

HP True Graphics Administrator Guide

SUMMARY

HP True Graphics transfers rich multimedia content to the thin client's GPU, delivering high-frame-rate images and boosting efficiency for Citrix[®] on HP ThinPro OS.

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1 Getting started

HP True Graphics transfers rich multimedia content to the thin client's GPU, delivering high-frame-rate images and boosting efficiency for Citrix on HP ThinPro OS.

Server-side requirements

See the table for supported server-side products of the independent software vendor (ISV) that you are using for your virtual desktop infrastructure (VDI).

ISV	Supported products
Citrix	XenApp® and XenDesktop® 7.6 Feature Pack3 and later
	IMPORTANT: Allows the use of a video codec (H.264) to compress graphics when video decoding is available on the endpoint. The video codec is default for all when you select For the entire screen .

Client-side requirements

See the table for thin client operating systems and client-side software that HP recommends.

 Table 1-2
 Recommended thin client operating systems and client-side software

Recommended operating systems	Recommended client-side software
HP ThinPro 7.1 and later	Citrix Workspace™ App 2012 and later

2 Client-side configuration (HP ThinPro)

Use the procedures in this chapter to configure the settings and enable HP True Graphics on HP ThinPro.

NOTE: The information in this chapter applies to Citrix on HP ThinPro only.

For more information about locating the options discussed in this chapter, see the *Administrator Guide* for your version of HP ThinPro.

Compression settings

Use this procedure to enable HP True Graphics on HP ThinPro.

- Select the **Enable H264 Compression** general setting for Citrix connections.
- NOTE: Some screen data, such as text, might be sent using methods other than H.264. In general, it is best to keep this feature enabled, but for troubleshooting or specific use cases, set the following registry keys to 0 to disable this feature:
 - root/ConnectionType/xen/general/enableTextTracking
 - root/ConnectionType/xen/general/enableSmallFrames

Window settings

Use this procedure to force remote applications to run in windowed mode.

Set the TWI Mode general setting for Citrix connections to Force Seamless Off.

Monitor layout and hardware limitations

Consider the limitations on the monitor layout.

- Most configurations with a maximum of two monitors that have a 1920 × 1200 resolution are supported.
- HP t420 Thin Client: This model uses HP True Graphics for one monitor only by default because of its default BIOS configuration. See <u>Enabling HP True Graphics for multiple monitors on page 3</u> for more information.
- HP t630 Thin Client: This model supports a maximum of two monitors at 1920 × 1200 or one monitor at 3840 × 2160.
- HP t730 Thin Client: This model supports a maximum of three monitors at 1920 × 1200.
- Rotated monitors might not display correctly.
- If you use HP True Graphics with two monitors and try to play a video using HDX MediaStream, the video will fail because H.264 supports only two hardware decoding sessions, which the monitors are using.
- XOTE: HDX MediaStream contributes to the issue by trying to locally decode H.264.

Enabling HP True Graphics for multiple monitors

You can enable HP True Graphics for multiple monitors on the HP thin clients HP t240, t420, t628, if the memory size is less than or equal to 2 GB.

- 1. Restart the thin client, and press F10 to access the BIOS.
- 2. Select Advanced > Integrated Graphics.
- 3. Set Integrated Graphics to Force.
- 4. Set UMA Frame Buffer Size to 512 MB.

After you perform these steps, the amount of memory available for graphics is expanded, and you can use HP True Graphics for two monitors.

TIP: You can configure these settings also via HP Device Manager (HPDM) or via the BIOS tools included with HP ThinPro.

3 Tips and best practices

You have two tools to help configure your environment.

Use **HDX Monitor** to check the settings that are actually in effect in a session. Open **HDX Monitor**, select the target VDA, and select **Graphic – Thinwire**, on the **WMI** page.

Table 3-1 Graphic settings

Setting	Example
Component_VideoCodecUse	For actively changing region or Fullscreen when HP True Graphics is in use.
Component_VideoCodecspace	Yuv420 when HP True Graphics is in use.
Component_Monitor_VideoCodecType	H264 when HP True Graphics is in use.

When you enable the built-in **graphics status indicator**, it shows you the current settings in the Citrix session. The **graphic status indicator** lists the current graphic settings.

Table 3-2 Graphic settings

Setting	Example
Video codec compression policy	Selective codec or Full screen when HP True Graphics is in use.
Video codec	H.264 (Yuv420) when HP True Graphics is in use.

HP True Graphics might provide some benefits to older versions of XenDesktop if you use HDX 3D Pro. However, if you use HDX 3D Pro with the visual quality set to **Always Lossless**, HP True Graphics provides no benefits because the graphical information is not sent to the thin client in H.264 format.