



Dell Wyse PColP Firmware Release 5.4.1

Release Notes

Software releases are created to correct defects, make enhancements, or add new features. These releases are tested on all current, actively shipping platforms and operating systems, as applicable. This release notes contain details on the supported platforms, any changes in the configuration settings and licensing details as well. The bug fixes along with the workarounds are documented in the release notes. Any changes in the feature functionality from an end-user perspective are listed with the description of each feature at a high level.

Current Version: 5.4.1
Release Date: 2017-04

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Release overview PColP

The zero client firmware is applicable for Tera2 zero client only. This document provides a summary of upgrade scenarios, new feature, compatibility notes, and upgrade paths for Dell Wyse PColP firmware release 5.4.1

For WDM:

- WDM v5.7.2 and v5.7.1 supports 4.x, 5.2.2 and 5.4.1 firmware versions.
- Earlier versions of WDM support only 4.x. If you are using earlier versions of WDM, then upgrade the WDM to version 5.7.1 and proceed with the firmware update.

For Teradici console:

- PColP management console 2.x cannot detect or manage devices on firmware versions earlier than version 5.0. If you need to upgrade from firmware 4.x, then either the zero client AWI or PColP management console 1.10.3-1.10.7 must be used to upgrade the zero client to firmware 5.x.
- Zero clients on firmware 5.x can only be managed by PColP management console 2.0 or later. PColP management console 1.x cannot detect or manage devices on firmware 5.x.

Supported platforms

This release supports the following platforms:

- Dell Wyse 5030 zero client for VMware and AWS.
- Dell Wyse 5050 AIO thin client.
- Dell Wyse 7030 zero client for VMware and AWS.

Upgrade scenarios

- 1 Upgrade Teradici firmware using WDM 5.7.1 or 5.7.2.
 - a To update firmware from 4.x to 5.x.
 - b To update firmware from 5.x to 5.x.
- 2 Upgrade Teradici firmware using Teradici management console.

Upgrade paths

- 1 Upgrade Teradici firmware using WDM 5.7.1 or 5.7.2.
 - a To update firmware from 4.x to 5.x see **Upgrade the ThreadX 4.x devices to ThreadX 5.x from WDM** in the WDM 5.7.2 Administrator's Guide for detailed steps.
 - 1 Create an **.rsp** package for the 5.x firmware using TDC as the OS.
 - 2 Import the TDC 5.x image using the WDM Web UI.
 - 3 Update the client.
 - b To update firmware from 5.x to 5.x see **Upgrade client firmware to ThreadX 5.x in the WDM 5.7.2 Administrator's Guide** for detailed steps.
 - 1 Create an **.rsp** package for the 5.x firmware using TDC5 Operating System.
 - 2 Import the TDC 5.x image using the WDM Web sUI.
 - 3 Update client(s).
- 2 Upgrade Teradici firmware using Teradici Management Console
 - a For more information about the firmware upgrades and their requirements, see teradici.com
 - b To update firmware from 4.x to 5.x using TMC 1.10.5 see **Upgrade Endpoints to Firmware 5.0+ in the TMC 2 Administrator Guide**.
 - 1 Import 5.x image.
 - 2 Update client(s).
 - c To update firmware from 5.x to 5.x using TMC 2+, see **Managing Profiles in the TMC 2 Administrator Guide**.
 - 1 Import 5.x image.
 - 2 Create a profile.
 - 3 Associate the profile to a group.
 - 4 Apply to sprofile.

Compatibility

Version	Compatibility Notes	Platforms			
		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
5.3	This PCoIP firmware is compatible with the release of VMware Horizon that was available when this firmware was released. It is also compatible with one major release of Horizon prior to this. Earlier Horizon version may also be compatible, but needs to be verified in your specific deployment environment. The version		✓		

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		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
	of Horizon available at the time of this firmware release was Horizon 7.0.				
5.3	<p>PCoIP Zero Client Firmware 5.0 and later requires PCoIP Connection Manager for Amazon WorkSpaces 1.0.2 GA or later in order to connect to Amazon WorkSpaces. It is not compatible with earlier versions of the PCoIP connection manager for Amazon WorkSpaces.</p> <p>Zero client connectivity to Amazon WorkSpaces with hourly billing requires firmware 5.3 or higher, and the PCoIP Connection Manager for Amazon WorkSpaces 1.0.5 or later.</p>			✓	
5.3	Deployments using the PCoIP management console to manage Tera2 zero clients on this firmware release must use PCoIP management console release 2.0 or later. Use the latest release of the PCoIP management console.				
5.3	<p>Mixed firmware release operation is not generally supported, this firmware release has been tested to work with Remote Workstation Cards on remote Workstation Card firmware 4.7.5.</p> <p>NOTE: Using zero clients on this firmware release to connect to Remote Workstation Cards may require you to use both versions of PCoIP Management Console: version 2 to manage the zero clients, and version 1.x to manage Remote Workstation Cards until such time as there is a Remote Workstation Card firmware release that is supported by PCoIP Management Console 2.0 or later.</p>	✓	✓		
5.3	This PCoIP Zero Client Firmware release has been tested against Imprivata OneSign 5.1 with VMware Horizon 7.0.		✓		
5.3	This PCoIP Zero Client Firmware release has been tested with the Leostream Connection Broker version 8. It is not compatible with earlier versions of the Leostream Connection Broker.	✓	✓		✓

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		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
	<p>NOTE: After upgrading from PColP Zero Client Firmware 4.x to 5.x, the session connection type for the zero client must be changed to PColP Connection Manager, with the address of the Leostream Connection Broker. Also ensure the Leostream Connection Broker has had 'Enable TLSv1.1 protocol' enabled in the Connection Broker Security Options section of the Connection Broker > System > Settings page.</p>				
5.3	Supported browsers are Firefox, Chrome, Internet Explorer 11, and Microsoft Edge. Versions of the browsers tested are those that were available prior to release. Web browsers must support TLS 1.1 or higher to connect to the administrative web interface (AWI).				
5.4.0	This release is compatible with VMware Horizon 7.0. It is also compatible with one major release of Horizon prior to this. Other versions of Horizon may also be compatible, but needs to be verified in your specific deployment environment.		✓		
5.4.0	<p>PCoIP Connection Manager for Amazon WorkSpaces 1.0.2 or higher is required in order to connect to Amazon WorkSpaces.</p> <p>Use of Amazon WorkSpaces with hourly billing requires the PCoIP Connection Manager for Amazon WorkSpaces 1.0.5 or higher.</p>			✓	
5.4.0	Management requires a compatible endpoint manager such as PCoIP Management Console release 2.0 or higher.				
5.4.0	While mixed firmware release operation is not generally supported, this firmware release has been tested to work with Remote Workstation Cards on Remote Workstation Card firmware 4.9.0.	✓	✓		

Version	Compatibility Notes	Platforms			
		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
	<p>(i) NOTE: Using zero clients on this firmware release to connect to Remote Workstation Cards may require you to use both versions of PColP Management Console: version 2 to manage the zero clients, and version 1.x to manage Remote Workstation Cards until such time as there is a Remote Workstation Card firmware release that is supported by PColP Management Console 2.0 or higher.</p>				
5.4.0	This release has been tested against Imprivata OneSign 5.2 with VMware Horizon 7.0.		✓		
5.4.0	<p>This release has been tested with the Leostream Connection Broker version 8. It is not compatible with earlier versions of the Leostream Connection Broker.</p> <p>(i) NOTE: After upgrading from PColP Zero Client Firmware 4.x to 5.x, the session connection type for the zero client must be changed to PColP Connection Manager, with the address of the Leostream Connection Broker. Also ensure the Leostream Connection Broker has had 'Enable TLSv1.1 protocol' enabled in the <i>Connection Broker Security Options</i> section of the Connection Broker > System > Settings page.</p>	✓	✓		✓
5.4.0	Supported browsers are Firefox, Chrome, Internet Explorer 11, and Microsoft Edge. Versions of the browsers tested are those that were available prior to release. Web browsers must support TLS 1.1 or higher to connect to the administrative web interface (AWI).				
5.4.1	This release is compatible with VMware Horizon 7.0. It is also compatible with one major release of Horizon prior to this. Other versions of Horizon may also be compatible,		✓		

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		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
	but needs to be verified in your specific deployment environment.				
5.4.1	<p>PCoIP Connection Manager for Amazon WorkSpaces 1.0.2 or higher is required in order to connect to Amazon WorkSpaces.</p> <p>Use of Amazon WorkSpaces with hourly billing requires the PCoIP Connection Manager for Amazon WorkSpaces 1.0.5 or higher.</p>			✓	
5.4.1	Management requires a compatible endpoint manager such as PCoIP Management Console release 2.0 or higher.				
5.4.1	<p>While mixed firmware release operation is not generally supported, this firmware release has been tested to work with Remote Workstation Cards on Remote Workstation Card firmware 4.9.0.</p> <p>NOTE: Using zero clients on this firmware release to connect to Remote Workstation Cards may require you to use both versions of PCoIP Management Console: version 2 to manage the zero clients, and version 1.x to manage Remote Workstation Cards until such time as there is a Remote Workstation Card firmware release that is supported by PCoIP Management Console 2.0 or higher.</p>	✓	✓		
5.4.1	This release has been tested against Imprivata OneSign 5.2 with VMware Horizon 7.0.		✓		
5.4.1	This release has been tested with the Leostream Connection Broker version 8. It is not compatible with earlier versions of the Leostream Connection Broker.	✓	✓		✓

Version	Compatibility Notes	Platforms			
		Workstation	VMware Horizon	Amazon WorkSpaces	Teradici Cloud Access Platform
	<p>NOTE: After upgrading from PColP zero client firmware 4.x to 5.x, the session connection type for the zero client must be changed to PColP Connection Manager, with the address of the Leostream Connection Broker. Also ensure the Leostream Connection Broker has had 'Enable TLSv1.1 protocol' enabled in the Connection Broker Security Options section of the Connection Broker > System > Settings page.</p>				
5.4.1	<p>Supported browsers are Firefox, Chrome, Internet Explorer 11, and Microsoft Edge. Versions of the browsers tested are those that were available prior to release.</p> <p>Web browsers must support TLS 1.1 or higher to connect to the administrative web interface (AWI).</p>				

Known Issues and workaround

Known Issues	Workaround
Zero client is unable to use IPv6 VMware Horizon View when DHCPv6 is not available.	When IPv6 is enabled on a zero client but it is unable to contact a DHCPv6 server, the zero client is not be able to broker a session using an IPv6 VMware Horizon View connection server. The zero client displays the message CONFIGURATION_ERROR - IPv6 capability required: Your VMware Horizon View Client addressing configuration is not compatible with this View Server.
Security scanners may report zero client to be susceptible to CVE-2004-0230.	Security scanners may report that the zero client is susceptible to CVE-2004-0230. This CVE exists in TCP stacks in devices that implement the Border Gateway Protocol. While this is a significant issue for routers that implement the Border Gateway Protocol, it is not a significant issue for zero clients.
Evolution Vertical mouse 4 mouse wheel problem occurs with Belkin advanced secure keyboard/mouse switch. Mouse wheel scroll-down does not work while in a PColP session. This occurs when the mouse is connected to a zero client through a Belkin advanced secure keyboard/mouse switch. This problem has been observed while using KM models F1DN102K, F1DN104K, and F1DN108K.	On Tera2 Zero Clients, bridge the KM and enable the Force Local Cursor Visible on the zero client Configuration > USB Administrative Web Interface .
Zero client fails to resolve FQDN with a label that starts or ends with an underscore.	Zero client do not resolve an FQDN that begins or ends with the underscore character (for example, _myhost.teradici.local).
Restrict Proximity Card setting does not work with VMware Horizon RDSH.	The Restrict Proximity Card setting does not work with VMware Horizon RDSH sessions when set to disabled.

Known Issues	Workaround
Enumeration failures with Western Digital portable hard drives. Western Digital Passport external portable hard drives connected to a zero client internal hub may fail to enumerate.	Connect the drive to a zero client root hub port, or connect the drive to an external hub that is connected to the zero client, then restart the PCoIP session and disconnect/reconnect the drive.
Manual IPv6 gateway address is overwritten on reset.	Although the IPv6 Gateway address is displayed as an editable field on the zero client Administrative Web Interface (AWI), changes to this field are not respected by the zero client firmware. Instead, the IPv6 gateway is determined using IPv6 Router Advertisement.
Zero client AWI cannot be accessed when touch monitor may lose calibration in OSD is entered in the IPv6 Manual address field.	Use the On-Screen Display (OSD) to reconfigure the IPv6 address settings.
Evoluent VerticalMouse 4 does not work when connected behind a hub during active session.	Avoid plugging the device into a hub port while a session is active or connect the device to a zero client root port. Alternatively, disconnect and reconnect the session after plugging the mouse into a zero client behind a hub.
Elo touch monitor may lose calibration in OSD after used in bridged mode with certain Elo Multi-Touch drivers.	Use version 5.5.3 of the Elo multi-touch driver. This issue has not been observed with this driver version.
Disconnecting one display resets preferred resolution override on all displays.	When multiple displays have preferred resolution override applied to them, disconnecting one display will clear the override for all displays.
Gemalto IDCore 3020 smart cards is missing correct driver in Windows 7.	<p>Install the correct driver from a default Windows 7 installation:</p> <ul style="list-style-type: none"> • From the zero client administrative web interface, bridge the smart card reader. • Without the smart card inserted, log in to the virtual desktop with username/password. • Insert the smart card. Windows 7 should recognize the smart card and reader and automatically install the correct drivers. • Log off Windows to disconnect the session. • From the zero client administrative web interface, remove the bridge configuration for the smart card reader. • Log in with the smart card. The smart card should be fully accessible.
OneSign cannot authenticate after changing Session Connection Type.	Restart the zero client.
After display is turned off, screen does not wake up by pushing zero client button.	When the On-Screen Display (OSD) Screensaver timeout expires, it will turn off the display after the end of a PCoIP session brokered by a PCoIP Connection Manager. Clicking the zero client's physical button does not wake the display.
OSD cursor briefly stops responding to mouse input.	The On-Screen Display (OSD) cursor stops responding to mouse input for a few seconds after pressing the apply button on the AWI USB permissions page, or while loading the AWI attached devices page. It behaves as expected shortly after.
Switching between DVI and display port connectors may cause screen to go blank on HP Z27i displays.	HP Z27i displays connected to a zero client's display port connectors may not show the remote desktop content when the zero client starts a PCoIP session to a workstation access card, and the card's previous session was from a zero client with displays attached to its DVI ports.
Temporary IPv6 addressing causes failure when connecting zero clients to any soft host.	Zero clients cannot establish a connection to any soft host that has temporary IPv6 addressing enabled.

Known Issues	Workaround
Nessus warns on SNMP community name.	Change the SNMP community name or disable SNMP.
Disconnecting a session with auto-reconnect enabled causes an alert dialog.	With the auto-reconnect feature enabled, users may see an alert dialog briefly on screen before the PCoIP session is reconnected. The message shown is Unable to connect (0x1001). Please contact your IT administrator. This message can be safely ignored.

Fixed issue

Previous issue	Fixed issue
Recovery image failed to start when manufacturer defined default keyboard was not a US keyboard.	Recovery image now correctly starts when manufacturer has set a default non-US keyboard
Zero clients might fail to authenticate with a View 6.2.2 connection server via a Citrix Netscaler load balancer when the load balancer was configured for SSL offloading mode. When the error occurred, the message 'View Connection Server communication error' was shown, or the zero client might reboot. Users had to configure the Netscaler load balancer to use SSL bridging instead of SSL offloading.	Connection issues no longer occur with View 6.2.2 and Citrix Netscaler
Logging off from a remote desktop connection to a Windows 2012 server could fail when connecting from within a VMWare Horizon View connection using a smart card authentication. Users had had to disconnect the button on the zero client.	Smart card no longer causes failure to log off from Remote Desktop Connection
UPN (user@domain) user name formats no longer passing the domain portion of the UPN to the View Connection Server in Horizon View connections is now resolved.As of firmware 5.4, Horizon connections will send the user@domain UPN as the user name to the VCS, and the selected domain from the dropdown as the domain.For PCoIP Connection Manager connection types, the user name sent to the broker will be the user portion of user@domain, and the domain sent will be the domain portion of user@domain.	Reverted UPN handling on password dialog for VMware Horizon View connections
The zero client firmware fails to respond to SLP discovery queries received more than five minutes after the zero client boots.	PCoIP zero client is now discoverable through SLP
When two displays attached to the zero client had no serial number in their Extended Display Identification Data (EDID) blocks, the zero client displayed no video.	Video now appears when two displays have no serial number
Some USB scanners failed to scan or bridge to the host.	USB scanners can now scan documents and pictures
The event log might become flooded with messages that began with RDMA2 :src_mac if a zero client operated in PoE (Power over Ethernet) mode or was configured to use 802.1x.	Event log for zero clients no longer flooded with messages