

Pano System on Citrix XenDesktop

Solution Brief

Pano System on the Citrix XenDesktop 5 Virtualization Platform

By supporting the Citrix® XenDesktop® 5.5 and 5.6 virtualization platforms Pano System 6.0 provides customers with a hypervisor-independent zero client platform that covers all three major choices for virtual desktop infrastructure.

This makes the benefits of zero client virtual computing available to a much broader set of organizations and users, leveraging highly-scalable Citrix products and technologies.

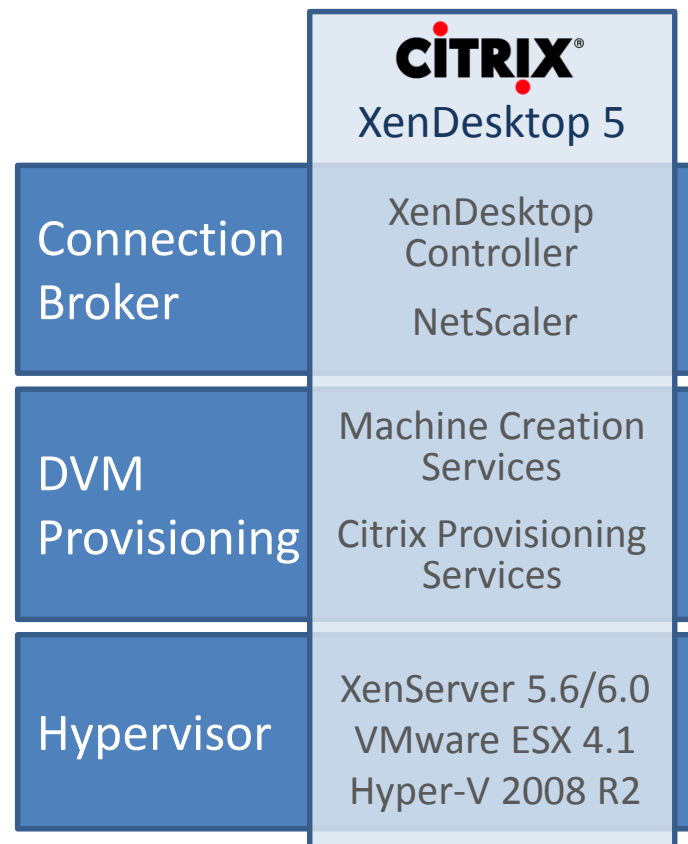
How do Panos work on XenDesktop?

The Pano System works closely with Citrix XenDesktop to manage desktop virtual machines running on the XenServer hypervisor included in the XenDesktop suite or on the VMware® vSphere™ ESX 4.1 or Hyper-V 2008 R2 hypervisors.

The Pano System is Citrix Ready Community Verified.

To provide multiple scalable, load-balanced connections between Pano Controller and XenDesktop, either a Citrix NetScaler® MPX / VPX 9.2 hardware or virtual appliance can optionally be added.

When deployed on Citrix XenDesktop, a single special desktop virtual machine (DVM) collection of type “XenDesktop” is configured in Pano Controller for the DVMs provisioned and managed by XenDesktop Studio. Device Based DVM collections can also be used via Pano Controller.



When would you use the Citrix XenDesktop platform with Panos?

Pano Logic does not recommend one hypervisor over another, preferring to provide customers with choices based on their preferences and specific needs:

- You might select one hypervisor platform over another to leverage your previous experience with that platform in application or server virtualization, such as with XenApp.
- You might prefer one platform's hypervisor architecture or management tools over that of another.
- You might also have existing licenses or volume license agreements with a specific platform vendor that can be used to support Pano deployments with lower license fees.
- In general, customers deploying over 400 seats select either the Citrix or VMware platforms, and customers deploying fewer than 400 seats might select any of the three platforms.

What XenDesktop configurations work with the Pano System?

For most Pano System deployments, the only Citrix products needed is XenDesktop 5.5/5.6 VDI Edition, which includes the XenDesktop Controller, XenDesktop Studio, Machine Creation Services, Citrix Provisioning Services, and the XenServer hypervisor. Either the Enterprise or Platinum Editions of XenDesktop can also be used with the Pano System and add advanced monitoring, management, application delivery, and security capabilities – more information can be found on the Citrix website. In addition, Citrix NetScaler can optionally provide load-balancing between Pano Controller and multiple XenDesktop Controller instances to provide greater availability and scalability for larger Pano deployments.

Sample configurations for Citrix XenDesktop products supporting Pano System deployments include:

DVM Management/Connection Broker	Hypervisor
XenDesktop VDI Edition	XenServer from XenDesktop VDI Edition (\$95 per named user)
XenDesktop Enterprise Edition and NetScaler VPX 9.2 Standard (\$2,000 per server for 10 Mbps)	XenServer from XenDesktop Enterprise Edition (\$225 per named user)

The above costs for Citrix platform licenses are based on list prices modeled on a 150 seat deployment. They exclude costs for the Pano System, Microsoft VDA licenses, servers and other hardware expenses.

Does Pano Support ICA or HDX?

Citrix's HDX™ is a set of extensions for the ICA® remote display protocol when connecting PCs and thin clients to virtualized applications and desktops. Pano Zero Clients don't use HDX-ICA and instead use the Pano Direct Protocol® which was designed specifically for zero client virtual desktops. It acts as a low-level highly efficient bus extension protocol that assumes there is no processing being done (or even possible) on the endpoint, delivering a VDI session over a local area network that typical users find equivalent to using a desktop PC, all without requiring you to license or install any protocol extensions.

Note that DVMs used by HDX-ICA clients must be kept isolated from DVMs used by Pano Zero Clients by using distinct desktop pools, preventing roaming between HDX clients and Panos. Please see the online help for more details on Pano System running on Citrix XenDesktop.

More Information

More information on Citrix's products can be found on their website at www.citrix.com – trial versions of most Citrix software can also be downloaded from their website. For more information on the Pano System visit www.panologic.com, email sales@panologic.com or call 650-454-8940 / 877-677-PANO.