

# PCoIP® Host Software Release Notes

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Issue 8



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## Revision History

Version	Date	Description
1	Apr 28, 2009	Initial Release
2	May 21, 2009	Updated for release 1.1.2 for Windows
3	Jun 15, 2009	Updated for release 1.2.4 for Windows
4	Nov 04, 2009	Updated for release 1.4.3 for Windows
5	Jan 08, 2010	Updated for release 1.4.3 for Linux
6	Mar 11, 2010	Updated for release 3.1.11 for Windows
7	Apr 16, 2010	Updated for release 1.4.4 for Linux
8	Aug 26, 2010	Updated for release 3.2.20 for Windows

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## Tables

Table 1-1: Host Software Compatibility

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## Definitions

CMI	Connection Management Interface – interface provided by the Zero Client or Host, used to communicate with an external connection management server
CMS	Connection Management Server (a.k.a Connection Broker)
OS	Operating System
OSD	On Screen Display. The configuration GUI is available on the Zero Client.
PCoIP	Personal Computer over Internet Protocol (PC-over-IP®)
PCoIP Host	Host side of PCoIP system
PCoIP Zero Client	User or client side of PCoIP system in the form of a standalone desktop device or integrated display based on a PCoIP processor
Software Client	VMware View™ software application that can establish a PCoIP session with a PCoIP Host
USB	Universal Serial Bus

## Preface

The PCoIP Host Software is a collection of drivers and applications that enable both Windows® and Linux operating systems (OS) to interact with the TERA1 PCoIP Host Processor installed in the host PC/Workstation and a PCoIP Zero Client connected to the Host. This document provides a brief summary of the feature additions and issues resolved in each PCoIP Host Software release starting with release 1.0.0.

Section 1 contains a compatibility matrix showing the firmware releases and host operating systems each Host Software release is compatible with. The subsequent sections in this document are organized according to release date with the most recent releases listed first.

**Note:** If using the PCoIP Host software for Windows refer to the Troubleshooting section of the PCoIP Host Software for Windows User Guide (TER1008001) document for a list of issues users should be aware of when installing and using the PCoIP Host Software.

**Note:** If using the PCoIP Host software for Linux refer to the Troubleshooting section of the PCoIP Host Software User Guide (TER0810001) document for a list of issues users should be aware of when installing and using the PCoIP Host Software.



# 1 Compatibility

PCoIP Host Software releases are not compatible with all TERA1 firmware releases and host operating systems. Table 1-1 lists each Host Software release and the compatible firmware releases and operating systems.

The compatible firmware release column lists the version(s) the Host Software will operate with. Administrators wishing to use all Host Software features should load the Host and Zero Client devices with a recommended firmware release. All Host Software features might not be supported by compatible firmware releases that are not recommended firmware releases. For example, support for the session disconnect feature was added to Host Software release 1.4.3. This feature required firmware changes that are included in firmware release 2.3. The session disconnect feature is not accessible on systems using Host Software release 1.4.3 for Windows and firmware releases 2.0, 2.1 or 2.2.

The compatible operating system column lists the host operating systems the Host Software has been tested with.

**Table 1-1: Host Software Compatibility**

Host Software Release	Recommended Firmware Releases	Compatible Firmware Releases	Compatible Operating Systems
Release 3.2.20 for Windows	3.2.0	All 3.2.x and 3.1.x releases	Windows® XP Windows Vista® Windows 7®
Release 3.1.11 for Windows	3.1.2	All 3.1.x releases	Windows® XP Windows Vista® Windows 7®
Release 1.4.4 for Linux	2.3	2.3	CentOS 5.3 (x86_64) CentOS 5.4 (x86_64)
Release 1.4.3 for Linux	2.3	2.3	CentOS 5.3 (x86_64) CentOS 5.4 (x86_64)
Release 1.4.3 for Windows	2.3	All 2.x releases (2.2, 2.1 and 2.0 provide limited functionality)	Windows® XP Windows Vista®
Release 1.2.4 for Windows	2.2, 2.3	All 2.x releases (2.1 and 2.0 provide limited functionality)	Windows XP Windows Vista
Release 1.1.2 for Windows	2.1, 2.2, 2.3	All 2.x releases (2.0 provides limited functionality)	Windows XP Windows Vista
Release 1.0.0 for Windows	All 2.x releases (currently 2.0-2.3)	All 2.x releases	Windows XP Windows Vista

## 2 Host Software Release 3.2.20 for Windows

This section provides a brief summary of the feature additions and issues resolved in release 3.2.20 for Windows versus release 3.1.11 for Windows.

### 2.1 Compatibility

Release 3.2.20 for Windows is compatible with TERA1x00 processors loaded with 3.2.x and 3.1.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 3.1.0 (3.0, all 2.x, 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a release below 3.1.0 and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

### 2.2 Feature Additions

Description
Added experimental support for writing the client display topology settings to the host OS. Refer to 2.5.2.
Added support to configure whether the client or the host OS performs keyboard repeat detection. Refer to 2.5.1.  The host OS performs keyboard repeat detection in previous host software releases. PCoIP sessions operated over long latency connections are susceptible to falsely reported key repeats when the host OS performs keyboard repeat detection. False keyboard repeats are eliminated when the client performs keyboard repeat detection.
Added experimental support for enabling the local cursor feature on rotated displays.  Added support for a new <i>Transparent</i> local cursor shape. When the <i>Transparent</i> local cursor shape is selected the mouse responsiveness is quicker than it is when the local cursor feature is disabled.  When the local cursor feature is disabled, USB messages are exchanged in both directions (client to host and host to client). The local cursor feature eliminates the messages flowing from the host to the client, which makes it more efficient over WAN connections.  Previous releases of the host SW support the local cursor feature by having the client display an overlay for the mouse position. However, some customers prefer a Transparent local cursor for certain applications that draw custom cursors.  Host software release 3.2.20 allows the user to select a transparent local cursor overlay, which allows the user to get the benefit of one way communication with only one cursor.

### 2.3 Important Bug Fixes

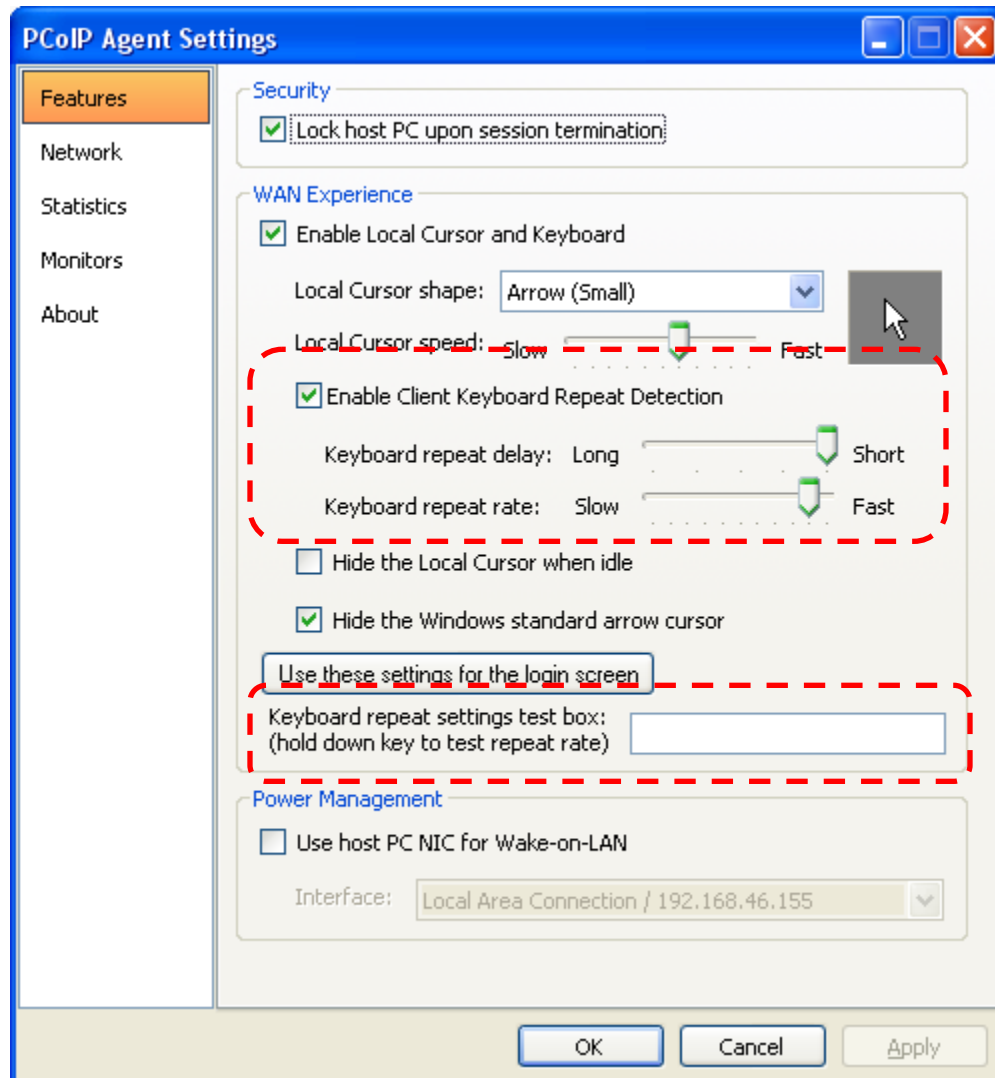
None

## 2.4 Known Issues

Description
This version of the PCoIP Host Software package is not Windows Logo tested. A future release will be tested and qualified by Microsoft®.
<p>A zero client will reset while connecting to a PCoIP Host Card when the following conditions are true:</p> <ul style="list-style-type: none"> <li>• host card is running firmware release 3.2.x</li> <li>• zero client is running firmware release 3.1.x</li> <li>• host software release 3.2.20 or higher is loaded on the PC/workstation</li> </ul> <p>To work around this ensure both the Host Card and Zero Client are running the same firmware (both 3.2.0 or both 3.1.2).</p>

## 2.5 Supplemental Information

### 2.5.1 PCoIP Agent Features Tab



## 2.5.2 PCoIP Agent Monitors Tab

**PCoIP Agent Settings**

Features  
Network  
Statistics  
**Monitors**  
About

**Monitor (Display Topology) Settings**

**Agent Configuration Settings**

☒ Use client topology settings when a session is established

**Client Display Topology Settings**

**DVI-1**

Display Resolution	1280 x 1024
Display Position	(0, 0)
Display Refresh Rate	60 Hz
Display Rotation	no rotation
Monitor Name	VA730m
Monitor Serial Number	QD4064520703

**Host Display Topology Settings**

**Display 0**

Display Resolution	1280 x 1024
Display Position	(0, 0)
Display Refresh Rate	60 Hz
Display Rotation	no rotation
Monitor Name	VA730m
Monitor Serial Number	QD4064520703

Write these settings to the client      Refresh

OK      Cancel      Apply

## 3 Host Software Release 1.4.4 for Linux

This section provides a brief summary of the feature additions and issues resolved in release 1.4.4 for Linux versus release 1.4.3 for Linux.

**Note:** release 1.4.4 is functionally identical to release 1.4.3 (see section 5). Release 1.4.4 was created for users requiring a source code release rather than a binary release. The source code release is required when using a Linux distribution other than the distributions listed in Table 1-1. Users wishing to run the software on an unsupported Linux distribution can try to build the software themselves. Teradici strongly recommends that customers use binary releases rather than the source code releases. This allows customers to take advantage of the testing done by Teradici. It also minimizes the effort a customer must undergo when migrating to future software releases. Customers that modify the host software are responsible for testing and maintaining the build. They must also port all changes they make to the host software to future releases of the host software.

### 3.1 Compatibility

Release 1.4.4 for Linux is compatible with TERA1x00 processors loaded with 2.x firmware releases greater than or equal to 2.3. It is not compatible with TERA1x00 processors loaded with releases below 2.3 (2.2, 2.1, 2.0, and all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with an incompatible firmware release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

### 3.2 Feature Additions

Description
Created a source code release package.

### 3.3 Important Bug Fixes

None

### 3.4 Known Issues

None

## 4 Host Software Release 3.1.11 for Windows

This section provides a brief summary of the feature additions and issues resolved in release 3.1.11 for Windows versus release 1.4.3 for Windows.

### 4.1 Compatibility

Release 3.1.11 for Windows is compatible with TERA1x00 processors loaded with 3.1.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 3.1.0 (3.0, all 2.x, 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a non 3.1.x release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

### 4.2 Feature Additions

Description
Added support for using VMware View 4 to broker sessions on host machines running 32-bit versions of Windows. Refer to TER0911004 Using PCoIP Host Cards with VMware View 4 for additional information on configuring a system to operate in this mode.

### 4.3 Important Bug Fixes

None

### 4.4 Known Issues

Description
This version of the PCoIP Host Software package is not Windows Logo tested. A future release will be tested and qualified by Microsoft®.

## 5 Host Software Release 1.4.3 for Linux

This section provides a brief summary of the known problems present in release 1.4.3 for Linux.

### 5.1 Compatibility

Release 1.4.3 for Linux is the first version of the PCoIP Host Software for Linux. This version is compatible with TERA1x00 processors loaded with 2.x firmware releases greater than or equal to 2.3. It is not compatible with TERA1x00 processors loaded with releases below 2.3 (2.2, 2.1, 2.0, and all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with an incompatible firmware release and the Host PC has installed and enabled the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software for Linux.



## 6 Host Software Release 1.4.3 for Windows

This section provides a brief summary of the feature additions and issues resolved in release 1.4.3 for Windows versus release 1.2.4 for Windows.

### 6.1 Compatibility

Release 1.4.3 for Windows is compatible with TERA1x00 processors loaded with 2.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 2.0 (all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a non 2.x release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

**Note:** this release is compatible with all 2.x firmware releases. The disconnect feature that was added to this release requires the PCoIP Host to be loaded with firmware release 2.3 or greater.

### 6.2 Feature Additions

Description
Added support for disconnecting the current active PCoIP session. This operation can be initiated from the right-click menu of the system tray icon. Refer to 6.5.1. The session disconnect can also be initiated by calling the pcoip_agent.exe executable with the "-disconnect" command-line argument.

### 6.3 Important Bug Fixes

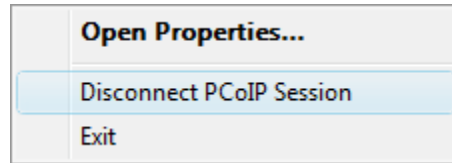
None

### 6.4 Known Issues

Description
This version of the PCoIP Host Software package is not Windows Logo tested. A future release will be tested and qualified by Microsoft®.
Occasionally the mouse may not work after enabling the local cursor feature on a Zero Client with a wireless keyboard/mouse.  To work around this, disconnect and reconnect the USB wireless keyboard/mouse transceiver connected to the Zero Client or disconnect and reestablish the PCoIP session.

## 6.5 Supplemental Information

### 6.5.1 PCoIP Host Software System Tray Right Click Menu



## 7 Host Software Release 1.2.4 for Windows

This section provides a brief summary of the feature additions and issues resolved in release 1.2.4 for Windows versus release 1.1.2 for Windows.

### 7.1 Compatibility

Release 1.2.4 for Windows is compatible with TERA1x00 processors loaded with 2.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 2.0 (all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a non 2.x release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

**Note:** this release is compatible with all 2.x firmware releases. Some features that were added to this release require the PCoIP Host to be loaded with firmware release 2.2 or greater.

### 7.2 Feature Additions

Description
Enhanced the installer so that it removes the old version of PCoIP Host Software if one is installed. Previous versions of the installer prompted the user to uninstall the old PCoIP Host Software using the Windows Control Panel Add/Remove Programs feature.
Added support to hide the Windows standard arrow cursor. Refer to 7.5.1. When this feature is enabled the standard Windows cursor is hidden. <b>Note:</b> This feature does not hide other cursors such as the hourglass, resize, move, etc., which allow users to receive feedback on context sensitive actions.
Enhanced the PCoIP Agent Network tab to report link status of the PCoIP network interface and removed the Zero Client network settings. Refer to 7.5.2. <b>Note:</b> this feature is only available on PCoIP Hosts loaded with firmware release 2.2 or greater.
Added support to report the PCoIP Host Card session statistics on the new Session tab in the PCoIP Agent. Refer to 7.5.3. <b>Note:</b> this feature is only available on PCoIP Hosts loaded with firmware release 2.2 or greater.
Modified some tooltip debug messages to improve the end users ability to determine why certain features of the PCoIP Host Software are not available.

### 7.3 Important Bug Fixes

Description
Fixed a problem where the installer sometimes failed to restore the system to the original state when the user cancelled installing the PCoIP Host Software partially

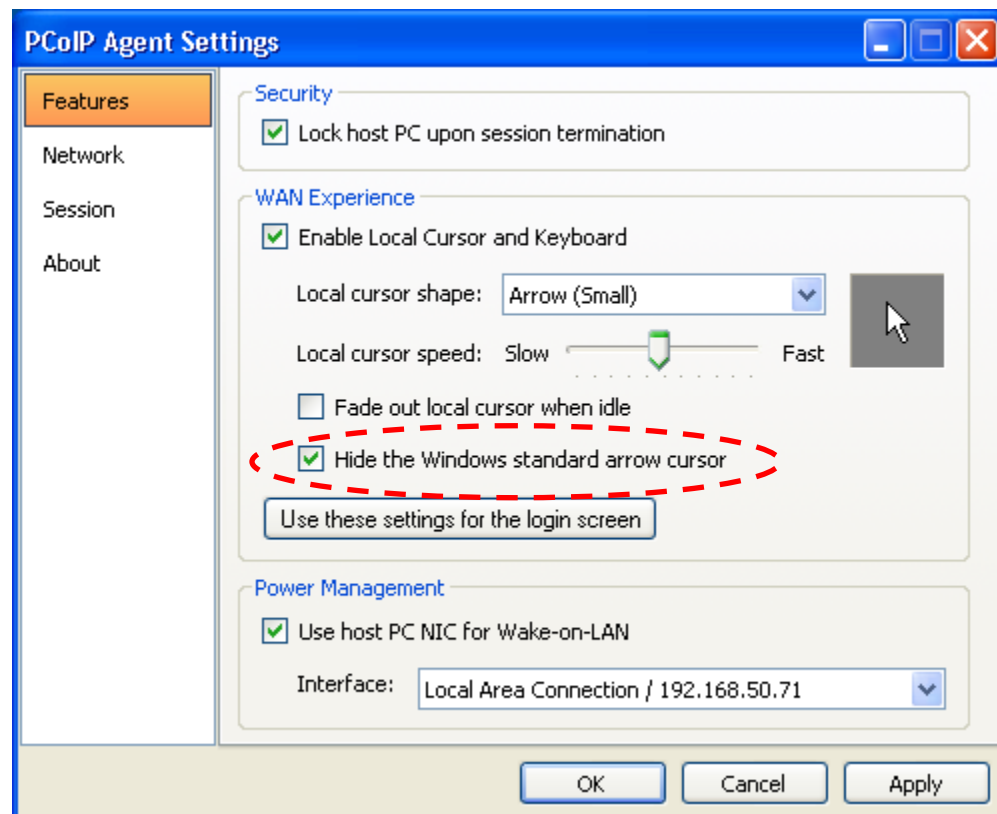
through the installation process.

## 7.4 Known Issues

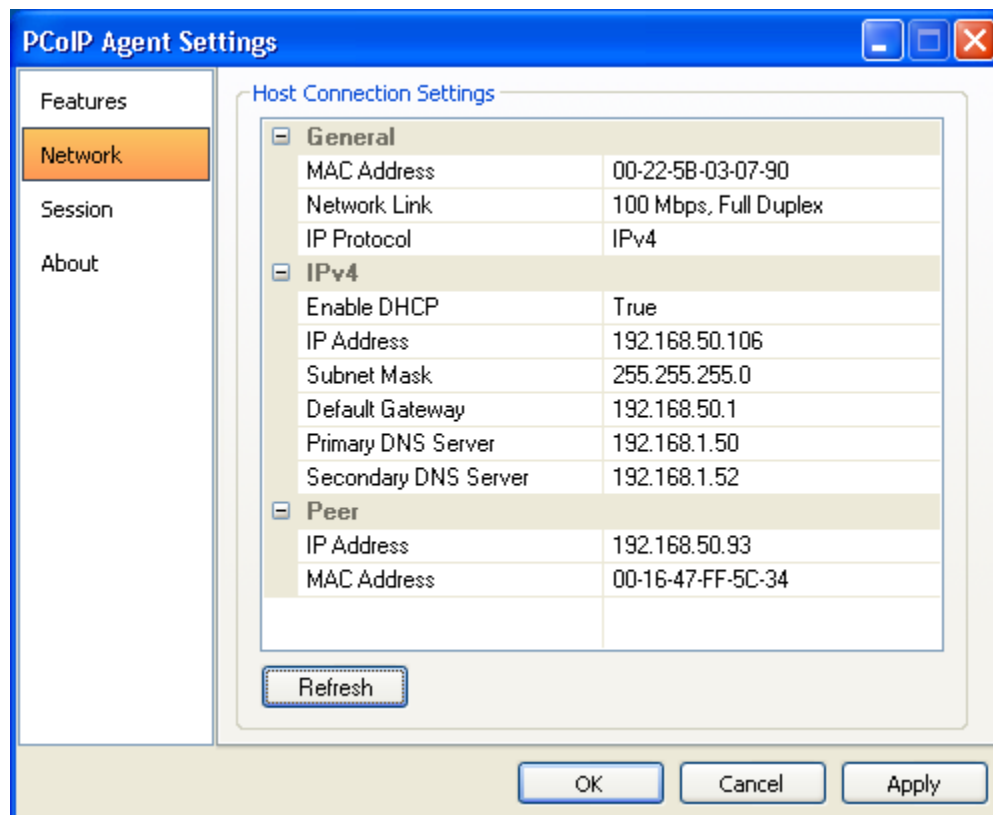
See section 6.4

## 7.5 Supplemental Information

### 7.5.1 PCoIP Agent Features Tab



## 7.5.2 PCoIP Agent Network Tab



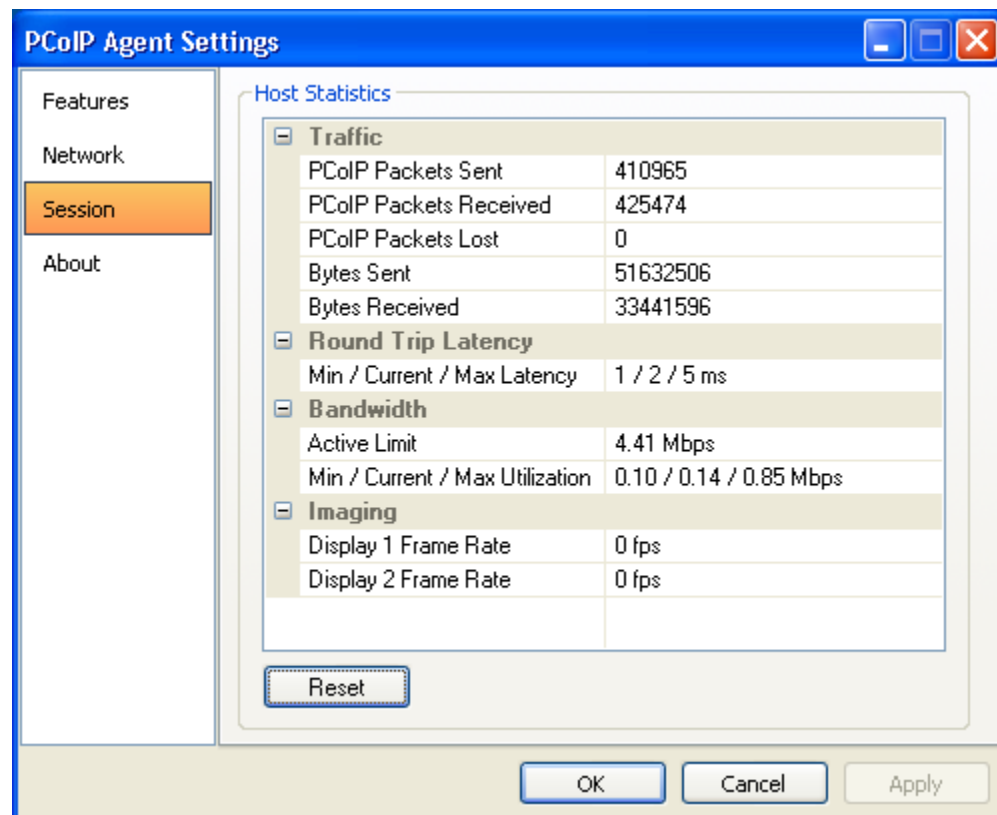
The image shows the 'PCoIP Agent Settings' dialog box with the 'Network' tab selected. The 'Host Connection Settings' section is expanded, showing three sub-sections: General, IPv4, and Peer. The General section contains MAC Address, Network Link, and IP Protocol. The IPv4 section contains Enable DHCP, IP Address, Subnet Mask, Default Gateway, Primary DNS Server, and Secondary DNS Server. The Peer section contains IP Address and MAC Address. A 'Refresh' button is located below the Peer section. At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

Host Connection Settings	
<b>General</b>	
MAC Address	00-22-5B-03-07-90
Network Link	100 Mbps, Full Duplex
IP Protocol	IPv4
<b>IPv4</b>	
Enable DHCP	True
IP Address	192.168.50.106
Subnet Mask	255.255.255.0
Default Gateway	192.168.50.1
Primary DNS Server	192.168.1.50
Secondary DNS Server	192.168.1.52
<b>Peer</b>	
IP Address	192.168.50.93
MAC Address	00-16-47-FF-5C-34

Refresh

OK Cancel Apply

### 7.5.3 PCoIP Agent Session Tab



## 8 Host Software Release 1.1.2 for Windows

This section provides a brief summary of the feature additions and issues resolved in release 1.1.2 for Windows versus release 1.0.0 for Windows.

### 8.1 Compatibility

Release 1.1.2 for Windows is compatible with TERA1x00 processors loaded with 2.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 2.0 (all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a non 2.x release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

### 8.2 Feature Additions

Description
Added support that allows an application running on the host PC to retrieve the MAC address of the PCoIP Host card or cards. This interface is used by connection brokers.

### 8.3 Important Bug Fixes

Description
Fixed a problem where the local cursor and keyboard feature was disabled (the checkbox was grayed out) after the host PC power state changed from the hibernate state (S4) to the powered on state (S0).

### 8.4 Known Issues

See section 6.4

## 9 Host Software Release 1.0.0 for Windows

This section provides a brief summary of the known problems present in release 1.0.0 for Windows.

### 9.1 Compatibility

Release 1.0.0 for Windows is the first official version of the PCoIP Host Software. This version is compatible with TERA1x00 processors loaded with 2.x firmware releases. It is not compatible with TERA1x00 processors loaded with releases below 2.0 (all 1.x and 0.x releases). If a TERA1x00 Host Card is loaded with a non 2.x release and the Host PC has installed the PCoIP Host Software users will not be able to access the features supported by the PCoIP Host Software, but there will be no negative side effects that interfere with the operation of the Host PC.

### 9.2 Known Issues

See section 6.4