## Citrix Workspace App (Earlier known as Citrix Receiver) Feature Matrix

**Updated 7/30/2021**

### Supported Version of OS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Windows 2017</th>
<th>Windows Store</th>
<th>Windows 1912 LTSR</th>
<th>Linux 2106</th>
<th>Mac 2017</th>
<th>iOS 2107.5</th>
<th>Android 2107.5</th>
<th>HTML5 2105.6</th>
<th>Chrome-OS 2106.1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Win 10</td>
<td>Win 10</td>
<td>Win 7-10</td>
<td>Multiple</td>
<td>10.15 and above</td>
<td>11 and above</td>
<td>7.0 and above</td>
<td>Chrome/Firefox</td>
<td>(E10+) Safari</td>
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<td>latest</td>
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</tbody>
</table>

### Citrix Workspace

- **Citrix Virtual Apps**
- **Citrix Virtual Desktops**
- **Citrix Content Collaboration (Citrix Files)**
- **Citrix Access Control Service**
- **Citrix Workspace Browser**
- **SSO/Websso with SSO**
- **Citrix Mobile Apps**

### Endpoint Management

- **Auto configure using DNS for Email Discovery**
- **Centralized Management Settings**
- **App Store Updates - Citrix Auto updates**
- **Desktop Viewer/Toolbar**

### UI

- **Multi-tasking**
- **Follow Me Sessions (Workspace Control)**
- **Desktop Viewer/Toolbar**

### HDX Host Core

- **Adaptive transport**
- **SDWAN support**
- **Auto-client Reconnect**
- **URL redirection**
- **Browser content redirection**
- **Multiport ICA**

### HDX IO / Devices / Printing

- **Local Printing**
- **Generic USB Redirection**
- **Client drive mapping / File Transfer***

### HDX Integration

- **Local App Access**
- **Multi-touch**
- **Mobility Pack**
- **HDX Insight with NEAP VC**
- **EUEM Experience Matrix**
- **Session Sharing**
- **Audio Playback**
- **Bi-directional Audio (VoIP)**
- **Video playback**
- **Flash redirection**
- **Microsoft Teams Optimization**
- **Skype for business Optimization pack**
- **Cisco Jabber Unified Communications Optimization**
- **Windows Multimedia redirection**
- **UDP Audio**

### HDX Multi-media

- **TLS 1.2**
- **DTLS 1.0/1.1**
- **DTLS 1.2**
- **SHACert**
- **Smart Access**
- **Remote Access via Citrix Gateway**
- **Workspace for Web Access**
- **IPv6**
- **H.264-enhanced SuperCodec**
- **Client hardware acceleration**
- **IDPro Graphics**
- **Desktop Composition redirection**
- **True Multi Monitor**
- **Location Based Services (Location available via API-description)**
### Feature Definitions

**Citrix Workspace Aggregation**
- **Citrix Virtual Apps**: Access Citrix Virtual Apps formerly known as XenApp hosted applications.
- **Citrix Virtual Desktops**: Access Citrix Virtual Desktops formerly known as XenDesktop virtual desktops.
- **Citrix Content Collaboration (Citrix Files)**: Access Citrix Files formerly known as Citrix ShareFile.
- **Citrix Access Control Service**: With the Access Control service IT administrators can govern access to approved SaaS apps with a simplified single sign-on experience administrators can also protect the organization’s network and end user devices from malware and data leaks by filtering access to specific websites and website categories.
- **Citrix Workspace Browser**: Embedded Browser engine inside Citrix Workspace app to deliver SaaS and WebApps securely.
- **SaaS/Web Apps with SSO**: Access SaaS/Web Apps configured using NetScaler Gateway Service with SSO.
- **Citrix Mobile Apps**: Access Citrix Mobile Apps aggregated by Citrix Endpoint Management formerly known as XenMobile.
- **Citrix Mobile App Upgrades**: Access Citrix Mobile Apps aggregated by Citrix Endpoint Management formerly known as XenMobile.
- **Intelligent Workspace features**: Workspace intelligent features give users a single unified experience with microapps, notifications, actions, workflows and virtual assistant to guide and automate the work, in addition to apps, desktop and files. For Workspace app on platforms that do not support this, you can use workspace app for web from your browser.

**Auto Discovery/Configuration**
- **Auto configure using DNS for Email Discovery**: Enable Citrix Workspace app to be configured via auto discovered settings.
- **Centralized Management Settings**: App setting from a centralized service e.g.: Google chrome management or GPOs.

**App Store Updates / Citrix Auto updates**
- Updates from vendor application store and for Windows and Mac through Citrix Auto-upgrade functionality.
For access to detailed feature descriptions, please visit the Citrix documentation or contact our support team.

- **UI**: Desktop Viewer/Toolbar
  - Enables session control of session functions like sending Ctrl+Alt+Del via a toolbar.

- **Multi-tasking**: Enable multiple apps and desktop to be used at the same time.

- **Follow Me Sessions (Workspace Control)**: Allows users to move between devices and automatically connect to all of their sessions.

- **HDX Host Core**: Adaptive transport
  - Enables EID transport for HDX for improved throughput independent of network conditions.

- **Session reliability**: Keeps sessions active and on the user's screen when network connectivity is interrupted.

- **Auto-client Reconnect**: Prompts and reconnects the session on connection interruption.

- **URL redirection**: Allows running of applications locally on client.

- **File open in Citrix Workspace app**: Allows opening a local file in Citrix Workspace app using hosted application (Client to Server Content Redirection).

- **Browser content redirection**: Enables an entire webpage (a browser’s viewport) to be redirected to the endpoint for local rendering, offloading.

- **Multisport ICA**: Allows support for multiple TCP ports for HDX traffic to improve the quality of service.

- **HDX IO / Devices / Printing**: Local Printing
  - Enables users to print documents via shared or local printers. In case of Workspace app for Chrome we support.

- **Client drive mapping / File Transfer**: Enables use of client drives inbuilt or attached for data storage.

- **Local App Access**: Access the local application on client device inside the session.

- **Multi-touch**: Enables ten finger multi-touch control of Windows/Linux desktops and apps.

- **Mobility Pack**: Enables native device experience features (e.g., auto popup keyboard and local device UI controls) and tablet-optimized desktops.

- **HDX Insight**: Provides visibility into the session startup/ends times using ICA network performance metrics.

- **HDX Insight with NSAP VC**: Provides visibility into the session startup/ends time using NetScaler App Experience or NSAP Virtual channel to get HDX insights.

- **EUEM Experience Matrix**: Provides Citrix administrators visibility into the logon duration metrics via Citrix Virtual Desktop formerly known as XenDesktop 7 Director.

- **Session Sharing**: Enables published application to be executed over the same connection as other published applications when already running on the same server.

- **Audio Playback**: Enables server rendered audio playback.

- **Bi-directional Audio (VoIP)**: Enables use of hosted softphone / voice chat collaboration applications.

- **Web-cam redirection**: Enables use of video chat collaboration applications using a local webcam.

- **Flash redirection**: Enables Flash content to be rendered using a local Flash Player.

- **Microsoft Teams Optimization**: Offloads Microsoft Teams media processing from the Citrix server to the user device.

- **Skype for business Optimization**: Offloads Skype for business media processing from the Citrix server to the user device. In case of Workspace app for Android we support only on Chrome devices.

- **Cisco Jabber Unified Communications Optimization**: Offloads Jabber media processing from the Citrix server to the user device.

- **Windows Multimedia redirection**: Enables Windows Multimedia to be rendered on the user device, offloading the server.

- **UDP Audio**: Support for audio input and output over UDP.


- **Client hardware acceleration**: Enables hardware acceleration for HDX features like graphics, webcam etc. The leverage of hardware capability vary with different Citrix Workspace apps.

- **3DPro Graphics**: Enables use of 3D professional graphics applications hosted in the data center.

- **External Monitor Support**: Enables use of an external monitor.

- **Desktop Composition redirection**: Enables graphics command remoting to client for rendering to ensure server scalability. Depreciated in Receiver for Mac 12.9 release.

- **True Multi Monitor**: XenApp: XenDesktop creates the same number of monitors as supported by the client.

- **Location Based Services (Location available via API)**
  - Enables location informations to be used by applications delivered by Citrix Virtual Desks earlier known as XenDesktop.

- **Security**: TLS 1.2
  - Successor to SSL, strong communication channel security.

  TLS 1.0/1.1
  - Successor to SSL, strong communication channel security.

  DTLS 1.0
  - DTLS is a derivation of SSL protocol. It provides the same security services (integrity, authentication and confidentiality) but under UDP protocol.

  DTLS 1.2
  - DTLS is a derivation of SSL protocol. It provides the same security services (integrity, authentication and confidentiality) but under UDP protocol.

  SHA2 Cert
  - Ability to use SHA2 Certificates.

  Smart Access
  - Controls access to available applications through the use of NetScaler Gateway policies and filters.

  Remote Access via Citrix Gateway (NetScaler Gateway)
  - Provides users with secure access to enterprise applications, virtual desktops, and data anywhere without a VPN client.

  Workspace for Web Access
  - Access to hosted applications or virtual desktops using a browser.

  IPv6
  - Enables use on IPv6 networks.
<table>
<thead>
<tr>
<th><strong>Authentication</strong></th>
<th><strong>Description</strong></th>
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<tbody>
<tr>
<td>Federated Authentication (SAML/Azure AD)</td>
<td>Enables FAS server the authentication of a user to be delegated to the Microsoft ADFS server (or other SAML-aware IdP) either by Azure AD or SAML.</td>
</tr>
<tr>
<td>NetScaler Full VPN</td>
<td>Builds full VPN tunnel for NetScaler Gateway.</td>
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<tr>
<td>RSA Soft Token</td>
<td>Enables simplified authentication when using RSA Soft Tokens.</td>
</tr>
<tr>
<td>Challenge Response SMS (Radius)</td>
<td>Enables use of challenge response authentication for example the use of SMS passcodes.</td>
</tr>
<tr>
<td>User Cert Auth via NetScaler Gateway (via Browser Only)</td>
<td>Enable use of users certificates as one factor for authentication with NetScaler Gateway. This is for browser based authentication on Windows and Linux.</td>
</tr>
<tr>
<td>Smart Card (CAC, PIV Etc.)</td>
<td>Enable use of standard PC/SC compatible cryptographic smart card for authentication and signing.</td>
</tr>
<tr>
<td>Proximity/Contactless Card</td>
<td>Enable users to use Citrix applications or Desktops by authenticating with proximity or contactless smart card.</td>
</tr>
<tr>
<td>Credential Insertion (E.g.: Fast Connect, StoreBrowse)</td>
<td>Enable users to use Citrix applications or Desktops by authenticating with proximity or contactless smart card. Storebrowse is a command-line utility tool available with Citrix Workspace app for Windows that you can use to customize Citrix Workspace app by scripting the storebrowse utility.</td>
</tr>
<tr>
<td>Pass Through Authentication</td>
<td>User credentials are passed to a Web Interface site and then to the Citrix Virtual Apps and Desktops formerly known as XenApp/XenDesktop servers, preventing users from having to explicitly authenticate at any point during the Citrix application launch process.</td>
</tr>
<tr>
<td>Save credentials <em>(on prem and only SF)</em></td>
<td>Enables save credentials for on-prem and only using Citrix storefront.</td>
</tr>
<tr>
<td>Netscaler Native OTP</td>
<td>NetScaler Gateway supports one-time passwords (OTPs) without having to use a third-party server, by keeping the entire configuration on the NetScaler appliance.</td>
</tr>
<tr>
<td>NetScaler nFactor Authentication</td>
<td>nFactor authentication enables dynamic authentication flows based on the user profile. In some cases, these could be simple flows to be intuitive to the user. The minimum version of NetScaler required is 12.1.49.x</td>
</tr>
<tr>
<td>Biometric Authentication (Touch ID, Face ID..)</td>
<td>Enables Bio-metric Authentications such as Touch ID and Face ID.</td>
</tr>
<tr>
<td>Single Sign-On to Citrix Files App</td>
<td>Enables Single-Sign-on to Citrix Files app formerly known as Sharefile.</td>
</tr>
<tr>
<td>Single Sign on to Citrix Mobile apps</td>
<td>Enables Single-Sign-on to Citrix Files app formerly known as Sharefile.</td>
</tr>
<tr>
<td>Anonymous Authentication</td>
<td>Support access for unauthenticated (anonymous) users.</td>
</tr>
</tbody>
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<tr>
<th><strong>Keyboard Enhancements</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Keyboard Layout Synchronization with Windows VDA</td>
<td>Keyboard layout synchronization enables users to switch among preferred keyboard layouts on the client device and the same keyboard layout gets automatically set on the Windows VDA.</td>
</tr>
<tr>
<td>Client IME Enhancements with Windows VDA</td>
<td>Enhanced Client IME usability and improved seamless experience for Windows VDA.</td>
</tr>
<tr>
<td>Language Bar Show/Hide with Windows VDA Applications</td>
<td>Users can choose to show or hide the remote language bar in a Windows VDA application session using the graphical user interface. The language bar displays the preferred input language in a session.</td>
</tr>
<tr>
<td>Option Key mapping for server-side IME input mode on Windows VDA</td>
<td>Provides keyboard mappings for server-side Windows IME input mode keys that are not available on Client keyboards. Here the Option key on the Client is mapped to the server-side IME input mode keys.</td>
</tr>
<tr>
<td>Dynamic Keyboard Layout Synchronization with Linux VDA</td>
<td>Automatically synchronizing the keyboard layout of the Linux VDA with that of the client device. Anytime the keyboard layout on the client device changes, the layout on the VDA follows suit.</td>
</tr>
<tr>
<td>Client IME Enhancements with Linux VDA</td>
<td>Enhanced Client IME usability and improved seamless experience for Linux VDA.</td>
</tr>
<tr>
<td>Language Bar support for Linux VDA Applications</td>
<td>Language bar helps users to select a server-side IME and to switch between server-side keyboard layouts during Linux VDA application sessions.</td>
</tr>
</tbody>
</table>

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