Find Your Endpoint Devices

Use HDX level classifications to make your purchasing decision for Endpoints
Endpoints serve a crucial position in the virtualization and End User Computing (EUC) domains. However, different industries and users have varied requirements and expectations from these devices, depending on their scope of work. With hundreds of Citrix Ready devices available, it can be challenging to find the right Endpoint for your business. This document can help you understand the specific features and functionalities by segregating all Citrix-compatible Endpoints into three categories—HDX Ready, HDX Premium, and HDX 3D Pro.

HDX Ready

HDX Ready Endpoints serve the daily task workers who need access to basic business productivity applications like office suites and various enterprise resource planning (ERP) related software for business management. These devices leverage the mobility and flexibility benefits of applications and desktop virtualization offered by Citrix XenDesktop and XenApp. Choose these devices to remotely access your applications and desktops while the workload is handled at the server backend.

HDX Ready qualification validates the client’s ability to carry out the following tasks:

- HDX Plug n Play - Multi-Monitor
- HDX 2D Graphics - Server Rendered
- HDX Media stream Flash Redirection
- HDX Voice - Generic Chat & Softphone Support
- HDX Video Playback - Server Rendered Flash and Windows Media
- HDX/ICA Traffic optimization via CloudBridge (Optional)
- NetScaler Insight Center Monitoring (Optional)
- HDX Smartcard Support
- HDX RealTime Audio (VoIP)
- HDX Media stream Windows Media Redirection
- HDX RealTime Optimization Pack Support
- Two 1080p HD Monitor support
- 720p Flash website with 18-20 FPS rendered from client-side
- HDX Media stream Flash Redirection
- 12-18 FPS, 60-80ms average screen response time
- HDCP Support
- Secure authentication with standard PIV compliant device

Choose the right Endpoint

Citrix Ready Marketplace showcases and recommends third-party products and solutions that have demonstrated compatibility with Citrix products. These third-party products undergo rigorous testing to ensure that they qualify Citrix verification criteria. In addition, Endpoint devices are assigned three designations to display a set of functionalities and features.

HDX Premium

HDX Premium Endpoints enhance real-time and secure remote access experience for users. In addition to the basic functionalities offered by HDX Ready Endpoints, these devices enable

- Two 1080p HD Monitor support
- 720p Flash website with 18-20 FPS rendered from client-side
- HDX RealTime Optimization Pack Support
- Two 1080p HD Monitor support
- HDX Media stream Windows Media Redirection
- HDX RealTime Audio (VoIP)
- HDX Media stream Flash Redirection
- HDX/ICA Traffic optimization via CloudBridge (Optional)
- NetScaler Insight Center Monitoring (Optional)
- HDX Smartcard Support
- Secure authentication with standard PIV compliant device

HDX 3D Pro

HDX 3D Pro Endpoints cater to the power users who need high-end capabilities to access centrally delivered 3D graphics-intensive apps with powerful performance. These devices leverage the mobility and flexibility benefits of applications and desktop virtualization from Citrix XenApp and XenDesktop with HDX 3D Pro technology. HDX 3D Pro is a set of graphics acceleration technologies from Citrix designed to optimize the virtualization of rich graphics apps. Choose these devices to access applications and desktops for computer-aided design (CAD), Manufacturing (PLM), Geographical Information System (GIS) related software, and Picture Archiving Communication System (PACS) workstations for medical imaging.
HDX 3D Pro qualification validates the client's ability to carry out the following tasks:

- HDX Plug-n-Play - Multi-Monitor
  - Two 1080p HD Monitor support running multiple 3D Apps
- HDX Rich Graphics - 3D Pro
  - 1080p HD view of interactive and non-interactive workloads with 20-24 FPS in H264 mode
- HDX Pixel Perfect Lossless Support
  - 1080p HD view of interactive and non-interactive workloads with 20-24 FPS in Lossless mode
- Space Mouse Support
  - Generic USB Redirection for 3D Mice

**Make informed purchasing decisions**

Your business is unique, and so are your users' requirements. We understand that choosing from varied devices can make your purchasing task a tad problematic. While you can seamlessly integrate all Citrix Ready products to your Citrix infrastructure, use HDX level classifications to drill down on the devices best suited for your business. This will help you make a purchasing decision that is quick as well as precise.

Here's a comparison for each of the HDX levels:

<table>
<thead>
<tr>
<th>Features</th>
<th>HDX Ready</th>
<th>HDX Premium</th>
<th>HDX 3D Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDX Plug n Play - USB</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HDX 2D Graphics - Server Rendered</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HDX Voice - Generic Chat &amp; Softphone Support</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HDX Video Playback - Server Rendered Flash</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>HDX Video Playback - Server Rendered Windows Media</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Print using Citrix Universal Printer Driver</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>CloudBridge HDX Optimization verification</td>
<td>✔*1</td>
<td>✔*</td>
<td>✔*</td>
</tr>
<tr>
<td>NetScaler Gateway and NetScaler Insight Center verification</td>
<td>✔*</td>
<td>✔*</td>
<td>✔*</td>
</tr>
<tr>
<td>HDX Plug-n-Play - Multi-Monitor Support</td>
<td>✔</td>
<td>(Multiple 2D apps)</td>
<td>✔</td>
</tr>
<tr>
<td>HDX Real Time Audio (VoIP)</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDX Media stream Flash Redirection</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDX Media stream Windows Media Redirection</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDX Real Time Webcam compression</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrix HDX RealTime Optimization Pack Support</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDX Smartcard Support</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDX Rich Graphics - 3D Pro</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>HDX Pixel Perfect Lossless Support</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Space Mouse Support</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

* This newly added scenario is optional in the interim for vendors to test and gain XenApp / XenDesktop compatibility status
Conclusion

This classification of devices is our endeavor to simplify building out your IT infrastructure for virtualization and EUC. In addition, the appropriate Endpoint devices will help you deliver the pertinent output for your business. You can visit the Citrix Ready Marketplace to explore and evaluate Citrix-compatible products and solutions.

Explore HDX level classifications »

Revision Information

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>Created By</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Find Your Endpoint v1 release</td>
<td>Sagnik Datta, Citrix Ready</td>
<td>Nov 2015</td>
</tr>
<tr>
<td>2.0</td>
<td>Revised test scenarios</td>
<td>Sagnik Datta, Citrix Ready</td>
<td>Aug 2016</td>
</tr>
</tbody>
</table>