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Updated 3/9/2022
### Feature Definitions

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<th>Endpoint Management</th>
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<tr>
<td><strong>Citrix Virtual Apps</strong></td>
<td><strong>Auto configure using DNS for Email Discovery</strong></td>
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<tr>
<td>Access Citrix Virtual Apps formerly known as XenApp hosted applications.</td>
<td>Enable Citrix Workspace app to be configured via auto discovered settings.</td>
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<tr>
<td><strong>Citrix Virtual Desktops</strong></td>
<td><strong>Centralized Management Settings</strong></td>
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<tr>
<td>Access Citrix Virtual Desktops formerly known as XenDesktop virtual desktops.</td>
<td>App setting from a centralized service e.g.: Google chrome management or GPOs.</td>
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<tr>
<td><strong>Citrix Content Collaboration (Citrix Files)</strong></td>
<td><strong>Global App Config Service (WorkSpace)</strong></td>
</tr>
<tr>
<td>Access Citrix Files formerly known as Citrix ShareFile</td>
<td>The Global App Configuration Service for Citrix Workspace allows a Citrix administrator to deliver Workspace services to URLs and Citrix Workspace app settings through a centrally managed service.</td>
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<tr>
<td><strong>Citrix Secure Private Access</strong></td>
<td><strong>Global App Config Service (StoreFront)</strong></td>
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<tr>
<td>With the Secure Private Access 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.</td>
<td>The Global App Configuration Service for Citrix Storefront allows a Citrix administrator to deliver Citrix Workspace app settings through a centrally managed service.</td>
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<tr>
<td><strong>Citrix Workspace Browser</strong></td>
<td><strong>App Store Updates / Citrix Auto updates</strong></td>
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<tr>
<td>Browser delivered with the Citrix Workspace app to access SaaS and Web Apps securely</td>
<td>Updates from vendor application store and for Windows and Mac through Citrix Auto-upgrade functionality.</td>
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<td><strong>SaaS/Web Apps with SSO</strong></td>
<td><strong>Updated 3/9/2022</strong></td>
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<td>Access SaaS/Web Apps configured using Secure Workspace Access with SSO</td>
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<td>UI</td>
<td>Desktop Viewer/Toolbar</td>
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<td>Multi-tasking</td>
<td>Enable multiple apps and desktop to be used at the same time.</td>
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<tr>
<td>Follow Me Sessions (Workspace Control)</td>
<td>Allows users to move between devices and automatically connect to all of their sessions.</td>
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<tr>
<th>HDX Host Core</th>
<th>Adaptive transport</th>
<th>Enables EDT transport for HDX for improved throughput independent of network conditions.</th>
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<tbody>
<tr>
<td>SDWAN support</td>
<td>Enables SDWAN acceleration for QoS, TCP, compression and de-duplication.</td>
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<td>Session reliability</td>
<td>Keeps sessions active and on the user’s screen when network connectivity is interrupted.</td>
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<td>Auto-client Reconnect</td>
<td>Prompts and reconnects the session on connection interruption.</td>
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<tr>
<td>Session Sharing</td>
<td>Enables published application to be executed over the same connection as other published applications when already running on the same server.</td>
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<tr>
<td>Multiport ICA</td>
<td>Allows support for multiple TCP ports for HDX traffic to improve the quality of service.</td>
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<tr>
<th>HDX IO / Devices / Printing</th>
<th>Local Printing</th>
<th>Enables users to print documents via shared or local printers. In case of Workspace app for Chrome we support printing via Google Chrome.</th>
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<tr>
<td>Generic USB Redirection</td>
<td>Enables use of USB devices inside the session.</td>
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<tr>
<td>Client drive mapping / File Transfer</td>
<td>Enables use of client drives inbuilt or attached for data storage.</td>
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<tr>
<th>HDX Integration</th>
<th>Local App Access</th>
<th>Access the local application on client device inside the session.</th>
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<tr>
<td>Multi-touch</td>
<td>Enables ten finger multi-touch control of Windows/Linux desktops and apps.</td>
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<tr>
<td>Mobility Pack</td>
<td>Enables native device experience features (e.g., auto popup keyboard and local device UI controls) and tablet-optimized desktops.</td>
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<tr>
<td>HDX Insight</td>
<td>Provides visibility into the session startup/end times using ICA network performance metrics.</td>
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<tr>
<td>HDX Insight with NSAP VC</td>
<td>Provides Citrix administrators visibility into the logon duration metrics via Citrix Virtual Desktop formerly known as XenDesktop 7 Director.</td>
<td></td>
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<tr>
<td>EUEM Experience Matrix</td>
<td>Provides visibility into the session startup/end times using ICA network performance metrics.</td>
<td></td>
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<tr>
<td>Bi-directional Content redirection</td>
<td>Enable client to host and host to client URL redirection.</td>
<td></td>
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<tr>
<td>URL redirection</td>
<td>Enables running of applications locally on client.</td>
<td></td>
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<tr>
<td>Browser content redirection</td>
<td>Enables an entire webpage (a browser’s viewport) to be redirected to the endpoint for local rendering, offloading the server.</td>
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<tr>
<td>File open in Citrix Workspace app</td>
<td>Enables opening a local file in Citrix Workspace app using hosted application (Client to Server Content Redirection).</td>
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<tr>
<td>Location Based Services (Location available via API description)</td>
<td>Enables location informations to be used by applications delivered by Citrix Virtual Desktops earlier known as XenDesktop.</td>
<td></td>
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<thead>
<tr>
<th>HDX Multi-media</th>
<th>Audio Playback</th>
<th>Enables server rendered audio playback.</th>
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<tbody>
<tr>
<td>Bi-directional Audio (VoIP)</td>
<td>Enables use of hosted softphone / voice chat collaboration applications.</td>
<td></td>
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<tr>
<td>Web-cam redirection</td>
<td>Enables use of video chat collaboration applications using a local webcam.</td>
<td></td>
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<tr>
<td>Video playback</td>
<td>Enables viewing of recorded videos.</td>
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<tr>
<td>Microsoft Teams Optimization</td>
<td>Offloads Microsoft Teams media processing from the Citrix server to the user device.</td>
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</tr>
<tr>
<td>Skype for business Optimization</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Cisco Jabber Unified Communications Optimization</td>
<td>Offloads Jabber media processing from the Citrix server to the user device.</td>
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<tr>
<td>Widows Multimedia redirection</td>
<td>Enables Windows Multimedia to be rendered on the user device, offloading the server.</td>
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<tr>
<td>UDP Audio</td>
<td>Support for audio input and output over UDP.</td>
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<tbody>
<tr>
<td>Client hardware acceleration</td>
<td>Enables hardware acceleration for HDX features like graphics, webcam etc. The leverage of hardware capability vary with different Citrix Workspace apps.</td>
<td></td>
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<tr>
<td>3DPro Graphics</td>
<td>Enables use of 3D professional graphics applications hosted in the data center.</td>
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<tr>
<td>External Monitor Support</td>
<td>Enables use of an external monitor.</td>
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<tr>
<td>Desktop Composition redirection</td>
<td>Enables graphics command remoting to client for rendering to ensure server scalability. Depreciated in Receiver for Mac 12.9 release.</td>
<td></td>
</tr>
<tr>
<td>True Multi Monitor</td>
<td>XenApp/XenDesktop creates the same number of monitors as supported by the client.</td>
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<tr>
<th>Security</th>
<th>TLS 1.2</th>
<th>Successor to SSL, strong communication channel security.</th>
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<td>TLS 1.0/1.1</td>
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<td>DTLS 1.0</td>
<td>DTLS is a derivation of SSL protocol. It provides the same security services (integrity, authentication and confidentiality) but under UDP protocol.</td>
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<tr>
<td>SHA2 Cert</td>
<td>Ability to use SHA2 Certificates.</td>
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<tr>
<td>Smart Access</td>
<td>Controls access to available applications through the use of Gateway policies and filters.</td>
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<tr>
<td>Remote Access via Gateway</td>
<td>Provides users with secure access to enterprise applications, virtual desktops, and data anywhere without a VPN.</td>
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</tr>
<tr>
<td>Workspace for Web Access</td>
<td>Access to hosted applications or virtual desktops using a browser.</td>
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<tr>
<td>IPV6</td>
<td>Enables use on IPV6 networks.</td>
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**Authentication**

- **Federated Authentication (SAML/Azure AD)** - 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.
- **Netscaler Full VPN** - Builds full VPN tunnel for Gateway.
- **RSA Soft Token** - Enables simplified authentication when using RSA Soft Tokens.
- **Challenge Response SMS** - Enables use of challenge response authentication for example the use of SMS passcodes.
- **User Cert Auth via Gateway (via Browser Only)** - Enable use of users certificates as one factor for authentication with Gateway. This is for browser based authentication on Windows and Linux.
- **Smart Card (CAC, PIV Etc.)** - Enable users to use Citrix applications or Desktops by authenticating with proximity or contactless smart card.
- **Proximity/Contactless Card** - Enable users to use Citrix applications or Desktops by authenticating with proximity or contactless smart card.
- **Gateway Native OTP** - Gateway supports one-time passwords (OTPs) without having to use a third-party server, by keeping the entire configuration on the NetScaler appliance.
- **Biometric Authentication (Touch ID, Face ID..)** - Enables bio-metric authentications such as Touch ID and Face ID.
- **Anonymous Authentication** - Support access for unauthenticated (anonymous) users.

**Keyboard Enhancements**

- **Dynamic Keyboard Layout Synchronization with Windows VDA** - Keyboard layout synchronization enables users to switch among preferred keyboard layouts on the client device and the same keyboard layout is automatically set on the Windows VDA.
- **Client IME Enhancements with Windows VDA** - Enhanced Client IME usability and improved seamless experience for Windows VDA.
- **Language Bar Show/Hide with Windows VDA Applications** - 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.
- **Option Key mapping for server-side IME input mode on Windows VDA** - 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.
- **Dynamic Keyboard Layout Synchronization with Linux VDA** - 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.
- **Client IME Enhancements with Linux VDA** - Enhanced Client IME usability and improved seamless experience for Linux VDA.
- **Language Bar support for Linux VDA Applications** - Language bar helps users to select a server-side IME and to switch between server-side keyboard layouts during Linux VDA application sessions.

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