

# **Teradici PCoIP® Hardware Accelerator (APEX 2800) Driver Release Notes**

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Issue 17



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## Revision History

Version	Date	Description
Issue 17	November 17, 2014	Release 2.4.2 contains an updated ESXi 5.5 driver to support ESXi 5.5 Update 2.

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# 1 Preface

The Teradici PCoIP® Hardware Accelerator (APEX 2800) provides consistent user experience and delivers higher frames per second (FPS) to the remote end point by offloading PCoIP encoding tasks from the CPU. The PCoIP Hardware Accelerator is only supported on VMware Horizon View™ VDI back end systems.

Available as a standard PCIe expansion card for industry-standard servers, and as a mezzanine card for Dell and HP blade servers, the PCoIP Hardware Accelerator monitors the graphical demands of all displays and dynamically offloads the image encoding of up to the most demanding 100 displays.

As demands change, the PCoIP Hardware Accelerator seamlessly and automatically shifts between hardware encoding on the card and software encoding on the virtual desktop's vCPU(s), ensuring the best user experience at all times to all users.

The PCoIP Hardware Accelerator is the ideal complement to GPU implementation on VMware Horizon View™ (both vSGA and vDGA).

This document provides a summary of PCoIP Hardware Accelerator features for release 2.4.2. For a list of known issues, please log in to the [Teradici Support Center](#) and see [KB 15134-2385](#).

## 1.1 Audience

This document is intended for IT administrators who have deployed or plan to deploy the PCoIP Hardware Accelerator in a virtual desktop (VMware Horizon View™ VDI) environment.

## 1.2 Additional Resources

The following resources are also available:

- "Teradici PCoIP® Hardware Accelerator (APEX 2800) Administrator's Guide" (TER1109003)  
This guide is located in the **Server Solutions** section in the Teradici Support [Documentation Center](#).
- Teradici PCoIP Hardware Accelerator [installation video tutorial](#)
- [Teradici APEX 2800 Evaluation and Demo Guide](#)
- [APEX 2800 Dashboard for simple testing and evaluation of the PCoIP Hardware Accelerator](#)

## 2 PCoIP Hardware Accelerator Release 2.4.2

This maintenance release includes an updated ESXi 5.5 driver to support ESXi 5.5 Update 2.

Note: Only the ESXi 5.5 driver has changed in this release. Other ESXi drivers have no changes. The virtual machine driver also has no changes and does not require installation. Administrators need only ensure that they have version 2.4.1 of the virtual machine driver installed.

### 2.1 Drivers Package Contents

The PCoIP Hardware Accelerator drivers package includes the following software components:

- **ESXi driver:** apex2800-rel-2.4.2.39888-esxi-5.5.0.zip
- **VM driver:** apex2800-2.4.1-rel-38165.exe

### 2.2 Version

Version information for the ESXi driver can be checked using the command “pcoip-ctrl -I”, as shown in the following sample output:

```
APEX2800 Driver Information:
- SVN revision (39888), Built Nov 6 2014 : 11:13:55
- Display Manager is (ENABLED)
- Display Portrait Mode is (DISABLED)
- Maximum Resolution Supported: 1920 x 1200
- Number of displays supported: 64

APEX2800 Device Summary:
(1) APEX2800 device present
-- APEX2800 PCIe (Bus 4) (IN_SERVICE)
++ Serial Number (L11100000043)
++ Firmware SVN revision (39888), Built Nov 6 2014 : 11:11:01
++ CPU Temperature (41c), Ambient/Board Temperature (38c)
++ Device Util (2), Image Pipeline (5130) Kpps

Virtual Machine Summary:
-- (7) Virtual Machines Found
-- (1) PCoIP Sessions Found
-- (1) PCoIP Displays Offloaded
```

### 2.3 Compatibility

#### 2.3.1 Server Platform

The virtual server platform for the PCoIP Hardware Accelerator requires an available card slot for one of the following form factors:

- PCIe x4, half height, half length for the PCoIP Hardware Accelerator LP (supports PCIe Gen 2.0)
- PCoIP Hardware Accelerator MXM for HP blade servers
- Teradici PCoIP Hardware Accelerator by Amulet HotKey (DXM-A) for Dell "M" series blade servers

This release is compatible with all previous ESXi updates. It has been tested on the following platform:

- ESXi 5.5 Update 2 (build 2068190)

VMware Horizon View versions supported:

- VMware Horizon View 6.0.1
- VMware Horizon View 6.0.0
- VMware Horizon View 5.3
- VMware Horizon View 5.2
- VMware Horizon View 5.1
- VMware Horizon View 5.0

Virtual operating systems:

- Windows 7 32-bit/64-bit
- Windows Vista 32-bit/64-bit
- Windows XP

## 2.3.2 Client Platform

This release has been tested on the following client platforms:

- Tera2 PCoIP zero clients (firmware 4.6, 4.7)
- Tera1 PCoIP zero clients (firmware 4.6)
- VMware Horizon Clients 3.1
- Displays with a maximum resolution of 2560 x 1600

## 2.4 Known Issues

For details about known issues for release 2.4.2, please log in to the [Teradici Support Center](#) and see [KB 15134-2385](#).

## Glossary of Definitions

**ESX/ESXi**

VMware hypervisor (virtual machine manager)

**FPS**

Frames per second

**GPU**

Graphics Processing Unit

**MXM**

Mobile PCI Express Module

**OS**

Operating System

**PCIe**

Peripheral Component Interconnect Express

**PCoIP software**

Software implementation of the PCoIP protocol that is integrated into VMware View Agent/Client release 4.0 and later

**PCoIP zero client**

Desktop (client) side of PCoIP system; e.g., PCoIP zero client or PCoIP integrated display

**PCoIP<sup>®</sup>**

Personal Computer over Internet Protocol (PC-over-IP)

**PC-over-IP<sup>®</sup>**

Personal Computer over Internet Protocol

**vCPU**

Virtual CPU within a virtual machine

**vDGA**

Virtual Dedicated Graphics Acceleration

**VDI**

Virtual Desktop Infrastructure

**VIB**

VMware vSphere Installation Bundle

**VM**

Virtual Machine

**vSGA**

Virtual Shared Graphics Acceleration

**zero client**

See PCoIP zero client