CITRIX.



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Terminology

Terminology	
Term	Definition
Customer	Refers to (customer name) and its representatives
Citrix	Refers to Citrix Systems and its representatives
MDM	Mobile Device Management
MAM	Mobile Application Management
APNS	Apple Push Notification Service
MDX	Mobile Device Experience
ADS	Discovery service
UEM	Unified Endpoint Management
SNIP	Subnet IP
NSIP	Citrix Gateway IP
VIP	Virtual IP



Introduction

Citrix Endpoint Management delivered via Citrix Cloud provides industry leading Enterprise Mobility Management (EMM) and Unified Endpoint Management (UEM) capabilities for all business types who are looking to embrace the cloud and reduce TCO for their mobile infrastructure.

Endpoint Management is an elastic pay-as-you-go SaaS subscription which allows IT to easily secure and manage mobile devices and applications while giving users the freedom to experience work and life their way. As part of a Bring Your Own Device (BYOD) program, Endpoint Management even allows end-users to use their own personal device for access to critical corporate resources.

An assisted web-based onboarding process can have Endpoint Management up and running in a matter of hours, saving IT the time and resources required to build out the infrastructure themselves. As part of the onboarding process, Endpoint Management easily integrates with on-premises enterprise systems allowing IT to quickly gain control over mobile devices and applications.

References

This document summarizes the information you need to proceed in a smooth enablement and onboarding to Endpoint Management. Use this document to record changes for your internal processes and document the service for internal references to high-level and functional designs.

Why Endpoint Management from Citrix Cloud?

- 1. Faster deployment. Hours instead of days.
- 2. No upfront cost. Minimal to no infrastructure.
- 3. Access to new features and bug fixes before the on-premises releases.
- 4. Peace of mind. 99.9% uptime.
- 5. No co-mingling of customer data with dedicated instances.
- 6. Predictable budget.
- 7. OpEx. Pay and get value as you go.

Endpoint Management Benefits

- 1. **Citrix Cloud Connector technology** provides a secure channel for communications between Citrix Cloud and your Resource Locations. This enables cloud management without requiring any complex networking or infrastructure configurations such as VPNs or IPSec Tunnels.
- 2. Fully secure and redundant channel connecting Citrix Cloud to corporate resource locations.
- 3. **Easy deployment** without complex infrastructure configurations.
- 4. **Consistency with other Citrix Cloud services**: All Citrix Cloud services including virtualized apps and desktops have standardized on Citrix Cloud Connector for enterprise connectivity delivered with a single consistent experience.
- 5. **Provide enterprise connectivity** to customers with strict corporate security requirements that do not allow for IPSec connectivity to cloud services.
- 6. **Citrix Endpoint Management MDX Security Specifics** include FIPS compliant SSL encryption for all MDX application data at rest and in transit (FIPS Citrix Gateway on-premises required).
- 7. **Highly available architecture** including redundant database resources and disaster recovery options for every data center.
- 8. **Enterprise Integration** with LDAP, PKI and certificate services to meet security and identity requirements.



Endpoint Management Features

- **Device and OS management** including iOS, Android, Android Enterprise, Windows 10, macOS, Chrome OS, Citrix Ready workspace hub, and IoT
- Application management including MDX, Android Enterprise, Intune App Protection, Samsung KNOX, App Configuration, and more
- Business class mobile productivity apps including Secure Mail, Secure Web, Citrix Files, ShareConnect, QuickEdit
- BYOD solution including MDM-independent MAM with no device agent requirements
- Workspace Environment Management (WEM) for optimized desktop application performance
- Micro VPN for complete application data encryption and isolation
- Mobile SaaS for transparent access to all managed apps
- Microsoft Intune/EMS app protection policies integrated with Citrix Cloud console for simple Office 365 management

Endpoint Management compared to Workspace Premium

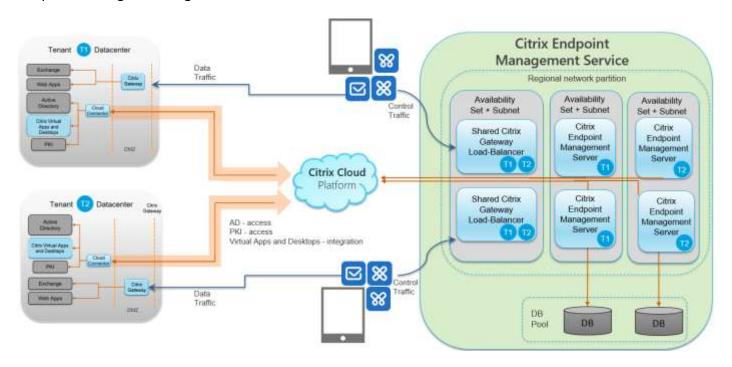
This information is current as of October 1, 2018. For the latest offerings, see https://www.citrix.com/products/citrix-workspace/.

	Citrix Endpoint Management	Citrix Workspace Premium	Citrix Workspace Premium Plus*
Access via Workspace app	✓	✓	✓
Workspace Environment Management service	✓	✓	✓
Secure Unified Endpoint Management	✓	✓	✓
Enterprise App Store	✓	✓	✓
Mobile Device Management	✓	✓	✓
Mobile Application Management	✓	✓	✓
Micro-VPN	✓	✓	✓
 Citrix mobile productivity apps (Secure Mail, Secure Web, Secure Hub, QuickEdit) 	√	✓	✓
Integration with Microsoft EMS/Intune	✓	✓	✓
Citrix Content Collaboration (ShareFile Premium - 1 TB/user*)		√	✓
Citrix Access Control (SSO, Citrix Gateway, Cloud App Control for SaaS & Web Apps, Secure Browser, web filtering)		✓	✓
Citrix Analytics Advanced for Access Control (performance and security analytics)		✓	✓
Citrix Analytics Advanced for Workspace (performance and security analytics)		✓	✓

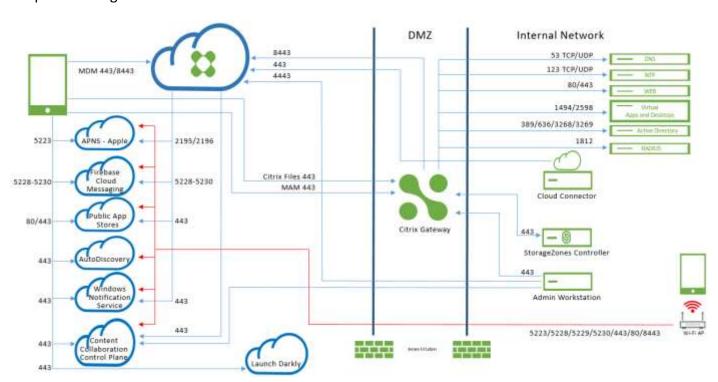
^{*} Includes Citrix Virtual Apps and Desktops, not covered in this handbook.



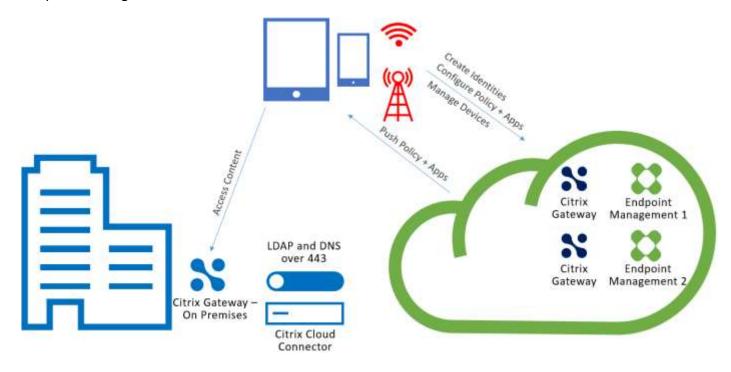
Endpoint Management High Level Architecture



Endpoint Management Traffic Flow



Endpoint Management Cloud Connector Traffic Flow





Citrix Cloud Connector Requirements

Citrix uses Cloud Connector to integrate the Endpoint Management architecture into your existing infrastructure. For Endpoint Management in production, a minimum availability of 2 cloud connectors is required. In a pilot of Endpoint Management, 1 cloud connector is sufficient. Cloud Connector supports all Endpoint Management authentication types.

Server Requirements	
A dedicated physical or virtual machine	
Windows Server 2012 R2 or Windows Server 2016	
2 vCPUs	
4 GB RAM	
50 GB Hard Disk Space	
Active Directory Domain-Joined	
Domain/Forest Functional Level – 2008 R2 or Higher	
Platform Requirements	
.NET: .NET 4.5.1 or later	
Internet Connectivity	
Clock set to the correct UTC time	



Installation Requirements

You can only install the Connector onto a domain-joined machine. The installer will not allow the install to occur if it is not on a domain-joined machine.

The machine where you are installing the connector needs to be in sync with UTC time for proper installation and operation. Switch Enhanced Security Configuration (ESC) off during installation.

Check if the required .NET version is installed. If it isn't, install the required version as described in the Citrix Cloud Connector Requirements table in this document

Copy the installer (CWCConnector.exe) to the server and run it. Make sure your browser allows the download of executable files.

You cannot install the Connector on machine templates cloned across multiple machines. Do a separate install of the Connector onto all machines.

Have outbound access to the internet through TCP port 443 (https).

For detailed technical information about Cloud Connector servers, see: https://docs.citrix.com/en-us/citrix-cloud/citrix-cloud-connector.html.

Citrix Gateway Requirements

A Citrix Gateway is required in your resource location if you require a micro VPN for either or both of the following scenarios:

- Access to internal network resources for line-of-business applications wrapped with our MDX technology and connecting to internal backend infrastructures.
- The use of Citrix mobile productivity apps, such as Citrix Secure Mail, for making email securely available to your users.

Many Endpoint Management production licenses entitle you to 2 VPX 3000 Citrix Gateways. Depending on your deployment scenario, user personas, and functional requirements, a different Citrix Gateway might be required. Contact your sales rep for additional information.

Citrix Gateway Service Requirements		
Citrix Workspace experience enabled		
Citrix Gateway service subscription		
Gateway Connector installed on-premises in a resource location		
Citrix Gateway Requirements (on-premises)		
New Deployment – VPX 3000 series or greater		
Existing Citrix Gateway deployments are supported – with a new Citrix Gateway vi	rtual server required	
2 - 4 vCPUs		
Recommended 4 GB per vCPU		
20 GB Hard Disk Space		
Citrix Gateway Platform Requirements		
Citrix Gateway Subnet IP Address (SNIP)		
Citrix Gateway Management IP Address (NSIP)		
Citrix Gateway Internal FQDN		
LDAP (Active Directory) Service Account		
Citrix Gateway MAM Requirements		
Citrix Gateway Public IP Address (VIP)		
Public DNS Name – Example: http://mam.company.com		
Public SSL certificate 2048-bit key		
Proxy Load Balance IP (Internally NOT Routable – RFC1918)		

Citrix Gateway Requirements for Citrix Content Collaboration

Public DNS Name – Example: http://ShareFile.company.com

Citrix Gateway Public IP Address (VIP)

Customer Infrastructure Components

Infrastructure Components Reference Table

Pilot phases.

DNS Server IP Address

Public SSL certificate 2048-bit key

C	П	Э.	М
_	-		•

Citrix Content Collaboration Public FQDN (http://mycompany.sharefile.com)	Requested in Citrix Content Collaboration Trial	
Citrix Content Collaboration storage zones controller Internal IP Address		
Citrix Content Collaboration Requirements Citrix Content Collaboration is a cloud-based file sharing service that enables users to Content Collaboration enables users to send large documents by email, securely ha access a collaboration space from desktops or mobile devices. Content Collaboration work, including a web-based interface, mobile clients, desktop tools, and integration Content Collaboration storage zones controller extends the Content Collaboration sproviding your Content Collaboration account with private data storage.	ndle document transfers to third in provides users with a variety on muith Microsoft Outlook.	d parties, and of ways to
Content Collaboration Storage Zones Controller Requirements		
A dedicated physical or virtual machine		
Windows Server 2012 R2 or Windows Server 2016		
2 vCPUs		
4 GB		
50 GB Hard Disk Space		
Content Collaboration Storage Zones Controller Server Role Requirements		
Web Server (IIS)		
Application Development: ASP.NET 4.5.2		
Security: Basic Authentication		
Security: Windows Authentication		
Content Collaboration Platform Requirements		
The Citrix Files app installer requires administrative privileges on the Windows Server		
Content Collaboration Admin User name		

DNS Server FQDN

Proxy Server for Outgoing Traffic

Proxy Authentication needed?

Proxy Server for Incoming Traffic

When implementing an Endpoint Management infrastructure with secure connectivity to your internal network: The Citrix Gateway on-premises and Endpoint Management in the Cloud need to communicate with the internal network resources listed in the below table. You can record your information in the following table for reference during the preparation, onboarding, and

C	П	R	ж
_	_	_	-

Proxy Authentication needed?	Yes/No	
Active Directory Server Internal IP Address		
Active Directory Server Internal FQDN		
Active Directory Server Port		
AD Server SSL Certificate – max 2048-bit key		
Active Directory Domain Name		
Active Directory User Base DN		
Active Directory Search User ID		
Active Directory Search User Password is known and tested		
SMTP Server External IP		
SMTP Server External FQDN		
SMTP Server Port		
SMTP Relay User name (if needed)		
SMTP Relay User Password is known and tested (if needed)		
Exchange Internal IP Address		
Exchange Internal FQDN		
Exchange Server Port		
Exchange Server SSL Cert – max 2048-bit key		
SharePoint Server Internal IP (if needed)		
SharePoint Server Internal FQDN		
SharePoint Server Port		
All FQDNs are tested, including reverse lookup	Yes/No	



Network and Firewall Requirements

To enable devices and apps to communicate with Endpoint Management, you open specific ports in your firewalls. The following tables list the ports that must be open.

Open ports from Internal Network to Citrix Cloud					
TCP port	Description	Source IP	Destination	Destination IP	
443	Cloud Connector		https://*.citrixworkspacesapi.net https://*.cloud.com (commercial) https://*.cloud.us (government) https://*.sharefile.com https://cwsproduction.blob.core.wind ows.net/downloads https://*.servicebus.windows.net		
4443	Administrative Console		https://*.citrixworkspacesapi.net https://*.cloud.com (commercial) https://*.cloud.us (government) https://*.citrix.com https://*.blob.core.windows.net		

Open ports from Internet to DMZ					
TCP port	Description	Source IP	Destination	Destination IP	
443	Endpoint Management Client Device		Citrix Gateway IP		
443	Endpoint Management Client Device		Citrix Gateway VIP Content Collaboration		
443	Content Collaboration Public IP	CTX208318	Citrix Gateway VIP Content Collaboration		
443	StoreFront		Citrix Gateway IP		

Open ports	from DMZ to Internal				
TCP port	Description	Source IP	Destination	Destination IP	
389 or 636	Citrix Gateway NSIP (or, if using a load balancer, SNIP)		LDAP/Active Directory IP		
53 (UDP)	Citrix Gateway SNIP		DNS Server IP		
443	Citrix Gateway SNIP		Exchange (EAS) Server IP		
80/443	Citrix Gateway SNIP		Internal Web Apps/Services		
443	Citrix Gateway SNIP		Content Collaboration Storage Zones Controller IP		
123	Citrix Gateway SNIP		NTP server		
1494	Citrix Gateway SNIP		Virtual Apps and Desktops		
1812	Citrix Gateway NSIP		RADIUS Authentication Server		
2598	Citrix Gateway SNIP		Virtual Apps and Desktops		
3268	Citrix Gateway NSIP		Secure Global Catalog Server		
3269	Citrix Gateway NSIP		Global Catalog Server		



Open ports from Internal to DMZ					
TCP port	Description	Source IP	Destination	Destination IP	
443	Admin Client		Citrix Gateway NSIP		

Open ports from DMZ to Internet					
TCP port	Description	Source IP	Destination	Destination IP	
8443	Citrix Gateway SNIP		Endpoint Management Cloud		
443	Citrix Gateway		Launch Darkly		

Open ports	Open ports from Internal to Internet				
TCP port	Description	Source IP	Destination	Destination IP	
443	Exchange (EAS) Server IP		Endpoint Management Push Notification Listener (us-east- 1.mailboxlistener.xm.citrix.com) (eu-west- 1.mailboxlistener.xm.citrix.com) (ap-southeast- 1.mailboxlistener.xm.citrix.com)		
443	Content Collaboration Storage Zones Controller IP		Content Collaboration Control Plane	CTX208318	

Open p	orts from Corporate	Wi-Fi to Intern	net		
TCP port	Description	Source IP	Destination	Destination IP	
5223	Endpoint Management Client Device		Apple APNS Servers	17.0.0.0/8	
5228	Endpoint Management Client Device		Firebase Cloud Messaging	android.apis.google.com, cm.googleapis.com	
5229	Endpoint Management Client Device		Firebase Cloud Messaging	android.apis.google.com, cm.googleapis.com	
5230	Endpoint Management Client Device		Firebase Cloud Messaging	android.apis.google.com, cm.googleapis.com	
443	Endpoint Management Client Device		Windows Push Notification Service	*.notify.windows.com	
443 / 80	Endpoint Management Client Device		Apple iTunes App Store	ax.itunes.apple.com *.mzstatic.com vpp.itunes.apple.com	
443 / 80	Endpoint Management Client Device		Google Play	play.google.com, android.clients.google.com, android.l.google.com, android.com, google- analytics.com	
443	Endpoint Management Client Device		Firebase Cloud Message	cm.googleapis.com	



443 / 80	Endpoint Management Client Device	Microsoft App Store	login.live.com, *.notify.windows.com	
443	Endpoint Management Client Device	Endpoint Management discovery service	ads.xm.cloud.com (Secure Hub versions supported as of January 1, 2019)	
8443 / 443	Endpoint Management Client Device	Endpoint Management		
443	Content Collaboration Storage Zones Controller IP	Content Collaboration Control Plane	CTX208318	
443	Endpoint Management Client Device	Google Mobile Management, Google APIs, Google Play Store APIs	*.googleapis.com	
443	Endpoint Management Client Device	Connectivity check prior to CloudDPC v470. Android connectivity check starting with N MR1 requires for https://www.google.com/generate_204 to be reachable, or for the given Wi-Fi network to point to a reachable PAC file)	connectivitycheck.android.com, www.google.com	

Network requirements for Android Enterprise

For more information on Android Enterprise network and port requirements, see https://docs.citrix.com/en-us/citrix-endpoint-management/system-requirements.html#android-enterprise-network-requirements

Port requirement for discovery service connectivity

This port configuration ensures that Android devices connecting from Secure Hub for Android can access the Citrix discovery service from within the internal network. The ability to access the discovery service is important when downloading any security updates made available through the discovery service.

Note: ADS connections might not support your proxy server.
In this scenario, allow the ADS connection to bypass the proxy server.

Port requirements for Citrix Gateway

For more information on Citrix Gateway port requirements, see https://docs.citrix.com/en-us/citrix-endpoint-management/system-requirements.html#citrix-gateway-port-requirements

Certificate Pinning Prerequisites

If you want to enable certificate pinning, complete the following prerequisites:

- Collect Endpoint Management server and Citrix Gateway certificates. The certificates must be in PEM format and must be a public certificate and not the private key.
- Contact Citrix Support and place a request to enable certificate pinning. During this process, you are asked for your certificates.

Certificate pinning requires that devices connect to discovery service before the device enrolls. This requirement ensures that the latest security information is available to Secure Hub. For Secure Hub to enroll a device, the device must reach the discovery service. Therefore, opening the discovery service access within the internal network is critical to enabling devices to enroll.



To allow access to the discovery service for Secure Hub for Android, open port 443 for the following FQDN and IP addresses:

Port requirement for discovery service connectivity						
FQDN	IP Address	Port	IP and Port Usage			
ads.xm.cloud.com (Secure Hub versions supported as of January 1, 2019); (discovery.mdm.zenprise.com (Secure Hub 10.6.15 and older)	52.5.138.94	443	Secure Hub - ADS Communication			
ads.xm.cloud.com (Secure Hub versions supported as of January 1, 2019); (discovery.mdm.zenprise.com (Secure Hub 10.6.15 and older)	52.1.30.122	443	Secure Hub - ADS Communication			
ads.xm.cloud.com	34.194.83.188	443	Secure Hub - ADS Communication			
ads.xm.cloud.com	34.193.202.23	443	Secure Hub - ADS Communication			



Google/Apple/Microsoft Requirements

Apple					
Apple Push Certificate		http://identity.apple.com			
Google					
Google Play Account	https://accounts.google.com/signup				
Google Play Device ID	http://docs.citrix.com/en-us/endpoint-management/provision-devices/google-play-credentials.html On a device with no sim (dial pad), install the Device ID app: https://play.google.com/store/apps/details?id=com.redphx.deviceid				
Microsoft					
Windows Store developer account	https://msdn.microsoft.com/en-us/library/windov	vs/apps/jj863494.aspx			
Windows Store Publisher ID.	https://msdn.microsoft.com/en-us/library/windov	vs/apps/hh967786.aspx			
Enterprise certificate from Symantec https://msdn.microsoft.com/library/windows/apps/jj206943.aspx					
Public SSL certificate for		http://docs.citrix.com/en-us/endpoint-management/provision-			
discovery service	<u>devices/autodiscovery.html</u>				
Application Enrollment	https://msdn.microsoft.com/en-				
Token (AET)	Token (AET) us/library/windows/apps/ii735576%28v=vs.105%29.aspx				

For more detailed information on the supported mobile platforms for Endpoint Management, see https://docs.citrix.com/en-us/citrix-endpoint-management/system-requirements/supported-device-platforms.html



Deployment Use Cases

Below are the various deployment use cases which are feasible with Endpoint Management.

Citrix Endpoint Management and Citrix Gateway on Enterprise

Citrix Endpoint Management and Citrix Gateway on Enterprise for Mobile App Management

Citrix Endpoint Management and Citrix Gateway on Enterprise for Mobile App Management with Citrix Content Collaboration for Enterprise File Sharing

Citrix Endpoint Management for Mobile Devise Management

For more detailed information on the deployment use cases, see the Citrix Support Article https://support.citrix.com/article/CTX223709 or this white paper: https://citrix.sharefile.com/d-sba63ccb1290430ca.

Deployment Scenarios

Scenario	Use Case Example
	BYOD or company issued
	Medium Security/privacy requirements
	Native or Secure email
	View/edit email attachments
Citrix Endpoint	Already have a solution for EFSS
Management	Need secure off-the-shelf apps
	Looking into developing own mobile apps
	-or-
	Company owned, shared device
	"Kiosk," for example, an iPad used by warehouse workers for inventory
	BYOD or company issued
	High security/privacy requirements
	Secure email
Markenaca Dramium	View/edit email attachments
Workspace Premium	Need to solve EFSS
	Need secure off-the-shelf apps
	Need to secure several internally developed mobile apps
	Can't store any data on mobile device



Endpoint Management MDM Pilot Test Cases Example

This section lists example test cases and categories specific to device management. The test results should be recorded here for future reference and audit purposes.

Pilot MDM Test Matrix

Secure Hub Version	iOS =	Android=	Windows=
Endpoint Management Version	10.x		
Citrix Gateway Version	10.x		

Test Cases	Category	Expected Result	Result	
From Secure Hub, enroll using an Enrollment URL Invitation and a	Enrollment	The ability to use a unique URL to enroll into the system without requiring AD credentials		
one-time PIN number From Secure Hub, enroll		The ability to enroll into Endpoint Management and have policies and profiles sent down automatically		
to the XM Service using Active Directory credentials		The ability to use a single app on each platform to enroll and subsequently control MDM policies		
Via the XM Service Administration console, define and deploy policies that will secure the device	Security Policies	The ability to provision security policies, such as enforcing a passcode and setting restrictions		
Via the XM Service Administration console,	Provisioning Policies	The ability to provision Wi-Fi, VPN, Email and Proxy policies		
define and deploy policies that will aid the user and simplify the configuration of the device	, sileies	The ability to issue certificates to the device, including user- based certificates that can be used as credentials		
		The ability to deliver apps (in-house or from a public App Store) to the device.		
Via the XM Service Administration console,	Operational Supportability/	The ability to determine device status, inventory, software inventory and MDM policy deployment status		
understand the current state of a device	Administration	The ability to locate devices		
Test the support functionality within	Support	The ability to use Secure Hub to determine why the device might be out of compliance		
Secure Hub		The ability to automatically collect logs from the device and send to the helpdesk		
		The ability to initiate a live chat session with a helpdesk operator		
Via the XM Service Administration console, remotely de-provision	De-provisioning	The ability to perform a selective wipe remotely and to remove from the device the provisioned policies, apps and data		
devices		The ability to perform a full wipe (factory reset)		
		The ability to revoke a device to remove the provisioned profiles, apps and data and prevent the device from being enrolled again		



Citrix mobile productivity apps/MDX Pilot Test Cases Example

This section lists example test cases and categories specific to device management. The test results should be recorded here for future reference and audit purposes.

Pilot Citrix mobile productivity apps /MDX Test Matrix

Secure Hub Version	iOS =	Android=	Windows=
Endpoint Management Version	10.x		
Citrix Gateway Version	10.x		

Test	Success Criteria	iOS	Andro	oid	Win10	0
Post Enrollment Gateway Logon	When Secure Hub 'flips' from enrollment to Citrix Gateway, the user should not need to re-enter credentials				N/A	N/A
Citrix PIN Creation	User should be prompted to create a 6-digit Citrix PIN				N/A	N/A
Endpoint Management app store	User can access Endpoint Management app store from within Secure Hub and is entitled to Secure Web, Secure Mail, Secure Tasks, Secure Edit, Secure Notes and Citrix Files				N/A	N/A
Secure App Installs	Secure Web, Secure Mail, Secure Tasks, Secure Edit, Secure Notes and Citrix Files can all be installed				N/A	N/A
Collect Secure Hub Logs	Swipe right within Secure Hub to the Support Page and then tap Secure Hub				N/A	N/A
Inactivity Timer <15 Minutes	Launch Secure Web and authenticate if required. Leave device unattended for 10 minutes, then attempt to access Secure Web. Secure Web should open without requiring Citrix PIN				N/A	N/A
Inactivity Timer >15 Minutes	Launch Secure Web and authenticate if required. Leave device unattended for 18 minutes, then attempt to access Secure Web. Secure Web should prompt for Citrix PIN before opening.				N/A	N/A
MDX App Wipe	After admin sends an MDX App Wipe command via the console, user data is removed from all Citrix mobile productivity apps				N/A	N/A