HP ThinPro 6.1

Administrator Guide

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About this guide

Command-line syntax in this guide might use one or more of the elements described in the following table.

NOTE: Command-line syntax is *not* case sensitive, unless otherwise specified.

Element	Description
Italics	Italicized text denotes a user-defined parameter, like below: `location=`*IpAddress*`:`*Port* For the above parameter, you would enter something like the following example: `location=192.168.0.10:8080`

`[ ]`	Brackets denote optional parameters, like below:
	`location=`*IpAddress*`[:`*Port*`]`
	For the above parameter, you would enter something like either of the following examples:
	`location=192.168.0.10`
	`location=192.168.0.10:8080`

`|`
`{ | }`
	A vertical bar denotes the `or` operator and separates options for a user-defined parameter that has a limited set of possible values. A set of options might also be enclosed in braces to distinguish it from the other parts of the syntax, like below:
	`speed={high | medium | low}`
	For the above parameter, you would enter only one of the following:
	`speed=high`
	`speed=medium`
	`speed=low`

`" "`
`' '`
	Some parameters might require double quotes, single quotes, or both, like below:
	`location="'`*IpAddress*`' '`*Port*`'"`
	For the above parameter, you would enter something like the following example:
	`location="'192.168.0.10' '8080'"`

`...`	An ellipsis denotes a repeating parameter. The following examples demonstrate a few different ways a repeating parameter can be implemented.
	The following parameter requires exactly ten device names:
	`DeviceNames=`*Device1 Device2 ... Device10*
	The following parameter requires a minimum of one device name and can include up to ten device names total:
	`DeviceNames=`*Device1* `[`*Device2 ... Device10*`]`
	The following parameter requires a minimum of one device name and can include an infinite number of additional device names:
	`DeviceNames=`*Device1* `[`*Device2 ...* `]`

Table of contents

1 Getting started

This guide is for administrators of HP thin clients based on the HP ThinPro operating system and assumes that you will log in to the system as an administrator when modifying system configurations or using administrative tools as described in this guide.

NOTE: HP ThinPro has two possible OS configurations: ThinPro and Smart Zero. HP ThinPro-based thin clients can be purchased with either OS configuration as the default, and you can switch between OS configurations via Control Panel.

For more information about each OS configuration, see Choosing an OS configuration on page 2. For more information about switching between OS configurations, see Customization Center on page 46.

Finding more resources

Resource	Contents
HP support website http://www.hp.com/support	Recovery images, administrative tools, and other software add-ons and updates ▲ Search for the thin client model, and then see the **Download options** section of the support page for that model. Administrator guides, hardware reference guides, white papers, and other documentation ▲ Search for the thin client model, and then see the **Manuals** section of the support page for that model. **NOTE:** HP Device Manager and HP Remote Graphics Software each have a dedicated support page, so search for the app name instead, and then see the **Manuals** section. **NOTE:** Language support for software and documentation might vary. Some content is available in English only.
Microsoft support website http://support.microsoft.com	Documentation for Microsoft software
Citrix support website http://www.citrix.com/support	Documentation for Citrix software
VMware support website http://www.vmware.com/support	Documentation for VMware software

Choosing an OS configuration

HP ThinPro includes two OS configurations, each tailored for a different thin client deployment scenario:

- The **ThinPro** OS configuration is the complete version of the operating system and is the most suitable for multipurpose environments that require advanced administration or end-user customization. Features of this OS configuration include the following:
  - Boots to the ThinPro desktop
  - Has more connection types than Smart Zero
  - Allows multiple connections (of any supported type) to be configured and run simultaneously
- The **Smart Zero** OS configuration is a simpler, more secure version of the operating system and is the most suitable for single-purpose, kiosk-style environments that require minimal administration and little to no end-user customization. Features of this OS configuration include the following:
  - Boots directly to a virtual session and hides the desktop, a feature also known as “kiosk mode”
  - Has fewer connection types than ThinPro
  - Supports only one connection to be configured and run at a time

NOTE: You can switch between OS configurations via Control Panel (see Customization Center on page 46).

You can also customize some of the default settings of each OS configuration; for example, to change which connection types are available, enable kiosk mode for ThinPro, or boot to the desktop for Smart Zero.

For more information about kiosk mode, see Kiosk mode on page 9.

The following table lists the default available connection types for each OS configuration.

OS configuration	Default available connection types
ThinPro	• Citrix® • RDP • VMware® Horizon® View™ • Web Browser (Firefox) • TeemTalk • XDMCP • SSH • Telnet • Custom
Smart Zero	• Citrix • RDP • VMware Horizon View • Web Browser (Firefox)

Choosing a remote management service

Regardless of the OS configuration, there are two different remote management services that you can use to manage HP ThinPro-based thin clients:

- **HP Device Manager (HPDM)** is ideal for large environments with a variety of operating systems, including a mixture of HP ThinPro-based and Windows®-based thin clients. HPDM provides a greater variety of management options than HP Smart Client Services. For more information or to download HPDM, go to http://www.hp.com/go/hpdm.
- **HP Smart Client Services** can manage HP ThinPro-based thin clients only and is optimized for use with Smart Zero and a "zero management" scenario. For more information, see HP Smart Client Services on page 56. To download HP Smart Client Services, go to the HP support website (see Finding more resources on page 1).

HP recommends evaluating both services and choosing the one that is best for your deployment.

Starting the thin client for the first time

When you first start a new HP ThinPro-based thin client, a setup program runs automatically. The following procedure describes the setup process:

1. First, the setup program checks for a network connection. If specific network settings are required, select the **Network Settings** button to open Network Manager (see Network settings on page 43 for more information).
2. Next, the setup program determines whether the thin client is being managed by a remote management service (either HPDM or HP Smart Client Services).

   If the thin client is being remotely managed by either service, the setup program exits, and then configurations that you have predefined via the service are applied to the thin client. The rest of this procedure does not apply if the thin client is being remotely managed.

   If the thin client is not being remotely managed by either service, continue this procedure.
3. Next, the setup program determines whether there is an image update available from HP. If there is, select **Install now** on the **Software Update** page to update the image.
4. If you want to determine whether service packs or package updates are available, select **Easy Update** to launch HP Easy Tools. See the *Administrator Guide* for HP Easy Tools for more information about using Easy Update. Then, continue this procedure.
5. If you want to manually configure HPDM Agent (the client-side component of HPDM) or the Automatic Update settings for HP Smart Client Services, select the **Device Management** tab of the setup program, and then choose the corresponding option.
6. If you want to check for software updates every time the thin client starts, select the **Check for software updates every boot** option.

   If you want to preserve all local settings when you upgrade the image version, select the **Preserve thin client configuration** option.
7. After you close the setup program, if no connections are configured, a wizard opens to help you configure a connection.

TIP: If you want to modify the configuration of a single thin client and then copy and deploy the configuration to other thin clients, first use Control Panel to modify the configuration (see GUI overview on page 5 and Control Panel on page 38 for more information), and then deploy the configuration using HPDM or HP ThinState (see HP ThinState on page 48).

Switching between administrator mode and user mode

- Right-click the desktop, and then select **Administrator/User Mode Switch** from the menu.

  For more information about the desktop, see Desktop on page 5.

  – or –

  Select **Administrator/User Mode Switch** in Control Panel.

  For more information about Control Panel, see Taskbar on page 6 and Control Panel on page 38.

NOTE: The first time you switch to administrator mode, you are prompted to set up an administrator password. The administrator password must be entered every subsequent time you switch to administrator mode.

When in administrator mode, the screen is surrounded by a red border.

2 GUI overview

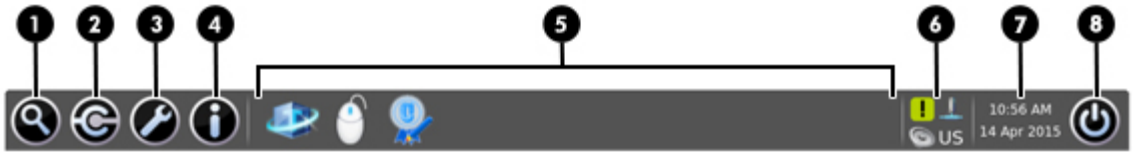
Desktop

NOTE: The following image demonstrates the desktop for ThinPro with a U.S. locale setting. For Smart Zero, the taskbar is vertical and right-aligned by default, and the desktop theme varies by connection type. The display format of some taskbar information varies by locale setting.

Item		Description
(1)	Desktop	In ThinPro, you can arrange connection shortcuts in the desktop area and customize the background theme. In Smart Zero, the desktop is replaced by a customizable login screen with a theme specific to the chosen connection type.
(2)	Connection shortcuts	Double-click a connection shortcut to launch a connection.
(3)	Taskbar	Provides quick access to programs and system functions (see Taskbar on page 6 for more information).

Taskbar

NOTE: The following image demonstrates the taskbar for ThinPro with a U.S. locale setting. For Smart Zero, the taskbar is vertical and right-aligned by default. The display format of some taskbar information varies by locale setting.



Item		Description
(1)	Search	Lets you search for and run configured connections, connection managers, Control Panel items, and power functions.
(2)	Connection Manager	In ThinPro, this button opens Connection Manager in a new window. See Connection Manager (ThinPro only) on page 7 for more information. In Smart Zero, this button displays a menu that lets you add or edit a connection.
(3)	Control Panel	Lets you configure the thin client, switch between administrator mode and user mode, and check for software updates. See Control Panel on page 38 for more information.
(4)	System Information	Lets you view system, network, and software information about the thin client. See System information on page 55 for more information.
(5)	Application area	Displays the icons for the currently open applications. **TIP:** You can hold down Ctrl+Alt and then press Tab repeatedly to select an application to bring to the foreground.
(6)	System tray	Provides quick access to or provides information about certain functions and services. Items in the system tray can include the following, but some items might not appear depending on the system configuration: • Audio mixer • Virtual keyboard • Network status • Automatic Update status—A green icon with a checkmark indicates that Automatic Update finished successfully. A yellow icon with an exclamation point indicates that the Automatic Update server was not found or that there are some problems with the server-side settings. A red icon with an X indicates that Automatic Update failed, such as when a package or profile is invalid. A blue icon with a spinning arrow indicates that Automatic Update is currently checking for updates. • Smart Common Input Method (SCIM) controls • Citrix applications
(7)	Date and time	Displays the current date and time and opens the date and time settings.
(8)	Power button	Lets you log out of, restart, or shut down the thin client.

Connection Manager (ThinPro only)

NOTE: The following image demonstrates Connection Manager with a U.S. locale setting.

Item		Description
(1)	Connection list	Lists the configured connections and whether each connection is active or inactive.
(2)	Start	Starts the selected connection.
(3)	Stop	Stops the selected connection.
(4)	Edit	Lets you edit the selected connection.
(5)	Delete	Deletes the selected connection.
(6)	Add	Lets you add a new connection. **NOTE:** See Choosing an OS configuration on page 2 for a list of the available connection types.
(7)	Settings	Lets you edit general settings for Citrix, RDP, or Web Browser connections. These settings apply to all connections of that type.

For more information about configuring connections, see the following:

- Connection configuration on page 8
- Connection types on page 10

3 Connection configuration

Advanced connection settings

The following table describes the settings that are available under the Advanced category when editing a connection of any connection type.

NOTE: These settings affect the connection you are currently configuring only.

Option	Description
Fallback Connection	Specifies the fallback connection. If the connection fails to start, the fallback connection will attempt to start instead. **NOTE:** This option is not available for the VMware Horizon View connection type.
Auto start priority	Determines the order that connections will auto-start. **0** means auto-start is disabled. The other values determine the startup order, with **1** being the highest priority.
Share credentials with screensaver	Enables users to unlock the local screensaver using their credentials for that connection. **NOTE:** This option is only available for the Citrix, RDP, and VMware Horizon View connection types.
Auto reconnect	If enabled, this connection will attempt to auto-reconnect if the connection is dropped. **NOTE:** Stopping a connection via Connection Manager will prevent an auto-reconnection.
Wait for network before connecting	Disable this option if your connection doesn't need the network to start or if you don't want to wait for network to start the connection.
Show icon on desktop	If enabled, a desktop icon will be created for this connection.
Allow the user to launch this connection	If enabled, this connection can be launched by an end user.
Allow the user to edit this connection	If enabled, this connection can be modified by an end user.
Login dialog options	Enable or disable these options to configure the login dialog for the connection. **NOTE:** This option is only available for the Citrix, RDP, and VMware Horizon View connection types. The following options are available: • **Show username field** • **Show password field** • **Show domain field** • **Show smartcard checkbox** • **Show 'remember me' checkbox** **NOTE:** This option saves the user name and domain, but the password still needs to be entered each time. • **Show 'show password' button**

Kiosk mode

When a thin client is configured for kiosk mode, it performs an automatic login to the default connection on startup using predefined user credentials. If the connection is ever lost due to a logout, disconnect, or network failure, it reconnects automatically as soon as it can be restored.

TIP: The remote host can be configured to start resources automatically upon login, making the kiosk mode experience seamless.

The easiest way to configure a thin client for kiosk mode is to switch it to Smart Zero (see Customization Center on page 46) and configure a connection. When this is done, the following settings are set automatically:

- The taskbar auto-hides.
- The connection auto-starts.
- The connection auto-reconnects.
- The connection shares the user credentials with the local screensaver.
- The desktop theme is set to that connection type's default theme.
- The USB redirection protocol in USB Manager is set to that connection type's protocol.

If you want to configure a thin client for kiosk mode in ThinPro (for example, if you want to use a connection type available only with ThinPro), manually configure the following settings for the desired connection:

- In Customization Center, set the taskbar to **Auto hide**.
- In connection's settings, do the following:
  - Set **Auto start priority** to **1**.
  - Enable **Auto reconnect**.
  - Enable **Share credentials with screensaver**, if available.
  - For a Web Browser connection only, select the **Enable kiosk mode** option.
- In USB Manager, set the proper USB redirection protocol, if necessary.

TIP: When in kiosk mode, to minimize the connection and return to the local desktop, press Ctrl+Alt+End.

4 Connection types

Citrix

The following table describes the supported Citrix XenApp backends.

Access type	XenApp version
Direct (legacy)	4.5 / 5 / 6 / 6.5
PNAgent (legacy)	4.5 / 5 / 6 / 6.5 / 7.X
Web browser	4.5 / 5 / 6 / 6.5 / 7.X
StoreFront	4.5 / 5 / 6 / 6.5 / 7.X

The following table describes the supported Citrix XenDesktop® backends.

Access type	XenApp version
PNAgent (legacy)	4.5 / 5.5 / 5.6.5 / 7.X
Web browser	4.5 / 5.5 / 5.6.5 / 7.X
StoreFront	4.5 / 5.5 / 5.6.5 / 7.X

The following table describes the supported Citrix VDI-in-a-box backends.

Access type	XenApp version
PNAgent (legacy)	5.x
Web browser	5.x
StoreFront	5.x

Citrix general settings

NOTE: These settings affect all Citrix connections.

Options

The following table describes the settings that are available under the Options category when editing the Citrix general settings.

Option	Description
Enable HDX MediaStream	Enables HDX MediaStream.
Enable Auto Reconnect	Enable automatic reconnection of dropped connections.

Option	Description
Enable Session Reliability	Enables the Citrix Session Reliability feature. See Citrix documentation for more information.
Enable Clipboard Redirection	Enables clipboard redirection.
Use Data Compression	Use data compression for this connection.
Enable H264 Compression	Enables H.264 compression. See Citrix documentation to determine if this method of data compression is best for your use cases.
Enable Middle Button Paste	Enables the middle mouse button paste function.
User Agent String	Specify a User Agent string to be used for requests sent to the Citrix server. This option is useful for a NetScaler configuration.
HDX Flash Redirection	Enables HDX Flash redirection to play flash content locally.
HDX Flash Server Side Content Fetch	Allows the server to fetch the flash content for redirection.
Sound	Sets the sound quality or disables sound entirely.
Encryption Level	Specifies the encryption level of an ICA session.

Local Resources

The following table describes the settings that are available under the Local Resources category when editing the Citrix general settings.

Option	Description
Printers	Controls how local printer redirection is handled.
Webcam/Audio-Input	Controls how local webcam and audio input redirection is handled.
USB Redirection	Enables USB redirection.
Dynamic Drive Mapping	Enables dynamic drive mapping.
Static Drive Mapping (Legacy)	Enables static drive mapping, which allows you to specify drive mappings to local paths.

Window

The following table describes the settings that are available under the Window category when editing the Citrix general settings.

Option	Description
TWI Mode	Lets you display a single seamless window on the local ThinPro desktop as if it were a native application.
Default Window Size	When **TWI Mode** is set to **Force Seamless Off**, this controls the default window size.
Default Window Colors	Sets the default color depth.
Show the Virtual Desktop on all monitors	When enabled, the virtual desktop will be displayed across all monitors.
Left Monitor	When **Show the Virtual Desktop on all monitors** is disabled, these fields let you specify how the virtual desktop is displayed across specific monitors.

Option	Description
Right Monitor	
Top Monitor	
Bottom Monitor	

Firewall

The following table describes the settings that are available under the Firewall category when editing the Citrix general settings.

Option	Description
Proxy Type	Specifies the proxy type.
Proxy Address	The IP address of the proxy server.
Proxy Port	The port for connection to the proxy server.
Username	The username to use for connection to the proxy server.
Password	The password to use for connection to the proxy server.
Use Alternate Address for Firewall Connection	The Citrix ICA Client will request the alternate address defined for the server when contacting servers inside the firewall. The alternate address must be specified for each server in a server farm.

Keyboard Shortcuts

The following table describes the settings that are available under the Keyboard Shortcuts category when editing the Citrix general settings.

Option	Description
Enable UseLocalIM	Uses the local input method to interpret keyboard input. This is supported only for European languages.
Use EUKS Number	Controls the usage of Extended Unicode Keyboard Support (EUKS) on Windows servers. Valid options are described below: • 0—EUKS is not used. • 1—EUKS is used as a fallback. • 2—EUKS is used whenever possible.
Handling of keyboard shortcuts	Specifies how keyboard shortcuts should be handled. The following settings are available: • **Translated**—Keyboard shortcuts apply to the local desktop (client side) • **Direct in full screen desktops only**—Keyboard shortcuts apply to the remote desktop (server side), but only for a non-seamless ICA session in full screen mode • **Direct**—Keyboard shortcuts apply to the remote desktop (server side) for both seamless and non-seamless ICA sessions when their windows have the keyboard focus

Option	Description
Stop Direct key handling	Specifies the key combination that disables Direct handling of keyboard shortcuts.
Alt+F1 ... Alt+F12	Lets you add keyboard shortcuts to be handled.

Session

The following table describes the settings that are available under the Session category when editing the Citrix general settings.

Option	Description
Auto Logout Delay Before App Launch	When using a Citrix server with multiple published resources, this specifies the number of seconds to allow a user to launch an app after login before the system automatically logs out and returns to the initial login screen.
Auto Logout Delay After App Close	When using a Citrix server with multiple published resources, this specifies the number of seconds between the closing of the last Xen published resource and when the user is automatically logged out and returned to the initial login screen.
Server Check Timeout	To perform a basic connectivity check to the selected server and port, set this option to a value other than the default **–1**.

TIP: Setting any of these values to less than 0 will disable auto-logout.

NOTE: Citrix processing delays might increase the auto-logout time.

Citrix per-connection settings

NOTE: These settings affect the connection you are currently configuring only.

Connection

The following table describes the settings that are available under the Connection category when editing a Citrix connection.

Option	Description
Name	The connection name.
Connection Mode	Sets the connection mode to one of the following: • **PNAgent** • **StoreFront** • **Direct** **NOTE:** Authentication options are displayed following this option and vary depending on the connection mode you selected. See Citrix documentation for more information. **NOTE:** You can test the connection settings by selecting the **Test connection** button.
URL	The Citrix server hostname or IP address. If you are configuring a connection to a server on an HTTPS site, enter the FQDN for the site and the local root certificate in the Citrix certificate store. The check box next to this option forces an HTTPS connection, if selected.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Citrix connection.

Option	Description
Auto Reconnect Applications on Login	With this option selected, resources that were open when the user last logged out will be reopened when they log in again. **TIP:** If not using the Citrix SmoothRoaming feature, disable this option to increase your connection speed.
Autostart mode	Lets you set a specific application or desktop to start automatically when the Citrix connection begins. If set to **Auto Start Single Resource**, and if there is a single published resource, that resource starts automatically. **NOTE:** This option has no effect if **Auto Reconnect Applications on Login** is selected and there are applications to reconnect to. If you have selected Auto Start Application or Auto Start Desktop, select the **Enumeration** button to retrieve a list of resources (applications or desktops) and display them in Citrix Connection Manager, which enables you to select resources to start automatically upon connection. If you have selected Auto Start Single Resource, select the **Enumeration** button to retrieve the number of resources. If there is only one resource, it is started automatically upon connection.
Show resources on desktop	With this option selected, remote resources from the connection will be shown on the local ThinPro desktop.
Show resources on taskbar	With this option selected, remote resources from the connection will be shown on the local ThinPro taskbar.
Show only subscribed resources	If selected, only subscribed resources are shown during a Citrix connection.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

HP True Graphics

HP True Graphics offloads rich multimedia content to the GPU, delivering high-frame-rate images and boosting efficiency.

HP True Graphics requires one of the following Citrix environments:

- Citrix XenApp/XenDesktop 7 or newer
- Citrix HDX 3D Pro (not running in **Always Lossless** mode)

HP True Graphics server-side requirements

XenApp/XenDesktop

The Citrix server must support sending session data in H.264 format. H.264 is enabled by default and is processed using the DeepCompressionV2 encoder, a CPU-based compression algorithm.

Only full desktops or non-seamless applications are currently accelerated when using HP True Graphics. Hosted remote applications running in seamless windows do not see benefits from HP True Graphics. See HP

True Graphics client-side configuration on page 15 for information on how to force applications to run non-seamlessly by configuring the **TWI Mode** setting on the thin client.

HDX 3D Pro

HDX 3D Pro desktops can use the H.264 format and benefit from using HP True Graphics, even if running older versions of XenDesktop. You might want to use HDX 3D Pro to offload the server-side H.264 encoding to the GPU using the DeepCompression encoder. See Citrix documentation for more information.

NOTE: HP True Graphics does not provide any performance enhancement if HDX 3D Pro is used with the visual quality set to **Always Lossless**, because then the graphical information is not sent to the thin client in H.264 format.

Verifying server compression options

After connecting to a Citrix desktop, use the Citrix HDX Monitor to determine which encoder is being used for the session by examining the information under **Graphics > Thinwire Advanced > Component_Encoder**. If the value reads **DeepCompressionV2Encoder** or **DeepCompressionEncoder**, then the server is properly sending the data in a format that is accelerated by HP True Graphics.

NOTE: If legacy graphics are being forced via a server policy, such as CompatibilityEncoder or LegacyEncoder, the server is compressing graphics in a method that is compatible with older versions of Citrix clients and you will not experience enhanced performance from HP True Graphics.

HP True Graphics client-side configuration

Compression settings

H.264 compression must be enabled on the thin client for HP True Graphics to provide any benefits. To enable H.264 compression on the thin client, select the **Enable H264 Compression** checkbox in the Xen Connection General Settings Manager.

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, the following registry keys can be set to **0** to disable this feature:

- `root/ConnectionType/xen/general/enableTextTracking`
- `root/ConnectionType/xen/general/enableSmallFrames`

Window settings

Remote applications in seamless mode do not benefit from HP True Graphics. To force remote applications to be in windowed mode, set the **TWI Mode** option in the Xen Connection General Settings Manager to **Force Seamless Off**.

Monitor layout and hardware limitations

Note the following limitations on monitor layout:

- Most configurations with a maximum of two monitors at a 1920 ×1200 resolution each are supported.
- HP t420 Thin Client: Due to its default BIOS configuration, this product uses HP True Graphics for one monitor only, by default. See Enabling HP True Graphics for multiple monitors on the HP t420 on page 16 for more information.
- HP t730 Thin Client: This model supports a maximum of three monitors at 1920 × 1200.
- Rotated monitors might not display correctly.

Enabling HP True Graphics for multiple monitors on the HP t420

To enable HP True Graphics for multiple monitors on the HP t420:

1. Restart the thin client and press F10 to access the BIOS.
2. Navigate to **Advanced > Integrated Graphics**.
3. Set **Integrated Graphics** to **Force**.
4. Set **UMA Frame Buffer Size** to **512M**

After these steps are performed, the amount of memory available for graphics is expanded, and HP True Graphics can be used for two monitors.

TIP: These settings can also be configured via HPDM or via the BIOS tools included with HP ThinPro (see BIOS settings tool on page 69 for more information).

RDP

The RDP client is based on FreeRDP 1.1 and meets the following requirements for RDP:

- Hardware-accelerated RemoteFX
- MMR supported when connecting to Windows hosts with the Desktop Experience feature enabled
- USBR supported when connecting to RDP servers that enable it

RDP general settings

The following table describes the RDP general settings.

NOTE: These settings affect all RDP connections.

Option	Description
Send hostname as	Specifies whether to send the thin client's hostname or MAC address as the hostname specified to the remote system.
Enable Multimedia Redirection	Enables multimedia redirection.

RDP per-connection settings

NOTE: These settings affect the connection you are currently configuring only.

Network

The following table describes the settings that are available under the Network category when editing an RDP connection.

Option	Description
Name	A custom name for this connection.
Address	The IP address or server name for this connection, or the RD Web Access feed URL. If required, the port can be appended to the server after a colon (by default, the port is 3389 for a direct RDP connection).

Option	Description
	NOTE: The RD Web Access feed URL must begin with `https://`. By default, this is added automatically as specified by the `rdWebFeedUrlPattern` registry key, which defines the pattern of the URL.
Username	The username for this connection.
Password	The password for this connection.
Domain	The domain name for this connection (optional).
Allow Smartcard Login	Enables smart card authentication.
Enable RD Gateway	Enables additional RD Gateway options, such as the gateway address, port, and credentials.
Server Probe	Launches the Server Probe, which can be used to determine which RDP features are supported by your RDP server.

Service

The following table describes the settings that are available under the Service category when editing an RDP connection.

Option	Description
Service	Sets the RDP service to one of the following: • **Remote Computer**—When using this service, a direct RDP connection is created to a remote computer. A remote application or alternate shell can optionally be started upon connection. The following additional options are available for a Remote Computer service: — If **Mode** is set to **Remote Application**, the **Application** field specifies the path of the application to run. **TIP:** If using RDP Seamless Windows mode, type the path of `seamlessrdpshell.exe` on your server, followed by a space and then the path of the application to run. See the following example: `c:\seamless\seamlessrdpshell.exe c:\Program Files\Microsoft\Word.exe` — If **Mode** is set to **Alternate Shell**, the **Command** field specifies the command that executes the application to run in the alternate shell. For example, to run Microsoft® Word, type `Word.exe`. If **Mode** is set to **Alternate Shell**, the **Directory** field specifies the server's working directory path for the application's program files. For example, the working directory for Microsoft Word is `C:\Program Files\Microsoft`. • **RD Web Access**—When using this service, a list of RemoteApp resources is retrieved from the server and presented to the user, and the actual RDP connection is started when a resource is selected. The following additional options are available for RD Web Access: — **Keep resource selection window open**—With this option selected, users can open multiple resources simultaneously from the resource selection window. — **Auto-start single resource**—With this option selected, and if there is a single published resource, that resource will start automatically upon connection.

Option	Description
	— **Resource filter** and **Web Feed Browser**—These can be used to limit the remote resources that will be made available to the user in the resource selection window. **NOTE:** An advantage of using RD Web Access is that it handles the details of brokered connections and the Load Balance URL automatically. For more information, see the HP ThinPro white paper *RD Web Access Deployment Example* (available in English only).

Window

The following table describes the settings that are available under the Window category when editing an RDP connection.

Option	Description
Hide Window Decoration	This setting makes sure that screen elements such as the menu bar, minimize and close options, and borders of the window pane are not displayed.
Window Size	Sets the window size to **full**, **fixed**, or **percent**.
Percentage Size	If **Window Size** is set to **percent**, this option sets the percentage of the screen that a desktop window occupies. **NOTE:** The resulting sizes might be rounded. **NOTE:** RemoteFX supports only a fixed list of resolutions.
Fixed Size	If **Window Size** is set to **fixed**, this option sets the width and height in pixels that the desktop window occupies.

Options

The following table describes the settings that are available under the Options category when editing an RDP connection.

Option	Description
Enable motion events	If enabled, mouse motions are continuously relayed to the RDP server.
Enable data compression	Enables bulk compression of data between the RDP server and RDP client.
Enable deprecated RDP encryption	Enables last-generation RDP encryption when NLA is not available.
Enable offscreen cache	If enabled, off-screen memory is used to cache bitmaps.
Attach to admin console	Attaches the connection to the administrator console port.
Cross-session copy/paste	If enabled, copy and paste are enabled between different RDP sessions.
Enable buffering of RDP6 primitives	If enabled, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
Enable Progressive RemoteFX Codec	Enables the RemoteFX Progressive Codec, which transmits the desktop in a series of sharper and sharper images. **NOTE:** This codec might cause visual artifacts on desktops with highly dynamic content, so this codec can be disabled, if necessary.

Option	Description
Certificate verification policy	Select one of the following: • **Accept all RDP server certificates** • **Use remembered hosts; warn if unknown or invalid certificate** • **Skip remembered hosts; warn if unknown or invalid certificate** • **Connect only to pre-approved RDP servers**
TLS Version	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to **auto**. **NOTE:** There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
Hostname to send	Normally, the thin client's hostname is used for Client Access Licenses. This field allows a different value to be sent. **TIP:** Select the **?** icon next to this option for more information.
Load Balance Info	Use this option with a brokered RDP connection. **TIP:** Select the **?** icon next to this option for more information.

NOTE: For more information about the options **Enable deprecated RDP encryption** and **TLS Version**, see the HP ThinPro white paper *Security Layers for RDP Connections* (available in English only).

Local Resources

The following table describes the settings that are available under the Local Resources category when editing an RDP connection.

NOTE: HP recommends high-level device redirection for all local devices unless there is a specific reason to use USB redirection (USBR) instead. For more information, see the HP ThinPro white paper *USB Manager* (available in English only).

Option	Description
Audio Devices	Determines whether audio devices are redirected by high-level RDP audio redirection, low-level USB redirection, or disabled for this connection.
Printers	Determines whether printers are redirected by high-level printer redirection (which requires them to be set up via the Printers tool in Control Panel), low-level USB redirection, or disabled for this connection.
Serial/Parallel Ports	Determines whether serial and parallel ports are redirected or disabled for this connection.
USB Storage	Determines whether USB storage devices such as flash drives and optical drives are redirected by high-level storage redirection, low-level USB redirection, or disabled for this connection.
Local Partitions	Determines whether local partitions of the thin client's flash drive are redirected or disabled for this connection.
Other USB Devices	Determines whether other classes of USB devices (such as webcams and tablets) are redirected by low-level USB redirection or disabled for this connection.

Experience

The following table describes the settings that are available under the Experience category when editing an RDP connection.

Option	Description
Choose your connection speed to optimize performance	Selecting a connection speed (**LAN**, **Broadband**, or **Modem**) will enable or disable the following options to optimize performance: • **Desktop background** • **Font smoothing** • **Desktop composition** • **Show contents of window while dragging** • **Menu and window animation** • **Themes** Selecting **Client Preferred Settings** allows the RDP client to choose which options to use to provide the best RDP experience. You can also select your own custom combination of options.
End-to-End Connection Health Monitoring	Select to enable the timeout options. **NOTE:** For more information, see the HP ThinPro white paper *RDP Connection Drop Detection* (available in English only).
Warning Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server before the user is warned of a lost connection. This function can be disabled by clearing the option or setting the time to zero. With the **Show Warning Dialog** option selected, a warning dialog will be displayed when this timeout is reached. Otherwise, the warning is written to the connection log only. **TIP:** HP recommends increasing the timeout value for networks that experience frequent busy periods or momentary outages.
Recovery Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits for the connection to recover without taking any special action. At the end of this period, the RDP client attempts a quick reconnection with the session.
Error Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits before stopping attempts to reconnect with that server. **TIP:** Select the **?** icon next to this field for more information.

Diagnostics

The following table describes the settings that are available under the Diagnostics category when editing an RDP connection.

Option	Description
Show RDP dashboard	If enabled, the RDP dashboard is shown during the connection. **TIP:** Select the **?** icon next to this option for more information.
Show Connection Health Graph	With this option enabled, a two-dimensional graph of response time from the RDP server will be shown when the connection is started.

Option	Description
	TIP: Select the **?** icon next to this option for more information.
USB Redirection Analysis	This feature determines and displays the current redirection method for each redirected USB device. **TIP:** Select the **?** icon next to this option for more information.
Synchronous X11	Forces frequent flushing of X11 buffers at the cost of performance.
Logging	Enables the X11 logfile. Select the **Autoflush** option to increase the frequency of log output at the cost of performance.
Capture	Allows the capture and replay of X11 output from a session.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

RemoteFX

RemoteFX is an advanced graphics display protocol that is designed to replace the graphics component of the traditional RDP protocol. It uses the hardware acceleration capabilities of the server GPU to encode the screen contents via the RemoteFX codec and send screen updates to the RDP client. RemoteFX uses advanced pipelining technologies and adaptive graphics to make sure that it delivers the best possible experience based on content type, CPU and network bandwidth availability, and rendering speed.

RemoteFX is enabled by default. The administrator or user does not have to change any settings to enable it. The RDP client negotiates with any RDP server it contacts, and if RemoteFX is available, it will be used.

To disable RemoteFX, set the following registry key to 0:

`root/ConnectionType/freerdp/connections/<UUID>/remoteFx`

TIP: For simplified management, HP recommends that you enable or disable RemoteFX on the remote host.

NOTE: For more information, see the HP ThinPro white paper *Enabling RemoteFX for RDP* (available in English only).

RDP multi-monitor sessions

True multi-monitor support does not require special configuration. The RDP client automatically identifies which monitor is specified as the primary monitor in the local settings and places the taskbar and desktop icons on that monitor. When a window is maximized within the remote session, the window will only cover the monitor it was maximized on.

Display preferences and monitor resolutions can be viewed but not modified within the remote session. To modify the session resolution, log out of the session and change the resolution on the local thin client.

By default, all RDP sessions will be full-screen and cover all monitors to enhance the virtualization experience. Additional window options are available in the RDP Connection Manager.

NOTE: Remote Desktop Virtualization Host (RDVH) sessions with graphics card support might only support certain resolutions and counts of monitors. The limits are specified when the RemoteFX virtual graphics device is configured for the RDVH virtual machine.

NOTE: For more information about RDP multi-monitor sessions, see the HP ThinPro white paper *True Multi-Monitor Mode for RDP* (available in English only).

RDP multimedia redirection

Multimedia redirection (MMR) is a technology that integrates with Windows Media Player on the remote host and streams the encoded media to the RDP client instead of playing it on the remote host and re-encoding it via RDP. This technology reduces the server load and network traffic, and greatly improves the multimedia experience, supporting 24 fps playback of 1080p videos with automatic audio syncing. MMR is enabled by default. The RDP client will negotiate with any RDP server it contacts, and if MMR is available, it will be used.

MMR also uses an advanced codec detection scheme that identifies whether the thin client supports the codec being requested by the remote host before attempting to redirect it. The result is that only supported codecs will be redirected and all unsupported codecs fall back to server-side rendering.

To disable MMR on the thin client for all RDP connections, set the following registry key to 0:

```
root/ConnectionType/freerdp/general/enableMMR
```

Because RemoteFX already delivers acceptable multimedia performance, you can disable MMR with RemoteFX by setting the following registry key to 1:

```
root/ConnectionType/freerdp/connections/<UUID>/disableMMRwithRFX
```

TIP: For simplified management, HP recommends that MMR be enabled or disabled on the remote host.

RDP device redirection

Device redirection makes sure that when a user plugs a device into the thin client, the device is automatically detected and accessible in the remote session. RDP supports redirection of many different types of devices.

RDP USB redirection

USB redirection works by transmitting low-level USB protocol calls over the network to the remote host. Any USB device plugged into the local host appears within the remote host as a native USB device, as if it were plugged in locally. Standard Windows drivers support the device in the remote session, and all device types are supported without requiring additional drivers on the thin client.

Not all devices default to USB redirection. For example, USB keyboards, mice, and other input devices usually are not set to be redirected, as the remote session expects input to come from the thin client. Some devices such as mass storage, printers, and audio devices might use additional options for redirection.

Note the following additional information about USB redirection with RDP:

- The server must support USB redirection for it to be available to the thin client. General-purpose USB redirection is supported with RDVH servers with RemoteFX, Windows 8, and Windows Server 2012.
- The protocol in USB Manager in Control Panel must be set to RDP.
- For RDP connections, the controls in USB Manager determine if a USB device is redirected. The settings for the individual connection determine how a USB device is redirected.

RDP mass storage redirection

By default, the RDP session redirects all mass storage devices to the remote host using high-level drive redirection. When a device such as a USB flash drive, USB DVD-ROM drive, or USB external HDD is plugged into the thin client, the thin client detects and mounts the drive on the local file system. RDP then detects a mounted drive and redirects it to the remote host. Within the remote host, it will appear as a new disk drive in

Windows Explorer, with the name `<device label> on <client hostname>`; for example, `Bill_USB on HP04ab598100ff`.

There are three restrictions to this type of redirection.

- The device will not appear in the taskbar on the remote host with an icon to eject the device. Because of this, make sure to give the device a sufficient amount of time to sync data after a copy before removing the device to be sure that the device does not corrupt. Typically, less than one second is required after the file copy dialog finishes, but up to 10 seconds might be required depending on the device write speed and network latency.
- Only file systems supported by the thin client will be mounted. The supported file systems are FAT32, NTFS, ISO9660 (CD-ROMs), UDF (DVD-ROMs), and ext3.
- The device will be treated as a directory; common drive tasks like formatting and modification of the disk label will not be available.

USB redirection of storage devices can be disabled in an individual connection's settings. If desired, you can disable mass storage redirection altogether. To do this, turn off USB redirection, and then change the registry keys as described in the following table.

Registry entry	Value to set	Description
root/USB/root/holdProtocolStatic	1	Makes sure that the USBR type will not be automatically changed when a connection is set or unset
root/USB/root/protocol	local	Makes sure that the RDP connection does not attempt to redirect any devices to the remote session

To completely disable local mounting of USB mass storage devices or to disable the redirection of USB mass storage devices but still allow other devices to redirect, in the thin client file system, delete the udev rule `/etc/udev/rules.d/010_usbdrive.rules`.

RDP printer redirection

By default, RDP has two methods of printer redirection enabled:

- **USB redirection**—Any USB printer plugged into the device will show up as a local printer in the remote session. The standard printer installation process must happen in the remote session if the printer is not already installed on that remote host. There are no settings to manage locally.
- **High-level redirection**—If either USB redirection is unavailable on the remote host or the printer is a parallel or serial printer, use high-level redirection. Configure the printer to use a local printer spooler, and the RDP client automatically sets up a remote printer that sends print spooling commands through a virtual channel from the remote host to the thin client.

  This method requires both that the printer be configured on the thin client and a Windows driver be specified on the thin client because the RDP client needs to specify to the remote host which driver to use for the remote printer. This Windows driver must match the driver that the printer would use when locally attached to a Windows operating system. This information is usually found under the **Model** in the printer properties.

NOTE: See Serial or parallel printer configuration on page 63 for more information.

RDP audio redirection

By default, high-level audio redirection will redirect audio from the remote host to the thin client. Basic voice control might need to be set up, and RDP 7.1 contains a number of advanced audio redirection features that might require additional configuration.

See the following notes about using audio redirection with RDP:

- RDP delivers the highest quality audio as the network bandwidth allows. RDP reduces audio quality to play on low-bandwidth connections.
- No native audio or video syncing mechanisms are available in standard RDP. Longer videos might not sync with audio. MMR or RemoteFX can resolve this issue.
- HP recommends high-level audio redirection, but USB redirection of audio devices is possible if additional functionality is present, such as a digital volume control. Only high-level redirection is available for analog devices.
- Microphone redirection is enabled by default. The default microphone volume might need to be adjusted on the thin client. Older Windows RDP servers must have their settings modified to enable audio input.
- Both the local and remote volume settings will affect the final volume. HP recommends setting the local volume to a maximum and adjusting the volume within the remote host.

RDP smart card redirection

By default, smart cards will be redirected using high-level redirection, allowing them to be used to log in to the session and other remote applications.

To enable smart card login for an RDP connection:

▲ Select **Allow Smartcard Login** in the RDP Connection Manager.

This will allow the user to connect without first specifying credentials. The RDP client will start the RDP session, and the user will be prompted to authenticate by smart card.

This technology requires drivers for the smart card reader driver to be installed on the thin client. By default, the CCID and Gemalto drivers are installed, which adds support for the majority of smart card readers available. Additional drivers can be installed by adding them to `/usr/lib/pkcs11/`.

NOTE: When smart card login is enabled, Network Level Authentication is not supported and is automatically disabled.

VMware Horizon View

VMware Horizon View per-connection settings

NOTE: These settings affect the connection you are currently configuring only.

Network

The following table describes the settings that are available under the Network category when editing a VMware Horizon View connection.

Option	Description
Name	Enter a name for this connection.
Server	Enter the hostname or IP address of a VMware Horizon View server.

Option	Description
Username	Enter the username to use for the connection.
Password	Enter the password to use for the connection.
Domain	Enter the domain to use for the connection.
Desktop	Specify the optional desktop pool to automatically connect to.

General

The following table describes the settings that are available under the General category when editing a VMware Horizon View connection.

Option	Description
Automatic login	When enabled, the user is automatically logged in when the connection is established. **NOTE:** HP recommends enabling this option.
Allow Smartcard login	Enables smart card login. **NOTE:** For more information on smart cards, see VMware Horizon View smart card redirection on page 30.
Don't start application maximized	If enabled, applications do not start in maximized windows.
Preferred Protocol	Lets you select PCoIP, RDP, or BLAST as the preferred protocol or choose to select the protocol later.
Application Size	Sets the application window size. You can select **All Monitors**, **Full Screen**, **Large Window**, or **Small Window**.
Desktop Size	Sets the desktop window size. You can select **All Monitors**, **Full Screen**, **Large Window**, or **Small Window**.

Security

The following table describes the settings that are available under the Security category when editing a VMware Horizon View connection.

Option	Description
Close After Disconnect	Makes the VMware Horizon View client close automatically after users log out of their desktops or the session terminates with an error. This option is a security feature designed so that a user does not need to take an additional step to fully log out after they are finished with their desktop session. This option is enabled by default for security purposes but can be disabled if users find that they are often switching to a new desktop pool after logging out of a session and do not want to fully log in again.
Hide top Menu bar	Makes the top menu bar invisible for users. This option enabled by default. Disable it if users prefer to access options for window size or desktop pool selection in a VMware Horizon View session.

Option	Description
Prevent users from changing server address	If enabled, end users cannot change the server address.
Connection Security Level	Use the **Connection Security Level** to adjust the security level that the VMware Horizon View client uses when connecting to the server. **NOTE:** For more information, see VMware Horizon View HTTPS and certificate management requirements on page 31 for details on how connection security levels behave.

RDP Options

The following table describes the settings that are available under the RDP Options category when editing a VMware Horizon View connection.

Option	Description
Enable motion events	Enables motion events for this connection.
Enable data compression	Uses data compression for this connection.
Enable deprecated RDP encryption	Enables encryption for this connection.
Enable offscreen cache	If enabled, off-screen memory is used to cache bitmaps.
Attach to admin console	Attaches the connection to the administrator console port.
Cross-session copy/paste	If enabled, copy and paste are enabled between different RDP sessions.
Enable buffering of RDP6 primitives	If enabled, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
Enable Progressive RemoteFX Codec	Enables the RemoteFX Progressive Codec, which transmits the desktop in a series of sharper and sharper images.
Certificate verification policy	Select one of the following: • **Accept all RDP server certificates** • **Use remembered hosts; warn if unknown or invalid certificate** • **Skip remembered hosts; warn if unknown or invalid certificate** • **Connect only to pre-approved RDP servers**
TLS Version	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to **auto**. **NOTE:** There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
Hostname to send	Normally, the thin client's hostname is used for Client Access Licenses. This field allows a different value to be sent. **TIP:** Select the **?** icon next to this option for more information.
Load Balance Info	Use this option with a brokered RDP connection. **TIP:** Select the **?** icon next to this option for more information.
Remote computer sound	Specifies where the remote computer's sound should be played (remotely or locally) or if it should not be played at all.

Option	Description
Enable port mapping	Maps the thin client's serial and parallel ports to the remote session.
Enable printer mapping	Maps the local print queue to the remote session. Use this option if either USB redirection is unavailable on the remote host or the printer is a parallel or serial printer. Configure the printer to use a local printer spooler, and the VMware Horizon View client automatically sets up a remote printer that sends print spooling commands through a virtual channel from the remote host to the thin client. This method requires both that the printer be configured on the thin client and a Windows driver be specified on the thin client because the VMware Horizon View client needs to specify to the remote host which driver to use for the remote printer. This Windows driver must match the driver that the printer would use when locally attached to a Windows operating system. This information is usually found under the **Model** in the printer properties.
Shared folders	**Add**, **Remove**, or **Edit** shared folders.

RDP Experience

The following table describes the settings that are available under the RDP Experience category when editing a VMware Horizon View connection.

Option	Description
Enable MMR	Enables multimedia redirection.
Choose your connection speed to optimize performance	Selecting a connection speed (**LAN**, **Broadband**, or **Modem**) will enable or disable the following options to optimize performance: • **Desktop background** • **Font smoothing** • **Desktop composition** • **Show contents of window while dragging** • **Menu and window animation** • **Themes** Selecting **Client Preferred Settings** will allow the VMware Horizon View client to choose which options to use. You can also select your own custom combination of options.
End-to-End Connection Health Monitoring	Select to enable the timeout options.
Warning Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server before the user is warned of a lost connection. This function can be disabled by clearing the option or setting the time to zero. With the **Show Warning Dialog** option selected, a warning dialog will be displayed when this timeout is reached. Otherwise, the warning is written to the connection log only. **TIP:** HP recommends increasing the timeout value for networks that experience frequent busy periods or momentary outages.
Recovery Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits for the connection to recover without taking any special

Option	Description
	action. At the end of this period, the RDP client attempts a quick reconnection with the session.
Error Timeout	Specifies the amount of time in seconds after receiving the last network traffic from the server that the RDP client waits before stopping attempts to reconnect with that server. **TIP:** Select the **?** icon next to this field for more information.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

VMware Horizon View multi-monitor sessions

VMware Horizon View supports multi-monitor sessions. To enhance the virtualization experience, the default VMware Horizon View sessions use full-screen and span all monitors. To choose a different window size, select **Full Screen – All Monitors** under the protocol type of the desktop pool for the connection and then choose another option from the window size list. The next time you connect to a session the window will open in the selected size.

VMware Horizon View keyboard shortcuts

Windows keyboard shortcuts

To help administer Windows systems, VMware Horizon View supports Windows keyboard shortcuts. For example, when Ctrl+Alt+Del is used, VMware Horizon View displays a message that provides the following options:

- Send a **Ctrl**+**Alt**+**Del** command.
- Disconnect the session—Use this when you have no other way of ending the session.

Windows keyboard shortcuts will be forwarded to the remote desktop session. The result is that local keyboard shortcuts, such as Ctrl+Alt+Tab and Ctrl+Alt+F4, will not function while inside the remote session.

TIP: To be able to switch sessions, disable the **Hide top Menu bar** option in the VMware Horizon View Connection Manager or via the registry key `root/ConnectionType/view/connections/<UUID>/hideMenuBar`.

Media keys

VMware Horizon View uses media keys to control options such as volume, play/pause, and mute during a remote desktop session. This supports multimedia programs such as Windows Media Player.

VMware Horizon View multimedia redirection

VMware Horizon View connections support MMR functionality when used with the Microsoft RDP protocol.

For more information, see RDP multimedia redirection on page 22.

VMware Horizon View device redirection

VMware Horizon View USB redirection

To enable USBR for VMware Horizon View connections, select **VMware Horizon View** as the remote protocol in USB Manager.

For more information on USBR, including device- and class-specific redirection, see RDP USB redirection on page 22.

VMware Horizon View mass storage redirection

You must use the RDP connection protocol to use mass storage redirection with a VMware Horizon View connection.

To perform drive redirection of a USB drive or internal SATA drive:

▲ Add – `xfreerdpoptions='/drive:$foldname,shared folder path, share device'` in the command-line arguments option.

For example, `–xfreerdpoptions='/drive:myfolder,/home/user,/dev/sda2'` shares the `/home/user` on the `/dev/sda2` drive as `myfolder` in a VMware Horizon View connection.

For more details, see RDP mass storage redirection on page 22.

VMware Horizon View printer redirection

For connections made with the PCoIP protocol on x86 units, printers can be shared using VMware Horizon View's high-level printer redirection or USBR. PCoIP connections on ARM units support only USBR printer redirection. For connections made with the RDP protocol, see RDP printer redirection on page 23 for more information.

VMware Horizon View audio redirection

If you do not need the audio recording capability, use high-level audio redirection. Audio will play out of the 3.5 mm jack or, by default, a USB headset if it is plugged in. Use the local audio manager to adjust the input/output level, select playback, and capture devices.

The VMware Horizon View client supports high-level audio-record redirection only via the PCoIP connection type on x86 units when connecting to a server running VMware Horizon View 5.2 Feature Pack 2 or higher. If you need audio-recording support and are using a different configuration, use one of the following methods:

- If your system uses VMware Horizon View Client 1.7 or higher, use the RDP protocol to allow for high-level audio redirection through either the 3.5 mm jack or a USB headset.

NOTE: To use high-level audio-record redirection through the RDP protocol, the server must support it and be configured to allow audio recording over a remote session. The server must be running Windows 7 or greater. You also must make sure the `HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp\fDisableAudioCapture` registry key is set to `0`.

- If you have a USB headset with a microphone, you can use USBR. Set the USB headset to be redirected into the session. The headset will show up as an audio device. By default, USB audio devices are not redirected and the VMware Horizon View client uses high-level audio redirection. To redirect the USB headset, use the thin client's USB Manager and select the USB headset to be redirected. Make sure that **VMware Horizon View** is selected as the USBR protocol and make sure that the headset is checked under the **Devices** to be redirected.

NOTE: VMware and HP do not recommend using USBR for headsets. A large amount network bandwidth is required to stream audio data over the USBR protocol. Also, you might experience poor audio quality with this method.

VMware Horizon View smart card redirection

To use a smart card to log in to the VMware Horizon View server:

1. Be sure smart card login is enabled in the VMware Horizon View Connection Manager.

   After starting the connection, the VMware Horizon View client will display a list of server credentials.

2. To unlock the credentials and access the VMware Horizon View Manager server, type the appropriate PIN for the server.

NOTE: After you supply the correct PIN, the user's credentials will be used to log in to the VMware Horizon View Manager server. Please see the VMware Horizon View documentation for details on configuring the server to support smart card login. As long as the server is configured to allow smart card login, the user's credentials will pass through and they will be logged in to the desktop without having to enter their PIN again.

NOTE: To log in to the VMware Horizon View Manager administrator server with a smart card, the local smart card driver must be installed on the thin client. See RDP smart card redirection on page 24 for more information on smart card driver installation. Once logged in to the remote host, the smart card will be passed to the remote host using a virtual channel, not USBR. This virtual channel redirection makes sure that the smart card can be used for tasks such as email signing, screen locking, and so on, but might cause the smart card to not show as a smart card device in the Windows Device Manager.

NOTE: The remote host must have the proper smart card drivers installed.

VMware Horizon View webcam redirection

The VMware Horizon View client supports high-level webcam redirection only through RTAV using x86 units connected to a back-end server running VMware Horizon View 5.2 Feature Pack 2 or higher. Other connection methods do not support high-level webcam redirection and can redirect webcams only using USBR. Based on internal testing and validation, HP has found that the performance of a webcam connected through basic USBR performs poorly. HP does not recommend the use of this configuration and suggests that customers who require this function test using x86 units with RTAV technology to ensure satisfactory levels of performance. With USBR, the webcam might perform poorly or not at all. See RDP USB redirection on page 22 for more information.

Changing the VMware Horizon View protocol

VMware Horizon View Client can use either the PCoIP, RDP, or BLAST protocol.

To change the protocol:

1. In VMware Horizon View Client, select a pool that supports one of the supported protocols.
2. Under the **Connection** menu, select **Settings**.
3. Change the protocol by using the drop-down box next to **Connect Via**.

NOTE: Use VMware Horizon View Manager to set which protocol should be used for each desktop pool.

TIP: HP recommends using the PCoIP protocol to enhance the desktop experience. However, the RDP protocol provides more options for customization and might work better on slower connections.

VMware Horizon View HTTPS and certificate management requirements

VMware Horizon View Client 1.5 and VMware Horizon View Server 5.0 and later require HTTPS. By default, the VMware Horizon View client warns about untrusted server certificates, such as self-signed (like the VMware Horizon View Manager default certificate) or expired certificates. If a certificate is signed by a Certificate Authority (CA) and the CA is untrusted, the connection will return an error and the user will not be allowed to connect.

HP recommends that a signed certificate verified by a standard trusted root CA be used on the VMware Horizon View Manager server. This makes sure that users will be able to connect to the server without being prompted or required to do any configuration. If using an internal CA, the VMware Horizon View client connection returns an error until you complete one of the following tasks:

- Use the Certificate Manager to import the certificate from a file or URL.
- Use a remote profile update to import a certificate.
- In the VMware Horizon View Connection Manager, set **Connection Security Level** to **Allow all connections**.

The following table describes certificate trust when the security level is set to **Refuse insecure connections**.

Certificate trust	Result
Trusted	Trusted
Self-signed	Error
Expired	Error
Untrusted	Error

The following table describes certificate trust when the security level is set to **Warn**.

Certificate trust	Result
Trusted	Trusted
Self-signed	Warning
Expired	Warning
Untrusted	Error

The following table describes certificate trust when the security level is set to **Allow all connections**.

Certificate trust	Result
Trusted	Trusted
Self-signed	Untrusted
Expired	Untrusted
Untrusted	Untrusted

The following table describes the connection behavior associated with each result.

Result	Description
Trusted	Connects without a certificate warning dialog and displays a green lock icon
Untrusted	Connects without a certificate warning dialog and displays a red unlock icon
Warning	Connects with a certificate warning dialog and displays a red unlock icon
Error	Does not allow the connection

Web Browser

Web Browser general settings

The following table describes the Web Browser general settings.

NOTE: These settings affect all Web Browser connections.

Option	Description
Web Browser preferences	Opens the Firefox Preferences dialog.
Allow connections to manage their own settings	When enabled, Firefox settings are saved for each Web Browser connection. Otherwise, the settings are reset each time the connection is launched.

Web Browser per-connection settings

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Web Browser connection.

Option	Description
Name	The connection name.
URL	The URL for the connection.
Intended Use	Lets you set the intended use of the connection to either **Citrix**, **RDP**, or **Internet**.
Enable kiosk mode	Enables kiosk mode.
Enable full screen	Uses full screen mode for the connection.
Enable print dialog	Enables the print dialog box.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

Additional connection types (ThinPro only)

NOTE: By default, these connection types are not available in Smart Zero. For more information, see Choosing an OS configuration on page 2.

TeemTalk

NOTE: These settings affect the connection you are currently configuring only.

For more information about HP TeemTalk, see the *User Guide* for HP TeemTalk.

Configuration

The following table describes the settings that are available under the Configuration category when editing a TeemTalk connection.

Option	Description
Name	The connection name.
TeemTalk creation wizard	Opens the TeemTalk Session Wizard. See the other tables in this section for more information.
System beep	Enables the system beep sound.

TeemTalk Session Wizard

The following table describes the settings that are available under the Connection Information category in the TeemTalk Session Wizard.

Option	Description
Session Name	The name of the session.
Transport	The network transport to use for the connection. Valid transports are: **TCP/IP**, **Serial**, **SSH2**, and **SSL**.
Connection	The connection method to be used. Advanced connection options can be configured via the button.
Emulation	Emulation types are: **hp70092**, **IBM 3151**, **IBM3270 Display**, **IBM3270 Printer**, **IBM5250 Display**, **IBM5250 Printer**, **MD Prism**, **TA6530**, **VT Series**, and **Wyse**.

The following table describes the settings that are available under the Advanced Options category in the TeemTalk Session Wizard.

Option	Description
Emulation Printer	The HP TeemTalk emulation printer settings.
Auto Logon	The HP TeemTalk auto login settings.
Key Macros	The HP TeemTalk key macros settings.
Mouse Actions	The HP TeemTalk mouse actions settings.
Soft Buttons	The HP TeemTalk soft buttons settings.

Option	Description
Attributes	The HP TeemTalk attributes settings.
Auxiliary Ports	The HP TeemTalk auxiliary ports settings.
Hotspots	The HP TeemTalk hotspots settings.

The following table describes the settings that are available under the Preferences category in the TeemTalk Session Wizard.

Option	Description
Start session connected	Starts the session connected.
Show Status Bar	Displays the status bar for this connection.

The following table describes additional settings that are available under the Preferences category in the TeemTalk Session Wizard.

Option	Description
Show Configuration Bar	Displays the Configuration Bar.
Save Current Window Position	Saves current window's size and position when you select **Save Preferences**. It will be restored on the next system launch. **NOTE:** Select **Save Preferences** each time you change the window size or position to save the new values.
Run in Full Screen Mode	Select to make the window full screen and remove the frame, soft buttons, menu, and configuration bars. **NOTE:** This option does not become effective until the next system launch and overrides the **Show Configuration Bar** and **Save Current Window Position** options.
Browser Command	In the box, type the command that runs your web browser, such as: `/ display html links Firefox`
Command Line Start Up Options	Use to specify an alternate location for the startup options. **NOTE:** For specific information on HP TeemTalk Command Line Startup Options, see the *HP TeemTalk Terminal Emulator User Guide*.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

XDMCP

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing an XDMCP connection.

Option	Description
Name	The connection name.
Type	The XDMCP connection type. Valid options are: **chooser**, **query**, and **broadcast**.
Address	This value is required if the **Type** value is set to **query**.
Use font server	Use a remote X font server instead of locally installed fonts.
Font server	Font server is not enabled unless the **Use font server** option is checked.
Configure display	Select to set the display configuration for the connection. If you do not set this configuration, the default configuration will be used.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

SSH

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing an SSH connection.

Option	Description
Name	The connection name.
Address	The IP address of the remote system.
Port	The remote port to use for the connection.
User name	The username to use for the connection.
Run application	The application to run to make the connection.
Compression	Select this option if you want to compress the data sent between the server and thin client.
X11 connection forwarding	If the server has an X server on it, select this option to allow the user to open user interfaces from the SSH session and display them locally on the thin client.
Force TTY allocation	Select this option and specify a command to initiate a temporary session to run the command. Once the command has completed, the session will terminate. If no command is specified, then the session will run normally as if the option were not selected.
Foreground color	The default color of the text in the SSH session.

Option	Description
Background color	The default color of the background in the SSH session.
Font	Valid options are: **7X14**, **5X7**, **5X8**, **6X9**, **6X12**, **7X13**, **8X13**, **8X16**, **9X15**, **10X20**, and **12X24**.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

Telnet

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Telnet connection.

Option	Description
Name	The name of the connection.
Address	The IP address of the remote system.
Port	The port to use on the remote system.
Foreground color	The foreground color.
Background color	The background color.
Font	Valid options are: **7X14**, **5X7**, **5X8**, **6X9**, **6X12**, **6X13**, **7X13**, **8X13**, **8X16**, **9X15**, **10X20**, and **12X24**.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

Custom

If you would like to install a custom Linux® application, you can use the Custom connection to allow you to open this application through Connection Manager.

NOTE: These settings affect the connection you are currently configuring only.

Configuration

The following table describes the settings that are available under the Configuration category when editing a Custom connection.

Option	Description
Name	The connection name.
Enter command to run	The command to run to make the remote connection.

Advanced

NOTE: See Advanced connection settings on page 8 for information about the settings available under the Advanced category when editing a connection.

5 Control Panel

Control Panel lets you modify the system configuration.

NOTE: All Control Panel items are accessible in administrator mode. In user mode, only Control Panel items that are enabled by the administrator for use by users are accessible.

TIP: To specify which Control Panel items end users have access to, select the Control Panel button, select **Setup**, select **Customization Center**, and then select or clear items in the **Applications** list.

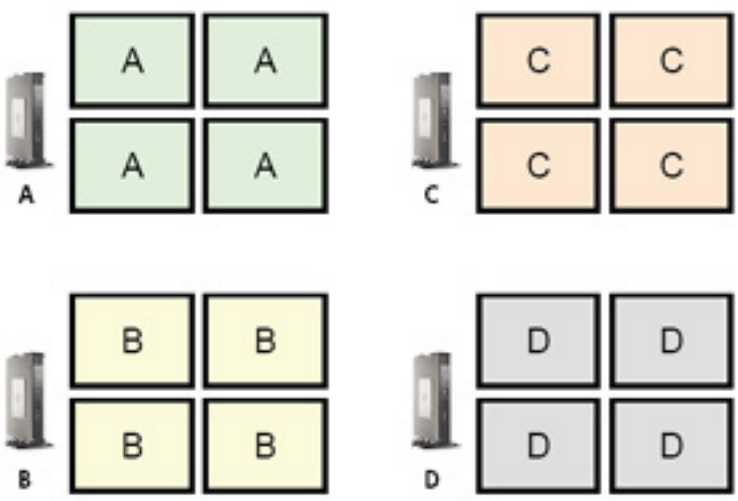
Peripherals

Menu option	Description
Client Aggregation	Lets you combine thin clients to create additional screen real estate. For more information, see Client aggregation on page 39.
Display Preferences	Lets you configure and test options for both a primary and secondary display. For more information, see Display preferences on page 41.
Keyboard Layout	Lets you change the keyboard layout to accommodate the language used by the keyboard.
Sound	Lets you control the playback and input audio levels.
Mouse	Lets you configure the mouse speed and whether mouse input is right-handed or left-handed.
Printers	Lets you set up local and network printers. Local printers can be shared across the network. For more information, see Configuring printers on page 41.
Touch Screen	Lets you configure touch screen options.
USB Manager	Lets you configure the redirection options for USB devices. For more information, see Redirecting USB devices on page 42.
SCIM Input Method Setup	Lets you configure the Smart Common Input Method (SCIM) for Chinese, Japanese, and Korean input. For more information on this open source program, go to http://sourceforge.net/apps/mediawiki/scim/index.php?title=Main_Page.

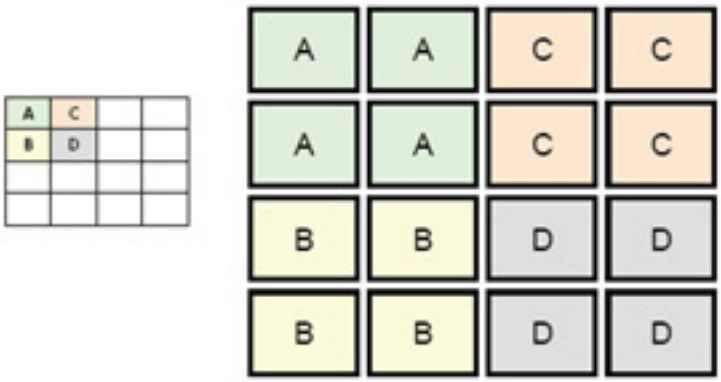
Client aggregation

HP ThinPro-based thin clients can support up to four monitors, depending on the hardware model. If you need additional screen real estate, client aggregation allows up to four thin clients to be combined together making it possible to have a total of 16 monitors controlled by a single keyboard and mouse, without the need for additional hardware or software.

Assume that you have four thin clients, each with four monitors configured as a 2x2 array as shown below.

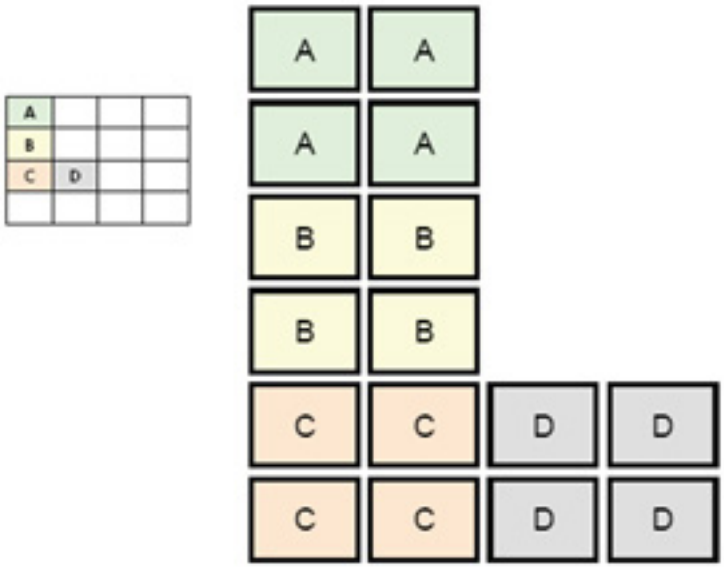


Client aggregation allows you to arrange the four thin clients on a 4x4 grid. The following illustration shows one possible arrangement.



When moving the mouse pointer off the right side of the thin client A monitors, for example, the pointer will appear on the left side of the thin client C monitors. Likewise, keyboard input will be redirected from thin client A to thin client C.

The following illustration shows another possible arrangement.



In this configuration, moving the mouse pointer off the right side of the thin client A monitors will cause it to appear on the upper 1/3 of the left side of the thin client D monitors. Similarly, moving the mouse pointer off the right side of the thin client B monitors will cause it to appear in the middle 1/3 of the left side of the thin client D monitors. Finally, moving the mouse pointer off the right side of the thin client C monitors will cause it to appear in the lower 1/3 of the left side of the thin client D monitors.

NOTE: Desktop windows cannot span or be moved between thin clients. Typically, each thin client will create windows based on its connection to an associated remote computer, and there won't be a need to move windows between thin clients.

The thin client physically connected to the keyboard and mouse is referred to as the aggregation server. The other thin clients are referred to as aggregation clients. When the mouse pointer is on one of the aggregation clients, the mouse and keyboard inputs (from the aggregation server) are encrypted and sent over the network to that aggregation client. The aggregation client decrypts the mouse and keyboard inputs and passes the inputs to the local desktop of the aggregation client.

Client aggregation is based on an open source software package called Synergy, with encryption provided by a package called stunnel.

Configuring client aggregation

Client aggregation configuration is a two-step process:

1. Configuring the aggregation clients on page 40
2. Configuring the aggregation server on page 41

Configuring the aggregation clients

Perform this procedure on each aggregation client:

1. Select **Peripherals > Client Aggregation** in Control Panel.
2. Select **Client**.
3. Enter the server hostname or IP address of the aggregation server in the field.
4. Select **Apply**.

Configuring the aggregation server

To configure the aggregation server:

1. Select **Peripherals > Client Aggregation** in Control Panel.
2. Select **Server**.
3. The aggregation server is displayed in a blue box that contains its hostname. Select and drag the aggregation server to the desired location in the 4x4 grid.
4. Select the location in the 4x4 grid where you want to place the first aggregation client, type its hostname or IP address, and then press Enter. The aggregation client is displayed in a green box.
5. Add up to two additional aggregation clients in the 4x4 grid, if desired.

   Placement of the aggregation server and the aggregation clients in the 4x4 grid can be modified at any time by clicking and dragging the corresponding box to a new location.

Once the aggregation clients and the aggregation server have been configured, they automatically attempt to establish encrypted communications with each other. Select **Status** to view the connection status between computers.

Display preferences

HP ThinPro allows you to create profiles for display preferences and apply different profiles to different monitors. A profile includes resolution, refresh rate, bit depth, and orientation.

To configure display profiles:

1. Select **Peripherals > Display Preferences** in Control Panel.
2. Configure the options as necessary, and then select **Apply**.

NOTE: The options may differ depending on the hardware model.

See the following tips about when customizing display profiles would be useful:

- Some applications might require a specific resolution or bit depth to function properly.
- Some applications might require the display to be rotated.
- Using a 16-bit color depth should improve Citrix and RDP connection performance because less data has to be transmitted over the network or sent to the graphics chip.
- AMD-based platforms (t520, t610, t620) offer only 32-bit color depth. The t505 and t510 offer either 16-bit or 32-bit color depth. In all cases, 32-bit color depth actually uses 24 bits.
- An administrator might want to standardize on one display profile, even though there are many different monitors across the organization.

Configuring printers

To configure a printer:

1. Select **Peripherals > Printers** in Control Panel.
2. In the **Printing** dialog, select **Add** .
3. In the **New Printer** dialog, select the printer to configure, and then select **Forward**.

NOTE: If you select a serial printer, be sure to input the correct settings on the right side of the dialog, or the printer might not function correctly.

4. Select the make of the printer. If you are unsure, select the **Generic (recommended)** option, and then select **Forward**.
5. Select the model of and driver for the printer, and then select **Forward**.

NOTE: If you are unsure of the printer model or which driver to use, or if the model of your printer is not listed, select **Back** and try using the **Generic (recommended)** option for the make of the printer.

If using the **Generic (recommended)** make, be sure to select **text-only (recommended)** for the model and **Generic text-only printer [en] (recommended)** for the driver.

6. Fill in optional information about the printer, such as its name and location.

NOTE: HP recommends that you enter in the correct driver name into the **Windows Driver** box. Without a driver to map to when connecting to a remote session, Windows might not use the correct driver and printing might not work. The driver must also be installed on the Windows server for the printer to work properly.

7. Select **Apply**, and then print a test page if desired.

Repeat this process to configure additional printers if necessary.

TIP: The most common problem is that the wrong driver is being used for the printer. To change the driver, right-click the printer and select **Properties**, and then change the make and model.

Redirecting USB devices

To redirect USB devices:

1. Select **Peripherals > USB Manager** in Control Panel.
2. On the **Protocol** page, select a remote protocol.

   If the setting is **Local**, you can also specify the options **allow devices to be mounted** and **mount devices read-only**.
3. On the **Devices** page, you can enable or disable redirection for individual devices if necessary.
4. On the **Classes** page, you can select specific device classes to be redirected to remote sessions.
5. When finished, select **OK**.

Setup

Menu option	Description
Background Manager	Lets you configure the background theme and dynamically display system information (such as the thin client's hostname, IP address, hardware model, and MAC address) in the background. For more information, see the HP ThinPro white paper *Login Screen Customization* (available in English only).
Date and Time	Lets you configure the time zone and the date and time options.
Language	Lets you display the HP ThinPro interface in a different language.
Network	Lets you configure network settings. For more information, see Network settings on page 43.

Menu option	Description
Power Manager	Lets you configure power management settings such as a screensaver, when to turn off the display, and when to enter sleep mode.
Security	Lets you set up or change system passwords for the thin client administrator and user.
Customization Center	Lets you do the following: • Switch between the ThinPro and Smart Zero configurations • Configure desktop and taskbar options • Select which connection types and Control Panel items end users have access to For more information, see Customization Center on page 46.

Network settings

Network settings can be configured using the Network Manager. To open the Network Manager:

▲ Select **Setup > Network** in Control Panel.

See the following sections for more information about the different tabs in the Network Manager:

- Wired network settings
- Wireless network settings
- DNS settings
- IPSec rules
- Configuring VPN settings
- Configuring HP Velocity

Wired network settings

The following table describes the options available in the **Wired** tab of the Network Manager.

Option	Description
Enable IPv6	Enables IPv6. IPv4 is used by default, and they cannot be used at the same time.
Ethernet Speed	Lets you set the Ethernet Speed. If your switch or hub does not have a special requirement, leave this at the default setting of **Automatic**.
Connection Method	Lets you choose between **Automatic** and **Static**. If your network environment is using DHCP, then the **Automatic** option should work without any further configurations needed. If **Static** is selected, the **Static Address Configuration** settings will become available. Be sure to input these values according to whether you are using IPv4 or IPv6.
MTU	Allows you to enter the maximum transmission unit (in bytes).
Security Settings	Lets you set the authentication setting to one of the following: • None • 802.1X-TTLS • 802.1X-PEAP

Option	Description
	• 802.1X-TLS Note the following about TTLS and PEAP: • The **Inner Authentication** option should be set to whatever your server supports. • The **CA Certificate** setting should point to the server's certificate on the local thin client. • The **Username** and **Password** are the user's credentials. Note the following about TLS: • The **CA Certificate** setting should point to the server's certificate on the local thin client. • If your **Private Key** file is .p12 or .pfx, then the **User Certificate** setting can be left blank. • The **Identity** setting should be the username that corresponds to the user certificate. • The **Private Key Password** setting is the password of the user's private key file.

Wireless network settings

The following table describes the options available in the **Wireless** tab of the Network Manager.

NOTE: This tab is available only if the thin client has a wireless adapter.

Option	Description
Scan AP	Scans for available wireless networks.
SSID	Use this box to manually enter the SSID of the wireless network if it is not found by the scan.
SSID Hidden	Enable this option if the SSID of the wireless network is set to be hidden (not broadcasting).
Enable IPv6	Enables IPv6. IPv4 is used by default, and they cannot be used at the same time.
Enable Power Management	Enables the power management feature for the wireless adapter.
Connection Method	Lets you select between **Automatic** and **Static**. If your network environment is using DHCP, then the **Automatic** option should work without any further configurations. If **Static** is selected, the **Static Address Configuration** settings will become available. Be sure to input these values according to whether you are using IPv4 or IPv6.
Security Settings	Lets you set the authentication setting to one of the following: • None • WEP • WPA/WPA2-PSK • 802.1X-TTLS • 802.1X-PEAP • 802.1X-TLS • EAP FAST For WEP and WPA/WPA2-PSK, you just need to enter the network key and select **OK**. For EAP-FAST, set **Anonymous Identity**, **Username**, **Password**, and **Provisioning Method**. You do not need to change the PAC file settings. See Wired network settings on page 43 for more information about TTLS, PEAP, and TLS.

DNS settings

The following table describes the options available in the **DNS** tab of the Network Manager.

Option	Description
Hostname	This is generated automatically according to the MAC address of the thin client. You can alternatively set a custom hostname.
DNS Servers	Use this box to set custom DNS server information.
Search Domains	Use this box to restrict the domains that are searched.
HTTP Proxy FTP Proxy HTTPs Proxy	Use these boxes to set proxy server information using the following format: `http://`*ProxyServer*`:`*Port* HP recommends using the `http://` prefix for all three proxy settings because it is supported better. **NOTE:** The proxy settings are set to the **http_proxy**, **ftp_proxy**, and **https_proxy** environmental variables for the system.

IPSec rules

Use this tab to add, edit, and delete IPSec rules. An IPSec rule should be the same for each system that uses IPSec to communicate.

When configuring an IPSec rule, use the **General** tab to set the rule's information, addresses, and authentication method. The **Source Address** is the IP address of the thin client, and the Destination Address is the IP address of the system that the thin client is going to communicate with.

NOTE: Only the **PSK** and **Certificate** authentication types are supported. Kerberos authentication is not supported.

Use the **Tunnel** tab to configure settings for tunnel mode.

Use the **Phase I** and **Phase II** tabs to configure advanced security settings. The settings should be the same for all peer systems that communicate with each other.

NOTE: An IPSec rule can also be used to communicate with a computer running Windows.

Configuring VPN settings

HP ThinPro supports two types of VPN:

- Cisco
- PPTP

Enable the **Auto Start** option to start the VPN automatically.

Note the following about creating a VPN using Cisco:

- The **Gateway** is the gateway's IP address or hostname.
- The **Group name** and **Group password** are the IPSec ID and IPSec password.
- The **Domain** setting is optional.
- The **User name** and **User password** are the user credentials that have rights to create a VPN connection on the server side.
- The **Security Type** should be set the same as it is on the server side.

- The **NAT Traversal** option should be set according to your VPN environment.
- The **IKE DH Group** option sets the Diffie-Hellman group to use for VPN.
- The **PFS Type** option sets the Diffie-Hellman group to use for Perfect Forward Secrecy.

Note the following about creating a VPN using PPTP:

- The **Gateway** is the gateway's IP address or hostname.
- The **NT Domain** setting is optional.
- The **User name** and **User password** are the user credentials that have rights to create a VPN connection on the server side.

Configuring HP Velocity

Use the **HP Velocity** tab to configure HP Velocity settings. Go to http://www.hp.com/go/velocity for more information about the HP Velocity modes.

Customization Center

To open Customization Center:

▲ Select **Setup > Customization Center** in Control Panel.

The button at the top of the **Desktop** page can be used to switch between the ThinPro and Smart Zero configurations. See Choosing an OS configuration on page 2 for more information about the differences between the two configurations.

NOTE: When switching from ThinPro to Smart Zero, if you have configured a single connection, that connection is used automatically as the Smart Zero connection. If you have configured multiple connections, you are prompted to select the connection to use.

The following table describes the rest of the options available on the **Desktop** page.

Option	Description
Launch the Connection Manager at start up	When enabled, Connection Manager launches automatically at system startup.
Enable right-click menu	Disable this option to disable the context menu that appears when you right-click the desktop
Allow user to switch to admin mode	Disable this option to remove the **Administrator/User Mode Switch** option from Control Panel in user mode.
Show password button	When enabled, the **Show password** option is available in the administrator login dialog box.
Enable X host access control security	When enabled, only the systems listed in the **XHost Access Control List** area are allowed to remotely control the thin client.
Enable USB Update	Enables updates to be installed from a USB flash drive. See USB updates on page 68 for more information.
Authenticate USB Update	Disable this option to allow end users to install updates via USB.

Use the **Connections** and **Applications** pages to select which connection types and Control Panel applications are available in user mode.

Use the **Taskbar** page to configure the taskbar.

Management

Menu option	Description
AD/DDNS Manager	Lets you add the thin client to an organizational unit of the Active Directory server and enable automatic Dynamic DNS updates of the thin client's name and IP address association. **NOTE:** This tool does not enable authentication against the Active Directory database.
HPDM Agent	Lets you configure the HP Device Manager (HPDM) Agent. For more information, see the *Administrator Guide* for HPDM.
Automatic Update	Lets you configure the Automatic Update server manually. For more information, see HP Smart Client Services on page 56.
Component Manager	Lets you remove system components. For more information, see Component Manager on page 47.
Easy Update	Opens the Easy Update wizard. Easy Update is a component of HP Easy Tools that lets you install the latest software updates for the thin client. **TIP:** Selecting **Preserve thin client Configuration** when performing an image update preserves all previously configured settings. For more information about HP Easy Tools, see the *Administrator Guide* for HP Easy Tools.
Factory Reset	Lets you restore the thin client to its default factory configuration.
Snapshots	Lets you restore the thin client to a previous state or to its default factory configuration.
SSHD Manager	Enables access through a secure shell.
ThinState	HP ThinState lets you make a copy of or restore the entire operating system image or just its configuration settings. For more information, see HP ThinState on page 48.
VNC Shadow	Lets you configure VNC Shadowing options. For more information, see VNC Shadowing on page 52.
Wireless Statistics	Lets you view information about wireless access points.

Component Manager

The Component Manager lets you remove system components that are not going to be used in your environment, which might be desirable to reduce the image size. For example, if Citrix connections are never used in your environment, you might want to remove the Citrix component.

As components are removed, the new configuration can be tested before you apply the changes permanently. You can also undo changes that were made, if the changes have not yet been applied permanently.

IMPORTANT: After the new configuration is applied permanently, all snapshots are removed and a new factory snapshot is created. Removed components cannot be restored after this point.

To open the Component Manager:

▲ Select **Management > Component Manager** in Control Panel.

Removing components

To remove components:

1. In the Component Manager, select the desired components.

TIP: To select multiple components, use Ctrl or Shift.

2. Select **Remove Component(s)**.
3. If the confirmation dialog appears, select **OK**.
4. After the components are removed, test the new configuration.

Undoing a change

You can undo each change, one at a time, if the changes have not yet been applied permanently. A restart of the thin client is required after each undo.

To undo a change made with the Component Manager:

1. In the Component Manager, select **Revert Last Change**.
2. Select **Yes** to restart the thin client.

Repeat this process for as many changes you want to undo.

IMPORTANT: If you take a snapshot of the image while testing a new configuration, you cannot undo the changes via the Component Manager. Those changes can be undone only by restoring a previous snapshot via the Snapshots tool. However, this does not work if the changes have already been applied permanently, because that function deletes all existing snapshots. If changes have already been applied permanently, you must reinstall the operating system to restore most removed components. Some components (such as Citrix, RDP, and VMware Horizon View) might be available as add-ons on the web and can be restored by reinstalling them.

Applying the changes permanently

To apply changes made with the Component Manager permanently:

IMPORTANT: After the new configuration is applied permanently, all snapshots are removed and a new factory snapshot is created. Removed components cannot be restored after this point.

1. In the Component Manager, select **Apply Component Configuration**.
2. Select **Yes**.

HP ThinState

HP ThinState allows you to capture and deploy an HP ThinPro image or configuration (profile) to another thin client of compatible model and hardware.

Managing an HP ThinPro image

Capturing an HP ThinPro image to an FTP server

To capture an HP ThinPro image to an FTP server:

IMPORTANT: The directory on the FTP server where you intend to save the captured image must already exist before initiating the capture.

1. Select **Management > ThinState** in Control Panel.
2. Select **the HP ThinPro image**, and then select **Next**.
3. Select **make a copy of the HP ThinPro image**, and then select **Next**.
4. Select **a FTP server**, and then select **Next**.
5. Enter the FTP server information in the fields.

   NOTE: The name of the image file is set by default to be the thin client's hostname.

   Select **Compress the image** if you want to compress the captured image.

   NOTE: The HP ThinPro image file is a simple disk dump. The uncompressed size is about 1 GB, and a compressed image without add-ons is approximately 500 MB.

6. Select **Finish**.

   When the image capture begins, all applications stop and a new window appears showing the progress. If a problem occurs, select **Details** for information. The desktop reappears after the capture is complete.

Deploying an HP ThinPro image using FTP or HTTP

IMPORTANT: If you abort a deployment, the previous image will not be restored and the contents of the thin client's flash drive will be corrupted.

To deploy an HP ThinPro image using FTP or HTTP:

1. Select **Management > ThinState** in Control Panel.
2. Select **the HP ThinPro image**, and then select **Next**.
3. Select **restore an HP ThinPro image**, and then select **Next**.
4. Select either the FTP or HTTP protocol, and then enter the server information in the fields.

   NOTE: The **Username** and **Password** fields are not required if you are using the HTTP protocol.

5. Select **Retain HP ThinPro Configuration** if you want to preserve all previously configured settings.
6. Select **Finish**.

   When the image deployment begins, all applications stop and a new window appears showing the progress. If a problem occurs, select **Details** for information. The desktop reappears after the deployment is complete.

   NOTE: An MD5sum check is done only if the MD5 file exists on the server.

Capturing an HP ThinPro image to a USB flash drive

To capture an HP ThinPro image to USB flash drive:

IMPORTANT: Back up any data on the USB flash drive before you begin. HP ThinState automatically formats the flash drive to create a bootable USB flash drive. This process will erase all data currently on the flash drive.

1. Select **Management > ThinState** in Control Panel.
2. Select **the HP ThinPro image**, and then select **Next**.
3. Select **make a copy of the HP ThinPro image**, and then select **Next**.
4. Select **create a bootable USB flash drive**, and then select **Next**.

   The thin client restarts and then prompts you to enter a USB flash drive.
5. Insert a USB flash drive into a USB port on the thin client.
6. Select the USB flash drive, and then select **Finish**.

   A new window displays the progress. If a problem occurs, select **Details** for information. The desktop reappears after the capture is complete.

Deploying an HP ThinPro image with a USB flash drive

To deploy an HP ThinPro image with a USB flash drive:

IMPORTANT: If you abort a deployment, the previous image will not be restored and the contents of the thin client's flash drive will be corrupted. In this state, the thin client must be reimaged using a USB flash drive.

1. Turn off the target thin client.
2. Insert the USB flash drive.
3. Turn on the thin client.

NOTE: The screen remains black for 10-15 seconds while the thin client detects and boots from the USB flash drive. If the thin client fails to boot from the USB flash drive, try unplugging all other USB devices and repeat the procedure.

Managing a client profile

A client profile contains the connections, settings, and customizations that you configured using Connection Manager and Control Panel. A profile is saved in a configuration file that is specific to the version of HP ThinPro in which it was created.

NOTE: A client profile can also be preconfigured and deployed using Profile Editor and Automatic Update (see Profile Editor on page 60 and HP Smart Client Services on page 56 for more information).

Saving a client profile to an FTP server

To save a client profile to an FTP server:

IMPORTANT: The directory on the FTP server where you intend to save the profile must already exist before initiating the save.

1. Select **Management > ThinState** in Control Panel.
2. Select **the HP ThinPro configuration**, and then select **Next**.

3. Select **save the configuration**, and then select **Next**.
4. Select **on a FTP server**, and then select **Next**.
5. Enter the FTP server information in the fields.
6. Select **Finish**.

Restoring a client profile using FTP or HTTP

To restore a client profile using FTP or HTTP:

1. Select **Management > ThinState** in Control Panel.
2. Select **the HP ThinPro configuration**, and then select **Next**.
3. Select **restore a configuration**, and then select **Next**.
4. Select **on a remote server**, and then select **Next**.
5. Select either the FTP or HTTP protocol, and then type the server information in the fields.

NOTE: The **Username** and **Password** fields are not required if you are using the HTTP protocol.

6. Select **Finish**.

Saving a client profile to a USB flash drive

To save a client profile to a USB flash drive:

1. Insert a USB flash drive into a USB port on the thin client.
2. Select **Management > ThinState** in Control Panel.
3. Select **the HP ThinPro configuration**, and then select **Next**.
4. Select **save the configuration**, and then select **Next**.
5. Select **on a USB key**, and then select **Next**.
6. Select the USB flash drive.
7. Select **Browse**.
8. Navigate to the desired location on the USB flash drive and assign a file name to the profile.
9. Select **Save**.
10. Select **Finish**.

Restoring a client profile from a USB flash drive

To restore a client profile from a USB flash drive:

1. Insert the USB flash drive containing the profile into a USB port on the target thin client.
2. Select **Management > ThinState** in Control Panel.
3. Select **the HP ThinPro configuration**, and then select **Next**.
4. Select **restore a configuration**, and then select **Next**.
5. Select **on a USB key**, and then select **Next**.
6. Select the USB key.
7. Select **Browse**.

8. Double-click the desired configuration file on the USB key.
9. Select **Finish**.

VNC Shadowing

Virtual Network Computing (VNC) is a remote desktop protocol that allows you to see the desktop of a remote computer and control it with your local mouse and keyboard.

To access the VNC Shadow tool:

▲ Select **Management > VNC Shadow** in Control Panel.

NOTE: You must restart the thin client before any changes to the VNC Shadowing options will take effect.

The following table describes the options available in the VNC Shadow tool.

Option	Description
Enable VNC Shadow	Enables VNC Shadowing.
VNC Read Only	Makes the VNC session read-only.
VNC Use Password	Makes a password required when accessing the thin client using VNC. Select **Set Password** to set the password.
VNC Notify User to Allow Refuse	Enables a notification dialog on the remote system that informs the remote user when someone is attempting to connect using VNC. The user can refuse either allow or refuse access.
VNC Show Timeout for Notification	Sets the length of time in seconds that the remote notification dialog is displayed.
User Notification Message	Allows you to display a message in the notification dialog to the remote user.
Refuse connections in default	If enabled, the VNC connection will be refused by default when the timer expires.
Re-set VNC server right now	Resets the VNC server after applying the new settings.

Advanced

Menu option	Description
Certificates	Opens the Certificate Manager, which lets you easily import, view, or remove certificates. For more information, see Certificate Manager on page 53.
CPU Manager	Lets you choose between **Balanced** and **High Performance** CPU performance.
DHCP Options	Lets you configure DHCP options. For more information, see DHCP options on page 54.
HP License	Lets you view the HP End-User License Agreement (EULA).
SCEP Manager	Allows for network-based certificate management.
Serial Manager	Lets you configure serial devices.

Menu option	Description
Keyboard Shortcuts	Lets you create, modify, and delete keyboard shortcuts.
Snipping Tool	Lets you take a snapshot of a rectangular selection of the screen, a specific window, or the entire screen.
Task Manager	Lets you monitor the CPU usage and the CPU usage history for the thin client.
Text Editor	Opens a basic text editor for viewing and editing text files.
X Terminal	Lets you execute Linux commands.

Certificates

NOTE: For more information about using certificates in Linux, go to http://www.openssl.org/docs/apps/x509.html.

Certificate Manager

To open the Certificate Manager:

▲ Select **Advanced > Certificates** in Control Panel.

Use the Certificate Manager to manually install a certificate from a certificate authority (CA). This action copies the certificate to the user's local certificate store (/usr/local/share/ca-certificates) and configures OpenSSL to use the certificate for connection verification.

If desired, use Profile Editor to attach the certificate to a profile, as described in Adding certificates to a client profile on page 62.

NOTE: Generally, a self-signed certificate will work as long as it is valid according to specification and can be verified by OpenSSL.

SCEP Manager

To open the SCEP Manager:

▲ Select **Advanced > SCEP Manager** in Control Panel.

Use the SCEP Manager when you need to enroll or renew client-side certificates from a CA.

During an enrollment or renewal, the SCEP Manager generates the thin client's private key and certificate request, and then it sends the request to the CA on the SCEP server. When the CA issues the certificate, the certificate is returned and placed in the thin client's certificate store. OpenSSL uses the certificate for connection verification.

NOTE: Before enrollment, make sure that the SCEP server is configured properly.

Use the **Identifying** tab of the SCEP Manager to enter information about the user, if desired.

NOTE: The **Common Name** is required and is the thin client's Fully Qualified Domain Name (FQDN) by default. The other information is all optional. The **Country or Region** is entered as two letters, such as US for the United States and CN for China.

Use the **Servers** tab of the SCEP Manager to add SCEP servers and enroll or renew certificates.

TIP: When entering a new SCEP server, save the server information first, and then use the **Settings** button to go back and do an enrollment.

DHCP options

To open the DHCP Option Manager:

- Select **Advanced > DHCP Options** in Control Panel.

The DHCP Option Manager displays details of the DHCP options that are requested by the thin client.

TIP: The drop-down list in the lower-left corner of the DHCP Option Manager allows you to filter which DHCP tags are displayed.

To direct the thin client to request or ignore specific DHCP options:

- Select or deselect the checkboxes in the **Requested** column.

If a pencil is shown in the **DHCP Code** column, the code number can be changed in case there is a conflict on your DHCP server over a particular code number.

To change a DHCP code:

- Double-click the DHCP code and type a new number.

NOTE: Changeable DHCP codes can only be changed while that DHCP option is enabled in the **Requested** column.

To learn more about how a DHCP option is used on the thin client and on the DHCP server:

- Select the icon in the **Info** column of that option.

6 System information

Select the **System Information** button on the taskbar to view system, network, and software information. The following table describes the information that is displayed on each panel.

Panel	Description
General	Displays information about the BIOS, operating system, CPU, and memory.
Network	Displays information about the network interface, gateway, and DNS settings.
Net Tools	Provides the following tools for monitoring and troubleshooting purposes: • **Ping**—Specify an IP address of another device on the network to attempt to establish contact. • **DNS Lookup**—Use this tool to resolve a domain name into an IP address. • **Trace Route**—Use this tool to track the path that a network packet takes from one device to another.
Software Information	Displays a list of installed add-ons on the **Service Packs** tab and software version information on the **Software Installed** tab. **TIP:** You can also access the Administrator Guide (this document) from this screen.
System Logs	Displays the following logs: • Network Manager • Smart Client Services • DHCP Wired Leases • DHCP Wireless Leases • Kernel • X Server • Connection Manager The debug level can be changed to display additional information that might be requested by HP support for troubleshooting purposes. Select **Diagnostic** to save a diagnostic file. For more information, see Using system diagnostics to troubleshoot on page 65.

NOTE: See SystemInfo on page 131 for information about registry keys that can be used to hide the System Information screens.

7 HP Smart Client Services

HP Smart Client Services is a set of server-side tools that enable you to configure client profiles that can be distributed to large numbers of thin clients. This function is called Automatic Update.

HP ThinPro detects an Automatic Update server upon startup and configures settings accordingly. This simplifies device installation and maintenance.

Supported operating systems

HP Smart Client Services supports the following operating systems:

- Windows 7
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2003
- Windows Vista®
- Windows XP

NOTE: The installer is 32-bit only, although it is supported on both the 32-bit and 64-bit versions of the Windows operating system.

Prerequisites for HP Smart Client Services

Before installing HP Smart Client Services, verify the configuration and installation status of the following components:

- **Internet Information Services (IIS)**
- **.NET Framework 3.5**

For information about installing or enabling these components on the operating system that you are using for the server, go to http://www.microsoft.com.

Obtaining HP Smart Client Services

To obtain HP Smart Client Services:

1. Go to http://www.hp.com/support.
2. Search for the thin client model. HP Smart Client Services can be found under the **Software - System Management** category of the **Drivers, Software & Firmware** page.

Viewing the Automatic Update website

1. On the server desktop, select **Start > Control Panel**, and then select **Administrative Tools**.
2. Double-click **Internet Information Services (IIS) Manager**.
3. In the left pane of the IIS Manager, expand the following items:

   “Server name” > Sites > HP Automatic Update > auto-update

NOTE: The physical location where the Automatic Update files are stored is as follows:

```
C:\Program Files (x86)\Hewlett-Packard\HP Smart Client Service\auto-update
```

Creating an Automatic Update profile

Automatic Update uses profiles to deploy a configuration to thin clients. By default, when you create a profile using Profile Editor (see Profile Editor on page 60), the tool lets you save it to the following folder:

```
C:\Program Files (x86) Hewlett-Packard\HP Smart Client Service\autoupdate
\PersistentProfile\
```

You can also export an existing profile from a thin client using HP ThinState and copy the profile to this location.

When searching for updates, HP ThinPro looks for this folder and applies the profile saved there. This ensures that all thin clients use the same configuration.

MAC-address-specific profiles

Automatic Update profiles can be created for a single MAC address. This can be useful when some thin clients need a different configuration.

Profiles for a single MAC address must be stored on the Automatic Update server, in the following folder:

```
C:\Program Files (x86) Hewlett-Packard\HP Smart Client Service\autoupdate
\PersistentProfile\MAC\
```

When searching for updates, HP ThinPro looks for the generic profile first, and then a MAC-address-based profile. These profiles are merged and installed together on the thin client. The MAC-address-based profile takes precedence; that is, if the same registry key has a different value in both files, the value in the MAC-address-based profile is used.

This ensures that a shared configuration can be provided to all thin clients, but a specific customization can be added, if necessary.

This section describes how to create an Automatic Update profile for a single MAC address.

1. Obtain the MAC address of the thin client using the system info. For example, the following steps use the MAC address `00fcab8522ac`.
2. Use Profile Editor to create or modify a client profile (see Profile Editor on page 60) until you are ready to save the client profile.
3. In **Profile Editor**, select the **Finish** link in the left-hand pane to access the **Current profile** pane.
4. Select **Save profile as** to save the client profile as the following:

   ```
   C:\Program Files (x86) Hewlett-Packard\HP Smart Client Service\auto-
   update\PersistentProfile\MAC\00fcab8522ac.xml
   ```

5. Select the **Finish** button in the **Current profile** pane to exit Profile Editor.
6. Restart the thin client that uses the specified MAC address to initiate the Automatic Update process.

Updating thin clients

Using the broadcast update method

To do a broadcast update, plug the thin client into the same network as the update server. A broadcast update relies on HP Smart Client Services, which works with IIS to automatically push updates to the thin client.

NOTE: Broadcast updates work only if the thin client is on the same subnet as the server.

TIP: To verify that the broadcast updates are working, run Profile Editor and make some changes. Connect the thin client and verify that it has downloaded the new profile. If it has not, see Troubleshooting on page 65.

Using the DHCP tag update method

On the Windows Server 2003 and Windows Server 2008 systems, DHCP tagging enables a thin client to update. Use this method to update specific thin clients; however, if you have only one or two clients to update, consider using the manual update method instead. Otherwise, HP recommends the broadcast update method.

Example of performing DHCP tagging

The example in this section shows how to perform DHCP tagging on a Windows 2008 R2 Server.

NOTE: To use DHCP tagging, see your DHCP server documentation.

1. On the server desktop, select **Start > Administrative Tools > DHCP**.
2. In the left pane of the **DHCP** screen, select the domain where the thin clients are connected.
3. In the right pane of the **DHCP** screen, expand and right-click **IPv4**, and then select **Set Predefined Options**.
4. In the **Predefined Options and Values** dialog, select **Add**.
5. In the **Option Type** box, configure the options as described in the following table.

Field	Entry
Name	Enter `auto-update`.
Data Type	Select **String**.
Code	Enter `137`.
Description	Enter `HP Automatic Update`.

6. Select **OK**.
7. In the **Predefined Options and Values** dialog, under **Value > String**, enter the update server address in the format of the following example:

   `http://auto-update.dominio.com:18287/auto-update`

8. To complete the setup, select **OK**. DHCP tagging is now ready to update specific thin clients.

Using the DNS alias update method

During system startup, Automatic Update attempts to resolve the DNS alias **auto-update**. If that host name resolves, it attempts to check for updates at **http://auto-update:18287**. This update method enables thin clients to access a single update server across the entire domain, thus simplifying management for deployments with many subnets and DHCP servers.

To configure the DNS alias update method:

- Change the hostname of the server hosting HP Smart Client Services to **auto-update** or create a DNS alias of **auto-update** for that server.

Using the manual update method

Use the manual update method to connect a thin client to a specific server for an update. Also, use this method if you want to test an update on a single thin client before pushing the update to many thin clients, or if you have specific updates to be installed on only one or two thin clients.

NOTE: Be sure you specify the hostname of the manual server in the profile that you are updating to. Otherwise the settings reset to automatic when downloading the profile. Use **Profile Editor** to modify these settings at root/auto-update.

NOTE: If multiple thin clients require specific updates, use the DHCP tagging method.

If no update segregation is required, use the broadcast update method.

Performing a manual update

1. Select **Management > Automatic Update** in Control Panel.
2. Select **Enable manual configuration**.
3. Set the **Protocol** as **http**.
4. In the **Server** field, enter the update server hostname and port in the following format:

   HostName:`18287`
5. In the **Path** field, enter the following:

   `auto-update`
6. Select **Preserve thin client configuration** if you want to preserve all previously configured settings.
7. Select **OK**, and then the thin client will pull the updates.

8 Profile Editor

HP Smart Client Services contains Profile Editor, which allows administrators to create client profiles and upload them to the Automatic Update server.

TIP: In addition to creating a new client profile, you can edit an existing profile that was exported using HP ThinState.

A client profile contains the connections, settings, and customizations that were configured using Connection Manager and various Control Panel items. A client profile is saved in a configuration file that is specific to the version of HP ThinPro in which it was created.

Opening Profile Editor

▲ Select **Start > All Programs > Hewlett-Packard > HP Automatic Update Server > Profile Editor**.

Loading a client profile

The name of the currently-loaded client profile is indicated on the initial screen of Profile Editor.

To load a different client profile:

1. At the initial screen of Profile Editor, select the link that displays the name of the currently-loaded client profile.
2. Navigate to a client profile, and then select **Open**.

Client profile customization

Selecting the platform for a client profile

Use the **Platform** screen in Profile Editor to do the following:

- Select the desired HP ThinPro image version that is compatible with your hardware
- Choose between ThinPro and Smart Zero
- View installed client kits that provide additional registry settings

NOTE: Client kits should be placed in the following directory:

```
C:\Program Files (x86)\Hewlett-Packard\HP Smart Client Service\auto-update\Packages
```

To configure a client profile's platform settings:

1. On the **Platform** screen in Profile Editor, select an **OS Build ID** that corresponds to the desired image version.

IMPORTANT: Be sure to create a different client profile for each hardware type.

NOTE: If a client kit is installed, it is displayed automatically in the Client Kits box, and additional registry settings will be available on the Registry screen.

2. Set the configuration to either **standard** (ThinPro) or **zero** (Smart Zero).

NOTE: For older image versions, this setting is greyed out and set to zero automatically.

Configuring a default connection for a client profile

To configure a default connection for a client profile:

1. On the **Connection** screen in Profile Editor, choose the desired connection type from the **Type** drop-down list.

NOTE: The available connection types differ depending on whether you chose ThinPro or Smart Zero on the Platform screen.

2. In the **Server** field, enter the name or IP address of the server.

Modifying the registry settings of a client profile

To change default registry settings for a client profile:

1. On the **Registry** screen in Profile Editor, expand the folders in the **Registry settings** tree to locate the registry setting you want to change.
2. Select the registry key, and then enter the desired value in the **Value** field.

NOTE: See Registry keys on page 71 for a comprehensive list and description of registry keys.

Adding files to a client profile

Use the **Files** screen in Profile Editor to add configuration files that will be installed on the thin client automatically when the client profile is installed. This is typically used for the following reasons:

- To add certificates
- To modify device settings when a registry setting for the change is unavailable
- To modify the behavior of the system by inserting custom scripts or modifying existing scripts

You can also specify a symbolic link that points to a file already installed on the thin client. Use this when the file needs to be accessed from more than one directory.

Adding a configuration file to a client profile

1. On the **Files** screen in Profile Editor, select **Add a file**.
2. Select **Import File**, locate the file to be imported, and then select **Open**.

NOTE: Files can also be exported using the **Export File** button, if further details about the file are required.

3. In the **Path** field, enter the path where the file will be installed on the thin client.
4. In the **File details** section, set the **Owner**, **Group**, and **Permissions** fields to the appropriate values.

NOTE: Typically, setting the owner and group as **root** and the permissions as **644** is satisfactory. If a special owner, group, or permissions are required, refer to standard Unix® file permissions for guidelines on changing the file details.

5. Select **Save** to finish adding the configuration file to the client profile.

NOTE: A file installed as part of a profile will automatically overwrite any existing file on the file system at the destination path. Additionally, a second profile without the file attached will not revert previously attached files. All files that have been installed through profile attachment are permanent and must be reverted manually or through a factory reset.

Adding certificates to a client profile

Client profiles automatically include certificates that are imported to a standard client certificate store for the following applications:

- VMware Horizon View, Citrix, RDP
- Automatic Update
- HP Smart Client Services
- Web browser stores

To import other certificates to a client profile:

1. On the **Files** screen in Profile Editor, select **Add a file**.
2. Select **Import File**, locate the certificate, and then select **Open**.

NOTE: The certificate should be formatted as a `.pem` or `.crt` file.

3. In the **Path** field, set the path to the following:

   `/usr/local/share/ca-certificates`

4. Select **Save** to finish adding the certificate to the client profile.
5. After installing the client profile, use the **Certificate Manager** to confirm that the certificate was imported properly.

Adding a symbolic link to a client profile

1. On the **Files** screen in Profile Editor, select **Add a file**.
2. In the **Type** drop-down list, select **Link**.
3. In the **Symbolic link details** section, set the **Link** field to the path of the desired file already installed on the thin client.
4. Select **Save** to finish adding the symbolic link.

Saving the client profile

1. In **Profile Editor**, select **Finish** in the left-hand pane to access the **Current profile** screen.
2. Select **Save Profile** to save to the current client profile, or select **Save Profile As** to save as a new client profile.

NOTE: If **Save Profile** is disabled, your client profile has not changed since the last time it was saved.

3. Select the **Finish** button in the **Current profile** screen to exit Profile Editor.

Serial or parallel printer configuration

You can use Profile Editor to set up the serial or parallel printer ports. A USB printer automatically maps when plugged in.

Obtaining the printer settings

Before configuring printer ports, obtain the printer's settings. If available, check the printer's documentation before going further. If it is not available, follow these steps:

1. For most printers, press and hold the **Feed** button while turning the device on.
2. After a few seconds, release the **Feed** button. This allows the printer to enter a test mode and print the required information.

TIP: You might need to turn the printer off to cancel the Test mode or press **Feed** again to print a diagnostic page.

Setting up printer ports

1. In **Profile Editor**, select **Registry**, and then enable the **Show all settings** checkbox.
2. Enable printer port mapping for your connection type:
   - Citrix—No action is required.
   - RDP—Navigate to **root > ConnectionType > freerdp**. Right-click on the **connections** folder, select **New connection**, and then select **OK**. Set the **portMapping** registry key to `1` to enable printer port mapping.
   - VMware Horizon View—Navigate to **root > ConnectionType > view**. Right-click on the **connections** folder, select **New connection**, and then select **OK**. Under the **xfreerdpOptions** folder, set the **portMapping** registry key to `1` to enable printer port mapping.
3. Navigate to **root > Serial**. Right-click the **Serial** folder, select **New UUID**, and then select **OK**.
4. Under the new directory, set the **baud**, **dataBits**, **flow**, and **parity** values to the ones obtained in Obtaining the printer settings on page 63.

   Set the **device** value to the port the printer will be plugged into. For example, the first serial port would be `/dev/ttyS0`, the second serial port would be `/dev/ttyS1`, and so on. For USB serial printers, use the format `/dev/ttyUSB#`, where `#` is the number of the port, starting with 0.

Installing printers on the server

1. On the Windows desktop, select **Start > Printers and Faxes**.
2. Select **Add Printer**, and then select **Next**.
3. Select **Local Printer attached to this Computer** and, if required, deselect **Automatically detect and install my Plug and Play printer**.
4. When completed, select **Next**.
5. In the menu, select a port.

NOTE: The port you need is in the section of ports labeled **TS###**, where ### is a number between 000–009, 033–044. The appropriate port depends on your hostname and the printer you want to install. For example, with a hostname of ZTAHENAKOS and a serial printer, select the port with **(ZTAHENAKOS:COM1)**. For a parallel printer, select **(ZTAHENAKOS:LPT1)**. The **TS###** is assigned by the server, so it will not be the same every time.

6. Select the manufacturer and driver for your printer.

TIP: If desired, use the driver disc **Windows Update** to install the driver.

NOTE: For basic or test printing, the **Generic Manufacturer** or **Generic/Text Only** printer usually works.

7. If prompted to keep the existing driver and it is known to work, keep it, and then select **Next**.
8. Assign a name to the printer. To use it as the default printer, select **Yes**, and then select **Next**.
9. To share the printer, select **Share name** and assign it a share name. Otherwise, select **Next**.
10. On the next page, you may request a test print. HP recommends this because it will verify the printer setup is correct. If it is not set up properly, review the settings and try again.

NOTE: If the thin client disconnects from the server, the printer will need to be set up again the next time the thin client connects.

9 Troubleshooting

Troubleshooting network connectivity

1. Ping the desired server by doing the following:
   a. Select the System Information button on the taskbar, and then select the **Net Tools** tab.
   b. Under **Select Tool**, select **Ping**.
   c. In the **Target Host** box, enter the server address, and then select **Start Process**.

   If the ping is successful, the system will display the following output:

   ```
   PING 10.30.8.52 (10.30.8.52) 56(84) bytes of data.

   64 bytes from 10.30.8.52: icmp_seq-1 ttl=64 time=0.81 5 ms 64 bytes
   from 10.30.8.52: icmp_seq=2 ttl=64 time=0.735 ms
   ```

   If the ping is unsuccessful, the thin client might be disconnected from the network and experience a long delay with no system output.
2. If the thin client does not respond to the ping, do the following:
   a. Check the network cable and check the network settings in Control Panel.
   b. Try pinging other servers or thin clients.
   c. If you can reach other thin clients, verify that you typed the correct server address.
   d. Ping the server using the IP address instead of the domain name or vice-versa.
3. Check the system logs by doing the following:
   a. Select the System Information button on the taskbar, and then select the **System Logs** tab.
   b. Check for any errors in the logs.
   c. If there is an error, then the **Server is not set up** notification appears. Verify that the server is set up properly and that HP Smart Client Services is running.

Troubleshooting Citrix password expiration

If users are not being prompted to change expired Citrix passwords, then make sure the XenApp Services site (PNAgent site) has the **Prompt** authentication method set to allow users to change expired passwords. If you allow users to change their passwords by connecting directly to the domain controller, then make sure the time of the thin client is in sync with the domain controller and use the full domain name (for example, `domain_name.com`) when entering the Citrix login credentials. For more information, see Citrix documentation.

Using system diagnostics to troubleshoot

System diagnostics take a snapshot of the thin client that can be used to help solve issues without physical access to the thin client. This snapshot contains log files from the BIOS information and the processes active at the time the system diagnostics were run.

TIP: You can change the **Debug level** setting in the **System Logs** tab of the **System Information** window to specify the amount of information to be included in the diagnostic report. This information may be requested by HP for troubleshooting. Because the system resets log files when it reboots, be sure to capture logs before a reboot.

Saving system diagnostic data

1. Insert a USB flash drive into the thin client.
2. Select the System Information button on the taskbar, and then select the **System Logs** tab.
3. Select **Diagnostic**, and then save the compressed diagnostic file **Diagnostic.tgz** to the USB flash drive.

Uncompressing the system diagnostic files

The system diagnostic file **Diagnostic.tgz** is compressed and will need to be uncompressed before you can view the diagnostic files.

Uncompressing the system diagnostic files on Windows-based systems

1. Download and install a copy of the Windows version of **7-Zip**.

   NOTE: You may obtain a free copy of 7-Zip for Windows at http://www.7-zip.org/download.html.

2. Insert the USB flash drive that contains the saved system diagnostic file, and then copy **Diagnostic.tgz** to the desktop.
3. Right-click **Diagnostic.tgz** and select **7-zip > Extract files**.
4. Open the newly created folder named **Diagnostic** and repeat step 3 on **Diagnostic.tar**.

Uncompressing the system diagnostic files in Linux- or Unix-based systems

1. Insert the USB flash drive that contains the saved system diagnostic file, and then copy **Diagnostic.tgz** to the home directory.
2. Open a terminal and browse to the home directory.
3. On the command line, enter `tar xvfz Diagnostic.tgz`.

Viewing the system diagnostic files

The system diagnostic files are divided into the **Commands**, **/var/log**, and **/etc** folders.

Viewing files in the Commands folder

This table describes the files to look for in the **Commands** folder.

File	Description
demidecode.txt	This file contains information on the system BIOS and graphics.
dpkg_--list.txt	This file lists the packages installed at the time system diagnostics were run.
ps_-ef.txt	This file lists the active processes at the time system diagnostics were run.

Viewing files in the /var/log folder

The useful file in the **/var/log** folder is **Xorg.0.log**.

Viewing files in the /etc folder

The **/etc** folder contains the file system at the time the system diagnostics were run.

A USB updates

When USB updates are enabled (see Customization Center on page 46), you can use a USB flash drive to simultaneously install multiple add-ons and certificates, as well as deploy a profile.

To perform USB updates:

1. Place the desired files onto a USB flash drive.

   NOTE: The files can be placed in the root directory or in subfolders.

2. Connect the USB flash drive to the thin client.

   Updates are detected automatically and displayed in the **USB Update** dialog, in which you can search and view details about the detected updates.

3. Select the checkboxes next to the updates you want to install, and then select **Install**.

4. After installation, restart the thin client if prompted.

HP ThinUpdate

HP ThinUpdate allows you to download images and add-ons from HP and create bootable USB flash drives for image deployment. For more information see the *Administrator Guide* for HP ThinUpdate.

B BIOS tools

There are two kinds of BIOS tools for HP ThinPro:

- BIOS settings tool—Used to retrieve or modify BIOS settings
- BIOS flashing tool—Used to update the BIOS

These tools can be run via an X terminal.

BIOS settings tool

The following table describes the syntax for the BIOS settings tool.

NOTE: Changes do not take effect until the next reboot.

Syntax	Description
hptc-bios-cfg –G *FileName*	Retrieves the current BIOS settings and saves them to the specified file so they can be viewed or modified (CPQSETUP.TXT by default).
hptc-bios-cfg –S *FileName*	Writes the BIOS settings from the specified file (CPQSETUP.TXT by default) to the BIOS.
`hptc-bios-cfg -h`	Displays a list of options.

BIOS flashing tool

The following table describes the syntax for the BIOS flashing tool.

NOTE: Changes do not take effect until the next reboot.

Syntax	Description
hptc-bios-flash *ImageName*	Prepares the system to update the BIOS during the next restart. This command automatically copies the files into the correct location and prompts you to restart the thin client. **NOTE:** This command requires that the **Tool-less update** option in the BIOS settings is set to **Auto**.
`hptc-bios-flash -h`	Displays a list of options.

C Resizing the flash drive partition

IMPORTANT: HP thin clients that ship from the factory with HP ThinPro use the entire flash drive. The image capture methods capture the smallest possible image, allowing images from larger flash drives to be deployed onto smaller flash drives that have enough space for the captured image. Resizing the flash drive partition should no longer be necessary for HP thin clients that ship from the factory with HP ThinPro. For thin clients with HP ThinPro that are not using the entire flash drive for any reason, see the following information.

To use the entire space of the flash drive, you have to modify the partition size and expand the file system to take up that additional space. This can be accomplished using the `resize-image` script via an X terminal.

NOTE: When an image is deployed via HPDM, HP ThinState, or Automatic Update, the file system is automatically resized to use all available space on the flash drive.

The following table describes the syntax for the `resize-image` script.

Syntax	Description
`resize-image`	When called with no parameters, the script displays the current size of the partition and the amount of available space on the flash drive. The script prompts you to enter the target partition size and then confirm the change. The change takes effect after the next thin client restart. **NOTE:** It is not possible to decrease the partition size. The entered value must be larger than the current partition size.
`resize-image --size` *SizeinMB* Example: `resize-image --size 1024`	Using this syntax, you can specify the target partition size in megabytes (MB) as a parameter and then confirm the change.
`resize-image --no-prompt` – or – `resize-image --no-prompt --size` *SizeinMB* Example: `resize-image --no-prompt --size 1024`	Using this syntax, the script runs automatically with no user interaction required. If no specific size is given as a parameter simultaneously, the partition size is increased to the maximum size. **TIP:** This non-interactive mode is useful for scripting and performing this operation from a remote administration tool like HP Device Manager.

D Registry keys

The HP ThinPro registry keys are grouped into folders and can be modified in several different ways:

- Using a **_File and Registry** task in HPDM
- Using the Registry Editor component of Profile Editor and then deploying the new profile
- Using the Registry Editor in the HP ThinPro user interface, which is available by typing `regeditor` in an X terminal.

Each top-level section in this appendix corresponds to one of the top-level registry folders.

NOTE: Some registry keys might apply to ThinPro or Smart Zero only.

Audio

Registry key	Description
`root/Audio/AdjustSoundPath`	Sets the full path to the sound played when the playback volume is changed via the volume controls.
`root/Audio/JackRetask`	This registry key applies to the t730 only and is used for retasking the audio jack if needed. If set to 0, there is no change. If set to 1, the jack functions as a headset jack. If set to 2, the jack functions as a headphone and microphone jack. You might need to restart the system twice or shut down the system for the new setting to work.
`root/Audio/OutputMute`	If set to 1, the internal speaker and headphone jack are muted.
`root/Audio/OutputScale`	Sets the volume scale for the internal speaker and headphone jack, ranging from 1 to 400.
`root/Audio/OutputScaleAuto`	If set to 1, the `OutputScale` value will be set automatically based on the thin client model.
`root/Audio/OutputVolume`	Sets the volume for the internal speaker and headphone jack, ranging from 1 to 100.
`root/Audio/PlaybackDevice`	Sets the device to use for playback.
`root/Audio/RecordDevice`	Sets the device to use for capture.
`root/Audio/RecordMute`	If set to 1, the microphone jack is muted.
`root/Audio/RecordScale`	Sets the volume scale for the microphone jack, ranging from 1 to 400.
`root/Audio/RecordScaleAuto`	If set to 1, the `RecordScale` value will be set automatically based on the thin client model.
`root/Audio/RecordVolume`	Sets the volume for the microphone jack, ranging from 1 to 100.
`root/Audio/VisibleInSystray`	If set to 1, a speaker icon is visible in the system tray.

CertMgr

This registry category is used internally and does not have any user-defined entries.

ConnectionManager

Registry key	Description
root/ConnectionManager/customLogoPath	
root/ConnectionManager/defaultConnection	To properly launch a connection on startup, this must be set to a valid connection using the format *Type*:*Label* like in the following example: xen:Default Connection
root/ConnectionManager/minHeight	
root/ConnectionManager/minWidth	
root/ConnectionManager/splashLogoPath	Sets the full path to the image displayed while a connection is loading.
root/ConnectionManager/useKioskMode	
root/ConnectionManager/useSplashOnConnectionStartup	If set to 1, the image set by splashLogoPath is enabled. By default, this is enabled for ThinPro and disabled for Smart Zero.

ConnectionType

custom

Registry key	Description
root/ConnectionType/custom/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/custom/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/custom/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.
root/ConnectionType/custom/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/custom/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/custom/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/custom/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/custom/connections/<UUID>/autoReconnectDelay	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when autoReconnect is set to 1.

Registry key	Description
root/ConnectionType/custom/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/custom/connections/<UUID>/autostartDelay	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the connection to start immediately. This setting only takes effect when `autostart` is set to 1.
root/ConnectionType/custom/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/custom/connections/<UUID>/command	Sets the main command for the custom connection to execute.
root/ConnectionType/custom/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/custom/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/custom/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/custom/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/custom/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/custom/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/custom/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/custom/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/custom/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.

Registry key	Description
root/ConnectionType/custom/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/custom/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/custom/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/custom/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/custom/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/custom/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.
root/ConnectionType/custom/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/custom/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by `appName`. This key should not need to be modified.
root/ConnectionType/custom/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/custom/gui/CustomManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/CustomManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/CustomManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/custom/gui/CustomManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/custom/gui/CustomManager/widgets/autostart	Controls the state of the **Auto start priority** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/custom/gui/CustomManager/widgets/command	Controls the state of the **Enter command to run** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the

Registry key	Description
	widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/custom/gui/CustomManager/widgets/fallBackConnection`	Controls the state of the **Fallback Connection** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/custom/gui/CustomManager/widgets/hasDesktopIcon`	Controls the state of the **Show icon on desktop** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/custom/gui/CustomManager/widgets/label`	Controls the state of the **Name** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/custom/gui/CustomManager/widgets/waitForNetwork`	Controls the state of the **Wait for network before connecting** widget in Custom Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

firefox

Registry key	Description
`root/ConnectionType/firefox/authorizations/user/add`	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
`root/ConnectionType/firefox/authorizations/user/general`	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
`root/ConnectionType/firefox/connections/<UUID>/address`	Sets the URL or IP address to connect to.
`root/ConnectionType/firefox/connections/<UUID>/afterStartedCommand`	Sets the command to execute after the connection has been started.
`root/ConnectionType/firefox/connections/<UUID>/afterStoppedCommand`	Sets the command to execute after the connection has been stopped.
`root/ConnectionType/firefox/connections/<UUID>/authorizations/user/edit`	If set to 1, an end user has permission to modify the connection settings for this connection.
`root/ConnectionType/firefox/connections/<UUID>/authorizations/user/execution`	If set to 1, an end user has permission to execute this connection.
`root/ConnectionType/firefox/connections/<UUID>/autoReconnect`	If set to 1, the connection will be restarted when it is closed or disconnected.
`root/ConnectionType/firefox/connections/<UUID>/autoReconnectDelay`	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when `autoReconnect` is set to 1.

Registry key	Description
root/ConnectionType/firefox/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/firefox/connections/<UUID>/autostartDelay	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the connection to start immediately. This setting only takes effect when `autostart` is set to 1.
root/ConnectionType/firefox/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/firefox/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/connections/<UUID>/enablePrintDialog	If set to 1, the Print dialog in the web browser can be used.
root/ConnectionType/firefox/connections/<UUID>/enableSmartCard	If set to 1, smart card login is enabled for Citrix connections created via the web browser.
root/ConnectionType/firefox/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/firefox/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/firefox/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/firefox/connections/<UUID>/forbiddenFiles	This registry key only works when **Allow connections to manage their own settings** is checked in the Web Browser Connection General Settings Manager. The files listed in this registry key's value will be removed after a Web Browser connection is ended. The file names should be separated by a comma, and a wildcard is supported. For example: `*.rdf,cookies.sqlite`
root/ConnectionType/firefox/connections/<UUID>/fullscreen	If set to 1, the web browser will start in full screen. If `kioskMode` is disabled, the browser UI is accessible in full screen mode.
root/ConnectionType/firefox/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/firefox/connections/<UUID>/intendedUse	Sets the intended usage of this Web Browser connection to `Citrix`, `RDP`, or `Internet`.
root/ConnectionType/firefox/connections/<UUID>/kioskMode	If set to 1, the web browser will launch in kiosk mode, meaning that the web browser will start in full screen (even if `fullscreen` is set to 0) and the browser UI is inaccessible.
root/ConnectionType/firefox/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/firefox/connections/<UUID>/showBackForwardButton	If set to 1, the web browser's Back and Forward buttons are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/<UUID>/showHomeButton	If set to 1, the web browser's Home button is displayed when kiosk mode is enabled.

Registry key	Description
root/ConnectionType/firefox/connections/<UUID>/showSearchBar	If set to 1, the web browser's search bar is displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/<UUID>/showTabsBar	If set to 1, the web browser's tabs are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/<UUID>/showTaskBar	If set to 1, the web browser's taskbar is displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/<UUID>/showUrlBarRefreshButton	If set to 1, the web browser's URL bar and Refresh button are displayed when kiosk mode is enabled.
root/ConnectionType/firefox/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/firefox/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/firefox/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/firefox/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/firefox/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/firefox/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/firefox/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/firefox/coreSettings/restartIdleTime	Sets the time in minutes before the web browser restarts when the system is not receiving user input. If set to 0, restart is disabled.
root/ConnectionType/firefox/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.

Registry key	Description
root/ConnectionType/firefox/coreSettings/stopProcess	Sets the behavior that should occur when connection-mgr stop is called on this connection. By default this is close, which will send a standard kill signal to the process. When set to kill, the process specified by appName will be forcefully killed. When set to custom, a custom execution script specified by wrapperScript will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/firefox/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/firefox/general/enableUserChanges	If set to 1, the settings configured in the Firefox Preferences dialog will be saved after each session.
root/ConnectionType/firefox/gui/FirefoxManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/gui/FirefoxManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/gui/FirefoxManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/address	Controls the state of the **URL** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/autostart	Controls the state of the **Auto start priority** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/enablePrintDialog	Controls the state of the **Enable print dialog** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/fallBackConnection	Controls the state of the **Fallback Connection** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in Web Browser Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/firefox/gui/FirefoxManager/widgets/kioskMode	Controls the state of the **Enable kiosk mode** widget in Web Browser Connection Manager. If set to active, the widget is

Registry key	Description
	visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/label`	Controls the state of the **Name** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showBackForwardButton`	Controls the state of the **Show Back and Forward Button** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showHomeButton`	Controls the state of the **Show Home Button** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showSearchBar`	Controls the state of the **Show Search Bar** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showTabsBar`	Controls the state of the **Show Tabs Bar** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showTaskBar`	Controls the state of the **Show Task Bar** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/showUrlBarRefreshButton`	Controls the state of the **Show URL Bar and Refresh Button** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/startMode`	Controls the state of the **Enable full screen** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/firefox/gui/FirefoxManager/widgets/waitForNetwork`	Controls the state of the **Wait for network before connecting** widget in Web Browser Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

freerdp

Registry key	Description
root/ConnectionType/freerdp/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/freerdp/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/freerdp/connections/<UUID>/ExtraArgs	Specifies extra arguments for the xfreerdp client. Run `xfreerdp --help` from an X terminal to see all available arguments.
root/ConnectionType/freerdp/connections/<UUID>/SingleSignOn	
root/ConnectionType/freerdp/connections/<UUID>/address	Sets the hostname or IP address to connect to. The port number can be appended on the end after a colon character. For example: `servername:3389`
root/ConnectionType/freerdp/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/freerdp/connections/<UUID>/application	Specifies an alternate shell or application to run.
root/ConnectionType/freerdp/connections/<UUID>/attachToConsole	
root/ConnectionType/freerdp/connections/<UUID>/audioLatency	Sets the average milliseconds of offset between the audio stream and the display of corresponding video frames after decoding.
root/ConnectionType/freerdp/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/freerdp/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/freerdp/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/freerdp/connections/<UUID>/autoReconnectDelay	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when `autoReconnect` is set to 1.
root/ConnectionType/freerdp/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/freerdp/connections/<UUID>/autostartDelay	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the connection to start immediately. This setting only takes effect when `autostart` is set to 1.
root/ConnectionType/freerdp/connections/<UUID>/bandwidthLimitation	If set to a value greater than 0, the value represents an approximate bandwidth limitation for downloading and uploading in kilobytes per second. If set to 0 (the default), there is no limitation.
root/ConnectionType/freerdp/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.

Registry key	Description
root/ConnectionType/freerdp/connections/<UUID>/clipboardExtension	If set to 1, clipboard functionality is enabled between different RDP sessions and between RDP sessions and the local system.
root/ConnectionType/freerdp/connections/<UUID>/compression	If set to 1, compression of RDP data sent between the client and the server is enabled.
root/ConnectionType/freerdp/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/freerdp/connections/<UUID>/directory	Specifies the startup directory where an alternate shell application is executed.
root/ConnectionType/freerdp/connections/<UUID>/disableMMRwithRFX	If set to 1, multimedia redirection is disabled if a valid RemoteFX session is established.
root/ConnectionType/freerdp/connections/<UUID>/domain	Sets the default domain to supply to the remote host during login. If a domain is not specified, the default domain for the remote host will be used.
root/ConnectionType/freerdp/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/freerdp/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/freerdp/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/freerdp/connections/<UUID>/frameAcknowledgeCount	Sets the number of video frames the server can push without waiting for acknowledgement from the client. Lower numbers result in a more responsive desktop but lower frame rate. If set to 0, frame acknowledgement is not used in the client-server interactions.
root/ConnectionType/freerdp/connections/<UUID>/gatewayAddress	Sets the RD Gateway server name or address.
root/ConnectionType/freerdp/connections/<UUID>/gatewayDomain	Sets the default domain to supply to the RD Gateway during login. Usually, this setting is used with kiosk-style applications where a generic user name is used to login. If gatewayUsesSameCredentials is to 1, this value is disabled.
root/ConnectionType/freerdp/connections/<UUID>/gatewayEnabled	If set to 1, RD Gateway is expected to be used.
root/ConnectionType/freerdp/connections/<UUID>/gatewayPassword	Sets the default password to supply to the RD Gateway during login. This value is usually encrypted. Usually, this setting is used with kiosk-style applications where a generic user name is used to login. If gatewayUsesSameCredentials is to 1, this value is disabled.
root/ConnectionType/freerdp/connections/<UUID>/gatewayPort	Sets the port number to use when contacting the RDP server. This value can be left empty. The most common value is 443.
root/ConnectionType/freerdp/connections/<UUID>/gatewayUser	Sets the default user name to supply to the RD Gateway during login. Usually, this setting is used with kiosk-style applications where a generic user name is used to login. If gatewayUsesSameCredentials is to 1, this value is disabled.
root/ConnectionType/freerdp/connections/<UUID>/gatewayUsesSameCredentials	If set to 1, the same credentials that are used to connect to the final server are used to connect to the RD Gateway.

Registry key	Description
root/ConnectionType/freerdp/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/freerdp/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/freerdp/connections/<UUID>/loadBalanceInfo	This value is the load balancing cookie sent for brokering purposes to the server upon connection and corresponds to the `loadbalanceinfo` field in the .rdp file. By default, the value is empty.
root/ConnectionType/freerdp/connections/<UUID>/localPartitionRedirection	If set to 1, the local non-USB storage partitions are redirected to the remote host via the `Storage` extension. If set to 0, the extension is disabled for non-USB storage partitions that are not used by HP ThinPro.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/domain	If set to 1, the **Domain** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/password	If set to 1, the **Password** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/rememberme	If set to 1, the **Remember me** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/showpassword	If set to 1, the **Show password** button is shown in the login dialog for the connection. If set to 2, the button is shown but disabled. If set to 0, the button is hidden.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/smartcard	If set to 1, the **Smart card login** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden. This checkbox might not appear if no smart card is detected, even if this option is enabled.
root/ConnectionType/freerdp/connections/<UUID>/loginfields/username	If set to 1, the **User Name** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/freerdp/connections/<UUID>/mouseMotionEvents	If set to 0, mouse motion events are not sent to the server. This can prevent some user feedback such as tooltips from functioning properly.
root/ConnectionType/freerdp/connections/<UUID>/offScreenBitmaps	If set to 0, off-screen bitmaps are disabled. This can increase performance slightly but will cause blocks of the screen to update asynchronously, causing screen transitions to update non-uniformly.
root/ConnectionType/freerdp/connections/<UUID>/password	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagDesktopComposition	If set to 1, desktop composition (such as translucent borders) is allowed if supported by the server. Turning off desktop composition can improve performance for low-bandwidth connections. Generally, this only affects RemoteFX. If set to 2, the value is selected based on the thin client performance.

Registry key	Description
root/ConnectionType/freerdp/connections/<UUID>/perfFlagFontSmoothing	If set to 1, font smoothing is allowed if supported by the server and enabled. Turning off font smoothing can improve performance on low-bandwidth connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoCursorSettings	If set to 1, cursor blinking is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoCursorShadow	If set to 1, mouse cursor shadows are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoMenuAnimations	If set to 1, menu animations are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoTheming	If set to 1, user interface themes are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoWallpaper	If set to 1, the desktop wallpaper is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/perfFlagNoWindowDrag	If set to 1, full-content window dragging is disabled, which can improve performance on low-bandwidth RDP connections. The window outline is used instead. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/freerdp/connections/<UUID>/portMapping	If set to 1, all serial and parallel ports are redirected to the remote host via the `Ports` extension. If set to 0, the extension is disabled.
root/ConnectionType/freerdp/connections/<UUID>/printerMapping	If set to 1, all printers defined locally via CUPS are redirected to the remote host via the `Printers` extension. If set to 0, the extension is disabled. If set to 2, the USB printers are redirected as configured in USB Manager.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/autoDisconnectTimeout	Sets the number of minutes there can be no RemoteApp and Desktop resource running before the connection ends automatically. A countdown counter is displayed during the last 20 seconds providing the user an opportunity to disarm the timer. If set to 0 (the default), the timer is disabled.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/autoStartSingleResource	If set to 1, and if only a single published resource (RemoteApp program or virtual desktop) is returned by the server, that resource will be started automatically.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/filter/<UUID>/alias	Specifies the alias of a resource for the resource filter. RemoteApp and Desktop resources with a matching alias will be available to users.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/filter/<UUID>/name	Specifies the name of a resource for the resource filter. RemoteApp and Desktop resources with a matching name will be available to users.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/keepResourcesWindowOpened	If set to 0, the resource selection window is closed automatically after a resource has started. If set to 1, the resource selection window is kept open after resources have started. This allows a user to start several resources before closing the resource selection window.

Registry key	Description
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/trustedPublisherSha1Thumbprints	Specifies a comma-separated list of SHA1 thumbprints of the trusted resource publishers. Note that a certificate that matches one of these thumbprints is not verified. Import the publisher's root CA for better security. Also see the registry key verifyPublisherSignature and Certificate Manager in Control Panel.
root/ConnectionType/freerdp/connections/<UUID>/rdWebFeed/verifyPublisherSignature	If set to 1, the publisher's signature is verified when available in published .rdp files. Only resources with a valid signature from a trusted publisher can be run. If set to 0, no verification of the signature is done. Also see the registry key trustedPublisherSha1Thumbprints.
root/ConnectionType/freerdp/connections/<UUID>/rdp6Buffering	If set to 1, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
root/ConnectionType/freerdp/connections/<UUID>/rdp8Codecs	If set to 1, RDP 8 codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/<UUID>/rdpEncryption	If set to 1, standard RDP encryption is used to encrypt all data between the client and the server.
root/ConnectionType/freerdp/connections/<UUID>/rdpH264Codec	If set to 1, RDP 8 H.264 codecs are used if available. This setting has known visual errors, particularly in multi-monitor configurations, and should be considered experimental and unsupported. Enabling this setting simply advises the server that the thin client supports H.264 for desktop display. The server must also support H.264, and the server makes the final decision on what codecs are used. This setting affects only the desktop codecs. It does not affect multimedia redirection codecs.
root/ConnectionType/freerdp/connections/<UUID>/rdpProgressiveCodec	If set to 1, RDP 8 progressive codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 progressive codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/<UUID>/redirectPreference	For redirection, the RDP client is given several destination possibilities. It normally tries them in the following order: FQDN, Primary IP, IP List, NetBIOS. If FQDN is not desired, one of the alternatives can be tried first by setting this registry key. If the specified method does not work, the RDP client falls back to the original order. A setting of auto forces the original order.
root/ConnectionType/freerdp/connections/<UUID>/remoteApp	Specifies the name of an available application to run in Remote Application Integrated Locally (RAIL) mode.
root/ConnectionType/freerdp/connections/<UUID>/remoteDesktopService	If set to Remote Computer, a direct RDP connection to a remote computer is done. If set to RD Web Access, a connection to an RD Web Access service is done first to retrieve a feed of the published RemoteApp resources.
root/ConnectionType/freerdp/connections/<UUID>/remoteFx	If set to 1, RemoteFX in the style of RDP 7.1 is used if available. This setting is deprecated and might disappear in a future release of HP ThinPro. This setting should be disabled only in the case of a defect specific to RemoteFX protocol. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/<UUID>/seamlessWindow	If set to 1, window decorations are disabled. This can be desirable in a multi-monitor configuration to allow the connection to be set to the size of the primary monitor.
root/ConnectionType/freerdp/connections/<UUID>/securityLevel	Sets the certificate security level. If set to 0, all connections are allowed. If set to 1, remembered hosts are checked and a warning

Registry key	Description
	dialog is shown if verification is not passed. If set to 2, remembered hosts are not checked and a warning dialog is shown if verification is not passed. If set to 3, all insecure connections are refused.
root/ConnectionType/freerdp/connections/<UUID>/sendHostname	Sets the thin client hostname that is sent to the remote host. If left blank, the system hostname is sent. The registry key root/ConnectionType/freerdp/general/sendHostname must be set to hostname for this key to be used.
root/ConnectionType/freerdp/connections/<UUID>/showConnectionGraph	This is a diagnostic function. If set to 1, when the session starts, a separate program will be started to graph the connection's health.
root/ConnectionType/freerdp/connections/<UUID>/showRDPDashboard	If set to 1, when the session starts, a separate window displays RDP performance and status.
root/ConnectionType/freerdp/connections/<UUID>/smartcard	If set to 1, local smartcard authentication to the remote host is allowed. Currently, this will disable Network Level Authentication (NLA).
root/ConnectionType/freerdp/connections/<UUID>/sound	If set to 1, the playback and recording devices are redirected to the remote host via the Audio extension. If set to 0, the extension is disabled. If set to 2, the USB audio devices are redirected as configured in USB Manager. Generally, HP recommends setting this value to 1 so that high-level audio redirection is used. This will improve audio quality and ensure that client audio redirected via other extensions (such as Multimedia Redirection) matches local audio settings.
root/ConnectionType/freerdp/connections/<UUID>/startMode	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/freerdp/connections/<UUID>/timeoutError	Sets the number of milliseconds to wait after losing the connection before giving up on reconnecting with the server. If set to 0, reconnection is attempted forever.
root/ConnectionType/freerdp/connections/<UUID>/timeoutRecovery	Sets the number of milliseconds to wait after losing the connection for networking to recover without trying a forced reconnect.
root/ConnectionType/freerdp/connections/<UUID>/timeoutWarning	Sets the number of milliseconds to wait after losing the connection before warning the user that the connection has been lost.
root/ConnectionType/freerdp/connections/<UUID>/timeoutWarningDialog	If set to 1, when an end-to-end connection drop is detected, a dialog is displayed and the screen will turn grayscale. Otherwise, messages are written to the connection log and the session freezes.
root/ConnectionType/freerdp/connections/<UUID>/timeoutsEnabled	If set to 1, end-to-end connection health checks are done.
root/ConnectionType/freerdp/connections/<UUID>/tlsVersion	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto. **NOTE:** There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
root/ConnectionType/freerdp/connections/<UUID>/usbMiscRedirection	If set to 0, redirection is disabled for all other USB devices except those handled by sound, printerMapping, portMapping,

Registry key	Description
	usbStorageRedirection, and localPartitionRedirection. If set to 2, all other USB devices are redirected to the remote host as configured in USB Manager.
root/ConnectionType/freerdp/connections/<UUID>/usbStorageRedirection	If set to 1, USB storage devices are redirected to the remote host via the Storage extension. If set to 0, the extension is disabled. If set to 2, USB storage devices are redirected as configured in USB Manager.
root/ConnectionType/freerdp/connections/<UUID>/username	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/freerdp/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/freerdp/connections/<UUID>/windowMode	If set to Remote Application, RDP will run in Remote Application Integrated Locally (RAIL) mode. This requires that the RemoteApp server allows the desired application to run as a remote application. The application will be displayed in a separate window within the desktop environment, making it look like the application is part of the local system. Also see the remoteApp registry key. If set to Alternate Shell, a non-standard shell is invoked. Also see the application and directory registry keys.
root/ConnectionType/freerdp/connections/<UUID>/windowSizeHeight	
root/ConnectionType/freerdp/connections/<UUID>/windowSizePercentage	
root/ConnectionType/freerdp/connections/<UUID>/windowSizeWidth	
root/ConnectionType/freerdp/connections/<UUID>/windowType	
root/ConnectionType/freerdp/connections/<UUID>/x11Capture	This is a diagnostic function. If set to 1, X11 operations are captured for later playback.
root/ConnectionType/freerdp/connections/<UUID>/x11CaptureDir	This is a diagnostic function. The value sets the directory for X11 capture files.
root/ConnectionType/freerdp/connections/<UUID>/x11LogAutoflush	This is a diagnostic function. If set to 1, the X11 logfile is more frequently flushed to disk.
root/ConnectionType/freerdp/connections/<UUID>/x11Logfile	This is a diagnostic function. The value sets the path to the X11 logfile.
root/ConnectionType/freerdp/connections/<UUID>/x11Logging	This is a diagnostic function. If set to 1, X11 operations are logged.
root/ConnectionType/freerdp/connections/<UUID>/x11Synchronous	This is a diagnostic function. If set to 1, X11 operations are not buffered.
root/ConnectionType/freerdp/connections/<UUID>/xkbLayoutId	Sets an XKB layout ID for bypassing the system keyboard. To see the list of available IDs, enter the following command in an X terminal: xfreerdp --kbd-list.

Registry key	Description
root/ConnectionType/freerdp/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/freerdp/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/disableLinkDropWarning	If set to 1, the operating system does not generate a dialog indicating that networking is down because the connection protocol handles such situations.
root/ConnectionType/freerdp/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/freerdp/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/freerdp/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/freerdp/coreSettings/initialConnectionTimeout	Sets the number of seconds to wait for an initial response from the RDP server before giving up.
root/ConnectionType/freerdp/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/freerdp/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/freerdp/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/freerdp/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by `appName`. This key should not need to be modified.
root/ConnectionType/freerdp/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/freerdp/general/autoReconnectDialogTimeout	If `autoReconnect` is enabled, this key sets the number of seconds before timing out any error dialogs for the connection. If set to 0, the dialogs wait indefinitely for user interaction.

Registry key	Description
root/ConnectionType/freerdp/general/disablePasswordChange	When a remote login fails due to bad credentials, the user is presented with a button that brings up a dialog for updating their password. If this key is set is 1, that button and dialog are not displayed.
root/ConnectionType/freerdp/general/enableMMR	If set to 1, the Multimedia Redirection plugin is enabled, causing supported codecs played through Windows Media Player to be redirected to the client. This will greatly improve full screen and high definition video playback for codecs such as WMV9, VC1, and MPEG4.
root/ConnectionType/freerdp/general/preferredAudio	Sets the default audio backend for high-level audio redirection (both in and out).
root/ConnectionType/freerdp/general/rdWebFeedUrlPattern	Sets the pattern used to build the RD Web Access URL. The host of the URL, e.g. myserver.com, is replaced by the value of the connection's **Address** field. This pattern is not used when the address is already a URL.
root/ConnectionType/freerdp/general/sendHostname	If set to hostname, the system hostname is sent to the remote host. This is typically used to identify the thin client associated with a particular RDP session. The sent hostname can be overridden using sendHostname in the connection-specific settings. If set to mac, the MAC address of the first available network adapter is sent instead of the hostname.
root/ConnectionType/freerdp/general/serialPortsDriver	This setting ensures a better compatibility with the expected underlying Windows driver SerCx2.sys, SerCx.sys, or Serial.sys.
root/ConnectionType/freerdp/general/serialPortsPermissive	If set to 1, errors for unsupported features will be ignored.

ssh

Registry key	Description
root/ConnectionType/ssh/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/ssh/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/ssh/connections/<UUID>/address	Sets the hostname or IP address to connect to.
root/ConnectionType/ssh/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.
root/ConnectionType/ssh/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/ssh/connections/<UUID>/application	Specifies the application to run.
root/ConnectionType/ssh/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/ssh/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.

Registry key	Description
root/ConnectionType/ssh/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/ssh/connections/<UUID>/autoReconnectDelay	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when `autoReconnect` is set to 1.
root/ConnectionType/ssh/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/ssh/connections/<UUID>/autostartDelay	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the connection to start immediately. This setting only takes effect when `autostart` is set to 1.
root/ConnectionType/ssh/connections/<UUID>/backgroundColor	Sets the background color for the connection.
root/ConnectionType/ssh/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/ssh/connections/<UUID>/compression	Enables compression for an SSH connection.
root/ConnectionType/ssh/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/ssh/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/ssh/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/ssh/connections/<UUID>/font	Sets the font size for the connection.
root/ConnectionType/ssh/connections/<UUID>/foregroundColor	Sets the foreground color for the connection.
root/ConnectionType/ssh/connections/<UUID>/fork	If set to 1, the **Fork into background** option is enabled for the connection.
root/ConnectionType/ssh/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/ssh/connections/<UUID>/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/ssh/connections/<UUID>/port	Sets the port number to use when contacting the SSH server. The default is 22.

Registry key	Description
root/ConnectionType/ssh/connections/<UUID>/startMode	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/ssh/connections/<UUID>/tty	If set to 1, the **Force TTY allocation** option is enabled for the connection.
root/ConnectionType/ssh/connections/<UUID>/username	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/ssh/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/ssh/connections/<UUID>/x11	If set to 1, the **X11 connection forwarding** option is enabled for the connection.
root/ConnectionType/ssh/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/ssh/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/ssh/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/ssh/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/ssh/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/ssh/coreSettings/serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
root/ConnectionType/ssh/coreSettings/stopProcess	Sets the behavior that should occur when connection-mgr stop is called on this connection. By default this is close, which will send a standard kill signal to the process. When set to kill, the process specified by appName will be forcefully killed. When set to custom, a custom execution script specified by wrapperScript will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/ssh/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by appName. This key should not need to be modified.

Registry key	Description
root/ConnectionType/ssh/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/ssh/gui/SshManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/widgets/address	Controls the state of the **Address** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/application	Controls the state of the **Run application** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/autostart	Controls the state of the **Auto start priority** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/backgroundColor	Controls the state of the **Background color** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/compression	Controls the state of the **Compression** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/fallBackConnection	Controls the state of the **Fallback Connection** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/font	Controls the state of the **Font** widget in Secure Shell Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

Registry key	Description
root/ConnectionType/ssh/gui/SshManager/widgets/foregroundColor	Controls the state of the **Foreground color** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/fork	Controls the state of the **Fork into background** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/ssh/gui/SshManager/widgets/label	Controls the state of the **Name** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/port	Controls the state of the **Port** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/tty	Controls the state of the **Force TTY allocation** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/username	Controls the state of the **User name** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/waitForNetwork	Controls the state of the **Wait for network before connecting** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/ssh/gui/SshManager/widgets/x11	Controls the state of the **X11 connection forwarding** widget in Secure Shell Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

teemtalk

Registry key	Description
root/ConnectionType/teemtalk/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/teemtalk/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/teemtalk/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.
root/ConnectionType/teemtalk/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/teemtalk/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/teemtalk/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/teemtalk/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/teemtalk/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/teemtalk/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/teemtalk/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/teemtalk/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/teemtalk/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/teemtalk/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/teemtalk/connections/<UUID>/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/teemtalk/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.

Registry key	Description
root/ConnectionType/teemtalk/connections/<UUID>/systembeep	If set to 1, system beep is enabled for the connection.
root/ConnectionType/teemtalk/connections/<UUID>/ttsName	Sets the TeemTalk profile name.
root/ConnectionType/teemtalk/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/teemtalk/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/teemtalk/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/teemtalk/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/teemtalk/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/teemtalk/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/teemtalk/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/teemtalk/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/teemtalk/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/teemtalk/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/teemtalk/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/teemtalk/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.
root/ConnectionType/teemtalk/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/teemtalk/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.

Registry key	Description
root/ConnectionType/teemtalk/gui/TeemtalkManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/gui/TeemtalkManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/gui/TeemtalkManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in TeemTalk Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/autostart	Controls the state of the **Auto start priority** widget in TeemTalk Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in TeemTalk Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/label	Controls the state of the **Name** widget in TeemTalk Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/teemtalk/gui/TeemtalkManager/widgets/waitForNetwork	Controls the state of the **Wait for network before connecting** widget in TeemTalk Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

telnet

Registry key	Description
root/ConnectionType/telnet/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/telnet/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/telnet/connections/<UUID>/address	Sets the hostname or IP address to connect to.
root/ConnectionType/telnet/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.

Registry key	Description
root/ConnectionType/telnet/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/telnet/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/telnet/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/telnet/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/telnet/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/telnet/connections/<UUID>/backgroundColor	Sets the background color for the connection.
root/ConnectionType/telnet/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/telnet/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/telnet/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/telnet/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/telnet/connections/<UUID>/font	Sets the font size for the connection.
root/ConnectionType/telnet/connections/<UUID>/foregroundColor	Sets the foreground color for the connection.
root/ConnectionType/telnet/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/telnet/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/telnet/connections/<UUID>/locale	Sets the locale of the connection.
root/ConnectionType/telnet/connections/<UUID>/port	Sets the port number to use when contacting the server. The default is 23.
root/ConnectionType/telnet/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/telnet/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection

Registry key	Description
	does not launch before networking is available, which could cause a failure.
root/ConnectionType/telnet/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/telnet/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/telnet/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/telnet/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/telnet/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/telnet/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/telnet/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/telnet/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/telnet/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/telnet/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/telnet/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.
root/ConnectionType/telnet/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/telnet/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/telnet/gui/TelnetManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/gui/TelnetManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/telnet/gui/TelnetManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.

Registry key	Description
root/ConnectionType/telnet/gui/TelnetManager/widgets/address	Controls the state of the **Address** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/autostart	Controls the state of the **Auto start priority** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/backgroundColor	Controls the state of the **Background color** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/fallBackConnection	Controls the state of the **Fallback Connection** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/foregroundColor	Controls the state of the **Foreground color** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/label	Controls the state of the **Name** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/port	Controls the state of the **Port** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/telnet/gui/TelnetManager/widgets/waitForNetwork	Controls the state of the **Wait for network before connecting** widget in Telnet Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

view

Registry key	Description
root/ConnectionType/view/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/view/authorizations/user/commandLineBox	If set to 1, an end user has permission to enter command-line arguments in VMware Horizon View Connection Manager.
root/ConnectionType/view/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/view/connections/<UUID>/ExtraArgs	Specifies extra arguments for the VMware Horizon View client. Run `view_client --help` or `vmware-view --help` from an X terminal to see all available arguments.
root/ConnectionType/view/connections/<UUID>/SingleSignOn	
root/ConnectionType/view/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.
root/ConnectionType/view/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/view/connections/<UUID>/appInMenu	If set to 1, all applications for this connection will be displayed in the taskbar menu.
root/ConnectionType/view/connections/<UUID>/appOnDesktop	If set to 1, all applications for this connection will be displayed on the desktop.
root/ConnectionType/view/connections/<UUID>/applicationSize	Sets the size in which the VMware Horizon View client will launch applications.
root/ConnectionType/view/connections/<UUID>/attachToConsole	
root/ConnectionType/view/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/view/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/view/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/view/connections/<UUID>/autoReconnectDelay	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to reconnect immediately. This setting only takes effect when `autoReconnect` is set to 1.
root/ConnectionType/view/connections/<UUID>/automaticLogin	If set to 1, the VMware Horizon View client will attempt to log in automatically if all fields are provided. If set to 0, users have to select **Connect** manually in the VMware Horizon View client, log in, and select a desktop.
root/ConnectionType/view/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
root/ConnectionType/view/connections/<UUID>/autostartDelay	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the

Registry key	Description
	connection to start immediately. This setting only takes effect when `autostart` is set to 1.
root/ConnectionType/view/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/view/connections/<UUID>/closeAfterDisconnect	If set to 1, the connection is ended after the first desktop is closed. If set to 0, the VMware Horizon View client returns to the desktop selection screen. This is enabled by default to prevent users from accidentally leaving the connection at the desktop selection screen after logging off.
root/ConnectionType/view/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/connections/<UUID>/desktop	If specified, the named desktop will launch automatically upon login. By default, if there is only one desktop available, it will launch automatically without needing to be specified.
root/ConnectionType/view/connections/<UUID>/desktopSize	Sets the size in which the VMware Horizon View client will launch the desktop.
root/ConnectionType/view/connections/<UUID>/directory	
root/ConnectionType/view/connections/<UUID>/disableMaximizedApp	If set to 1, window size settings for maximized applications are disabled.
root/ConnectionType/view/connections/<UUID>/domain	Sets the domain to provide to View Connection Server. If no domain is specified, the default domain for the server is used.
root/ConnectionType/view/connections/<UUID>/enableSingleMode	
root/ConnectionType/view/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/view/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/view/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/view/connections/<UUID>/fullscreen	If set to 1, the VMware Horizon View client launches in full screen mode when started.
root/ConnectionType/view/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/view/connections/<UUID>/hideMenuBar	If set to 1, the top menu bar within the desktop is hidden. This bar is used to manage remote devices and start other desktops.
root/ConnectionType/view/connections/<UUID>/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/view/connections/<UUID>/lockServer	If set to 1, end users are prevented from changing the server address.

Registry key	Description
root/ConnectionType/view/connections/<UUID>/loginfields/domain	If set to 1, the **Domain** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/<UUID>/loginfields/password	If set to 1, the **Password** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/<UUID>/loginfields/rememberme	If set to 1, the **Remember me** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden.
root/ConnectionType/view/connections/<UUID>/loginfields/showpassword	If set to 1, the **Show password** button is shown in the login dialog for the connection. If set to 2, the button is shown but disabled. If set to 0, the button is hidden.
root/ConnectionType/view/connections/<UUID>/loginfields/smartcard	If set to 1, the **Smart card login** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden. This checkbox might not appear if no smart card is detected, even if this option is enabled.
root/ConnectionType/view/connections/<UUID>/loginfields/username	If set to 1, the **User Name** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/view/connections/<UUID>/password	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/view/connections/<UUID>/preferredProtocol	Sets the preferred protocol.
root/ConnectionType/view/connections/<UUID>/saveCredentials	
root/ConnectionType/view/connections/<UUID>/server	Sets the address of the remote host to connect to. This is typically a URL such as `http://server.domain.com`.
root/ConnectionType/view/connections/<UUID>/sessionEndAction	
root/ConnectionType/view/connections/<UUID>/singleDesktop	
root/ConnectionType/view/connections/<UUID>/smartCardModules/CoolKeyPK11	Sets the Coolkey PKCS #11 module.
root/ConnectionType/view/connections/<UUID>/smartCardModules/GemaltoDotNet	Sets the Gemalto .NET module.
root/ConnectionType/view/connections/<UUID>/smartcard	If set to 1, locally-attached smart cards are forwarded to the remote host, allowing them to be used by applications on the remote host. This only enables smart card login for the remote host, not for View Connection Server.
root/ConnectionType/view/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/view/connections/<UUID>/username	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.

Registry key	Description
root/ConnectionType/view/connections/<UUID>/viewSecurityLevel	If set to Refuse insecure connections, the VMware Horizon View client will not allow a user to connect to View Connection Server if the server's SSL certificate is invalid. If set to Warn, the VMware Horizon View client will display a warning if the server's certificate is not able to be verified, and if the certificate is self-signed or expired, the user still will not be allowed to connect. If set to Allow all connections, the server certificate will not be verified and connections to any server will be allowed.
root/ConnectionType/view/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/attachToConsole	
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/audioLatency	Sets the average milliseconds of offset between the audio stream and the display of corresponding video frames after decoding.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/clipboardExtension	If set to 1, clipboard functionality is enabled between different RDP sessions and between RDP sessions and the local system.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/colorDepth	This setting is deprecated. It is used to reduce the color depth of the connection below that of the native desktop resolution. Frequently, this has been used to reduce network bandwidth. Reducing color depth to a level not supported by the video driver can cause screen corruption or launch failures.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/compression	If set to 1, compression of RDP data sent between the client and the server is enabled.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/disableMMRwithRFX	If set to 1, multimedia redirection is disabled if a valid RemoteFX session is established.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/frameAcknowledgeCount	Sets the number of video frames the server can push without waiting for acknowledgement from the client. Lower numbers result in a more responsive desktop but lower frame rate. If set to 0, frame acknowledgement is not used in the client-server interactions.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/general/enableMMR	If set to 1, the Multimedia Redirection plugin is enabled, causing supported codecs played through Windows Media Player to be redirected to the client. This will greatly improve full screen and high definition video playback for codecs such as WMV9, VC1, and MPEG4.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/general/sendHostname	If set to hostname, the system hostname is sent to the remote host. This is typically used to identify the thin client associated with a particular RDP session. The sent hostname can be overridden using sendHostname in the connection-specific settings. If set to mac, the MAC address of the first available network adapter is sent instead of the hostname.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/loadBalanceInfo	This value is the load balancing cookie sent for brokering purposes to the server upon connection and corresponds to the loadbalanceinfo field in the .rdp file. By default, the value is empty.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/mouseMotionEvents	If set to 0, mouse motion events are not sent to the server. This can prevent some user feedback such as tooltips from functioning properly.

Registry key	Description
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/offScreenBitmaps	If set to 0, off-screen bitmaps are disabled. This can increase performance slightly but will cause blocks of the screen to update asynchronously, causing screen transitions to update non-uniformly.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagDesktopComposition	If set to 1, desktop composition (such as translucent borders) is allowed if supported by the server. Turning off desktop composition can improve performance for low-bandwidth connections. Generally, this only affects RemoteFX. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagFontSmoothing	If set to 1, font smoothing is allowed if supported by the server and enabled. Turning off font smoothing can improve performance on low-bandwidth connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoCursorSettings	If set to 1, cursor blinking is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoCursorShadow	If set to 1, mouse cursor shadows are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoMenuAnimations	If set to 1, menu animations are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoTheming	If set to 1, user interface themes are disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoWallpaper	If set to 1, the desktop wallpaper is disabled, which can improve performance on low-bandwidth RDP connections. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/perfFlagNoWindowDrag	If set to 1, full-content window dragging is disabled, which can improve performance on low-bandwidth RDP connections. The window outline is used instead. If set to 2, the value is selected based on the thin client performance.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/portMapping	If set to 1, the following serial and parallel ports are redirected to the remote host: ttyS0, ttyS1, ttyS2, ttyS3, ttyUSB0, lp0.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/printerMapping	If set to 1, all printers defined locally via CUPS are redirected to the remote host.
root/ConnectionType/freerdp/connections/<UUID>/rdp6Buffering	If set to 1, non-RemoteFX graphics performance is increased at the cost of less frequent screen updates.
root/ConnectionType/freerdp/connections/<UUID>/rdp8Codecs	If set to 1, RDP 8 codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/rdpEncryption	If set to 1, standard RDP encryption is used to encrypt all data between the client and the server.
root/ConnectionType/freerdp/connections/<UUID>/rdpH264Codec	If set to 1, RDP 8 H.264 codecs are used if available. This setting has known visual errors, particularly in multi-monitor configurations, and should be considered experimental and unsupported. Enabling this setting simply advises the server that the thin client supports H.264 for desktop display. The server must also support H.264, and the server makes the final decision on what codecs are used. This setting affects only the desktop codecs. It does not affect multimedia redirection codecs.

Registry key	Description
root/ConnectionType/freerdp/connections/<UUID>/rdpProgressiveCodec	If set to 1, RDP 8 progressive codecs are used if available. This setting should be disabled only in the case of a defect specific to RDP 8 progressive codecs. Disabling this setting might also disable more advanced codecs.
root/ConnectionType/freerdp/connections/<UUID>/redirectPreference	For redirection, the RDP client is given several destination possibilities. It normally tries them in the following order: FQDN, Primary IP, IP List, NetBIOS. If FQDN is not desired, one of the alternatives can be tried first by setting this registry key. If the specified method does not work, the RDP client falls back to the original order. A setting of `auto` forces the original order.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/remoteFx	If set to 1, RemoteFX is used if available.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/securityLevel	Sets the certificate security level. If set to 0, all connections are allowed. If set to 1, remembered hosts are checked and a warning dialog is shown if verification is not passed. If set to 2, remembered hosts are not checked and a warning dialog is shown if verification is not passed. If set to 3, all insecure connections are refused.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/sendHostname	Sets the thin client hostname that is sent to the remote host. If left blank, the system hostname is sent. The registry key `root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/general/sendHostname` must be set to `hostname` for this key to be used.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/sound	If set to `Bring to this computer`, sound is redirected from the remote host to the client using a standard virtual channel. If set to `Leave at remote computer`, sound is left at the remote host. This can be useful when using a redirected USB audio device. If set to any other value, audio is disabled. Generally, HP recommends setting this value to `Bring to this computer` and not redirecting USB playback devices to the remote host. This will improve audio quality and ensure that client audio redirected via other virtual channels (such as `Multimedia Redirection`) matches local audio settings.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/timeoutError	Sets the number of milliseconds to wait after losing the connection before giving up on reconnecting with the server. If set to 0, reconnection is attempted forever.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/timeoutRecovery	Sets the number of milliseconds to wait after losing the connection for networking to recover without trying a forced reconnect.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/timeoutWarning	Sets the number of milliseconds to wait after losing the connection before warning the user that the connection has been lost.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/timeoutWarningDialog	If set to 1, when an end-to-end connection drop is detected, a dialog is displayed and the screen will turn grayscale. Otherwise, messages are written to the connection log and the session freezes.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/timeoutsEnabled	If set to 1, end-to-end connection health checks are done.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/tlsVersion	Sets the version of Transport Layer Security to be used during the early stages of negotiation with the RDP server. Either set this to match the version of TLS used by your RDP server, or try setting it to auto.

Registry key	Description
	NOTE: There are some server-side defects in some unpatched RDP servers that can cause the auto setting to fail, so it is not the default setting.
root/ConnectionType/view/connections/<UUID>/xfreerdpOptions/xkbLayoutId	Sets an XKB layout ID for bypassing the system keyboard. To see the list of available IDs, enter the following command in an X terminal: `xfreerdp --kbd-list`.
root/ConnectionType/view/coreSettings/USBrelevant	Indicates if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/view/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/view/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/view/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/view/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/view/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/view/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/view/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/view/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/view/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.
root/ConnectionType/view/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/view/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by `appName`. This key should not need to be modified.
root/ConnectionType/view/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/view/general/rdpOptions	Options specified here will be forwarded directly to the RDP client if RDP is used as the display protocol for the VMware Horizon View connection. To see a full list of options, enter the following command in an X terminal: `rdesktop --help`

Registry key	Description
root/ConnectionType/view/gui/viewManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/gui/viewManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/gui/viewManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/view/gui/viewManager/widgets/autostart	Controls the state of the **Auto start priority** widget in VMware Horizon View Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/view/gui/viewManager/widgets/fallBackConnection	Controls the state of the **Fallback Connection** widget in VMware Horizon View Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/view/gui/viewManager/widgets/label	Controls the state of the **Name** widget in VMware Horizon View Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

xdmcp

Registry key	Description
root/ConnectionType/xdmcp/authorizations/user/add	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/xdmcp/authorizations/user/general	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
root/ConnectionType/xdmcp/connections/<UUID>/address	Sets the hostname or IP address to connect to.
root/ConnectionType/xdmcp/connections/<UUID>/afterStartedCommand	Sets the command to execute after the connection has been started.
root/ConnectionType/xdmcp/connections/<UUID>/afterStoppedCommand	Sets the command to execute after the connection has been stopped.
root/ConnectionType/xdmcp/connections/<UUID>/authorizations/user/edit	If set to 1, an end user has permission to modify the connection settings for this connection.
root/ConnectionType/xdmcp/connections/<UUID>/authorizations/user/execution	If set to 1, an end user has permission to execute this connection.
root/ConnectionType/xdmcp/connections/<UUID>/autoReconnect	If set to 1, the connection will be restarted when it is closed or disconnected.
root/ConnectionType/xdmcp/connections/<UUID>/autostart	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.

Registry key	Description
root/ConnectionType/xdmcp/connections/<UUID>/beforeStartingCommand	Sets the command to execute before the connection starts.
root/ConnectionType/xdmcp/connections/<UUID>/color	Sets the color depth of the display for the connection.
root/ConnectionType/xdmcp/connections/<UUID>/connectionEndAction	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/<UUID>/coord	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/<UUID>/dependConnectionId	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/<UUID>/extraEnvValues/<UUID>/key	Sets the name of an extra environment variable for use with the connection.
root/ConnectionType/xdmcp/connections/<UUID>/extraEnvValues/<UUID>/value	Sets the value of an extra environment variable for use with the connection.
root/ConnectionType/xdmcp/connections/<UUID>/fallBackConnection	Sets the fallback connection via its UUID.
root/ConnectionType/xdmcp/connections/<UUID>/fontServer	Sets the address of the font server to use. The registry key `useFontServer` must also be set to 1.
root/ConnectionType/xdmcp/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/xdmcp/connections/<UUID>/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/xdmcp/connections/<UUID>/refreshRate	Sets the refresh rate of the display for the connection.
root/ConnectionType/xdmcp/connections/<UUID>/startMode	If set to the default `focus` and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/xdmcp/connections/<UUID>/type	Sets the XDMCP connection type. If set to `chooser`, all available hosts are listed and the user can select which one to connect to. If set to `query`, an XDMCP request is sent to the specified host directly. If set to `broadcast`, all available hosts are listed and the first one is connected to automatically.
root/ConnectionType/xdmcp/connections/<UUID>/useFontServer	If set to 1, the font server is enabled. If set to 0, the local font is used.
root/ConnectionType/xdmcp/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/xdmcp/connections/<UUID>/windowSize	Sets the window size of the connection.
root/ConnectionType/xdmcp/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.

Registry key	Description
root/ConnectionType/xdmcp/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/audio	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/desktopButton	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/generalSettingsEditor	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/xdmcp/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/xdmcp/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/xdmcp/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/xdmcp/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/xdmcp/coreSettings/serverRequired	Sets whether a server name or address is `unused`, `optional`, or `required` for this connection type.
root/ConnectionType/xdmcp/coreSettings/stopProcess	Sets the behavior that should occur when `connection-mgr stop` is called on this connection. By default this is `close`, which will send a standard kill signal to the process. When set to `kill`, the process specified by `appName` will be forcefully killed. When set to `custom`, a custom execution script specified by `wrapperScript` will be executed with the argument `stop` to terminate the process gracefully.
root/ConnectionType/xdmcp/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by `appName`. This key should not need to be modified.
root/ConnectionType/xdmcp/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/xdmcp/gui/XdmcpManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.

Registry key	Description
root/ConnectionType/xdmcp/gui/XdmcpManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/address	Controls the state of the **Address** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/autostart	Controls the state of the **Auto start priority** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/color	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/fontServer	Controls the state of the **Font server** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/label	Controls the state of the **Name** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/refreshRate	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/type	Controls the state of the **Type** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/useFontServer	Controls the state of the **Use font server** widget in XDMCP Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/waitForNetwork	Controls the state of the **Wait for network before connecting** widget in XDMCP Connection Manager. If set to `active`, the

Registry key	Description
	widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/xdmcp/gui/XdmcpManager/widgets/windowSize`	This registry key is either used internally or reserved for future use. The value should not be changed.

xen

Registry key	Description
`root/ConnectionType/xen/authorizations/user/add`	If set to 1, an end user has permission to add a new connection of this type using Connection Manager. This key has no effect on Smart Zero.
`root/ConnectionType/xen/authorizations/user/general`	If set to 1, an end user has permission to modify the general settings for this connection type using Connection Manager. This key has no effect on Smart Zero.
`root/ConnectionType/xen/connections/<UUID>/SingleSignOn`	If set to 1, the connection shares credentials with the screen saver.
`root/ConnectionType/xen/connections/<UUID>/address`	Sets the address of the remote host to connect to. This is typically a URL such as `http://server.domain.com`.
`root/ConnectionType/xen/connections/<UUID>/afterStartedCommand`	Sets the command to execute after the connection has been started.
`root/ConnectionType/xen/connections/<UUID>/afterStoppedCommand`	Sets the command to execute after the connection has been stopped.
`root/ConnectionType/xen/connections/<UUID>/anonymousLogin`	If set to 1, anonymous login is allowed for PNAgent and direct connections.
`root/ConnectionType/xen/connections/<UUID>/appInMenu`	If set to 1, all applications for the connection will be displayed in the taskbar menu.
`root/ConnectionType/xen/connections/<UUID>/appOnDashboard`	If set to 1, all applications for the connection will be displayed on the taskbar.
`root/ConnectionType/xen/connections/<UUID>/appOnDesktop`	If set to 1, all applications for the connection will be displayed on the desktop.
`root/ConnectionType/xen/connections/<UUID>/authorizations/user/edit`	If set to 1, an end user has permission to modify the connection settings for this connection.
`root/ConnectionType/xen/connections/<UUID>/authorizations/user/execution`	If set to 1, an end user has permission to execute this connection.
`root/ConnectionType/xen/connections/<UUID>/autoLaunchSingleApp`	If set to 1, and if only a single published application or desktop is returned by the Citrix server, that resource will be launched automatically.
`root/ConnectionType/xen/connections/<UUID>/autoReconnect`	If set to 1, the connection will be restarted when it is closed or disconnected.
`root/ConnectionType/xen/connections/<UUID>/autoReconnectAppsOnLogin`	If set to 1, the system will attempt to reconnect any active or disconnected Citrix sessions upon initial login.
`root/ConnectionType/xen/connections/<UUID>/autoReconnectDelay`	Sets the amount of time in seconds to wait before reconnecting the session. The default of 0 will cause the connection to

Registry key	Description
	reconnect immediately. This setting only takes effect when `autoReconnect` is set to 1.
`root/ConnectionType/xen/connections/<UUID>/autoRefreshInterval`	Controls the amount of time in seconds before the resources are cleared and refreshed again from the server. Set to -1 to disable. It is normally not required to frequently refresh the resources from the server.
`root/ConnectionType/xen/connections/<UUID>/autoStartDesktop`	If set to 1 and if `autoStartResource` is empty, the first desktop to become available when the connection is started will be launched automatically.
`root/ConnectionType/xen/connections/<UUID>/autoStartResource`	Sets the name of the desktop or application to start automatically when the connection is launched.
`root/ConnectionType/xen/connections/<UUID>/autostart`	If set to a value of 1–5, the connection will be started automatically after the system boots, with the value of 1 having the highest priority.
`root/ConnectionType/xen/connections/<UUID>/autostartDelay`	Sets the amount of time in seconds to wait before starting the connection after the system boots. The default of 0 will cause the connection to start immediately. This setting only takes effect when `autostart` is set to 1.
`root/ConnectionType/xen/connections/<UUID>/beforeStartingCommand`	Sets the command to execute before the connection starts.
`root/ConnectionType/xen/connections/<UUID>/connectionEndAction`	This registry key is either used internally or reserved for future use. The value should not be changed.
`root/ConnectionType/xen/connections/<UUID>/connectionMode`	Sets the Citrix connection mode for the connection.
`root/ConnectionType/xen/connections/<UUID>/coord`	This registry key is either used internally or reserved for future use. The value should not be changed.
`root/ConnectionType/xen/connections/<UUID>/dependConnectionId`	This registry key is either used internally or reserved for future use. The value should not be changed.
`root/ConnectionType/xen/connections/<UUID>/disableSaveCredentials`	
`root/ConnectionType/xen/connections/<UUID>/domain`	Sets the domain to provide to the XenDesktop server. If no domain is specified, the default domain for the server is used.
`root/ConnectionType/xen/connections/<UUID>/enableRSAToken`	**CAUTION:** This functionality is unsupported. If set to 1, the user will be prompted before connecting for a security token value to use when authenticating with NetScaler Gateway.
`root/ConnectionType/xen/connections/<UUID>/extraEnvValues/<UUID>/key`	Sets the name of an extra environment variable for use with the connection.
`root/ConnectionType/xen/connections/<UUID>/extraEnvValues/<UUID>/value`	Sets the value of an extra environment variable for use with the connection.
`root/ConnectionType/xen/connections/<UUID>/fallBackConnection`	Sets the fallback connection via its UUID.
`root/ConnectionType/xen/connections/<UUID>/folder`	
`root/ConnectionType/xen/connections/<UUID>/forceHttps`	If set to 1, only HTTPS connections are allowed.

Registry key	Description
root/ConnectionType/xen/connections/<UUID>/fullscreen	If set to 1, the Citrix client launches in full screen mode when started.
root/ConnectionType/xen/connections/<UUID>/hasDesktopIcon	If set to 1, the desktop icon for this connection is enabled. This key has no effect on Smart Zero.
root/ConnectionType/xen/connections/<UUID>/ignoreCertCheck	If set to 1, certificate checks are ignored for the connection.
root/ConnectionType/xen/connections/<UUID>/label	Sets the connection name that is displayed in the UI. On Smart Zero, this will typically be set to `Default Connection` and does not display in the UI.
root/ConnectionType/xen/connections/<UUID>/logOnMethod	
root/ConnectionType/xen/connections/<UUID>/loginfields/domain	If set to 1, the **Domain** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/xen/connections/<UUID>/loginfields/password	If set to 1, the **Password** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/xen/connections/<UUID>/loginfields/rememberme	If set to 1, the **Remember me** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden.
root/ConnectionType/xen/connections/<UUID>/loginfields/showpassword	If set to 1, the **Show password** button is shown in the login dialog for the connection. If set to 2, the button is shown but disabled. If set to 0, the button is hidden.
root/ConnectionType/xen/connections/<UUID>/loginfields/smartcard	If set to 1, the **Smart card login** checkbox is shown in the login dialog for the connection. If set to 2, the checkbox is shown but disabled. If set to 0, the checkbox is hidden. This checkbox might not appear if no smart card is detected, even if this option is enabled.
root/ConnectionType/xen/connections/<UUID>/loginfields/username	If set to 1, the **User Name** field is shown in the login dialog for the connection. If set to 2, the field is shown but disabled. If set to 0, the field is hidden.
root/ConnectionType/xen/connections/<UUID>/password	Sets the default password to supply to the remote host during login. This value will be encrypted. Generally, this setting is used for kiosk-style applications where a generic password is used for login.
root/ConnectionType/xen/connections/<UUID>/requireCredentialsDirectConnect	If set to 0, credentials are not needed to initiate a direct connection. However, credentials are needed to launch an application.
root/ConnectionType/xen/connections/<UUID>/resListRequest	If set to 1, a connection only lists the resources without launching them or downloading icons.
root/ConnectionType/xen/connections/<UUID>/saveNewUrl	This is an internal value. If set to `ToBeAsked`, the script prompts the user. If set to `Auto`, the script does not prompt the user, and whether the URL is saved depends on the case. If set to `Yes`, the user asked to save the new URL. If set to `No`, the user asked to not save the new URL.
root/ConnectionType/xen/connections/<UUID>/savePassword	
root/ConnectionType/xen/connections/<UUID>/smartCardModuleKey	Specifies the security module to use for a smart card connection.

Registry key	Description
root/ConnectionType/xen/connections/<UUID>/startMode	If set to the default focus and the connection is already started, the connection will be given focus. Otherwise, an error will be returned stating that the connection is already started.
root/ConnectionType/xen/connections/<UUID>/subscribedOnly	If set to 1, only subscribed resources for the connection are displayed.
root/ConnectionType/xen/connections/<UUID>/unplugSmartCardAction	Sets the action to perform when a smart card is unplugged during a connection. logoffwill log off the current session. closewill close all the opened resources. noactionwill do nothing.
root/ConnectionType/xen/connections/<UUID>/username	Sets the default user name to supply to the remote host during login. Generally, this setting is used for kiosk-style applications where a generic user name is used for login.
root/ConnectionType/xen/connections/<UUID>/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/xen/coreSettings/USBrelevant	Specifies if this connection type is USB-relevant. If it is, it might have a USB plugin for redirecting USB devices.
root/ConnectionType/xen/coreSettings/appName	Sets the internal application name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/autoLogoutDelayAfterLaunch	This setting applies to Citrix servers with multiple published resources. If less than 0, no auto-logout is performed. Otherwise, this setting dictates the number of seconds between the closing of the last Xen published resource and when the user is logged out automatically and returned to the initial login screen. Citrix process delays might extend the auto-logout time.
root/ConnectionType/xen/coreSettings/autoLogoutDelayBeforeLaunch	This setting applies to Citrix servers with multiple published resources. If less than 0, no auto-logout is performed. Otherwise, this setting dictates the number of seconds allowed to pass while no applications are launched before the user is logged out automatically and returned to the initial login screen. Citrix process delays might extend the auto-logout time.
root/ConnectionType/xen/coreSettings/className	Sets the internal application class name to use for this connection type. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/editor	Sets the internal application name to use when Connection Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/generalSettingsEditor	Sets the internal application name to use when the General Settings Manager is launched for this connection type. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/icon16Path	Sets the path to the 16x16 pixel icon for this application.
root/ConnectionType/xen/coreSettings/icon32Path	Sets the path to the 32x32 pixel icon for this application.
root/ConnectionType/xen/coreSettings/icon48Path	Sets the path to the 48x48 pixel icon for this application.
root/ConnectionType/xen/coreSettings/label	Sets the name to display for this connection type in the UI.
root/ConnectionType/xen/coreSettings/priorityInConnectionLists	Sets the priority of this connection type when it is displayed in Connection Manager and the Configuration Wizard that displays during initial setup. A higher value will move the connection type

Registry key	Description
	towards the top of the list. If set to 0, the connection type is hidden from Configuration Wizard and is shown last in Connection Manager. Connections types with the same priority are listed in alphabetical order.
root/ConnectionType/xen/coreSettings/serverRequired	Sets whether a server name or address is unused, optional, or required for this connection type.
root/ConnectionType/xen/coreSettings/stopProcess	Sets the behavior that should occur when connection-mgr stop is called on this connection. By default this is close, which will send a standard kill signal to the process. When set to kill, the process specified by appName will be forcefully killed. When set to custom, a custom execution script specified by wrapperScript will be executed with the argument stop to terminate the process gracefully.
root/ConnectionType/xen/coreSettings/watchPid	If set to 1, the connection is monitored under the name specified by appName. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/wrapperScript	Sets the script or binary to execute when launching this connection type. This is the primary script handling all connection settings and command line arguments for the connection. This key should not need to be modified.
root/ConnectionType/xen/coreSettings/CGPTimeout	Sets the period of time in seconds during which the client will attempt a CGP reconnection. Copying a large file to or from a USB drive will keep the session alive during the CGP timeout period. If the CGP timeout period is too short, the session will be disconnected while copying a large file. If there is a network problem, an error message will not appear during the CGP timeout period, and it will take longer than usual for a reconnection prompt to appear.
root/ConnectionType/xen/general/TWIMode	Controls seamless mode for published applications. This setting directly maps to the Citrix .ini file setting TWIMode.
root/ConnectionType/xen/general/TWIModeResizeType	This setting directly maps to the Citrix .ini file setting TWIMoveResizeType.
root/ConnectionType/xen/general/allowReadOnA ... allowReadOnZ	If set to 1, a user can read the mapped drive.
root/ConnectionType/xen/general/allowWriteOnA ... allowWriteOnZ	If set to 1, a user can write to the mapped drive.
root/ConnectionType/xen/general/async	If set to 1, asynchronous polling is enabled. This setting directly maps to the Citrix .ini file setting CommPollSize.
root/ConnectionType/xen/general/autoReconnect	If set to 1, automatic session reconnection is enabled. This is not the same as the connection-specific auto-reconnect. This occurs internally within the Citrix client without restarting the connection. This setting directly maps to the Citrix .ini file setting TransportReconnectEnabled.
root/ConnectionType/xen/general/bitmapCacheSize	Sets the minimum size for bitmap caching. This setting directly maps to the Citrix .ini file setting PersistentCacheMinBitmap.
root/ConnectionType/xen/general/bottomMonitor	Sets the screen area of the bottom monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.

Registry key	Description
root/ConnectionType/xen/general/colorDepth	Forces a specific color depth for all connections. This is usually done only in specialized environments where the automatic depth selection fails or in very slow networks to reduce congestion.
root/ConnectionType/xen/general/colorMapping	If set to Shared - Approximate Colors, approximate colors from the default colormap are used. If set to Private - Exact Colors, precise colors are used. This setting directly maps to the Citrix .ini file setting ApproximateColors.
root/ConnectionType/xen/general/contentRedirection	If set to 1, links from web content are sent from the server to the client so that the client can try to open them locally.
root/ConnectionType/xen/general/defaultBrowserProtocol	Controls the protocol used to locate the host for the connection. If not specified, the default value from the [WFClient] section of wfclient.ini is used. This setting directly maps to the Citrix .ini file setting BrowserProtocol.
root/ConnectionType/xen/general/drivePathMappedOnA ... drivePathMappedOnZ	Sets the local filesystem directory to map to the remote host. Typically this is set to /media to allow all connected USB drives to be mapped to the remote host via a single drive letter.
root/ConnectionType/xen/general/enableAlertSound	If set to 1, Windows alert sounds are enabled. This setting indirectly maps to the Citrix .ini file setting DisableSound.
root/ConnectionType/xen/general/enableClipboard	If set to 1, clipboard redirection is enabled.
root/ConnectionType/xen/general/enableCursorColors	If set to 1, colored cursors are enabled. Setting this to 0 might fix graphical cursor corruption in some cases.
root/ConnectionType/xen/general/enableDataCompression	If set to 1, data compression is enabled. This setting directly maps to the Citrix .ini file setting Compress.
root/ConnectionType/xen/general/enableDriveMapAndRedirect	If set to 1, mapping and redirection for USB storage devices is enabled.
root/ConnectionType/xen/general/enableDriveMapping	If set to 1, directories on the local filesystem can be forwarded to the remote host via a virtual drive. Typically /media is mapped to Z to allow USB drives to be forwarded to the remote host. If USB redirection is enabled, this setting should be disabled to prevent storage conflicts. To be properly mapped to the remote host in this fashion, the USB device must use one of the following filesystems: FAT32, NTFS, ext2, ext3.
root/ConnectionType/xen/general/enableDynamicDriveMapping	If set to 1, USB storage devices will be dynamically mapped on the Citrix server. If set to 0, dynamic mapping of USB storage devices is disabled.
root/ConnectionType/xen/general/enableForceDirectConnect	If set to 1, the connection is forced to bypass the Citrix Web Interface and PNAgent services. Authentication will occur on the server after the initial connection has been made.
root/ConnectionType/xen/general/enableH264Compression	If set to 1, H.264 compression is enabled. The H.264 codec provides better performance of rich and professional graphics applications on WAN networks than the JPEG codec.
root/ConnectionType/xen/general/enableHDXFlashRedirection	**NOTE:** This feature is supported for the 32-bit version of HP ThinPro only. Controls the behavior of HDX Flash Redirection. If set to Always, HDX Flash Redirection is used if possible, and the user is not prompted. If set to Ask, the user is prompted. If set to Never, the feature is disabled.

Registry key	Description
root/ConnectionType/xen/general/enableHDXFlashServerContentFetch	**NOTE:** This feature is supported for the 32-bit version of HP ThinPro only. Controls the behavior of HDX Flash Server-Side Content Fetching. If disabled, the client will fetch for content.
root/ConnectionType/xen/general/enableHDXMediaStream	If set to 1, HDX MediaStream is enabled. In this configuration, HDX Lync might have a conflict. If set to 0, media files will still play via standard streaming, but the quality might not be as high.
root/ConnectionType/xen/general/enableHWH264	If set to 1, and if enableH264Compression is also set to 1, hardware compression for H.264 is enabled. If set to 0, H.264 compression will be handled by software.
root/ConnectionType/xen/general/enableMapOnA ... enableMapOnZ	If set to 1, a local filesystem directory can be mapped to this drive on the remote host. The corresponding drivePathMappedOn registry key must be set to a valid local directory for drive mapping to work properly.
root/ConnectionType/xen/general/enableOffScreenSurface	If set to 1, the server can use the X PixMap format for off-screen drawing. This reduces bandwidth in 15-bit and 24-bit color modes at the expense of X server memory and processor time. This setting directly maps to the Citrix .ini file setting EnableOSS.
root/ConnectionType/xen/general/enableSessionReliability	If set to 1, Citrix Session Reliability is enabled. Session Reliability changes the way sessions are resumed after losing a network connection. Please see Citrix documentation for more information on Session Reliability.
root/ConnectionType/xen/general/enableSmallFrames	If set to 1, small non-H.264 rectangle updates are enabled for H.264. enableTextTracking must also be enabled for this to have an effect.
root/ConnectionType/xen/general/enableSmartCard	If set to 1, smart card login is enabled.
root/ConnectionType/xen/general/enableTextTracking	If set to 1, optimized lossless text overlays are enabled for H.264.
root/ConnectionType/xen/general/enableUSBRedirection	If set to 1, USB storage devices will be redirected.
root/ConnectionType/xen/general/enableWindowsAlertSounds	
root/ConnectionType/xen/general/encryptionLevel	Sets the level of encryption. Encryption protocols for all levels are defined in the [EncryptionLevelSession] section of module.ini. This setting directly maps to the Citrix .ini file setting [EncryptionLevelSession].
root/ConnectionType/xen/general/fontSmoothingType	Sets the font smoothing type.
root/ConnectionType/xen/general/hotKey<1thru15>Char	Sets the hot key to forward to the remote session when the key or key combination set in the corresponding hotKeyShift is pressed.
root/ConnectionType/xen/general/hotKey<1thru15>Shift	Sets the key or key combination used to activate the hot key set in the corresponding hotKeyChar.
root/ConnectionType/xen/general/httpAddresses/<UUID>/address	

Registry key	Description
root/ConnectionType/xen/general/keyPassthroughEscapeChar	Sets the keyboard key for disabling the transparent keyboard mode. This setting directly maps to the Citrix .ini file setting KeyPassthroughEscapeChar.
root/ConnectionType/xen/general/keyPassthroughEscapeShift	Sets the keyboard key combination for disabling the transparent keyboard mode. This setting directly maps to the Citrix .ini file setting KeyPassthroughEscapeShift.
root/ConnectionType/xen/general/lastComPortNum	Sets the number of mapped serial ports. If set to 0, serial port mapping is disabled.
root/ConnectionType/xen/general/leftMonitor	Sets the screen area of the left monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/localTextEcho	Controls keyboard latency reduction. This setting indirectly maps to the Citrix .ini file setting ZLKeyboardMode.
root/ConnectionType/xen/general/monitorNetwork	If set to Off, network connectivity is not monitored. If set to Local network link status only, only the local network link status is monitored. If set to Server online status, both the local network link status and server connectivity are monitored.
root/ConnectionType/xen/general/mouseClickFeedback	Controls mouse latency reduction. This setting indirectly maps to the Citrix .ini file setting ZLMouseMode.
root/ConnectionType/xen/general/mouseMiddleButtonPaste	If set to 1, middle mouse button paste emulation for Windows sessions is enabled. This setting directly maps to the Citrix .ini file setting MouseSendsControlV.
root/ConnectionType/xen/general/noInfoBox	If set to 1, the client manager (wfcmgr) will not display when a client session terminates. This setting directly maps to the Citrix .ini file setting PopupOnExit.
root/ConnectionType/xen/general/printerAutoCreation	If set to 0, printer mapping is disabled. If set to 1, printers defined locally will be mapped to the connection. If set to 2, USB printers are redirected as configured in USB Manager.
root/ConnectionType/xen/general/proxyAddress	Sets the proxy address to use if a manual proxy setting is selected via proxyType.
root/ConnectionType/xen/general/proxyPassword	Sets the proxy password to use if a manual proxy setting is selected via proxyType. This password will be encrypted using rc4 encryption.
root/ConnectionType/xen/general/proxyPort	Sets the proxy port to use if a manual proxy setting is selected via proxyType.
root/ConnectionType/xen/general/proxyType	Sets the type of proxy to use for XenDesktop connections. The value Use Browser settings is only supported if a local browser is installed.
root/ConnectionType/xen/general/proxyUser	Sets the proxy username to use if a manual proxy setting is selected via proxyType.
root/ConnectionType/xen/general/rightMonitor	Sets the screen area of the right monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/saveLogs	If set to 1, detailed log information is saved after the session ends. This log information will be saved to the following directory: /tmp/debug/citrix/<date>/

Registry key	Description
root/ConnectionType/xen/general/serverCheckTimeout	
root/ConnectionType/xen/general/sessionSharingClient	If set to 1, session-sharing requests are sent to other Citrix sessions on the same X display. This setting directly maps to the Citrix .ini file setting EnableSessionSharingClient.
root/ConnectionType/xen/general/showOnAllMonitors	If set to 1, the virtual desktop will be shown on all monitors.
root/ConnectionType/xen/general/smartCardModuleMap/CoolKeyPK11	Specifies the path to the CoolKey PKCS #11 smart card security module.
root/ConnectionType/xen/general/smartCardModuleMap/GemaltoDotNet	Specifies the path to the Gemalto .NET smart card security module.
root/ConnectionType/xen/general/smartCardModuleMap/OpenSC	Specifies the path to the Open SC smart card security module.
root/ConnectionType/xen/general/sound	Sets the sound quality. This setting indirectly maps to the Citrix .ini file setting AudioBandwidthLimit.
root/ConnectionType/xen/general/speedScreen	
root/ConnectionType/xen/general/tcpAccel	
root/ConnectionType/xen/general/tcpAddresses/<UUID>/address	
root/ConnectionType/xen/general/topMonitor	Sets the screen area of the top monitor to show the virtual desktop. If set to 0, the monitor is not used to show the virtual desktop.
root/ConnectionType/xen/general/transparentKeyPassthrough	Controls how certain Windows key combinations handled. If set to Translated, the key combinations apply to the local desktop. If set to Direct in full screen desktops only, the key combinations apply to the remote session only when it is in full screen mode. If set to Direct, the key combinations always apply to the remote session as long as the window has focus. This setting indirectly maps to the Citrix .ini file setting TransparentKeyPassthrough.
root/ConnectionType/xen/general/twRedundantImageItems	Controls the number of screen areas that will be tracked in ThinWire to prevent redundant drawing of bitmap images. An adequate value for 1024x768 sessions is 300.
root/ConnectionType/xen/general/useAlternateAddress	If set to 1, an alternate address is used for firewall connections. This setting directly maps to the Citrix .ini file setting UseAlternateAddress.
root/ConnectionType/xen/general/useBitmapCache	If set to 1, the persistent disk cache is enabled. The persistent disk cache stores commonly-used graphical objects such as bitmaps on the hard disk of the thin client. Using the persistent disk cache increases performance across low-bandwidth connections but reduces the amount of available disk space on the thin client. For thin clients on high-speed LANs, usage of the persistent disk cache is not necessary. This setting directly maps to the Citrix .ini file setting PersistentCacheEnabled.
root/ConnectionType/xen/general/useEUKS	Controls the use of Extended Unicode Keyboard Support (EUKS) on Windows servers. If set to 0, EUKS is not used. If set to 1, EUKS is used as a fallback. If set to 2, EUKS is used whenever possible.

Registry key	Description
root/ConnectionType/xen/general/useLocalIM	If this setting is enabled, the local X input method is used to interpret keyboard input. This is supported for European languages only. This setting directly maps to the Citrix .ini file setting useLocalIME.
root/ConnectionType/xen/general/userAgent	The string from this key will be presented by the Citrix client and will be helpful for administrators to know where the connection request is from.
root/ConnectionType/xen/general/waitForNetwork	If set to 1, the connection will not be launched until networking is available. This ensures that, on a slow network, the connection does not launch before networking is available, which could cause a failure.
root/ConnectionType/xen/general/webcamFramesPerSec	Controls the HDXWebCamFramesPerSec variable in the All_Regions.ini file.
root/ConnectionType/xen/general/webcamSupport	If set to 0, the webcam and webcam audio are disabled. If set to 1, the webcam and webcam audio are enabled, with compression. If set to 2, USB redirection of the webcam and webcam audio is enabled.
root/ConnectionType/xen/general/windowHeight	Sets the height of the window in pixels if windowSize is set to Fixed Size.
root/ConnectionType/xen/general/windowPercent	Sets the size of the window as a percentage if windowSize is set to Percentage of Screen Size.
root/ConnectionType/xen/general/windowSize	If set to Default, the server-side settings are used. If set to Full Screen, the window is maximized without borders on all available screens. If set to Fixed Size, the windowWidth and windowHeight registry keys can be used to specify the size of the window in pixels. If set to Percentage of Screen Size, the windowPercent key can be used to specify the size of the window as a percentage. For Percentage of Screen Size to take effect, enableForceDirectConnect must be set to 1 and TWIMode must be set to 0. This setting only works with XenApp and only if the server allows direct connections. This setting does not work with XenDesktop.
root/ConnectionType/xen/general/windowWidth	Sets the width of the window in pixels if windowSize is set to Fixed Size.
root/ConnectionType/xen/gui/XenDesktopPanel/disabled	If set to 1, the Xen Desktop panel and its taskbar are disabled. This is usually used when autoStartResource or autoStartDesktop is enabled.
root/ConnectionType/xen/gui/XenManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/widgets/address	Controls the state of the **Service URL** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Registry key	Description
root/ConnectionType/xen/gui/XenManager/widgets/appInMenu	Controls the state of the **Show applications on taskbar** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/appOnDesktop	Controls the state of the **Show applications on desktop** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/autoReconnect	Controls the state of the **Auto reconnect** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/autoStartDesktop	Controls the state of the **Auto Start Desktop** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/autoStartResource	Controls the state of the **Auto Start Resource** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/autostart	Controls the state of the **Auto start priority** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/domain	Controls the state of the **Domain** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/fallBackConnection	Controls the state of the **Fallback Connection** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/folder	
root/ConnectionType/xen/gui/XenManager/widgets/hasDesktopIcon	Controls the state of the **Show icon on desktop** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/ConnectionType/xen/gui/XenManager/widgets/isInMenu	This registry key is either used internally or reserved for future use. The value should not be changed.
root/ConnectionType/xen/gui/XenManager/widgets/label	Controls the state of the **Name** widget in Citrix Connection Manager. If set to active, the widget is visible in the UI and the

Registry key	Description
	user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/xen/gui/XenManager/widgets/password`	Controls the state of the **Password** widget in Citrix Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/xen/gui/XenManager/widgets/username`	Controls the state of the **Username** widget in Citrix Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/xen/gui/XenManager/widgets/waitForNetwork`	Controls the state of the **Wait for network before connecting** widget in Citrix Connection Manager. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
`root/ConnectionType/xen/gui/fbpanel/autohide`	If set to `true`, the taskbar auto-hides.
`root/ConnectionType/xen/gui/fbpanel/edge`	Sets the default position of the taskbar when more than one published desktop or application is available.
`root/ConnectionType/xen/gui/fbpanel/hidden`	If set to 1, the taskbar is completely hidden, but only if `autoStartResource` or `autoStartDesktop` is enabled.

CpuMgr

Registry key	Description
`root/CpuMgr/General/CpuNumber`	Indicates the number of CPUs in the system. This value is read-only.
`root/CpuMgr/General/EnableCpuMgr`	If set to 1, the CPU Manager will control system performance. If set to 0, the system will run at its default performance level.
`root/CpuMgr/General/ScalingAvailableGovernors`	Indicates the available CPU scaling governors in the system. This value is read-only.
`root/CpuMgr/General/ScalingGovernor`	Sets the CPU scaling governor to use when the CPU Manager is enabled. The available governors are hardware-dependent. Some common governors are `performance` and `ondemand`. The `performance` governor uses the most power and configures the system to run at maximum performance, even if nothing is in use. The `ondemand` governor configures system resources based on the current demand and might yield the best performance-per-watt, but user performance might suffer if the system is constantly increasing or decreasing the performance. The default governor is `performance`. A change in governor takes effect immediately.

DHCP

This folder exists to support temporary registry keys that are added when the system acquires a DHCP lease. No modification is necessary.

Dashboard

NOTE: The dashboard is the same thing as the taskbar.

Registry key	Description
root/Dashboard/GUI/Clock	If set to 1, the clock is shown on the taskbar.
root/Dashboard/GUI/ConnectionManager	If set to 1, the Connection Manager button is shown on the taskbar.
root/Dashboard/GUI/ControlPanel	If set to 1, the Control Panel button is shown on the taskbar.
root/Dashboard/GUI/PowerButton	If set to 1, the power button is shown on the taskbar.
root/Dashboard/GUI/Search	If set to 1, the Search button is shown on the taskbar.
root/Dashboard/GUI/SystemInformation	If set to 1, the System Information button is shown on the taskbar.
root/Dashboard/GUI/SystemTray	If set to 1, the system tray is shown on the taskbar.
root/Dashboard/GUI/TaskBar	If set to 1, the application area is shown on the taskbar.
root/Dashboard/General/AlwaysOnTop	If set to 1, the taskbar will always be on top.
root/Dashboard/General/AutoHide	If set to 1, the taskbar auto-hides.
root/Dashboard/General/EnterLeaveTimeout	Sets the amount of time in milliseconds before the taskbar will hide or show when AutoHide is enabled.
root/Dashboard/General/IconSize	Sets the size of the icons on the taskbar.
root/Dashboard/General/Length	Sets the length of the taskbar.
root/Dashboard/General/LengthToScreenSide	If set to 1, the length of taskbar is fixed and equal to the length of the side of the screen to which it is anchored.
root/Dashboard/General/PanelDockSide	Sets the side of the screen to which the taskbar is docked.
root/Dashboard/General/RemainPixel	Sets the number of pixels that are still visible when the taskbar hides.
root/Dashboard/General/SlidingTimeout	Sets the amount of time in milliseconds that it takes for the taskbar to hide or show when AutoHide is enabled.
root/Dashboard/General/Width	Sets the width of the taskbar.

Display

Registry key	Description
root/Display/Configuration/displaymode	Sets the display mode. If set to 0, the standard mode (a 1–4 monitor configuration) is used. If set to 1, a 6-monitor configuration can be used, but only on supported platforms with the appropriate add-on card.

Registry key	Description
root/Display/Configuration/hexlayout	Sets the layout in 6-monitor mode.
root/Display/Configuration/hexprofile	Sets the profile used in 6-monitor mode.
root/Display/Configuration/primaryprofile	Sets the profile to use for the primary monitor via the profile name. For Smart Zero, this must always be set to default.
root/Display/Configuration/quaternarymode	Sets the position of the fourth monitor relative to the monitor indicated in quaternaryrelative. This is hardware-dependent and is not supported on all models. Values are defined as follows: 0=Same As; 1=Above; 2=Right Of; 3=Left Of; 4=Below.
root/Display/Configuration/quaternaryprofile	Sets the profile to use for the fourth monitor via the profile name.
root/Display/Configuration/quaternaryrelative	Sets which monitor is used as a reference to set the position of the fourth monitor.
root/Display/Configuration/secondaryConnector	Sets the secondary connector.
root/Display/Configuration/secondarymode	Sets the position of the secondary monitor relative to the primary monitor. This is hardware-dependent and is not supported on all models. Values are defined as follows: 0=Same As; 1=Above; 2=Right Of; 3=Left Of; 4=Below.
root/Display/Configuration/ secondaryorientation	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Display/Configuration/secondaryprofile	Sets the profile to use for the secondary monitor via the profile name.
root/Display/Configuration/swapstate	Specifies which connector is connected to the primary monitor. This is hardware-dependent and is not supported on all models. Generally, 0 means the primary monitor is on the VGA connector and 1 means the other connector. For the t510, 0 means the primary monitor is on the DVI-I connector, and 1 means the primary monitor is on the DVI-D connector. For platforms with an add-on video card, 0 means the primary monitor is on the built-in video card, and 1 means the primary monitor is on the add-on video card.
root/Display/Configuration/tertiarymode	Sets the position of the third monitor relative to the monitor indicated in tertiaryrelative. This is hardware-dependent and is not supported on all models. Values are defined as follows: 0=Same As; 1=Above; 2=Right Of; 3=Left Of; 4=Below.
root/Display/Configuration/tertiaryprofile	Sets the profile to use for the third monitor via the profile name.
root/Display/Configuration/tertiaryrelative	Sets which monitor is used as a reference to set the position of the third monitor.
root/Display/Profiles/<UUID>/colorScaling	Sets the color temperature or direct RGB scaling for thin clients with built-in monitors. The entry is a 6-digit hex value (RRGGBB), where ffffff would indicate full (100%) scaling on all three color channels.
root/Display/Profiles/<UUID>/depth	Sets the display color depth in bits-per-pixel. A higher color depth means better quality but lower performance.
root/Display/Profiles/<UUID>/height	Sets the monitor resolution height. If set to 0, the resolution is auto-detected.
root/Display/Profiles/<UUID>/label	Sets the display profile name. For Smart Zero, this must always be set to default.

Registry key	Description
root/Display/Profiles/<UUID>/orientation	Sets the monitor orientation as follows: 0=Normal; 1=Rotate Left; 2=Rotate Right; 3=Invert.
root/Display/Profiles/<UUID>/refresh	Sets the desired monitor refresh rate. Not all refresh rates are supported for all resolutions. If set to 0, the refresh rate is auto-detected. The supported values are dependent on the monitor. Setting a refresh rate that is not supported by the attached monitor will lead to a black screen. HP recommends leaving this set to 0.
root/Display/Profiles/<UUID>/width	Sets the monitor resolution width. If set to 0, the resolution is auto-detected.
root/Display/userLock	If set to 1, and if the display settings have been modified by the user, the display settings are preserved when importing a client profile.
root/Display/userLockEngaged	This registry key is set to 1 automatically after the display settings have been modified by the user. You normally do not need to modify this setting.

Network

Registry key	Description
root/Network/ActiveDirectory/Domain	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/DynamicDNS	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Enabled	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Method	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Password	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/ActiveDirectory/Username	This registry key is either used internally or reserved for future use. The value should not be changed.
root/Network/DNSServers	Additional DNS servers for domain name resolution can be specified here. The specified servers will be used in addition to any servers retrieved via DHCP. Up to three IPv4 or IPv6 addresses can be specified, separated by commas.
root/Network/DefaultHostnamePattern	Sets the default hostname pattern to use when generating a new hostname. This is used if the Hostname registry key and /etc/hostname are both empty. The hostname pattern uses % as a delimiter. In the example HPTC%MAC:1-6%, HPTC would be the prefix, and the first six characters of the thin client MAC address would follow. So if the MAC address of the thin client is 11:22:33:44:55:66, the generated hostname would be HPTC112233. If the pattern is TC%MAC%, the generated hostname would be TC112233445566. If the pattern is HP%MAC:7%, the generated hostname would be HP1122334.
root/Network/EncryptWpaConfig	If set to 1, the password is encrypted.

Registry key	Description
root/Network/FtpProxy	Sets the FTP proxy address. HP recommends using the following format for this value because the http prefix is better supported: http://ProxyServer:Port
root/Network/Hostname	Sets the hostname of the thin client.
root/Network/HttpProxy	Sets the HTTP proxy address. HP recommends using the following format: http://ProxyServer:Port
root/Network/HttpsProxy	Sets the HTTPS proxy address. HP recommends using the following format for this value because the http prefix is better supported: http://ProxyServer:Port
root/Network/IPSec/IPSecRules/<UUID>/DstAddr	Sets the destination address for the IPSec rule.
root/Network/IPSec/IPSecRules/<UUID>/MMAuthMethod	Sets the authentication method for the IPSec rule. PSK is for using a pre-shared key, and Certificate is for using certificate files.
root/Network/IPSec/IPSecRules/<UUID>/MMAuthMethodCACert	If the authentication method is Certificate, the CA certificate file path is saved in this registry key.
root/Network/IPSec/IPSecRules/<UUID>/MMAuthMethodClientCert	If the authentication method is Certificate, the client certificate file path is saved in this registry key.
root/Network/IPSec/IPSecRules/<UUID>/MMAuthMethodPresharedKey	If the authentication method is PSK, the pre-shared key value is saved in this registry key.
root/Network/IPSec/IPSecRules/<UUID>/MMAuthMethodPrivateKey	If the authentication method is Certificate, the private key file path that corresponds with the client certificate is saved in this registry key.
root/Network/IPSec/IPSecRules/<UUID>/MMDHGroup	Sets the phase 1 Diffie-Hellman group.
root/Network/IPSec/IPSecRules/<UUID>/MMEncryptionAlg	Sets the phase 1 encryption algorithm.
root/Network/IPSec/IPSecRules/<UUID>/MMIntegrityAlg	Sets the phase 1 integrity algorithm.
root/Network/IPSec/IPSecRules/<UUID>/MMLifetimeMinutes	Sets the phase 1 lifetime.
root/Network/IPSec/IPSecRules/<UUID>/QMAHEnable	Enables phase 2 AH.
root/Network/IPSec/IPSecRules/<UUID>/QMAHIntegrityAlg	Sets the phase 2 AH integrity algorithm.
root/Network/IPSec/IPSecRules/<UUID>/QMESPEnable	Enables phase 2 ESP.
root/Network/IPSec/IPSecRules/<UUID>/QMESPEncryptionAlg	Sets the phase 2 ESP encryption algorithm.
root/Network/IPSec/IPSecRules/<UUID>/QMESPIntegrityAlg	Sets the phase 2 ESP integrity algorithm.
root/Network/IPSec/IPSecRules/<UUID>/QMLifetimeSeconds	Sets the phase 2 lifetime.
root/Network/IPSec/IPSecRules/<UUID>/RuleDescription	Sets the description for the IPSec rule.

Registry key	Description
root/Network/IPSec/IPSecRules/<UUID>/RuleEnable	If set to 1, the rule is enabled.
root/Network/IPSec/IPSecRules/<UUID>/RuleName	Sets the name for the IPSec rule.
root/Network/IPSec/IPSecRules/<UUID>/SrcAddr	Sets the source address for the IPSec rule.
root/Network/IPSec/IPSecRules/<UUID>/TunnelDstAddr	Sets the tunnel destination address for the IPSec rule.
root/Network/IPSec/IPSecRules/<UUID>/TunnelEnable	Enables tunnel mode for the IPSec rule.
root/Network/IPSec/IPSecRules/<UUID>/TunnelSrcAddr	Sets the tunnel source address for the IPSec rule.
root/Network/KeepPreviousDNS	If set to 1, previously-configured DNS servers and search domains not generated by the Network Manager will be kept in resolv.conf. If set to 0, resolv.conf will be overwritten completely.
root/Network/SearchDomains	Additional search domains for FQDN resolution can be specified here. The specified domains will be appended to any incomplete server definitions in an attempt to generate an FQDN that can be resolved via DNS. For example, a search domain of `mydomain.com` will allow the server definition `myserver` to resolve properly to `myserver.mydomain.com`, even if the DNS server does not have `myserver` in its name resolution tables. Up to five additional search domains can be specified.
root/Network/VPN/AutoStart	If set to 1, VPN starts automatically when the system starts up.
root/Network/VPN/PPTP/Domain	Sets the PPTP domain.
root/Network/VPN/PPTP/Gateway	Sets the PPTP gateway.
root/Network/VPN/PPTP/Password	Sets the PPTP user password.
root/Network/VPN/PPTP/Username	Sets the PPTP username.
root/Network/VPN/Type	Sets the VPN type.
root/Network/VPN/VPNC/Domain	Sets the VPNC domain.
root/Network/VPN/VPNC/Gateway	Sets the VPNC gateway.
root/Network/VPN/VPNC/Group	Sets the VPNC group.
root/Network/VPN/VPNC/GroupPassword	Sets the VPNC group password.
root/Network/VPN/VPNC/IKEDHGroup	Sets the VPNC IKE Diffie-Hellman group.
root/Network/VPN/VPNC/LocalUDPPort	Sets the local UDP port to use for VPNC. If set to 0, a random port will be used. This setting is valid only when the NAT traversal mode (`NATTMode`) is `cisco-udp`.
root/Network/VPN/VPNC/NATTMode	Sets the VPNC NAT traversal mode.
root/Network/VPN/VPNC/Password	Sets the VPNC user password.
root/Network/VPN/VPNC/PerfectForwardSecrecy	Sets the VPNC Diffie-Hellman group to use for Perfect Forward Secrecy (PFS).
root/Network/VPN/VPNC/Security	Sets the VPNC security level.
root/Network/VPN/VPNC/Username	Sets the VPNC username.

Registry key	Description
root/Network/Wired/DefaultGateway	Sets the default gateway the device will use to communicate with the Internet. Typically this is the IP address of the router. This setting will only take effect when Method is set to Static.
root/Network/Wired/EnableDefGatewayAsDNS	If set to 1, the default gateway will also be the name server.
root/Network/Wired/EthernetSpeed	Sets the link speed of the primary Ethernet network interface. Automatic allows the fastest available link speed to be used, which is usually 1 Gbps or 100 Mbps/Full depending on the switch. The link speed can also be forced to a single speed (100 Mbps or 10 Mbps) and duplex mode (Full or Half) to support switches and hubs that do not perform appropriate auto-negotiation.
root/Network/Wired/IPAddress	Sets the IPv4 address of the thin client. This setting will only take effect when Method is set to Static.
root/Network/Wired/IPv6Enable	If set to 1, IPv6 is enabled.
root/Network/Wired/Interface	Sets the default Ethernet interface or NIC.
root/Network/Wired/MTU	Sets the MTU. It does not matter if the IP address is static or DHCP-acquired.
root/Network/Wired/Method	If set to Automatic, the thin client will use DHCP to attempt to retrieve network settings. If set to Static, the values of the IPAddress, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile because it will cause all thin clients to receive the same IP address.
root/Network/Wired/Security/CACert	Sets the path to CA certificate file.
root/Network/Wired/Security/EnableMachineAuth	If set to 1, machine authentication for PEAP is enabled.
root/Network/Wired/Security/Identity	Sets the identity or anonymous identity.
root/Network/Wired/Security/InnerAuth	Sets the PEAP inner authentication protocol.
root/Network/Wired/Security/InnerAuthTTLS	Sets the TTLS inner authentication protocol.
root/Network/Wired/Security/MachineAuthName	Stores the machine account name when machine authentication is enabled.
root/Network/Wired/Security/ MachineAuthPassword	Stores the machine account password when machine authentication is enabled.
root/Network/Wired/Security/PEAPVersion	Sets the PEAP version.
root/Network/Wired/Security/Password	Sets the password.
root/Network/Wired/Security/PrivateKey	Sets the path to a private key file. This is only used for TLS authentication.
root/Network/Wired/Security/Type	Sets the 802.1x authentication type.
root/Network/Wired/Security/UserCert	Sets the path to a user certificate file. This is only used for TLS authentication.
root/Network/Wired/Security/Username	Sets the username.
root/Network/Wired/SubnetMask	Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting will only take effect when Method is set to Static.

Registry key	Description
root/Network/Wireless/DefaultGateway	Sets the default gateway the device will use to communicate with the Internet. Typically this is the IP address of the router. This setting will only take effect when Method is set to Static.
root/Network/Wireless/EnableDefGatewayAsDNS	If set to 1, the default gateway will also be the name server.
root/Network/Wireless/IPAddress	Sets the IPv4 address of the thin client. This setting will only take effect when Method is set to Static.
root/Network/Wireless/IPv6Enable	If set to 1, IPv6 is enabled.
root/Network/Wireless/Interface	Sets the default wireless interface or wireless network adapter.
root/Network/Wireless/Method	If set to Automatic, the thin client will use DHCP to attempt to retrieve network settings. If set to Static, the values of the IPAddress, SubnetMask, and DefaultGateway registry keys are used. HP does not recommend using Static in a generic client profile because it will cause all thin clients to receive the same IP address.
root/Network/Wireless/PowerEnable	If set to 1, power management of the wireless network card is enabled.
root/Network/Wireless/SSID	Sets the wireless access point to use via its SSID.
root/Network/Wireless/SSIDHidden	Specifies if the SSID of the wireless access point is hidden.
root/Network/Wireless/SSIDWhiteList	Specifies a whitelist for wireless access points. If this registry key's value is not empty, only the SSIDs specified in the value will be shown in the wireless access point scan results. Use a semicolon to separate the SSIDs.
root/Network/Wireless/Security/CACert	Sets the path to CA certificate file.
root/Network/Wireless/Security/EAPFASTPAC	Sets the path to the PAC file for EAP FAST authentication.
root/Network/Wireless/Security/ EAPFASTProvision	Sets the provisioning option for EAP FAST authentication.
root/Network/Wireless/Security/Identity	Sets the identity or anonymous identity.
root/Network/Wireless/Security/InnerAuth	Sets the PEAP inner authentication protocol.
root/Network/Wireless/Security/InnerAuthTTLS	Sets the TTLS inner authentication protocol.
root/Network/Wireless/Security/PEAPVersion	Sets the PEAP version.
root/Network/Wireless/Security/Password	Sets the password.
root/Network/Wireless/Security/PrivateKey	Sets the path to a private key file. This is only used for TLS authentication.
root/Network/Wireless/Security/Type	Sets the wireless authentication type.
root/Network/Wireless/Security/UserCert	Sets the path to a user certificate file. This is only used for TLS authentication.
root/Network/Wireless/Security/Username	Sets the username.
root/Network/Wireless/Security/WEPAuth	Sets the WEP authentication type.
root/Network/Wireless/Security/WEPIndex	Sets the WEP password index.
root/Network/Wireless/SubnetMask	Sets the subnet mask of the device, such as 255.255.255.0 (for a standard class C subnet). This setting will only take effect when Method is set to Static.

Registry key	Description
root/Network/Wireless/WpaDriver	Specifies the driver used by wpa_supplicant (wext by default). nl80211 is the only other driver that is currently supported.
root/Network/Wireless/bcmwlCountryOverride	Overrides the country value from the BIOS in case the BIOS does not have the necessary value. The bcmwl driver accepts the wl_country option, which is retrieved from BIOS values on an as-needed basis (only Indonesia is supported currently). A system restart is required for any changes to take effect.
root/Network/disableLeftClickMenu	If set to 1, the left-click menu for the network system tray icon is disabled.
root/Network/disableRightClickMenu	If set to 1, the right-click menu for the network system tray icon is disabled.
root/Network/iPeak/ShowStatus	If set to 1, the HP Velocity status is displayed as part of the system tray icon. HP Velocity is not supported on the HP t420.
root/Network/iPeak/Status	If set to 1, HP Velocity is enabled. If set to 2, HP Velocity is enabled in Monitor mode. If set to 0, HP Velocity is disabled. HP Velocity is not supported on the HP t420.
root/Network/userLock	If set to 1, and if the network settings have been modified by the user, the network settings are preserved when importing a client profile.
root/Network/userLockEngaged	This registry key is set to 1 automatically after the network settings have been modified by the user. You normally do not need to modify this setting.

SCIM

Registry key	Description
root/SCIM/ScimEnabled	If set to 1, SCIM is enabled for Chinese, Japanese, and Korean input.

ScepMgr

Registry key	Description
root/ScepMgr/General/AutoRenew/Enabled	If set to 1, certificates will be renewed automatically before they expire.
root/ScepMgr/General/AutoRenew/TimeFrame	Sets the number of days before a certificate's expiration date that the SCEP Manager will try to renew the certificate automatically.
root/ScepMgr/IdentifyingInfo/CommonName	Sets the common name to use for SCEP identifying information, such as your name or the Fully-Qualified Domain Name (FQDN) of the device. The FQDN is used by default if this value is left empty.
root/ScepMgr/IdentifyingInfo/CountryName	Sets the country or region to use for SCEP identifying information.
root/ScepMgr/IdentifyingInfo/EmailAddress	Sets the email address to use for SCEP identifying information.
root/ScepMgr/IdentifyingInfo/LocalityName	Sets the locality name to use for SCEP identifying information, such as a city name.

Registry key	Description
root/ScepMgr/IdentifyingInfo/OrganizationName	Sets the organization name to use for SCEP identifying information, such as a company name or government organization name.
root/ScepMgr/IdentifyingInfo/OrganizationUnitName	Sets the organizational unit name to use for SCEP identifying information, such as a department name or section name.
root/ScepMgr/IdentifyingInfo/StateName	Sets the state or province to use for SCEP identifying information.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/CertFileChanged	The registry key is used only to inform other applications that a certificate file has changed. This should not need to be modified.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/KeySize	Sets the key size to use for the generated key pair.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/ServerName	Sets the SCEP server name.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/ServerUrl	Sets the SCEP server URL, which is necessary for the SCEP client to enroll a certificate.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/Status/Code	Contains the status code of the SCEP enrollment. This value is read-only.
root/ScepMgr/ScepEnroll/ScepServers/<UUID>/Status/Detail	Contains detailed information about the SCEP enrollment. This value is read-only.

Search

Registry key	Description
root/Search/Category/Applications/ConnectionManager/checked	
root/Search/Category/Applications/ConnectionManager/enabled	
root/Search/Category/Applications/Connections/checked	
root/Search/Category/Applications/Connections/enabled	
root/Search/Category/Applications/ControlPanel/checked	
root/Search/Category/Applications/ControlPanel/enabled	
root/Search/Category/Applications/Desktop/checked	
root/Search/Category/Applications/Desktop/enabled	
root/Search/Category/Applications/icon	
root/Search/Category/Applications/name	
root/Search/Category/FileSystem/caseSensitive	
root/Search/Category/FileSystem/enabled	

Registry key	Description
root/Search/Category/FileSystem/folderFilter	Specifies the folders in the filesystem that the user will be allowed to search. Use a semicolon to separate folders. For example: /home/user;/usr/bin
root/Search/Category/FileSystem/location	
root/Search/Category/FileSystem/subFolder	
root/Search/Category/Miscellaneons/CheckForUpdate	
root/Search/Category/Miscellaneons/Logout	
root/Search/Category/Miscellaneons/Reboot	
root/Search/Category/Miscellaneons/ShutDown	
root/Search/Category/Miscellaneons/Sleep	
root/Search/Category/Miscellaneons/SwitchToAdmin	
root/Search/Category/Regeditor/byDir	
root/Search/Category/Regeditor/byKey	
root/Search/Category/Regeditor/byValue	
root/Search/Category/Regeditor/byWhole	
root/Search/GUI/showCategory	

Serial

Registry key	Description
root/Serial/<UUID>/baud	Sets the speed of the serial device.
root/Serial/<UUID>/dataBits	Sets how many bits are in each character.
root/Serial/<UUID>/device	Specifies the serial device attached to the system.
root/Serial/<UUID>/flow	Sets the flow control of the serial device, which is used to communicate stops and starts of the serial communication.
root/Serial/<UUID>/name	Specifies the Windows device port for communicating with the serial device.
root/Serial/<UUID>/parity	Sets the parity bit of the serial device. The parity bit is used for error detection. If set to none, there is no parity detection.

SystemInfo

Registry key	Description
root/SystemInfo/Pages/General	If set to 0, the **General** tab of the System Information window is hidden from end users.

Registry key	Description
root/SystemInfo/Pages/NetTools	If set to 0, the **Net Tools** tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/Network	If set to 0, the **Network** tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/SoftwareInformationTab/ServicePacks	If set to 0, the **Service Packs** tab in the **Software Information** section of the System Information window is hidden from end users.
root/SystemInfo/Pages/SoftwareInformationTab/SoftwareInformation	If set to 0, the **Software Information** tab of the System Information window is hidden from end users.
root/SystemInfo/Pages/SoftwareInformationTab/SoftwareInstalled	If set to 0, the **Software Installed** tab in the **Software Information** section of the System Information window is hidden from end users.
root/SystemInfo/Pages/SystemLogs	If set to 0, the **System Logs** tab of the System Information window is hidden from end users.
root/SystemInfo/authorized	If set to 0, the System Information button on the taskbar is disabled for end users.

TaskMgr

Registry key	Description
root/TaskMgr/General/AlwaysOnTop	If set to 1, the Task Manager window is always on top.

USB

Registry key	Description
root/USB/Classes/<ClassType>/ClassID	Sets the USB class ID number.
root/USB/Classes/<ClassType>/DisplayName	Sets the USB class name.
root/USB/Classes/<ClassType>/State	Sets whether the class is mapped to the remote host.
root/USB/Classes/<ClassType>/Visible	Sets whether the class is shown in the UI, not shown in the UI, or disabled.
root/USB/Classes/ShowTab	If set to 1, the **Classes** section is shown in USB Manager.
root/USB/Devices/<UUID>/DisplayName	Sets the name to show in USB Manager. If not supplied, USB Manager will attempt to generate an appropriate name using device information.
root/USB/Devices/<UUID>/ProductID	Sets the product ID of the device.
root/USB/Devices/<UUID>/State	Sets whether this device is mapped to the remote host as follows: 0=Do Not Redirect; 1=Use Defaults; 2=Redirect.
root/USB/Devices/<UUID>/VendorID	Sets the vendor ID of the device.
root/USB/root/autoSwitchProtocol	If set to 1, the remote USB protocol will switch automatically based on which protocol is chosen.

Registry key	Description
root/USB/root/mass-storage/allowed	If set to 1, mass storage devices will be mounted automatically when the protocol is local.
root/USB/root/mass-storage/read-only	If set to 1, when mass storage devices are mounted automatically, they will be mounted as read-only.
root/USB/root/opendebug	If set to 1, a debug message will be written to /tmp/USB-mgr-log.
root/USB/root/protocol	Sets which protocol owns remote USB. Valid values depend on which protocols are installed on the system but can include local, xen, freerdp, and view.

auto-update

Registry key	Description
root/auto-update/DNSAliasDir	Sets the default root directory for DNS alias mode on the server hosting HP Smart Client Services.
root/auto-update/ManualUpdate	If set to 1, the DHCP tag, DNS alias, and broadcast update methods for Automatic Update are disabled. When performing a manual update, the password, path, protocol, user, and ServerURL registry keys must be set to ensure the update server is known.
root/auto-update/ScheduledScan/Enabled	If set to 1, the thin client performs periodic scans of the Automatic Update server to check for updates. If set to 0, the thin client will only check for updates at system startup.
root/auto-update/ScheduledScan/Interval	Sets the amount of time to wait between scheduled update scans. This should be specified in the HH:MM format. Intervals longer than 24 hours can be specified. For example, to have the scans occur every 48 hours, set this to 48:00.
root/auto-update/ScheduledScan/Period	Thin clients will randomly activate their scheduled scan throughout the defined period. Using a long period avoids cases where all thin clients update at exactly the same, which could cause network congestion. The period should be specified in the HH:MM format. For example, to spread thin client updates over a 2.5-hour period, set this to 02:30.
root/auto-update/ScheduledScan/StartTime	Sets the start time of the first scheduled update scan period in the format HH:MM, using the 24-hour time format. For example, 4:35 p.m. would be 16:35.
root/auto-update/ServerURL	Sets the IP address or domain name of the update server used when ManualUpdate is enabled.
root/auto-update/VisibleInSystray	If set to 1, the Automatic Update system tray icon is enabled.
root/auto-update/enableOnBootup	If set to 1, Automatic Update is enabled at system startup.
root/auto-update/enableSystrayLeftClickMenu	If set to 1, the left-click menu for the Automatic Update system tray icon is enabled.
root/auto-update/enableSystrayRightClickMenu	If set to 1, the right-click menu for the Automatic Update system tray icon is enabled.

Registry key	Description
root/auto-update/gui/auto-update/ManualUpdate	Controls the state of the **Enable manual configuration** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/ServerURL	Controls the state of the **Server** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/ enableOnBootup	Controls the state of the **Enable Automatic Update on system startup** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/password	Controls the state of the **Password** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/protocol	Controls the state of the **Protocol** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/gui/auto-update/tag	This registry key is either used internally or reserved for future use. The value should not be changed.
root/auto-update/gui/auto-update/user	Controls the state of the **User name** widget in the Automatic Update tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/auto-update/password	Sets the password used when ManualUpdate is enabled. This is only used when protocol is set to ftp. This value will be encrypted.
root/auto-update/path	Sets the relative path from the default server URL for when ManualUpdate is enabled. Typically, this is empty or set to auto-update.
root/auto-update/preserveConfig	If set to 1, the current thin client configuration settings will be preserved when an image update occurs via Automatic Update.
root/auto-update/protocol	Sets the protocol used when ManualUpdate is enabled.
root/auto-update/tag	This registry key is obsolete. It previously set the tag number used for DHCP (137). This is now detected via the tag name auto-update.
root/auto-update/user	Sets the username used when ManualUpdate is enabled. This is only used when 'protocol' is set to 'ftp'.

background

Registry key	Description
root/background/bginfo/alignment	Sets the Background Sysinfo text alignment.
root/background/bginfo/enabled	If set to 1, system information is displayed on the desktop background (Background Sysinfo).
root/background/bginfo/horizontalLocation	Sets the Background Sysinfo location on the X-axis in a percentage.
root/background/bginfo/interval	Sets the Background Sysinfo text refresh interval in seconds.
root/background/bginfo/preset	Sets the Background Sysinfo preset file to use. If set to none, you can customize the settings in Background Manager.
root/background/bginfo/shadowColor	Sets the Background Sysinfo shadow color.
root/background/bginfo/shadowOffset	Sets the Background Sysinfo shadow offset. If set to 0, the shadow is disabled.
root/background/bginfo/text	Sets the Background Sysinfo text. For more information, see the HP ThinPro white paper *Login Screen Customization* (available in English only).
root/background/bginfo/textColor	Sets the Background Sysinfo text color.
root/background/bginfo/textSize	Sets the Background Sysinfo text size.
root/background/bginfo/verticalLocation	Sets the Background Sysinfo location on the Y-axis in a percentage.
root/background/desktop/color	If theme is set to none, this key stores the color used by the user-defined theme.
root/background/desktop/imagePath	If theme is set to none, this key stores the desktop background image path used by the user-defined theme.
root/background/desktop/lastBrowseDir	If theme is set to none, this key stores the last used directory.
root/background/desktop/style	If theme is set to none, this key stores how the background image is placed on the desktop (such as center, tile, stretch, fit, and fill).
root/background/desktop/theme	Specifies the system theme setting. This value is set via the Background Manager tool in Control Panel. The valid values depend on the themes that exist on the system. This can be set to none to let the user define the theme, to auto to have the system automatically set the appropriate protocol's theme for Smart Zero, or to default to use the default theme for ThinPro.

config-wizard

Registry key	Description
root/config-wizard/FirmwareUpdate/firmwareUpdateTimeout	Sets the timeout period in seconds for when checking for updates. If set to -1, there is no timeout.
root/config-wizard/FirmwareUpdate/firmwareUpdateURL	Sets the FTP URL for image updates.

Registry key	Description
root/config-wizard/FirmwareUpdate/preserveConfig	If set to 1, the current thin client configuration settings will be preserved when an image update occurs via the initial configuration wizard.
root/config-wizard/enableConnectionCheck	If set to 1, the connection check at system startup is enabled.
root/config-wizard/enableNetworkCheck	If set to 1, the network check at system startup is enabled.
root/config-wizard/updateCheck	If set to 1, the update check at system startup is enabled.

desktop

Registry key	Description
root/desktop/shortcuts/<action>/command	Sets the command that is run by the shortcut.
root/desktop/shortcuts/<action>/enabled	If set to 1, the shortcut is enabled.
root/desktop/shortcuts/<action>/shortcut	Sets the shortcut name.

entries

Registry key	Description
root/entries/<UUID>/command	
root/entries/<UUID>/folder	
root/entries/<UUID>/icon	
root/entries/<UUID>/label	
root/entries/<UUID>/metaInfo	
root/entries/<UUID>/onDesktop	
root/entries/<UUID>/onMenu	

keyboard

Registry key	Description
root/keyboard/DrawLocaleLetter	If set to 1, the keyboard system tray icon will draw the language locale string instead of using static images.
root/keyboard/SystrayMenu/keyboardLayout	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the Keyboard Layout tool in Control Panel.
root/keyboard/SystrayMenu/languages	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the Language tool in Control Panel.
root/keyboard/SystrayMenu/virtualKeyboard	If set to 1, the right-click menu on the keyboard system tray icon offers an option to open the virtual keyboard.

Registry key	Description
root/keyboard/VisibleInSystray	If set to 1, the keyboard system tray icon is displayed and indicates the current keyboard layout.
root/keyboard/XkbLayout	This is an internal key used to map to an XKB keyboard layout. This key should not need to be modified.
root/keyboard/XkbModel	This is an internal key used to map to an XKB keyboard model. This key should not need to be modified.
root/keyboard/XkbOptions	This is an internal key used to map to XKB keyboard options. This key should not need to be modified.
root/keyboard/XkbVariant	This is an internal key used to map to an XKB keyboard variant. This key should not need to be modified.
root/keyboard/enable2	If set to 1, the secondary keyboard layout can be switched to via the keyboard shortcut defined by switch.
root/keyboard/layout	Sets the primary keyboard layout.
root/keyboard/layout2	Sets the secondary keyboard layout.
root/keyboard/model	Sets the primary keyboard model.
root/keyboard/model2	Sets the secondary keyboard model.
root/keyboard/numlock	If set to 1, the Num Lock function is enabled at system startup.
root/keyboard/rdp_kb	This is an internal key used to map to an RDP keyboard map. This key should not need to be modified.
root/keyboard/switch	Sets the keyboard shortcut for switching between the first and second keyboard layout (enable2 must also be set to 1). Valid values are as follows: grp:ctrl_shift_toggle, grp:ctrl_alt_toggle, grp:alt_shift_toggle.
root/keyboard/variant	Sets the primary keyboard variant.
root/keyboard/variant2	Sets the secondary keyboard variant.

logging

Registry key	Description
root/logging/general/debug	If set to 1, debugging is enabled for all debug-supported subsystems. This is usually used in conjunction with generateDiagnostic.sh or the System Information **Diagnostic** tool to generate a diagnostic bundle with system debug logs included.
root/logging/general/debugLevel	Sets the debug level. This value will be leveraged by other modules to generate the corresponding logs.
root/logging/general/showDebugLevelBox	If set to 1, the **Debug level** option on the **System Logs** tab of the **System Information** window will be available to end users. If set to 0, the option is available to administrators only.

mouse

Registry key	Description
root/mouse/MouseHandedness	If set to 0, the mouse is right-handed. If set to 1, the mouse is left-handed.
root/mouse/MouseSpeed	Sets the acceleration of the mouse pointer. Typically, a value from 0 to 25 is in the usable range. A value of 0 completely disables acceleration, causing the mouse to move at a constant slow, but measurable pace.
root/mouse/MouseThreshold	Sets the number of pixels before mouse acceleration is enabled. A value of 0 sets the acceleration to a natural curve that gradually scales acceleration, allowing for both precise and quick movements.

restore-points

Registry key	Description
root/restore-points/factory	Specifies which snapshot to use for a factory reset.

screensaver

Registry key	Description
root/screensaver/SlideShowAllMonitors	If set to 1, the screen saver slide show will be shown on all monitors. If set to 0, the slide show will be shown on the primary monitor only.
root/screensaver/SlideShowInterval	Sets the interval in seconds for switching images in the screen saver slide show.
root/screensaver/SlideShowPath	Specifies the directory that contains the images for the screen saver slide show.
root/screensaver/enableCustomLogo	If set to 1, the custom image defined in `logoPath` is used for the screen saver.
root/screensaver/enableDPMS	If set to 0, monitor power management is disabled. This causes the monitor to always stay on unless turned off manually.
root/screensaver/enableScreensaver	If set to 1, the screen saver is enabled.
root/screensaver/enableSleep	If set to 1, sleep mode is enabled.
root/screensaver/lockScreen	If set to 1, a password is required to return to the desktop from the screen saver.
root/screensaver/logoPath	Sets the path to a custom image to use for the screen saver.
root/screensaver/mode	Sets the rendering mode for the screen saver image (such as `Center`, `Tile`, and `Stretch`). If set to `Default`, the image is displayed without any processing. If set to `SlideShow`, the screen saver will cycle through images in the directory specified by `SlideShowPath`.
root/screensaver/off	Sets the timeout delay in minutes before the monitor turns off.

Registry key	Description
root/screensaver/origImageCopyPath	This is the path where the custom image is saved when mode is set to Default.
root/screensaver/standby	Sets the timeout delay in minutes before the monitor goes into standby mode.
root/screensaver/suspend	Sets the timeout delay in minutes before the monitor goes into suspend mode.
root/screensaver/timeoutScreensaver	Sets the timeout delay in minutes before the screen saver starts.
root/screensaver/timeoutSleep	Sets the timeout delay in minutes before the thin client goes into sleep mode.

security

Registry key	Description
root/security/mustLogin	If set to 1, all users are forced to log in before accessing the desktop.

sshd

Registry key	Description
root/sshd/enabled	If set to 1, the SSH daemon is enabled and the thin client can be accessed via SSH.
root/sshd/userAccess	If set to 1, end users can connect to the thin client via SSH.

time

Registry key	Description
root/time/NTPServers	Specifies NTP servers to use via a comma-separated list. Private NTP servers or large virtual NTP clusters such as pool.ntp.org are the best choices to minimize server load. Clear this value to return to using DHCP servers (tag 42) instead of a fixed list.
root/time/TimeServerIPAddress	Sets the time server used by the Linux net command. These servers are typically the domain controller servers on the corporate network. This should be used when NTP servers are not configured or they are not responding. The Linux net command identifies this server on its own. However, specific server IP addresses can be provided here if desired.
root/time/WebServerURL	Sets the web server URL (such as hp.com) to use when fetching the time using the http protocol. This URL can be within an intranet or over the Internet.
root/time/timezone	Sets the time zone. Time zones should be specified as defined by **Linux Timezone** in the **Date and Time** tool in Control Panel, and they should be in the following format: *Region*/*Subregion*.

Registry key	Description
root/time/use24HourFormat	If set to -1, the system chooses the format automatically according to the locale. If set to 0, the a.m./p.m. format is used. If set to 1, the 24-hour format is used.
root/time/useDHCPTimezone	If set to 1, the thin client will attempt to set the time zone via DHCP. To properly set the time zone via this registry key, ensure that the DHCP server for the thin client forwards the tcode DHCP tag (which is usually tag 101, although 100 and 2 can work also).
root/time/useNTPServers	If set to 1, the use of NTP time servers to synchronize the thin client clock is enabled. If this is enabled, ensure that an NTP server is specified via DHCP or via NTPServers.

touchscreen

Registry key	Description
root/touchscreen/calibrated	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/enabled	If set to 1, the touch screen input is enabled.
root/touchscreen/maxx	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/maxy	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/minx	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/miny	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/port	Specifies the port that is connected to the touch screen.
root/touchscreen/swapx	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/swapy	This registry key is either used internally or reserved for future use. The value should not be changed.
root/touchscreen/type	Specifies the controller type of the touch screen.

translation

Registry key	Description
root/translation/coreSettings/localeMapping/<LanguageCode>	These are internal keys used to provide the text string next to the appropriate language on the language selector. These keys should not need to be modified.
root/translation/coreSettings/localeSettings	Sets the locale for the thin client. This locale will also be forwarded to the remote connection. Valid locales are en_US (English), de_DE (German), es_ES (Spanish), fr_FR (French), ru_RU (Russian), ja_JP (Japanese), ko_KR (Korean), zh_CN (Simplified Chinese), and zh_TW (Traditional Chinese).

Registry key	Description
root/translation/gui/LocaleManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/translation/gui/LocaleManager/widgets/localeSettings	Controls the state of the locale setting widget in the Language tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

usb-update

Registry key	Description
root/usb-update/authentication	If set to 1, an administrator password is required to do USB updates.
root/usb-update/enable	If set to 1, USB update auto-detection is enabled.
root/usb-update/height	Sets the height of the USB Update window in pixels.
root/usb-update/searchMaxDepth	Sets the depth of subdirectories to be searched for updates. Setting a high search depth can cause delays on USB flash drives that have thousands of directories.
root/usb-update/width	The width of the USB Update window in pixels.

users

Registry key	Description
root/users/gui/hptc-user-rights/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/gui/hptc-user-rights/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/gui/hptc-user-rights/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/root/password	Sets the administrator password. If empty, administrator mode is locked.
root/users/user/SSO	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/WOL	If set to 1, Wake On LAN (WOL) is enabled.
root/users/user/XHostCheck	If set to 1, only the systems listed under root/users/user/xhosts are allowed to remotely control the thin client.
root/users/user/apps/hptc-ad-dns-mgr/authorized	If set to 1, the **AD/DDNS Manager** Control Panel item is accessible by end users.

Registry key	Description
root/users/user/apps/hptc-agent-mgr/authorized	If set to 1, the **HPDM Agent** Control Panel item is accessible by end users.
root/users/user/apps/hptc-auto-update/authorized	If set to 1, the **Automatic Update** Control Panel item is accessible by end users.
root/users/user/apps/hptc-background-mgr/authorized	If set to 1, the **Background Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-cert-mgr/authorized	If set to 1, the **Certificate Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-clientaggregation-mgr/authorized	If set to 1, the **Client Aggregation** Control Panel item is accessible by end users.
root/users/user/apps/hptc-date-mgr/authorized	If set to 1, the **Date and Time** Control Panel item is accessible by end users.
root/users/user/apps/hptc-dhcp-mgr/authorized	If set to 1, the **DHCP Option Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-display-prefs/authorized	If set to 1, the **Display Preferences** Control Panel item is accessible by end users.
root/users/user/apps/hptc-easy-update/authorized	If set to 1, the **Easy Update** Control Panel item is accessible by end users.
root/users/user/apps/hptc-energy-star/authorized	If set to 1, the **Energy Star** Control Panel item is accessible by end users.
root/users/user/apps/hptc-i18n-mgr/authorized	If set to 1, the **Language** Control Panel item is accessible by end users.
root/users/user/apps/hptc-keyboard-layout/authorized	If set to 1, the **Keyboard Layout** Control Panel item is accessible by end users.
root/users/user/apps/hptc-mixer/authorized	If set to 1, the **Sound** Control Panel item is accessible by end users.
root/users/user/apps/hptc-mouse/authorized	If set to 1, the **Mouse** Control Panel item is accessible by end users.
root/users/user/apps/hptc-network-mgr/authorized	If set to 1, the **Network Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-printer-mgr/authorized	If set to 1, the **Printers** Control Panel item is accessible by end users.
root/users/user/apps/hptc-restore/authorized	If set to 1, the **Snapshots** Control Panel item is accessible by end users.
root/users/user/apps/hptc-screenlock-mgr/authorized	If set to 1, the **Power Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-security/authorized	If set to 1, the **Security** Control Panel item is accessible by end users.
root/users/user/apps/hptc-shortcut-mgr/authorized	If set to 1, the **Keyboard Shortcut Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-sshd-mgr/authorized	If set to 1, the **SSHD Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-task-mgr/authorized	If set to 1, the **Task Manager** Control Panel item is accessible by end users.

Registry key	Description
root/users/user/apps/hptc-text-editor/authorized	If set to 1, the **Text Editor** Control Panel item is accessible by end users.
root/users/user/apps/hptc-thinstate/authorized	If set to 1, the**ThinState** Control Panel item is accessible by end users.
root/users/user/apps/hptc-touchscreen/authorized	If set to 1, the **Touch Screen** Control Panel item is accessible by end users.
root/users/user/apps/hptc-usb-mgr/authorized	If set to 1, **USB Manager** Control Panel item is accessible by end users.
root/users/user/apps/hptc-user-rights/authorized	If set to 1, **Customization Center** Control Panel item is accessible by end users.
root/users/user/apps/hptc-vncshadow/authorized	If set to 1, the **VNC Shadow** Control Panel item is accessible by end users.
root/users/user/apps/hptc-xterm/authorized	If set to 1, the **X Terminal** Control Panel item is accessible by end users. **CAUTION:** Enabling X terminal access is a security risk and is not recommended in a production environment. The X terminal should only be enabled for use in debugging a protected, non-production environment.
root/users/user/apps/scim-setup/authorized	If set to 1, the **SCIM Input Method Setup** Control Panel item is accessible by end users.
root/users/user/hideDesktopPanel	If set to 1, desktop panels such as the taskbar are not started or shown in the desktop.
root/users/user/kioskMode	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/launchConnectionManager	If set to 1, Connection Manager launches at system startup.
root/users/user/rightclick	If set to 1, the right-click menu for the desktop is enabled.
root/users/user/showPasswordButton	If set to 1, the **Show password** option is available in the administrator login dialog box.
root/users/user/ssoconnectiontype	This registry key is either used internally or reserved for future use. The value should not be changed.
root/users/user/switchAdmin	If set to 1, switching to administrator mode is enabled.
root/users/user/xhosts/<UUID>/xhost	Specifies the IP address or hostname of a system that will be allowed to remotely control the thin client when XHostCheck is enabled.

vncserver

Registry key	Description
root/vncserver/coreSettings/enableVncShadow	If set to 1, the VNC shadowing server for the thin client is enabled.
root/vncserver/coreSettings/userNotificationMessage	Sets the notification message that is shown to the user when someone is attempting to connect to the thin client using VNC.

Registry key	Description
root/vncserver/coreSettings/vncNotifyShowTimeout	If set to 1, a timeout is applied to the notification dialog that is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncNotifyTimeout	Sets the timeout in seconds for the notification dialog that is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncNotifyUser	If set to 1, a notification is shown to the user when someone is attempting to connect to the thin client using VNC.
root/vncserver/coreSettings/vncPassword	Sets the password for VNC shadowing. The key vncUsePassword must also be enabled.
root/vncserver/coreSettings/vncReadOnly	If set to 1, VNC shadowing will operate in view-only mode.
root/vncserver/coreSettings/vncRefuseInDefault	If set to 1, VNC requests are refused automatically if the user does not interact with the notification dialog before the timeout.
root/vncserver/coreSettings/vncTakeEffectRightNow	If set to 1, VNC settings take effect immediately after being modified.
root/vncserver/coreSettings/vncUsePassword	If set to 1, the password specified in vncPassword is required for VNC shadowing.
root/vncserver/coreSettings/vncUseSSL	If set to 1, SSL is used for VNC connections.
root/vncserver/gui/VNCShadowManager/name	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/status	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/title	This registry key is either used internally or reserved for future use. The value should not be changed.
root/vncserver/gui/VNCShadowManager/widgets/enableVncShadow	Controls the state of the **Enable VNC Shadow** widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/userNotificationMessage	Controls the state of the **User Notification Message** widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncNotifyShowTimeout	Controls the state of the **VNC Show Timeout for Notification** widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncNotifyTimeout	Controls the state of the numerical widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncNotifyUser	Controls the state of the **VNC Notify User to Allow Refuse** widget in the VNC Shadow tool. If set to active, the widget is visible in the UI and the user can interact with it. If set to inactive, the widget is hidden. If set to read-only, the widget is visible in the read-only state.

Registry key	Description
root/vncserver/gui/VNCShadowManager/widgets/vncPassword	Controls the state of the **Set Password** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncReadOnly	Controls the state of the **VNC Read Only** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncRefuseInDefault	Controls the state of the **Refuse connections in default** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncTakeEffectRightNow	Controls the state of the **Re-set VNC server right now** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncUsePassword	Controls the state of the **VNC Use Password** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.
root/vncserver/gui/VNCShadowManager/widgets/vncUseSSL	Controls the state of the **VNC Use SSL** widget in the VNC Shadow tool. If set to `active`, the widget is visible in the UI and the user can interact with it. If set to `inactive`, the widget is hidden. If set to `read-only`, the widget is visible in the read-only state.

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