich capabilities and Blast Performance, which will ensure your end users can be as productive as possible at all times.

Blast Performance includes:

• **Blast Unity Touch** – Intuitive and contextual user experience across devices, making it easy to run Windows on mobile.

• **Blast Local Access** – Access to local devices, drives, USB, and device peripherals.

• **Horizon Clients with Blast** – Unified client for consistently great experience across devices and locations.

• **Blast Adaptive UX** – Optimized access across the WAN and LAN through an HTML browser or the Horizon client using either PCoIP or Blast Extreme display protocols. Blast Extreme is purpose-built and optimized for the mobile cloud, built on industry-standard H.264 protocol.

• **Blast Extreme Adaptive Transport (BEAT)**– BEAT maintains a great user experience across a wide variety of network types, ranging from corporate LAN to public Wi-Fi and mobile networks.

• **Blast Multimedia –** High-performance multimedia streaming for rich user experience.

• **Blast 3D –** Rich virtualized graphics delivering workstation-class performance, including support for NVIDIA GRID vGPU with virtual desktops and RDSH hosted applications.

• **Blast Live Communications –** Fully optimized unified communications and real-time audio-video (RTAV) support. Horizon 7 now includes support for Microsoft Lync with Windows 10.
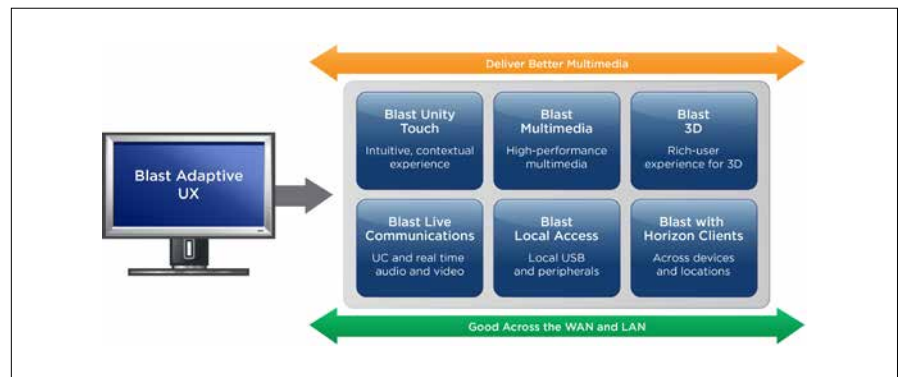

Figure 2. Horizon Blast Performance Delivers an Adaptive Experience Across Devices and Locations

Smart Policies with Streamlined Access

Improve end-user satisfaction by simplifying authentication across all desktop and application services while improving security with smarter, contextual, role-based policies:

• Support contextual, role-based security for end users that maps policies based on user, device, or location with ease.

• Get one-click, password-free access to Windows desktop services delivered by true SSO.

• Streamline identity management across identity sources and provide end users with easy access to resources through a single unified workspace.

Complete Workspace Environment Management

Horizon 7 ensures that IT can consolidate control, automate delivery, and protect user compute resources through a single, tightly integrated platform.
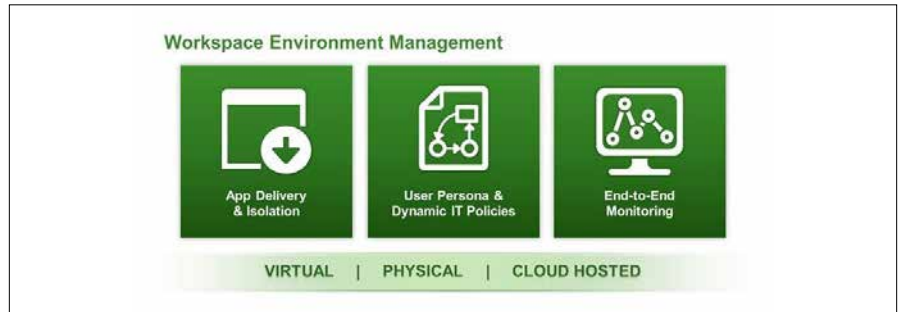

Figure 3. Horizon 7 Provides Complete Workspace Environment Management

User Environment Management and Personalization

VMware User Environment Manager™ offers personalization and dynamic policy configuration across any virtual, physical, or cloud-based environment:

• Simplify end-user profile management by providing organizations with a single and scalable solution that leverages existing infrastructure.

• Provide end users with quick access to a Windows workspace and applications, with a personalized and consistent experience across devices and locations.

Real-Time Application Delivery and Management

• Easily package applications to avoid compatibility issues.

• Instantly provision applications at scale.

• Dynamically attach applications to users, groups, or devices, even when users are logged on to their desktop.

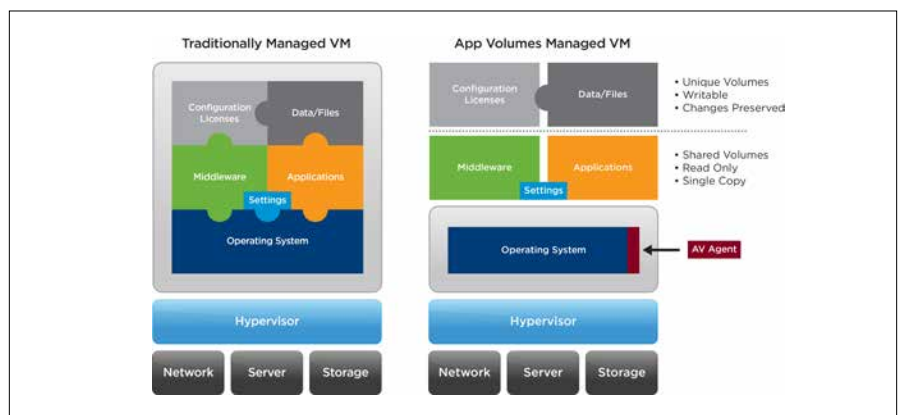• Provision, deliver, update, and retire applications in real time.

Figure 4. An App Volumes Managed VM Is Virtualized Above the OS; Applications, Data Files, Settings, Middleware, and Configuration Licenses Act as Separate Layers.

Image Management

• Support desktop and application provisioning through Horizon.

• Support VMware Mirage™ for streamlined image management across virtual data centers of physical and full clone virtual machines.

Analytics and Automation

• Cloud analytics with VMware vRealize® Operations™ for Desktops and Applications provides comprehensive visibility across VMware Horizon and Citrix XenApp and XenDesktop environments, allowing IT to optimize the health and performance of desktop and application services.

Optimized for the Software-Defined Data Center

Leverage and extend your expertise with VMware vSphere® to simply deliver desktop and application workloads. Horizon 7 extends the power of virtualization with virtual compute, virtual storage, and virtual networking and security to drive down costs, enhance the user experience, and deliver greater business agility.
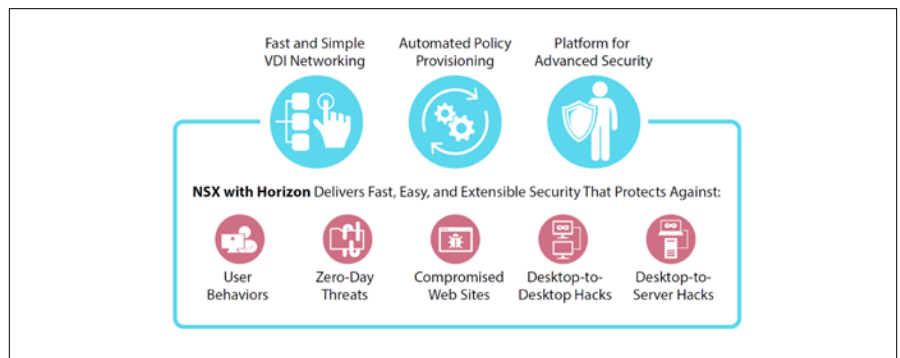

Figure 5. VMware NSX with Horizon

Horizon 7 includes support for VMware vSAN™ with all flash. vSAN automates storage provisioning and leverages direct-attached storage resources to drive down storage costs for desktop workloads. Customers can leverage vSAN-Ready Nodes and other hyperconverged infrastructure appliances to support easy, scalable, and cost-optimized desktop and application virtualization deployments. From a networking and security standpoint, Horizon with VMware NSX® (sold separately) further enables you to quickly and simply set up networking security policy for end users that stays with them across devices and locations regardless of any changes in the underlying physical infrastructure.

Make the Move Today

VMware Horizon (on-premises) is available in the following editions:

• **Horizon 7 Standard** – Simple, powerful VDI with a great user experience
• **Horizon 7 Advanced** – Cost-effective delivery of desktops and applications through a unified workspace
• **Horizon 7 Enterprise** – Desktops and applications delivered through a unified workspace with just-in-time management
• **Horizon Apps Standard** – Simple, powerful app virtualization with a great user experience
• **Horizon Apps Advanced** – Powerful app virtualization with just-in-time management

FEATURE	SUB-COMPONENT/ PRODUCT	HORIZON FOR LINUX	HORIZON STANDARD	HORIZON ADVANCED	HORIZON ENTER-PRISE	HORIZON APPS STANDARD	HORIZON APPS ADVANCED	HORIZON AIR (HYBRID-MODE)
License Entitlement								
Concurrent User (CCU)		•	•	•	•	•	•	•
Named User				•	•	•	•	•
Subscription Pricing Plan								•
Desktop and Applications								
Windows Virtual Desktops	VMware Horizon		•	•	•			•
Linux Desktops	VMware Horizon for Linux	•			•			
Unified Workspace - XA, RDSH, SaaS, ThinApp	VMware Identity Manager Standard			•	•	•	•	
Published Applications (RDSH) and Session-Based Desktops	RDS Published Apps			•	•	•	•	•
Packaged Applications	VMware ThinApp		•	•	•	•	•	•
Blast Extreme Protocol	VMware Horizon	•	•	•	•	•	•	•
Virtualization Pack for Skype for Business	VMware Horizon			•	•		•	•
Application and Desktop Access with Single Sign-On	VMware Identity Manager Standard			•	•	•	•	
Cloud Connector	Horizon Air Cloud Managed							•

vmware®

FEATURE	SUB-COMPONENT/ PRODUCT	HORIZON FOR LINUX	HORIZON STANDARD	HORIZON ADVANCED	HORIZON ENTER-PRISE	HORIZON APPS STANDARD	HORIZON APPS ADVANCED	HORIZON AIR (HYBRID-MODE)
Workspace Environment Management								
Image Management								
Image Management for Physical Desktop	VMware Mirage			•	•			
Desktop and Application Management								
Real-Time Application Delivery	VMware App Volumes				•		•	•
Just-in-Time Delivery with Instant Clone Technology	VMware Horizon				•		•	•
User Environment Management								
User, Profile, and Policy Management	VMware User Environment Manager				•	•	•	•
Cloud Analytics and Operations Management								
Help Desk Tool	VMware Horizon				•		•	
Operations Dashboard – Health Monitoring & Performance Analytics	VMware vRealize Operations for Horizon				•			•
Capacity Management – Planning & Optimization	VMware vRealize Operations for Horizon				•			•
Infrastructure								
Storage								
Virtual Storage	VMware vSAN Advanced for Desktop with all-Flash			•	•			•
Desktop Infrastructure								
Cloud Infrastructure	VMware vSphere Desktop and VMware vCenter Desktop	•	•	•	•	•	•	•

vmware®