



What's New in Feature Pack 3 for XenApp and XenDesktop 7.6

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Roger Bösch

Citrix Systems International GmbH



XenApp & XenDesktop 7.6

Feature Pack 1

- SmartAuditor session recording
- Enhanced XenServer 6.5 performance
- Optimization for Lync 2013 on Windows and Linux
- Common Criteria and FIPS-120 certification

Q1

Feature Pack 2

- New Receiver for universal app access
- Linux Virtual Desktop
- HDX with Framehawk for amazing mobile performance
- Skype for Business support
- Citrix X1 Mouse for unmatched Windows experience on iOS

Q2

Feature Pack 3

- Windows 10 VDA
- Win10 compatibility with AppDNA
- Windows 10 Receiver
- User experience templates
- Next generation Thinwire
- Jailbroken device detection
- Universal Print Server
- Drawing/Signature Tablets
- Faster smartcard performance

Q3

What's New in 7.6 Feature Pack 3!

• **Windows 10 support**

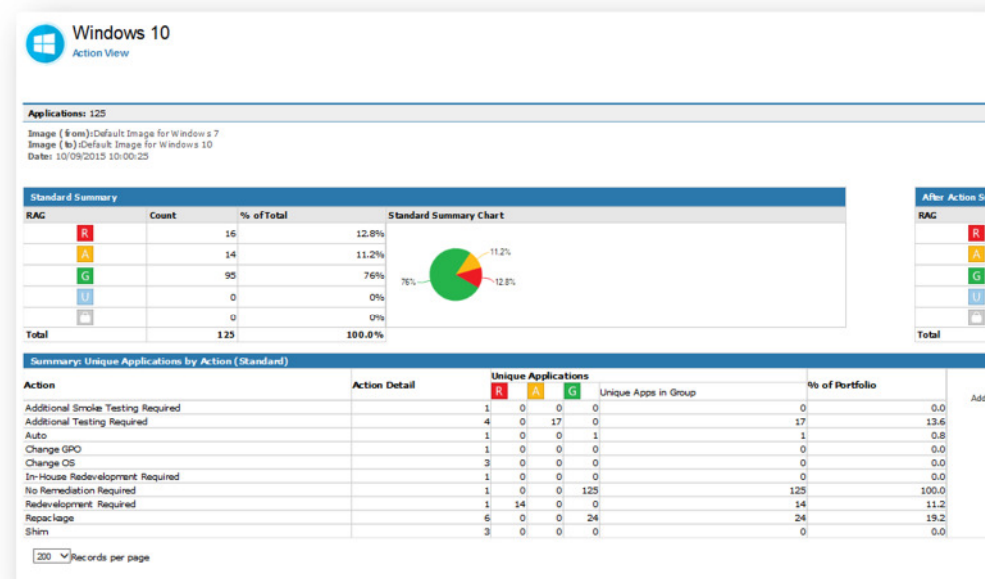
- Enhanced HDX Thinwire “Plus”
- Improved tablet drawing and signature devices over the WAN
- Faster SmartCard login performance
- Universal Print Server for Windows Server 2012
- Linux VDA
- Video fallback prevention
- Updated Receivers (iOS, HTML5, Windows)



Accelerate App Migration to Windows 10

AppDNA 7.6.5

- Windows 10:
 - Application compatibility reports
 - Remediation recommendations
 - Lifecycle management
- Microsoft Edge (Web Browser):
 - Application compatibility reports
 - Remediation recommendations
 - Lifecycle management



Feature Compatibility

Feature	Server VDA			Workstation (Desktop) VDA		
	2008R2	2012	2012R2	Windows 7	Windows 8.x	Windows 10
Next Generation Thinwire	N/A	✓	✓	N/A	✓	✓
Windows 10 Experience (non-3D)	N/A	N/A	N/A	N/A	N/A	✓
Signature / Drawing Tablets (Wacom)	✓	✓	✓	✓	✓	✓
Expedite SmartCard Logins	✓	✓	✓	✓	✓	✓
Universal Print Server	*	N/A	✓	N/A	N/A	N/A
Framehawk integration with VDA	✓	✓	✓	✓	✓	✓
Flash & WMV redirection (Video Fallback Prevention Policy)	✓	✓	✓	✓	✓	✓

Embrace any device and operating system

New! Citrix Receivers



- Bidirectional audio and webcam
- 16-bit color depth for bandwidth efficiency
- Printing UX enhancements



- 16-bit color depth for bandwidth efficiency
- HTML5 Receiver as SDK



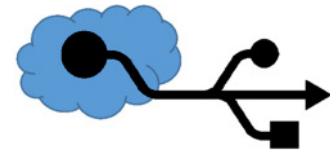
- Windows 10 support
- Framehawk support



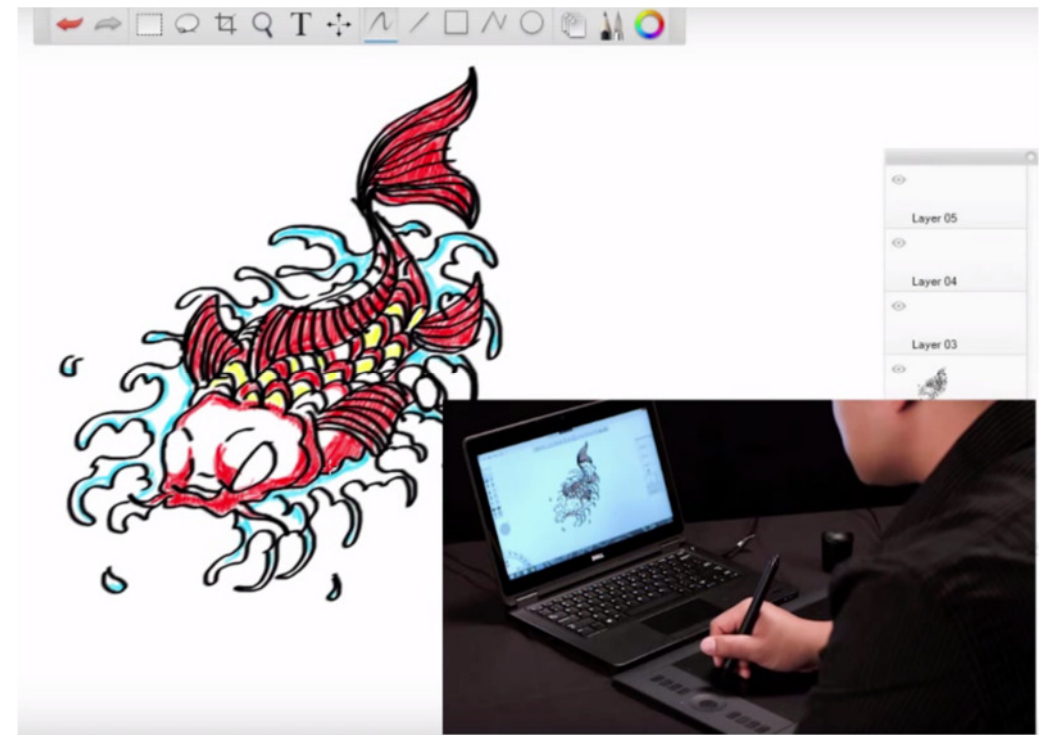
- iOS 9 support
- Jailbreak detection
- Framehawk support

USB Redirection to Cloud for artists, signing-authorities

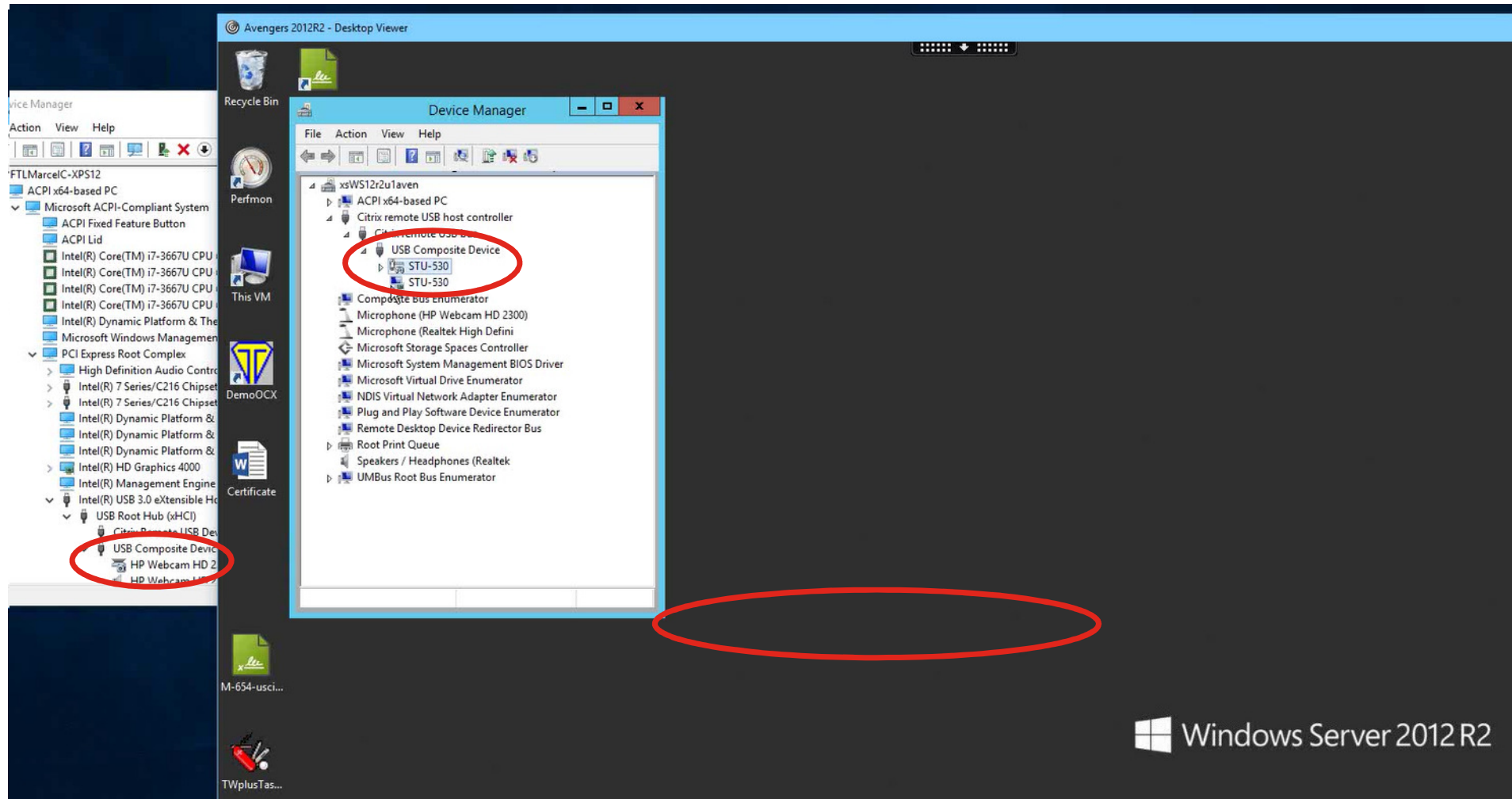
Enabling a paperless, virtual workplace with drawing tablets and signature pads



- Driverless endpoint; one-click redirection of USB input device to cloud
- Two new HDX Policy controls
 - “Capture Mode”
 - Perfect for signature devices
 - “Interactive Mode”
 - Perfect for drawing devices



USB Redirection



Digitalized & digital signature in a PDF file

signed sample.pdf - Adobe Reader

File Edit View Window Help

The validity of the document certification is UNKNOWN. The author could not be verified.

Signatures

Validate All

Certified by Marcel Calef <Marcel.Calef@citrix.com>

Only form fill-in, signing and page adding actions are allowed.

Signature validity is unknown:

- Document has not been modified since it was signed.
- Signer's identity is unknown because it has not been verified.
- Signing time is from the clock on the signer's computer.

Signature Details

Reason: Demonstrating capabilities

Location:

Certificate Details...

Last Checked: 2015.07.17 15:53:55 -04'00'

Field: Signature, on page 1

Sign Here

Name: Digital Signer
Reason: Demonstrating capabilities
Signature: [Handwritten Signature]
Signed: 07/20/2015 06:24 PM (UTC-04:00) Date: [Field]
Title: [Field]
Print name of signing official: [Field]

Certificate Viewer

This dialog allows you to view the details of a certificate for the selected entry.

Show all certification paths found

CITRIXRootCA
CITRITELPolicyCA
CITRITELIssuingCA
Marcel Calef <Marcel.Calef@citrix.com>

Summary: [Field]

Certificate data:

Name	Value
Version	3
Signature algorithm	SHA1 RSA
Subject	email=Marcel.Calef@citrix.com, cn=Marcel.Calef
Issuer	cn=CITRITELIssuingCA01, dc=citrite, dc=citrix
Serial number	1B 08 20 B3 00 05 00 07 38 75
Validity starts	2015/04/27 09:27:14 -04'00'
Validity ends	2016/04/26 09:27:14 -04'00'

Digital
handwritten



Embedded
Digital (SSL based)
Same technology as
HTTPS



Finance

Adobe Acrobat
Document



HDX modes - reintroduced



User density
per Server

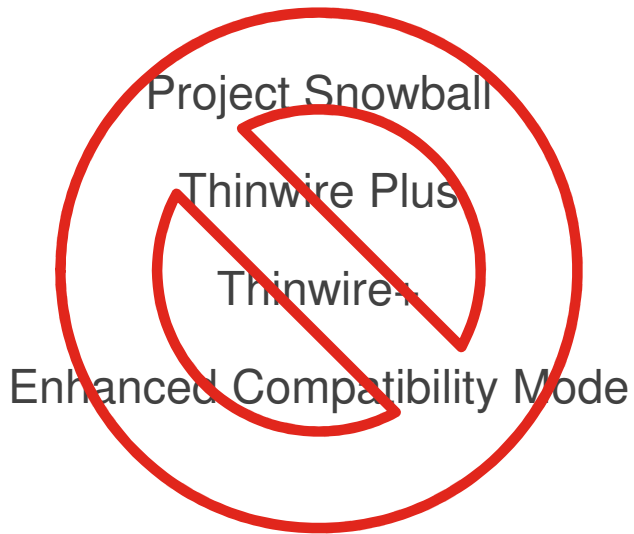
HDX
Default

User
Experience

Thinwire
Compatibility Mode

Thinwire
Default Mode





“Thinwire Compatibility Mode”

Use video codec for compression

Applies to: Virtual Delivery Agent: 7.6 Server OS, 7.6 Desktop OS

Value: **Do not use video codec**

Use default value: Use video codec when available

New User Policy Templates

- Delivery Groups
- Policies
- Logging
- Configuration
 - Administrators
 - Controllers
 - Hosting
 - Licensing
 - StoreFront
 - App-V Publishing

Policies **Templates** Comparison Modelling

Templates

Select a template to use to create a policy

Templates contain groups of pre-configured settings designed to meet your end user experience goals. Edit the templates as you go, adding and new settings, as needed.

Citrix templates

- Optimized for CloudBridge
- Optimized for WAN**
- Optimized for WAN-Legacy OS
- Security and Control
- Very High Definition User Experience

Custom templates

Optimized for WAN

Description	Settings
Universal printing optimization details User setting - ICA\Printing\Universal Printing ImageCompression=ReducedQuality;HeavyweightCompression=False;ImageCach True;FontCaching=True;AllowNonAdminsToModify=False (Default: ImageCompression=StandardQuality,HeavyweightCompression=False,ImageCach ue,FontCaching=True,AllowNonAdminsToModify=False)	
Universal printing print quality limit User setting - ICA\Printing\Universal Printing Medium Resolution (600 DPI) (Default: No Limit)	
Use asynchronous writes User setting - ICA\File Redirection Enabled (Default: Disabled)	
Use video codec for compression User setting - ICA\Graphics Do not use video codec (Default: Use video codec when available)	
View window contents while dragging User setting - ICA\Desktop UI	

Policy Templates – summarized

Template name	Very High Def. UX	High Server Scalability	Optimized for WAN
Bandwidth			
Overall session bandwidth limit			0 Note: simply to expose the setting
Graphics			
Use video codec for compression	Use when available	Do not use / Legacy	Do not use / Legacy
Target frame rate	30 (min 10)	----- 16 (min 8) -----	
Visual Quality	High	Medium	Low
Color depth for simple graphics	----- 24bpp -----		16bpp
Desktop UI			
Desktop Wallpaper	Allowed	Prohibited	Prohibited
View window contents while dragging	Allowed	Allowed Prohibited	Allowed Prohibited
Dynamic windows preview	Enabled		Disabled
Menu animations	Allowed	Prohibited	Prohibited
Multimedia			
Optimize (transcode) RAVE		Prohibited	Allowed
Limit video Quality			Maximum 480p
Windows/flash media fallback	Allow server rendered	Play only on client	
Audio			
Audio Quality	High – high definition audio	Medium-Optimized for speech	Low—for low speed connections
Printing			
Auto-create client printers	Auto-create all client printers	Default printer only	Default printer only
Direct connections to print servers	Enabled		Disabled
Universal printer driver usage (UPD)	if requested driver not available	Use universal printing only	Use universal printing only
Universal printing print quality limit	No Limit		Medium Resolution (600 DPI)
Universal Printing Optimization	ImageCompression=BestQuality	ImageCompression=StandardQuality	ImageCompression=ReducedQuality
File Redirection			
Use Asynchronous writes	Disabled		Enabled

What HDX graphics mode can be used?

	Win 7	Win 10 W2K12R2	W2K8R2
Highly graphical environments	Thinwire-H.264 / DCR*	Thinwire-H.264	Thinwire-H.264
Task workers Older clients	Legacy Mode	Thinwire Compatibility Mode	Legacy Mode
Challenging mobile scenarios	Framehawk*	Framehawk*	Framehawk*

*use DCR and Framehawk only when available bandwidth is plenty

7.6.300 VDA with Framehawk technology integrated



- New Framehawk technology **integrated into HDX Broadcast**
 - Extend XenDesktop and XenApp usage to unpredictable networks
- Citrix Receiver for Windows and iOS
 - Additional Citrix Receivers to follow
- Compatibility with Director, CloudBridge, NetScaler HDX Insight
- NetScaler support (requires 11.0-62.10 build)

2 key scenarios for Framenhawk

1. Mobile workers on broadband wireless
 - Spectral interference is common, leading to packet loss
 - Factories, Home Workers, Coffee Shops
2. Offshore workers
 - The farther the users are from the data center, the more likely there is packet loss along the way
 - Latency amplifies the impact of packet loss
 - Remote Call Centers, Oil Rigs, Aid Workers

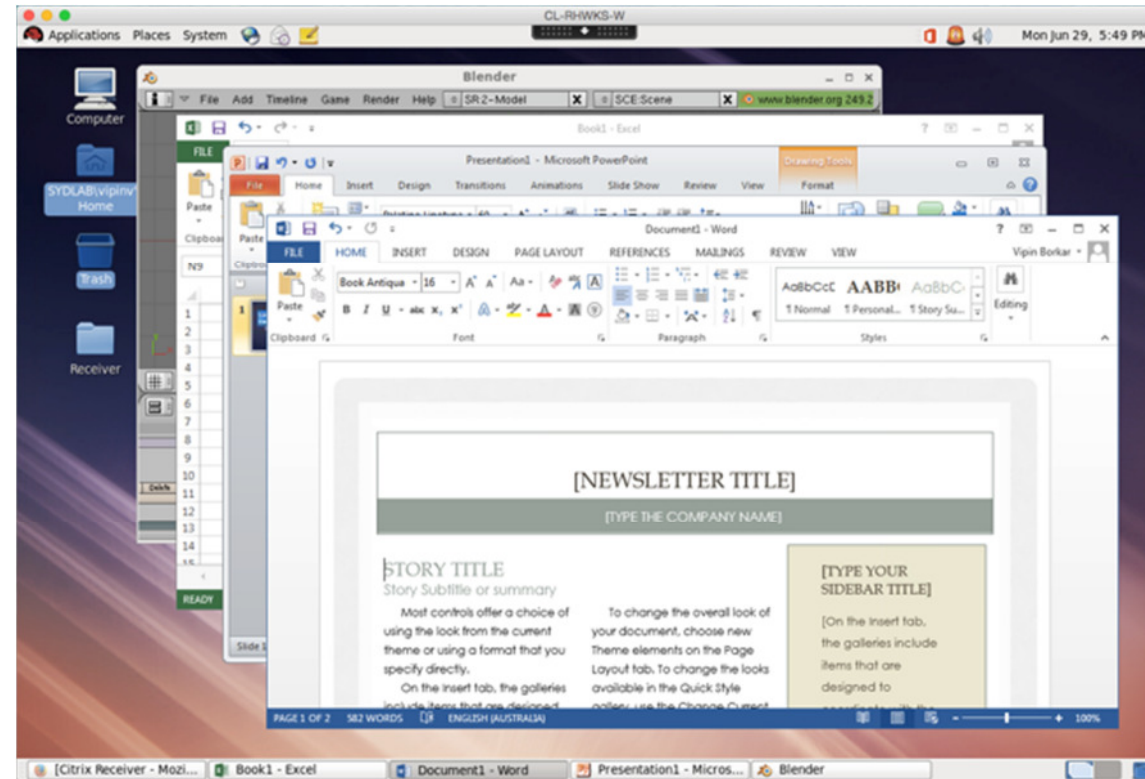


If a customer is having in-session user experience issues with Thinwire then they are a candidate for Framenhawk provided that they have sufficient network bandwidth (ideally 4-5 Mbps base bandwidth plus 100-150 Kbps per concurrent user)

Linux Virtual Desktop 1.1

Expand the use case, Enable PoC

- VDI dedicated desktop – (1.0 was XenApp-Like)
- Multi-monitor
- RHEL7/SLE 12 support
- Centrify (Domain join)
- KDE and QT based app
- Internationalization
- Double Hop Support w/Receiver 13.2.1



Seamless printing from any device

Windows Server 2012 R2 Universal Print Server & Support for Windows 10

- *50% - 80% increase in scalability*
 - *up to 100 print jobs/minute*
 - *depending on document content type*
- Printing metrics and counters
- Excellent recovery from periods of stress/overload
- Increased protection from faulty drivers



Broader Smartcard Capabilities, Faster Performance

Accelerated smartcard logons

Up to 25% faster login on LAN

New support for virtual smartcards (Microsoft TPM)

Application signature signing

Plug & Play Support

Windows 10 support

Better compatibility



Video Fallback Prevention

New HDX Policies

- Control server rendering of Flash and Windows Media
- Customize the displayed notification window (.SWF)
- Prevent Flash “small content”

The screenshot displays the Citrix HDX console interface. At the top, a browser window shows a video player with a red error message: "This media content has been prevented from playing due to policies set in place by Information Technology". Below this, three "Edit Setting" dialog boxes are overlaid, showing configuration options for video fallback prevention. The first dialog is for "Windows media fallback prevention", the second for "Flash video fallback prevention error *.swf", and the third for "Flash video fallback prevention error *.swf". Each dialog includes a "Value" field, a "Use default value" checkbox, and a "Details and related settings" section. The "Details and related settings" section for the Windows media fallback prevention dialog includes the following text: "Specify the video load management as the following: 'Not Configured': equivalent to 'Play all content'; if you do not configure this policy setting, the 'Play all content' methods are used. 'Play all content': attempt client-side content fetching, then Windows Media Redirection. If unsuccessful, play on server. 'Play all content only on client': attempt client-side fetching, then Windows Media Redirection. If unsuccessful, content will not play. 'Play only client-accessible content on client': attempt only client-side fetching. If unsuccessful, content will not play."



Denying access from jailbroken iOS devices

Receiver for iOS 6.1

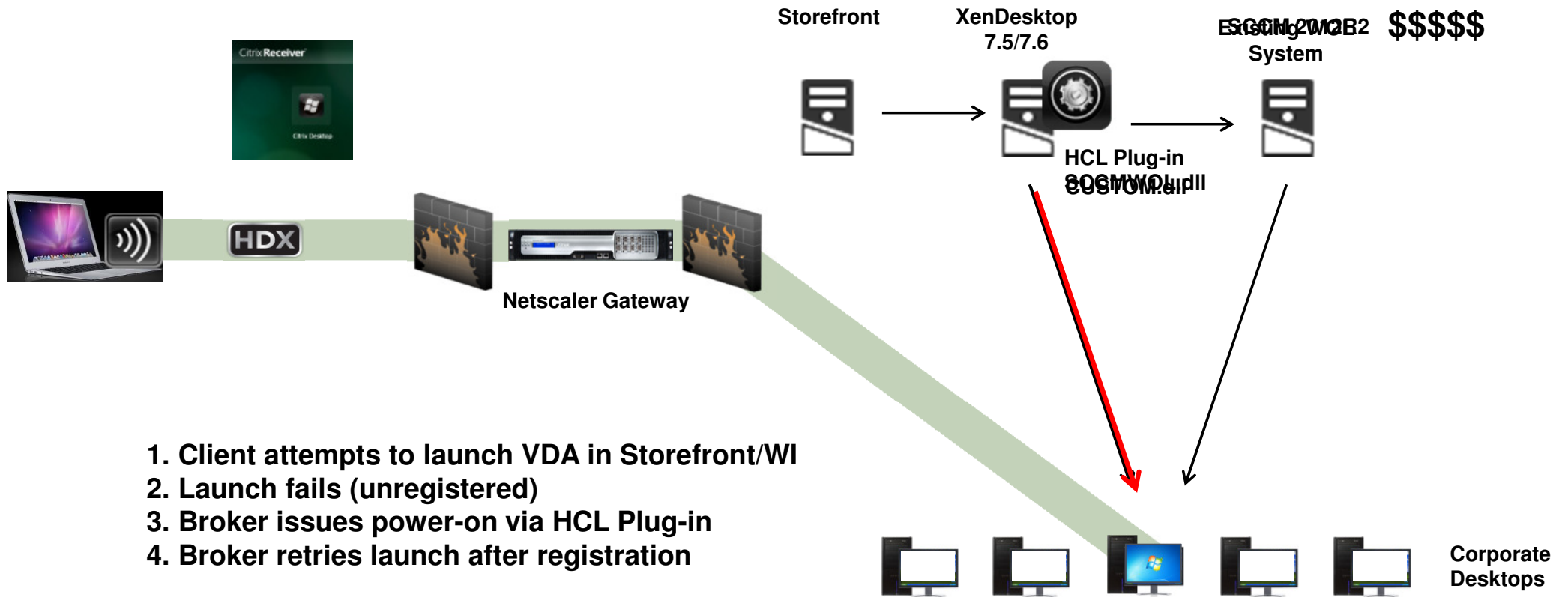
- Receiver for iOS can detect that the device that is jailbroken
- User can dismiss and continue **-OR-**
- Administrators can choose to block published access to apps and desktops
 - Administrators have to add a keyword *AllowJailBrokenDevices=False* in the default.ica file on their StoreFront or Web Interface servers.
 - Modify the default.ica files on **ALL** their StoreFront and Web Interface servers.
 - When the application or desktop is blocked the user will be shown the same Security Alert.

Security Alert

Citrix Receiver detected this device has been jailbroken and cannot be trusted to run this app securely.

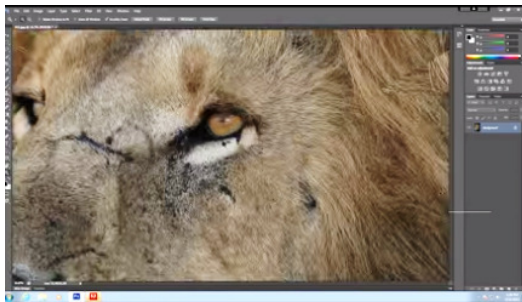
Dismiss

XenDesktop Remote PC Access Wake on LAN SDK



1. Client attempts to launch VDA in Storefront/WI
2. Launch fails (unregistered)
3. Broker issues power-on via HCL Plug-in
4. Broker retries launch after registration

Additional user experience enhancements



Full screen support for 3D Apps



4K Resolution
(Single and multi-monitor)
[CTX201696](#)

Customer Experience Improvement Program

CEIP is a project to enable Citrix to gather **Anonymous Data** regarding **Product Configuration** and **Feature Usage** from **Customer Installations**.

Where is CEIP implemented?

XenDesktop/XenApp 7.6+

Receiver for Windows 4.3+

License Server for Windows 11.12.1 build 14100+

Universal Print Server in 7.6 Feature Pack 3

AppDNA “Devilray”

XenMobile 10+



<http://blogs.citrix.com/2015/08/13/enable-ceip-and-let-your-voices-be-heard>

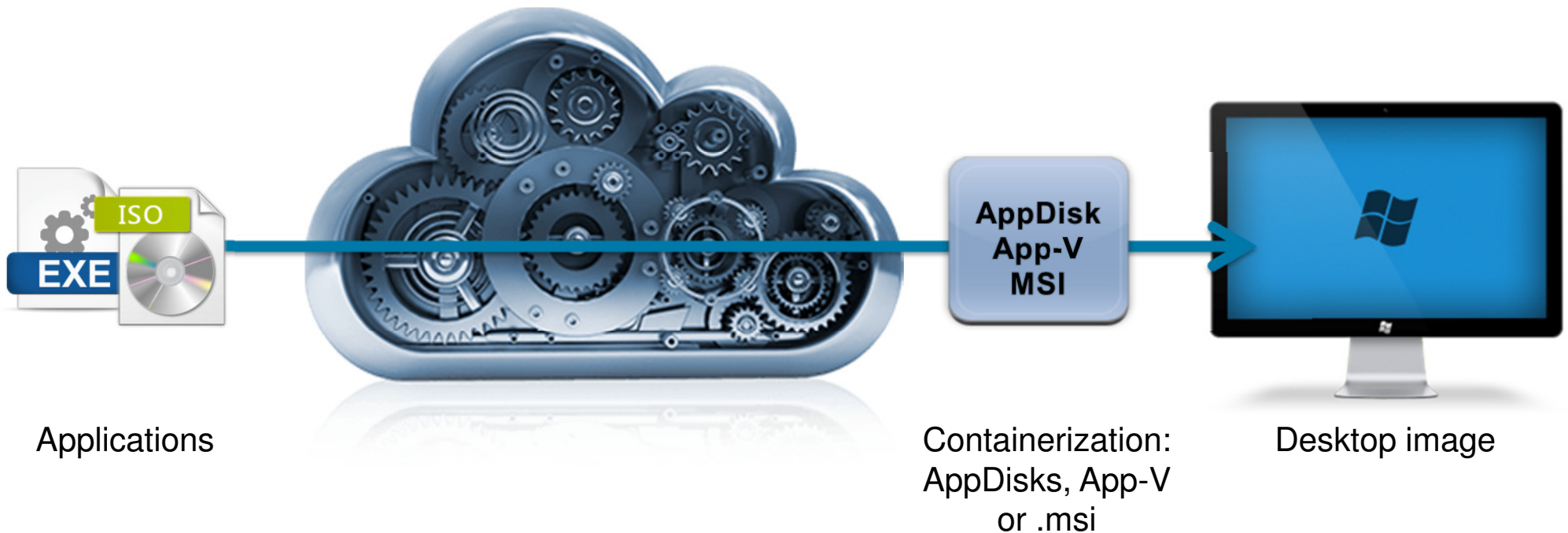


Tech Previews

Now Available! AppDisk Tech Preview

<https://www.citrix.com/downloads/xendesktop/betas-and-tech-previews/appdisks-technology-preview.html>

Intelligent app layering **analysis** and **optimization** powered by AppDNA



New! Additional TechPreview

Provisioning Services TP3

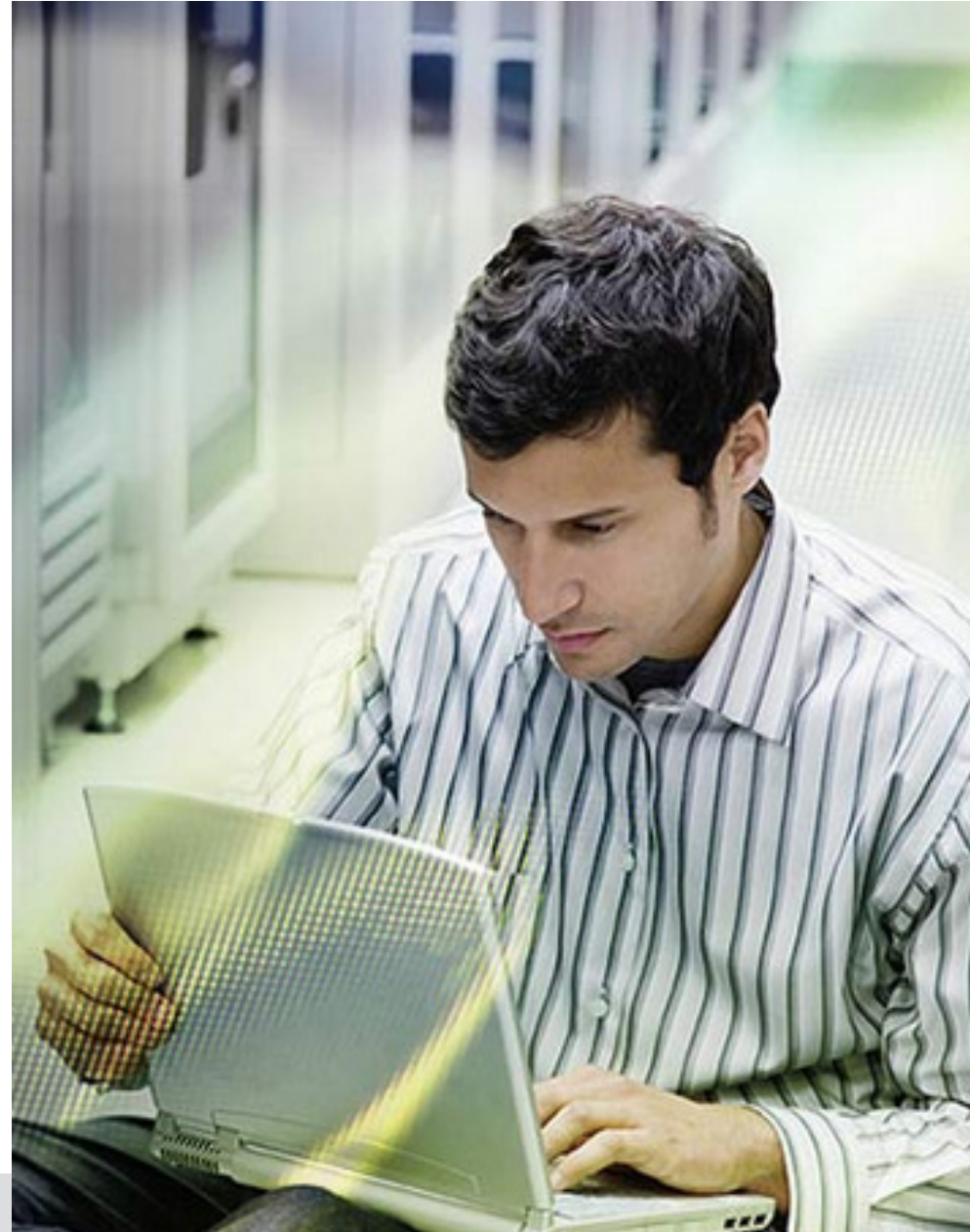
<https://www.citrix.com/downloads/xendesktop/betas-and-tech-previews/provisioning-services.html>

Storefront 3.1 TP

<https://www.citrix.com/downloads/storefront-web-interface/betas-and-tech-previews/storefront-technology-preview.html>

XenServer TP

<https://www.citrix.com/downloads/xenserver/product-software/xenserver-tech-preview.html>



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