## Dell Wyse 7030 PCoiP Zero Client

User's Guide



#### Notes, cautions, and warnings

- () NOTE: A NOTE indicates important information that helps you make better use of your product.
- △ CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.
- Marning: A WARNING indicates a potential for property damage, personal injury, or death.

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(DELL)

## **Initial Environment Setup**

The Wyse 7030 is a workstation-class zero client for use with PC-over- IP (PCoIP) protocol environments. The zero client connects to a host server which is PCoIP capable.

Before setting up and using the zero client, you must have a properly installed PCoIP environment that it can access. This guide will help you to set up the zero client and establish a remote connection to your host server using PCoIP technology, enabling you to use applications and desktop peripherals as if you were using them locally.

() NOTE: PCoIP technology is designed to deliver a user desktop from a centralized host server across standard IP networks - including full DisplayPort or DVI-D quad monitor video, complete USB 2.0 compatibility, and full-duplex high-definition audio.

# Setting Up Your Zero Client

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Be sure you have read all safety guidelines before setting up and operating this product. Refer to the figures and proceed as follows:

- 1 Place the zero client on a desk, make sure the monitor and the zero client are turned off and disconnected from AC power.
- 2 Make all desired connections. The monitor, keyboard with mouse, and Ethernet network are required. Additional connections of peripheral devices may be made to the other ports.
- 3 Connect the power adapter to the zero client power input before connecting to a 100-240V AC, 50-60 Hz electrical outlet. When AC power is applied, indicator light is amber.
- 4 Press zero client Power Button to apply power. The power button will light green; wait for the monitor to display the On Screen Display (OSD).

Zero client LED indicators include:

- **Off**: AC power is off.
- Amber: AC power is on and zero client power is off.
- Green: Zero client power is on.
- Blinking green: Host server is in low-power state.

(i) NOTE: If the monitor does not show the OSD, check all connectors and make sure the monitor and zero client are turned on.

## **Establishing a PCoIP Connection**

- 1 Turn on the zero client. Wait until the Connect command button on the zero client user screen is active for use (no longer grayed out=active).
- 2 Using the mouse connected to the zero client, click Connect. The message "Discovering hosts, please wait ..." will appear. After host discovery is complete, a list of available hosts on the network will appear.
  - (1) NOTE: If the Connect command button on the zero client user screen is inactive (grayed out=inactive) or if the zero client cannot discover host servers on the network, check the network connection and be sure the Ethernet switch or router is turned on.
- 3 Select the host to which you want to connect and click OK. After a successful PCoIP connection, the PCoIP LED of the zero client will light green. You are now connected.

## **Additional Information**

- Audio: The zero client uses the Realtek High-Definition Audio Codec. Windows Vista natively contains an HD Audio driver for this Codec. For other operating systems, including Windows XP, install the High- Definition Audio Codec driver from www.realtek.com to use the full audio capabilities of PCoIP.
- **IP Address**: The zero client is set to DHCP client mode by default. Normally, the IP address of the zero client and host server are assigned by the DHCP server on your IP network. If your IP network does not have a DHCP server, the zero client and host server will fall back to a static IP address mode after a time-out period of approximately 2 minutes. In the fall back static IP address mode, you can access the zero client to disable DHCP client mode and assign a static IP address. The zero client fall back IP address is **192.168.1.50**.
- **Power Buttons**: The Zero Client Power Button is a multi-function button.
  - · Press the button: Turns on the zero client.
  - Press and hold the button until light turns to amber: Turns off the zero client.
  - Press the button when zero client is connected in a session: Disconnects zero client from the host server. The Remote Host Control
    Power Button is used to remotely control the host PC/workstation's power management. It can be used to remotely power up and
    down the host PC. To enable this function, the PCoIP Host Card Power Button Cable must be connected on the host.
  - Press the button (< 4 seconds): The host server goes into, or wakes out of, a sleep state.
  - Press and hold the button (> 4 seconds): Turns on, or turns off, the host server.
- **Configure**: The zero client can be configured to use DHCP or Static IP addressing. To change the settings, in the On Screen Display go to **Options** | **Configuration** | **Network** tab. You may need to unlock the settings page with a password (default password is **Administrator**).

## Video resolution

- 1 How to set the custom resolution for PCoIP zero clients.
- 2 Monitor resolutions and refresh rates applied to the PCoIP zero clients and host cards.
- 3 Display connectors with PCoIP enabled devices.

#### Topics:

- How to set a custom resolution for PCoIP zero clients
- · Display connectors with PCoIP enabled device.
- · Monitor resolutions and refresh rates supported in the PCoIP zero clients and host cards

## How to set a custom resolution for PCoIP zero clients

PCoIP zero clients allows you to set a custom resolution on the client, which is saved even when the thin client is turned off. This lets you to set a resolution that is different than the attached display's native resolution. The following are the steps to set the display resolution in Windows from the zero client's **On-Screen Display (OSD)**.

- 1 Connect to the **OSD**.
- 2 Select Options, and then select User Settings.
- 3 Click **Display Topology**, and then **enable configuration**.
- 4 Select the display resolution you want from the list of supported resolution values.

#### () NOTE:

- Zero clients with firmware 3.0 to 3.1.x inherit the native resolution of the attached monitor.
- In View environments, this capability requires a connection to a VMware View 4.5 or newer virtual desktop. Also, make sure the VMware View has enough video RAM set to support high resolutions.

## Display connectors with PCoIP enabled device.

The following information describes the various display connectors (ports) and how they are used with a focus on achieving resolutions of 2560x1600.

Depending on the PCoIP device, you can have multiple display connectors that have different uses, such as:

- 1 **DVI-A (analog video only)**: This can be used for analog displays using a **DVI-VGA** adapter cable.
- 2 **DVI-I (integrated digital and analog video)**: This can be used for digital displays with DVI cables or analog displays with a DVI-VGA adapter cable.
- 3 **DVI-D (digital video only)**: This can be used for digital displays with DVI cables.
- 4 DisplayPort (DP): This can be used for DisplayPort displays with a DisplayPort cable or DVI displays if a DP-DVI adapter cable is used. Individual Display Port links can support dual-link data rates when operating in DisplayPort mode supporting resolutions of 2560x1600. They can also provide single-link data rates when operating in DisplayPort++/DVI mode

#### 5 MiniDisplayPort (mDP):

This can be used for Mini DisplayPort displays with a mDP cable or a mDP-DP cable or DVI displays if a mDP-DVI adapter cable is used.

Mini DisplayPort links can support dual-link data rates and 2560x1600 resolutions.

- 6 Single-link DVI (SL-DVI): The DVI specification allows a maximum pixel clock of 165 MHz to be used on a single-link DVI video signal. The highest 60Hz-refresh VESA resolution supported by single-link connections is 1920x1200.
- 7 Dual-link DVI (DL-DVI):

#### (i) NOTE: These dual-link connectors can support either single-link data rates or dual-link data rates.

Dual-link DVI doubles the number of data pairs, which allows resolutions requiring an effective pixel clock of up to 330Hz to be supported. The highest 60Hz refresh VESA resolution supported by dual-link DVI connections is 2560x1600.

#### () NOTE:

- PCoIP zero clients only supply single-link data rates through each DVI connector.
- Dual-link connectors are provided to allow for all digital DVI cable types to be used.
- Single-link DVI cables can be plugged into dual-link DVI connectors and will pass single link data rates, provided analog pin compatibility is maintained.
- Dual-link DVI cables require dual-link DVI connectors and can NOT be plugged into single-link DVI connectors. Analog pin
  compatibility is also required.
- To achieve 2560x1600@60Hz resolutions on a dual-link DVI capable monitor via a PCoIP zero client, you must use an adapter cable to combine two single-link DVI data outputs into a single dual-link DVI connection.

# Monitor resolutions and refresh rates supported in the PCoIP zero clients and host cards

In general, PCoIP zero clients and Remote Workstation cards should work with standard display resolutions supported by **Video Electronics Standards Association (VESA)**.

The following are the list of tested monitor resolutions supported (display timing), all at 60 Hz display refresh rate.

- 1 Single-link rate:
  - 640 x 480
  - 800 x 600
  - · 848 x 480
  - 1024 x 768
  - · 1280 x 720
  - · 1280 x 768
  - · 1280 x 800
  - 1280 x 960
  - · 1280 x 1024
  - · 1360 x 768
  - · 1366 x 768
  - · 1400 x 1050
  - · 1440 x 900
  - · 1600 x 900
  - 1600 x 1200
  - 1680 x 1050
  - 1920 x 1080
  - 1920 x 1200
  - 2048 x 1152
- 2 Dual-link rate:
  - · 1792 x 1344
  - 1856 x 1392

- · 1856 x 1392
- · 2560 x 1600

## Safety guidelines

Improper connection, mounting, or use of this product could result in component failure or undesired interference. Read the following guidelines before setting up and operating your device.

#### · Setup:

- Do not connect to AC power until all other connections (including the power adapter) are made. Connecting or disconnecting components or equipment on the back panel when the device is receiving AC power can cause power surges and damage the device.
- Do not force a connector into its socket. If any undue resistance is encountered, ensure that the connector is correctly oriented to the receptacle.

#### Venting and Care:

- Mount the device only as shown or in accordance with the instructions provided with Wyse-approved mounting accessory kits. Improper orientation could restrict the airflow of heat from the device and damage it.
- Allow sufficient space around the device for ventilation; do not place the device in any enclosure that restricts airflow around the device; do not place any objects on the device or block the vent outlets. For environmental operating specifications, locate your product and download the Fact Sheet using the Cloud clients tab at, www.wyse.com/products

#### Power Sources:

• To ensure regulatory compliance, use only the power adapter that comes with your device or a Wyse-approved equivalent. For proper replacement compare the labels on both device and power adapter to ensure that their voltages match.

### WARNING: Use of any other power adapter may damage your device or the power adapter. The damage caused by an improper power adapter is not covered by warranty.

- When turning off the device, make sure to perform a complete shutdown (via the power button). Do not disconnect the AC power cord, DC power cord, or shut off power at a circuit breaker (including power strips), etc., to turn off the device.
- Surge protectors for electrical devices are recommended in areas of lightning. However, when lightning is occurring, your equipment should be properly shut down and unplugged from AC power until the storm has passed.

# Important Information

Wyse Reference Guides- User, Administrator, and related documentation is available at. www.wyse.com/manuals

Wyse Service and Support - Upgrade software images for installation are available at, www.wyse.com/downloads

Wyse Device Manager - Information about Wyse remote management software is available at, www.wyse.com/products/software/ management/WDM

**Wyse and the Environment** - Information about Wyse compliance with RoHS and with the Waste Electrical and Electronic Equipment (WEEE) is available at, www.wyse.com/green

Wyse and E-Recycling - Information about recycling unwanted Wyse product within the United States is available at, www.wyse.com/ erecycling

Wyse Warranty Registration - Register your product at, www.wyse.com/registration