What’s New in XenApp and XenDesktop 7.7 - 7.9

Ronald Grass
Sr. Systems Engineer
08.06.2016
XenApp & XenDesktop 7.7 - 7.9 Objectives

**Flexibility**
- Improved App Management & Delivery
- Enhanced Provisioning
- Multi-Geo Management & Reporting
- Director Monitoring & Reporting

**Partnership**
- Citrix and Microsoft
- Embrace Microsoft Platforms
- Windows Server 2016
- Windows 10

**Experience**
- Self-Service Password Reset
- Higher Framehawk Scalability
- Enhanced Graphics Performance

**Security**
- Session Recording (VDI & Remote PC)
- Simplified SSL configuration
- Healthcare App Compliance
- Provisioning Services FIPS Compliance

© 2016 Citrix | Confidential
Pace of Innovation

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Feature Pack 1</th>
<th>Feature Pack 2</th>
<th>Feature Pack 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015Q1</td>
<td>XenApp &amp; XenDesktop 7.6 March</td>
<td>XenApp &amp; XenDesktop 7.6 June</td>
<td></td>
</tr>
<tr>
<td>2015Q2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015Q3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015Q4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016 Q1</td>
<td>XenApp &amp; XenDesktop 7.7 December</td>
<td>XenApp &amp; XenDesktop 7.8 February</td>
<td></td>
</tr>
<tr>
<td>2016 Q2</td>
<td>XenApp &amp; XenDesktop 7.9 May</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Servicing Options

Current Release (CR)
- New Use Cases
- Rapid Innovation
- Faster Enhancements

Long Term Service Release (LTSR)
- Extended 5+5 Lifecycle
- Predictable Maintenance
- Reduced IT Costs

Citrix.com/support/LTSR
XenApp and XenDesktop Releases

Always the Latest

New Feature Releases

Current Releases

7.6 FP1 FP2 FP3 7.7 7.8 7.9

Long Term Service Releases

Predictable Release Cycles

7.6 LTSR

LTSR version declared
Flexibility
Improved app delivery, site management and monitoring
The traditional approach to images

Single Master Image

Single master image

- Operating System and Apps are a single “thing”
- Difficult, almost impossible, to maintain differing “application sets”
- Increase in maintenance cost and time
- Reduction in cost and time efficiencies
The traditional “answer” to differing application needs

Multiple Master Images

Multiple master images

- Image sprawl
- Duplicate application deployments
- Increased management time
- Application patching becomes a nightmare
Simplifying app management by layering apps

Citrix AppDisk

Separate Application and Base layers

- Faster, more reliable application delivery
- Faster, easier Desktop and App provisioning
- Fewer but cleaner golden images
- Greater time and cost efficiencies
Integrated AppDNA compatibility testing for AppDisk
Key Citrix Differentiator

Simplify app assessment & management
- Automated application compatibility assessment
- Up to 90% faster then manual assessments
- Simplifies app migration to new Windows OS
- Clear Red – Amber – Green status indicators
- Details compatibility issues to streamline development process
- XenApp and XenDesktop Platinum only feature
Improved App Publishing

• Enhanced Studio App Publishing Interface
  – Publish apps to multiple Delivery Groups
  – View, Assign and Edit your apps in one place
  – Add ‘Existing’ apps in a Delivery Group
  – Change app launch priorities
  – Preferentially assign Delivery Group to launch an app

• Improved Tag Management
  – Easier tracking and management across machines, apps and delivery groups
What’s new in StoreFront 3.5
Expanded app store administration

- Updated Deployment Wizard
- New Store-centric Admin Console – Settings now apply per Store
- Store and Receiver for Web options configured through UI
- Multi Site Configurations
- And plenty more…. 
Better Application Availability

• **AppLimits**
  – Limit the number of users accessing an application
  – Limit the number of simultaneous instances of resource-intensive applications.
  – Maintain server performance and prevent deterioration in service.

• **Multiple reboot warnings**
  – Repeat notification messages that are sent to machines before reboot actions take place.
  – Use cases include:
    – Updating machines in a Machine Catalog using a new master image
    – Restarting machines in a Delivery Group according to a configured schedule
XenDesktop Multi Zone Management

- Applications only need to be published **once**
- Administration Reduction and Simplification
- SQL Database at Primary Zone
- Zone Specific Resources if needed
Proactive Notification & Alerting in Director 7.7

• Monitor key conditions in a site
  – Session disconnects
  – Connection failures
  – Logon times
  – Server load
• Warning and critical thresholds
• Automatic email alerting
• Closes gap with classic ES 5.4
Director Improvements

- Capacity Management reports
  - Desktop and OS
- Zoom in and drill down reports
  - Faster access to critical data
- Additional authentication methods
  - Smartcard, Single Sign On
- Overall better accuracy
  - Startup times, session initiation
Director monitoring improvements

Enhanced logon duration metrics
Partnership
Citrix and Microsoft, Better Together
Microsoft Integration

Windows 10
HDX 3D Pro
Remote PC Access: Secure Boot

System Center
Updated SCOM Packs
Updated Citrix Connector for SCCM

HDX RealTime Optimization Pack 2.1
(available in June)
Location Services from endpoint
QoE Reporting
SfB 2016 Ready

Windows Server 2016
Try Tech Preview 5
Share TP Feedback
HDX RealTime Optimization Pack 2.0 und 2.1

- Joint support from Citrix and Microsoft
- Comprehensive functionality, including audio-video and telephony features, when the Skype for Business client is hosted on Citrix XenApp or XenDesktop
- Fully native user experience
- Uncompromised quality of voice and video
- Maximum VDI/RDS server scalability
- Support for a broad range of devices and OS
HDX RealTime Optimization Pack

Data Center

Skype for Business Server 2015 (or Lync Server 2013)

User 1

Skype for Business
RT Connector
ICA

Audio and video over SRTP (no hairpinning)

VDA 1

RT Connector

User 2

Skype for Business
RT Connector
ICA

VDA 2

XenApp or XenDesktop

© 2016 Citrix | Confidential
Seamlessly manage Microsoft App-V packages from Studio

Microsoft App-V integration

Separately manage applications and base image

- Isolates applications from conflicts
- Fewer/cleaner golden images
- Assessment and guidance with AppDNA
- App-V integration into Studio
- Reduce App-V infrastructure costs

Windows 10
Accelerating the Microsoft Value-Add
Strengthening the joint Citrix and Microsoft solutions

• MCS Provisioned VDAs on Microsoft Azure
• PVS Support for Windows 10
• Support for Scale Out File Server (VHDX)
• UPM Support for Windows 10
• PVS support for Gen2 VMs introduced with Server 2012
PVS & MCS Enhancements

- Business Continuity for PVS
- Support for Modern Pre-Boot Environments (UEFI)
- Simplified PVS Target Device Upgrade
- MCS Provision from Hypervisor Templates (API)
- Integrated AppDisk Support for PVS and MCS
Machine Creation Services I/O optimizations

Reduce IOPS by up to 95% driving down shared storage costs

• Machine Creation Services (MCS)
  • Available in every edition of XenApp and XenDesktop 7.x

• Leverage low-cost, high-performance RAM as alternative to expensive shared storage
  • RAM cache with overflow to disk for MCS

• Available on all supported hypervisors
  • Citrix XenServer
  • Microsoft Hyper-V
  • Nutanix Acropolis
  • VMware vSphere

• Applies to pooled and dedicated machines

*Based on Citrix Internal Test Data
Experience
Delivering a brilliant user experience on any device
Citrix Receiver

**Receiver for iOS 7.0**
- Session Reliability
- IPv6 Support
- HDX SDK

**Receiver for HTML5 2.0**
- Multi-touch and Mobility pack
- Improved in-session toolbar
- Client-side app switcher

**Receiver for Chrome 2.0**
- Seamless windows
- Connection Center
- Redesigned toolbar

**Receiver for Android 3.9**
- Unified user experience (Web UI)
- Enhanced multi-monitor support
- Improved keyboard handling
Workspace Control Improvements
Better control of multiple sessions for multiple devices

- Ability to override default session roaming behaviour to encompass more use cases.
- Addresses Medical and Finance verticals where session roaming is not necessarily beneficial.
- PowerShell SDK can be used to tailor session roaming.
  - Set-BrokerEntitlementPolicyRule
  - Set-BrokerAppEntitlementPolicyRule
Improved User Experience

• Integrating Framehawk and HDX 3D Pro for Windows 7/8 virtual desktops

• Enhanced Framehawk scalability:
  • 40% reduction in memory footprint*
  • 20% or greater increase in CPU efficiency*
  • 50% improvements in bandwidth efficiency for touch scrolling*
  • Increased frame rate for touch scrolling*

*Based on lab test data
Enhanced Graphics Performance for Every User
All-in-one CPU & GPU delivers high resolution visuals at an affordable price

Best for mainstream graphics applications
- Targeted for Desktop operating systems
- Browser acceleration, imaging, etc.

HDX 3D Pro integration with Intel Iris Pro Graphics
- CPUs with built-in graphics processing

Supported on XenServer 7.0 and bare metal

Only XenApp & XenDesktop with XenServer support
- Intel Iris Pro Direct pass-through
- Intel Iris Pro Virtual GPU sharing
XenApp & XenDesktop

7.9
Flexibility
Citrix Linux VDA 1.3

HDX-3D Pro *
Shared hosted & VDI
SLED/SLES 11.4 & 12.1
CentOS / RHEL 6.7 & 7.2
Printing via UPD
Audio support
Multimonitor support
H.264 & Thinwire ECM
Client Drive Mapping

https://www.citrix.com/blogs/2015/10/13/citrix-more-options-for-linux-desktop-virtualization/

* SLE 12.1 & RHEL / CentOS 7.2 only
Introducing Citrix HDX Ready Pi
High performance, Citrix verified thin client for under $99

Partnering to bring Raspberry Pi to the enterprise
- Joint partnership with Raspberry Pi and Citrix
- OEM by ViewSonic and Micro Center
- Based on new Raspberry Pi 3

High performance, low-cost HDX client
- Additional volume discounting may apply

Fully assembled thin client, in single package
- Systems preassembled and packaged
- Systems preconfigured and licensed
- Embedded Flash Memory card
- Preloaded with Citrix Receiver and device
Central Image Management for Any Hypervisor

XenApp & XenDesktop 7.9 enable Machine Creation Services (MCS) for Nutanix Acropolis hypervisor

Provisioning Acropolis VDI instances from Citrix Studio
- Integrated Management
- Strength of Citrix & Nutanix partnership

Low-cost, high-performance VDI
- Predictable pay-as-you-grow scaling
- Turn-key deployments
- Fast, fully-redundant local storage
Security
Protecting intellectual property and promoting compliance
XenApp and XenDesktop 7.8

Session Recording for VDI & Remote PC

Now record and playback user session on XenApp servers and VDI

VMware SSL Thumbprint

Simplifies configuration by automatically creating trust between vSphere and Controllers certificates
XenApp and XenDesktop 7.8

FIPS Compliance

Provisioning Services support for FIPS compliant algorithms

Healthcare Enhancements

Client name pass through for easier licensing of healthcare apps
Download Today

XenApp
XenDesktop

Mobile SDK
Announce cloud support

1st GPU support
Unified app/desktop cloud-enabled platform (FMA)

Acquire Framehawk
Skype for Mac/Win/Linux
Hybrid cloud provisioning
PVS write cache

Pre-launch, linger, anon logon
Next Gen Thinwire
HDX Framewhawk GA
Faster SmartCard logon
FIPS & Common Criteria
Clipboard policies
X1 Mouse
Session recording
Watermarking (Labs)
Jailbreak detection
Linux GA and 2.0
Windows 10 support Day 1
Supportability tools
Automated migration service
DesktopPlayer (Mac/Win)
Multi-geo management
Horizon migration service
Advanced alerting
Workspace Cloud GA
Browser Apps Service (Labs)
AppDNA Express (Labs)

Federated Authentication
MCS I/O Optimizations
Intel Iris Pro Graphics
Nutanix MCS provisioning
Enhanced Director reporting
Advanced printing capabilities
Secure Browser
Long Term Service Release
StoreFront 3.5
AppDisk
AppDNA for App Disk
App-V Integration
Enhanced App Publishing
Session Recording for VDI
Framehawk & HDX 3D Pro

© 2016 Citrix | Confidential
Multiple URLs for remote access, datacenter infrastructure is costly and hard to manage

- Multiple point solutions result in:
  - Multiple URLs, Limited or poor end user experience
  - Complicated and hard to manage infrastructure
  - Multiple islands, limited integration between solutions
  - Multiple upgrade cycles that lead to disruption
  - Misconfiguration of security and access policies
One URL improves user experience, empower IT and reduce TCO

- One URL provides consolidation for XA/XD customers
  - Single point of access for end users
  - Easier management of single appliance
  - Reduce TCO
  - Seamless integration between products
  - Consistent security and application policies

Distributed App Infrastructure
NetScaler Unified Gateway provides one URL to any application
Work better. Live better.