Administrators Guide

Wyse® Enhanced SUSE Linux Enterprise Release 11 SP1 Products: C50LE, R50L, R50LE, X50c, X50L

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For availability, pricing, and ordering information in the United States and Canada, call 1-800-GET-WYSE (1-800-438-9973) or visit us at <u>http://www.wyse.com</u>. In all other countries, contact your sales representative.

FCC Statement

This equipment has been tested and found to comply with the limits for either Class A or Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Caution

Modifications made to the product, unless expressly approved by Wyse Technology, could void the user's authority to operate the equipment.

Regulatory Compliance for Thin Clients

Basic EMC and Safety Requirements

Wyse appliances are compliant with the regulatory requirements in the regions listed below.

U.S.A.-FCC Part 15 (class B), cUL 60950

Canada—IC ICES-003, CAN/CSA-C22 No. 60950

Europe-EN 55022 (class B); EN 55024

Canadian DOC Notices

Class A - This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Réglement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Class B - This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Wireless Usage and Requirements

Radio transmitting type devices (RF module) are present in models with the wireless option. These devices operate in the 2.4 GHz band (i.e. 802.11B/G LAN & Bluetooth).

As a general guideline, a separation of 20 cm (8 inches) between the wireless device and the body, for use of a wireless device near the body (this does not include extremities) is typical. This device should be used more than 20 cm (8 inches) from the body when wireless devices are on and transmitting.

Some circumstances require restrictions on wireless devices. Examples of common restrictions include:

- When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.
- Every country has different restrictions on the use of wireless devices. Since your system is equipped with a
 wireless device, when traveling between countries with your system, check with the local Radio Approval
 authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination
 country.
- Wireless devices are not user-serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Please contact the manufacturer for service.

Device Power Supply

Use only the external power supply that comes with your thin client. For power and voltage ratings, see the serial number label or regulatory label on your device. For power adapter replacement, contact your Wyse Service Representative. For proper replacement compare the labels on both mobile thin client and power adapter to ensure that their voltages match.



Use of any other power adapter may damage your mobile thin client or the power adapter. The damage caused by an improper power adapter is not covered by warranty.

Battery Information

Models Cx0, Rx0L, Rx0LE, Xx0C, and Xx0L contain an internal button cell battery replaceable by Wyse or one of our Authorized Service Centers. For service, visit <u>http://www.wyse.com/serviceandsupport/service/service.asp</u>.

🖖 Warning

There is a risk of explosion if the battery is replaced by an incorrect type. Always dispose of used batteries according to the instructions accompanying the battery.

Perchlorate Materials - Special Handling May Be Required under California Code of Regulations, title 22. (Only required within the U.S.A.)

Models Xn0L and Xx0C mobile thin clients contain a user-replaceable battery pack. The battery is designed to work with your Wyse mobile thin client. Do not use a battery from other mobile thin clients or laptop computers with your mobile thin client. Replace the battery only with a compatible battery purchased from Wyse's spare parts provider or one of our authorized service centers. For spare parts visit http://www.wyse.com/serviceandsupport/service/spares.asp.

\rm Marning

There is a risk of explosion if the battery pack is replaced by an incorrect type. For Model Xn0L, always dispose of used batteries according to the instructions accompanying the battery. For Model Xx0C, always dispose of used batteries according to local ordinance and/or regulation.

Caution

Misuse of the battery pack may increase the risk of fire of chemical burn. Do not puncture, incinerate, disassemble, or expose the battery to temperatures above 65°C (149°F). Keep the battery away from children. Handle damaged or leaking batteries with extreme care. Damaged batteries may leak and cause personal injury or equipment damage.

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Introduction

Wyse[®] Enhanced SUSE Linux Enterprise (SLE) combines the security, flexibility, and market-leading usability of SUSE Linux Enterprise from Novell[®] with Wyse's thin computing optimizations in management and user experience. It is ideal for organizations that want to run server-based, Web-based, or local applications (including legacy applications) without the deployment and security concerns of a non-standard Linux distribution.

Wyse Enhanced SLE comes pre-installed with the software needed for most thin computing deployments, including an ICA client, RDP client, Firefox Web browser, and the PowerTerm[®] Terminal Emulation client. You can extend this base functionality through easy-to-install add-ons qualified and available through Wyse (such as ThinPrint support) or other packages that have been qualified for Novell SUSE Linux Enterprise Thin Client. As with all Wyse platforms, Wyse Enhanced SLE has built in support for Wyse Device Manager (WDM) software, Wyse[®] TCX Suite[™], and Wyse[®] Virtual Desktop Accelerator.

About this Guide

This guide is intended for administrators of Wyse thin clients running Wyse Enhanced SUSE Linux Enterprise (SLE). It provides information and detailed system configurations to help you design and manage a Wyse Enhanced SLE environment.

Finding the Information You Need in this Guide

You can use either the Search window or Find toolbar to locate a word, series of words, or partial word in an active PDF document. For detailed information on using these features, refer to the Help in your PDF reader.

Wyse Technical Support

To access Wyse technical resources, visit <u>http://www.wyse.com/support</u>. If you still have questions, you can submit your questions using the <u>Wyse Self-Service Center</u> (on the Wyse.com home page, go to **Support > Knowledge Base > Home** tab) or call Customer Support at 1-800-800-WYSE (toll free in U.S. and Canada). Hours of operation are from 6:00 A.M. to 5:00 P.M. Pacific Time, Monday through Friday.

To access international support, visit <u>http://www.wyse.com/global</u>.

Related Documentation and Services

Fact Sheets containing the features of hardware products are available on the Wyse Web site. Go to <u>http://www.wyse.com/products/hardware</u>, click the link for your hardware product, and then click the link for the Fact Sheet.

Reference Guide: Wyse [®] *Enhanced SUSE Linux Enterprise INI Files* is intended for administrators of Wyse thin clients running Wyse Enhanced SUSE Linux Enterprise (SLE). It provides the detailed information you need to help you understand and use the Wyse Enhanced SLE INI files. It contains information on the different Wyse Enhanced SLE INI files you can use and the rules for constructing the files. It also provides the parameter details you need (with working examples) to get the most out of your Wyse Enhanced SLE INI files. In addition, this guide also includes an appendix that contains all of the supported connect options you can use for supported connections. It is available at: <u>http://www.wyse.com/manuals</u>.

Wyse Thin Computing Software is available on the Wyse Web site at: <u>http://www.wyse.com/products/software</u>.

Wyse Online Community

Wyse maintains an online community where users of our products can seek and exchange information on user forums. Visit the Wyse Online Community forums at: <u>http://community.wyse.com/forum</u>.

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Getting Started

This chapter provides information to help you quickly get started using your thin client. It describes basic thin client functions and provides instructions on setting up the thin client for you and your users.

It includes:

- "Product Registration"
- "Logging In"
- "Using Your Desktop"
- "Using the Computer Menu"
- "Setting Up Thin Clients and Connections"
- "Connecting to Network and Session Services"
- "Connecting to a Printer"
- "Connecting to an External Monitor"
- "Shutting Down, Restarting, and Suspending"
- "Restoring Default Settings"
- "Enhancing Your Experience with Wyse Software"

Product Registration

After product purchase, you will receive an e-mail from Wyse containing instructions on registering your product.

Logging In

After your thin client starts, you can log in to your desktop using the default user name **admin**, and the default password **admin**. It is highly recommended that you change the default password by using the *Change Password* icon in the *Control Center* (see "Changing Passwords").

Using Your Desktop

The desktop provides various applications and tools for use.



Use the following guidelines:

- **Computer button** Allows you to open and use the *Computer* menu (see "Using the Computer Menu").
- **Power icon** Move the pointer over this icon to see a pop-up message that shows you whether your mobile thin client is running on AC power or battery power. The message also shows you (by percentage) your battery charge.
- Network Manager icon Allows you to manage your network connections (see "Connecting to Network and Session Services").
- System Information icon Allows you to open and use the System Information dialog box. Use this dialog box to view system information about the thin client (see "Viewing System Information").
- **Display Settings icon** Allows you to set the monitor display settings (see "Configuring Display Settings").
- Volume icon Allows you to control the audio volume (see "Configuring Volume Control Settings").
- **Calendar** Lists the day of the week, date, and time. You can click the calendar to open a calendar window and reset the date.

Desktop Keyboard Shortcuts

Depending on the type of application window you are using (full screen, standard, or seamless), you can use shortcut keys (see Table 1) to manage windows.

Window Action	Press
Maximize window	Alt+F10
Minimize window	Alt+F9
Restore maximized window to previous size	Alt+F5
Move focus to next window	Alt+Esc
Move focus to previous window	Alt+Shift+Esc
Switch windows using a dialog box.	Alt+DownArrow
Switch panel focus	Alt+Ctrl+Shift+DownArrow
Show the window menu	Alt+Space (you can also right-click the window title bar or border, or click the window icon)
Minimize/maximize all windows	Alt+Ctrl+DownArrow
Move window with arrow keys	Alt+F7 and press an arrow key
Resize window	Alt+F8 and press an arrow key
Show desktop panel	Alt+F1
Close the window	Alt+F4

Table 1 Window-related Shortcut Keys

🗹 Тір

The shortcut keys Alt+DownArrow (allows you to switch windows using a dialog box) and Alt+Ctrl+DownArrow (minimizes or maximizes all windows) are useful for navigating multiple remote sessions without having to log out.

Using the Computer Menu

Click the **Computer** button on the left side of the desktop panel to open the *Computer* menu. This menu provides quick access to frequently used programs and common system areas.

🗹 Tip

You can right-click an icon in the *Control Center* to add the application to your *Favorite Applications* area.

avorite Applications		M Control Center
Connection Manager	Firefox Web Browser	阿 Lock Screen 약 Logout
	More Applications.	Shutdown

Use the following guidelines:

- Connection Manager Opens the Connection Manager. Use the Connection Manager to view, use, and locally configure connections on the thin client as described in "Using and Configuring Connections with the Connection Manager."
- Firefox Opens the Firefox Web Browser.
- More Applications Opens the Application Browser. Use the Application Browser to use and manage applications on the thin client. For more information, see "Accessing Applications with the Application Browser."
- Control Center Opens the Control Center. Use the Control Center to configure the hardware, look and feel, and system settings of your thin client as described in "Setting Up the Thin Client Using the Control Center."
- Lock Screen Locks your desktop screen (desktop displays blank after you click the icon). To restore your screen, move the mouse, enter your credentials, and then click Unlock.
- Logout Opens the Log Out dialog box (click Log Out to end your session but continue to run the thin client).
- Shutdown Opens the Shutdown dialog box (where you can shut down your thin client, restart your thin client, or put your thin client in Standby mode - see "Shutting Down, Restarting, and Suspending").

Setting Up Thin Clients and Connections

While Wyse Enhanced SLE INI Files can be used to set up the thin clients in your environment and configure the connections available to users (as described in "Automating Thin Client Configurations and Updates" and *Reference Guide: Wyse* [®] *Enhanced SUSE Linux Enterprise INI Files*), you can use the:

- Control Center to locally set up your thin client hardware, look and feel, and system settings (as described in "Setting Up the Thin Client Using the Control Center").
- Connection Manager to locally configure connections for use (as described in "Using and Configuring Connections with the Connection Manager").

Connecting to Network and Session Services

The *Network Manager* icon, located on the right side of the desktop panel, displays information about your network connection. Move the pointer over the *Network Manager* icon to view a pop-up message displaying the name of the network to which your thin client is connected. If a red X appears on this icon, your thin client is not connected to the network. Connect your thin client to the wired network by attaching the network cable to your thin client (the *Connection Established* message appears).

For wireless connections (802.11b/g/n Wireless LAN), you can hover over the *Wireless Network Connection* icon in the taskbar to see if a wireless network connection is available, and then double-click the *Wireless Network Connection* icon to open and use the **Wireless Networks** menu.

🗹 Tip

For information on importing certificates that your network may require, refer to "Importing Certificates."

Connecting to a Printer

To connect a parallel printer to your thin client through a USB port, you will need a USB-to-printer adapter cable (not included). Before use, you may need to install the driver for the printer by following the printer driver installation instructions. For information on connecting to printers, refer to "Setting Up and Managing Printers."

Connecting to an External Monitor

Thin clients have a VGA (analog) monitor port (supported mobile thin clients also have a DVI port) for connecting your thin client to an external monitor. For information on connecting to external monitors, refer to "Configuring Display Settings."

Shutting Down, Restarting, and Suspending

After using your thin client, you can click **Computer > Shutdown** to open and use the **Shutdown** dialog box to:

- Shutdown Shuts down and turns off your thin client.
- Restart Shuts down and restarts your thin client.
- Suspend Places the thin client in Standby mode to preserve power. To exit Standby mode, click the mouse.

🗹 Tip

If the *ReadyMode* feature has been enabled and the thin client is shut down, the session ends, the power button LED is put in a state of *OFF*, and the thin client is placed in *Standby* mode to preserve power. Upon pressing the power button, the thin client exits *Standby* mode, and immediately prompts the user with the login dialog box. For more information on *ReadyMode*, see the *Advanced* tab in "Configuring Device Settings."

Restoring Default Settings

Depending on the default settings you want to restore on the thin client, you can use either the BIOS (to restore default values for all the items in the BIOS setup utility), G key reset (to restore default users settings), or the **Thin Client Settings** dialog box (to restore all factory default settings).

Accessing Thin Client BIOS Settings

After starting your thin client you will see a Wyse logo for a short period of time. During this period you can press and hold the **F2** key (Models Xn0L and Xx0C) or the **Delete** key (Models Cx0, Rx0L, and Rx0LE) to enter the BIOS to make your modifications (enter **Fireport** as the password). For example, you can use the F9 key to *Setup Defaults* (load optimal default values for all the items in the BIOS setup utility).

Restoring Default User Settings

You can restore default user settings (user customizations are deleted, however, add-on applications that you installed are retained, and applications that you removed are not restored) by using the:

- Restore factory defaults when upgrading check box in the *Thin Client Settings* dialog box when updating firmware (see "Configuring INI and Upgrade Settings").
- Reset to Factory Defaults command button in the Advanced tab of the Device Settings dialog box (see "Configuring Device Settings").
- G-key Reset feature (a PS/2 keyboard is required). To use this type of restoration, when you see the splash screen during system boot (the screen reads, "SUSE Linux Enterprise Desktop" and displays a progress bar), hold down the G key to restore the default user settings.

Restoring All Original Factory Default Settings When Updating Firmware

Use the **Thin Client Settings** dialog box to restore all factory default settings when updating firmware.

- 1. Click the **Computer button** on the desktop panel and select **Control Center** to open the *Control Center*.
- 2. Click INI and Upgrade Settings to open the INI and Upgrade Network Settings dialog box.
- 3. If necessary, clear the Get INI and upgrade server details via DHCP check box.
- 4. Click Image upgrade settings to open the Thin Client Settings dialog box.
- 5. Select the Restore factory defaults when upgrading check box.
- 6. Select the Force base system update check box.
- 7. Click OK.

Enhancing Your Experience with Wyse Software

Wyse provides several software products that are specifically designed to enhance your thin client experience. Wyse Thin Computing Software is available on the Wyse Web site at: <u>http://www.wyse.com/products/software</u>.

Wyse Device Manager (WDM)

Wyse Device ManagerTM (WDM) servers provide network management services to the thin client (complete user-desktop control—with features such as remote shadow, reboot, shutdown, boot, rename, automatic device check-in support, Wake-On-LAN, change device properties, and so on). With WDM you can manage all of your network devices from one simple-to-use console.

Wyse TCX Suite

Wyse[®] TCX Software[™] provides an enrichment layer above ICA and RDP connections that enable flash acceleration, multiple monitor awareness, rich multimedia playback, high quality bidirectional audio capabilities, and seamless USB device access for Wyse thin clients. Each software component in the suite delivers a specific enhancement designed to work seamlessly within a variety of prevalent backend infrastructure solutions such as Microsoft[®] Terminal Services, Citrix[®] XenApp, Citrix[®] XenDesktop, and VMware[®] View or Virtual Desktop Infrastructure.

Wyse TCX Suite includes:

- Wyse® TCX Flash Acceleration[™]
- Wyse® TCX Multi-display™
- Wyse® TCX Multimedia[™]
- Wyse® TCX Rich Sound™
- Wyse® TCX USB Virtualizer™

Wyse USB Firmware Tool

The Wyse[®] USB Firmware ToolTM provides a simple USB imaging solution to help IT and Customer Service staff quickly and easily image supported devices.

Using the tool's flexible windows utility, users can easily:

- Configure a USB key to copy/pull firmware from a source device (to later push to other target devices)
- Configure a USB key to update/push firmware (that you include on the USB key) to target devices (to update firmware)
- Create replicate/duplicate USB keys (containing the original contents) for simultaneous
 usage on target devices (by users in several locations at the same time)

Wyse Virtual Desktop Accelerator

Wyse[®] Virtual Desktop Accelerator (VDA) is a software product that, when used with Wyse thin clients and supported PCs, provides an "accelerated" user experience on remote desktop sessions with high round-trip delay between the server and client. By accelerating the remote desktop protocols by a factor of up to 3 times on certain networks, a Wyse VDA session with a server located thousands of miles from your client "feels" similar to a non-accelerated session with a server located just a few hundred miles from your client.

Built for use on high-bandwidth high-latency networks that are prone to packet loss situations, primary use cases for Wyse VDA include:

- Datacenter Consolidation
- Desktop Cloud Computing
- Remote Off-Shore Desktop Computing

3

Automating Thin Client Configurations and Updates

This chapter contains information on how to configure the network environment so that your thin clients can configure and update themselves automatically (highly recommended).

It includes:

- "Understanding Automatic Configurations and Updates"
- "How INI files Are Employed"
- "How to Set Up Automatic Configurations and Updates"

For detailed information on constructing and using Wyse Enhanced SLE INI files, refer to *Reference Guide: Wyse* [®] *Enhanced SUSE Linux Enterprise INI Files.*

🗹 Tip

Wyse[®] Enhanced SUSE Linux Enterprise (SLE) does *not* require device management software. Your thin client is configured to obtain its IP address, as well as the location of firmware and configuration instructions, from a DHCP server. You can use "Wyse Device Manager (WDM)" or the "Wyse USB Firmware Tool" for a more hands-on management of client configurations and updates. For information about configuring thin clients to communicate with a WDM server, see "Configuring the WDM Agent" and related INI parameters in *Reference Guide: Wyse* [®] *Enhanced SUSE Linux Enterprise INI Files.*

Understanding Automatic Configurations and Updates

At each boot up, Wyse Enhanced SLE checks to see whether any updates are available on a predefined file server, and if updates are available, the updates are installed automatically. Firmware and any additional software (add-ons) that are on the thin client are replaced by their up-to-date versions on the server.



Only pre-existing add-ons are pulled from the server. If you want to place new add-ons on the thin client, use the *Novell Add-on Manager* available in the *Control Center* (see "Using Novell Add-on Manager").

How INI files Are Employed

INI files determine how the thin client is configured and updated. The thin client accesses INI files from the server during the initialization process. The network administrator creates and maintains these INI files. Typically, INI files are accessed through FTP, HTTP, and HTTPS; if no protocol is specified, the default is anonymous FTP.

INI files are employed as follows:

- wlx.ini This is the global INI file. One wlx.ini file is available to all users. It contains global parameters for all thin clients accessing the server. If the operating system cannot find wlx.ini, it defaults to wnos.ini.
- {username}.ini This file is unique to each user. The {username}.ini file contains the connection profile for each user. Parameters in the user profile generally supersede the identically named global parameters.
- **\$MAC.ini** This file can be used for device-specific configuration. If the thin client locates this INI file (it is stored in the same directory as wlx.ini), wlx.ini is not accessed, unless you use the include=wlx.ini parameter.

When a thin client is initialized, it accesses the global wlx.ini file. When a user logs in, the thin client accesses the user's unique {username}.ini file.

Descriptions of INI file commands and parameters can be found in *Reference Guide: Wyse* [®] *Enhanced SUSE Linux Enterprise INI Files.*

🗹 Tip

If both PNLite and a user profile are being used, the username must be defined in the Windows domain to be used, and the password must be the same for the domain and the profile.

How to Set Up Automatic Configurations and Updates

For the thin client to successfully access INI files and update itself from the server, you must set up the file server with the correct folder structure and "point" the thin client to the file server where the INI files and other update files are located. Finally, you must reboot. These tasks are described in the following steps.

Step 1: Preparing the Root Directory and Folder Structure on the File Server

The following list describes the folder structure, starting with the root directory.

/wyse/	The root directory. It stores the wlx directory and the addons directory. It also stores these files, which are used for imaging and updating devices: Latest-image.raw and Latest-image.raw.info.
/wyse/wlx	The main INI configuration folder. It stores the <code>bitmap</code> , <code>certs</code> , and <code>ini</code> directory. It also stores these files: <code>wlx.ini</code> or <code>\$MAC.ini</code> .
/wyse/wlx/bitmap	Stores custom icons and other images.
/wyse/wlx/certs	Stores certificates to import to the thin client using the INI commands Certs and ImportCerts.
/wyse/wlx/ini	Stores the {username}.ini file.
/wyse/addons	Stores add-ons. It also stores the directory file and the *.rpm packages available to be installed on the thin client. The directory file should list all available add-ons. The directory file is required in the addons folder to guarantee that add-ons are properly located.
	NOTE: If you want to do an update with the Preserve changes option enabled, make sure that your addons directory includes a copy of your current add-ons. The system may require two reboots to fully update the firmware and add-ons while preserving local changes.

Chapter 3

The following figure shows how to set up the folder structure on your file server and where to place INI files and other necessary files inside the structure.



Caution

The location of the addons folder is part of the root path directory (Wyse).

Step 2: "Pointing" the Thin Client to the File Server

After you set up the folder structure and populate it with the correct files, the next step is to point the thin client to the server location. The thin client can obtain the location of the server in two different ways, using DHCP or manually configuring the file server location. Using DHCP is *strongly recommended*.

Using DHCP

With the DHCP method of configuring the file server location (recommended), information about the server and root directory is obtained from DHCP option tags 161, 162, 184, and 185 (refer to Table 2 for complete descriptions of these option tags):

- 161 The server URL (full URL including the root path).
- 162 Root path to the file server (ftp/http/https) (for backward compatibility).
 - If no root path is defined, /wyse is assumed.
 - If a root path is defined, the additional path will be appended to the URL supplied by tag 161.
- **184** Wyse file server user name.
- **185** Wyse file server password.

🗹 Тір

Check-in for firmware updates is done early in the boot process. For that reason, changes in DHCP information may not be propagated to a unit until a full boot is completed. However, you can avoid this by forcing a renewing of the DHCP lease, which makes sure that the unit has the latest file-server location before the next firmware check. Open the **System Information** dialog box (click the **System Information** icon on the desktop panel), click the *Network* tab, click the **Release** button, and then click the **Renew** button.

Table 2 describes all DHCP option tags.

Option	Description	Notes
1	Client identifier	Always sent
2	Time Offset	Optional.
3	Router	Optional but recommended. It is not required unless the appliance must interact with servers on a different subnet.
6	Domain Name Server (DNS)	Optional but recommended.
12	Host Name/Terminal Name	Optional string. The host name or terminal name to be set.
15	Domain Name	Optional but recommended. See Option 6.
28	Broadcast Address	Optional.
44	WINS servers IP Address	Optional.
51	Lease Time	Optional but recommended.
52	Option Overload	Optional.

Table 2	DHCP	Option	Tags
---------	------	--------	------

Option	Description	Notes
53	DHCP Message Type	Recommended.
54	DHCP Server IP Address	Recommended.
55	Parameter Request List	Sent by appliance.
57	Maximum DHCP Message Size	Optional (always sent by appliance).
58	T1 (renew) Time	Optional but recommended.
59	T2 (rebind) Time	Optional but recommended.
61	Client identifier	Always sent.
161	Server address or URL	Optional string. If this is an IP address or resolvable hostname, the protocol is assumed to be FTP; however, it may be the leading portion of a URL that specifies another protocol. If using the URL form, it should <i>not</i> include a trailing slash (for example, http://server.example.com or ftp:// 192.168.0.1).
162	Root path to the file server (ftp/http/https)	Optional string. The relative directory starting from the root directory must be given. For example, on a Windows FTP server, the full directory may be C:\Inetpub\ftproot\wyse, where wyse is the directory that contains the firmware. In this example, the correct string value for this DHCP option is /wyse. On a Linux server, an FTP user-based directory might be /home/test/wyse. In this example, if the FTP user is test, then the FTP root path is /wyse and not the full path (/home/test/wyse). This value should use URL path notation (start with a forward slash, /, and use a forward slash as folder separators).
181	Wyse PN Server	Optional string. IP address or FQDN of the PNLite server.
182	Wyse Admin List	Optional string. DHCP equivalent of the DomainList ini file parameter.
184	Wyse File Server Username	Optional string. Username to use when authenticating to the server specified in Option 161.
185	Wyse File Server Password	Optional string. Password to use when authenticating to the server specified in Option 161.
186	Wyse Rapport Servers	Optional binary IP addresses. IP address or FQDN of the WDM server. Does <i>not</i> require option 187 to be specified.

 Table 2
 DHCP Option Tags, Continued

Manually Configuring the File Server Location

To manually configure the file server location (*not* recommended), open the **INI and Upgrade Settings** dialog box, and enter the address in the **INI Server URL** text box. For more information, see "Configuring INI and Upgrade Settings."

🗹 Tip

You can click **Image Upgrade Settings** to configure the INI and upgrade network settings as described in "Configuring the Image Upgrade Options."

S. INI	and Upgrade Network Settings (as superuser) _ ×
INI Source O Do not use II	VI files
O Use INI files	from server only
 If server is a 	vailable, use INI files from server only; otherwise use local INI files.
 Use local IN 	files only
Get INI and Up	grade server details via DHCP
INI Settings	
INI Server URL:	ftp://10.140.2.107/wyse
Server requires	authentication
Username:	blazer
Password:	
Image Upgrad	de Settings

Step 3: Rebooting

After you reboot, the thin client will look in the defined root path for the latest available image and update if necessary. Additionally, it will check the *directory* file in the *addons* folder to see if any updates for installed add-ons are defined. Add-ons that exist in the *addons* folder but are not listed in the *directory* file, will be ignored during update check-in.

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4

Setting Up the Thin Client Using the Control Center

This chapter contains information to help you set up your thin client hardware, look and feel, and system settings using the *Control Center*.

🗹 Тір

Configurations made in the *Control Center* only apply to the thin client you are using. If you want to configure more than one thin client at a time or configure thin clients remotely, Wyse recommends configuring thin client settings using INI files as described in "Automating Thin Client Configurations and Updates."

Caution

Some thin client information, applications, and system configurations are saved and remain persistent after reboot for high-privilege users only.

Clicking **Control Center** in the *Computer* menu (see "Using the Computer Menu") or in the *Connection Manager* (see "Using and Configuring Connections with the Connection Manager") opens the *Control Center*. You can use the *Control Center* to set up your thin client settings and preferences.

🗹 Tip

You can right-click an icon in the *Control Center* to add the application to your *Favorite Applications* area (shown in the *Computer* menu) or to your *Startup Programs*.

19	Ca	ontrol Center		- = ×
Filter	Hardware			
	Display	Keyboard	Mouse	
Groups	Printing			
Look and Feel	Look and Feel			
System	Appearance	Language		
	System			
	Audio Devices	🕅 Change Password	Configure VDA	
	Desktop Appliance	Device Settings	ICA	
	Import Certificates	INI and Upgrade Settings	Network Connections	
	쓸 Novell Add-on Manager	Power Management	Screensaver	
	System information	🖋 TCX USB Virtualizer	💦 Thin Client Users	
	VNC Server	WYSE WDM		

Chapter 4

This chapter includes information on:

- "Configuring Display Settings"
- "Configuring Keyboard Preferences"
- "Configuring Mouse Preferences"
- "Setting Up and Managing Printers"
- "Customizing the Look of the Desktop"
- "Setting the Language"
- "Selecting Audio Devices"
- "Changing Passwords"
- "Configuring VDA"
- "Configuring Desktop Appliance Mode"
- "Configuring Device Settings"
- "Configuring ICA Global Settings"
- "Importing Certificates"
- "Configuring INI and Upgrade Settings"
- "Configuring Network Connections"
- "Using Novell Add-on Manager"
- "Power Management"
- "Setting Screensaver Preferences"
- "Viewing System Information"
- "Using TCX USB Virtualizer"
- "Managing Thin Client Users"
- "Setting VNC Server Preferences for Shadowing"
- "Configuring the WDM Agent"

Configuring Display Settings

Clicking the **Display** icon in the *Control Center* opens the **Display Preferences** dialog box. Use this dialog box to set the monitor display settings (Primary Display Output, Resolution, Refresh Rate, and Rotation). For most monitors, resolution is obtained automatically from the monitor. Note that screen rotation is not currently supported.

🔄 Display P	references	×			
Drag the monitors to set their place	Drag the monitors to set their place				
	Monitor: Prine	ceton 17"			
	⊛ On O O	ff			
	<u>R</u> esolution:	1024 x 768 🗘			
Princeton 17"	Re <u>f</u> resh rate:	60 Hz 🗘			
	Rotation:	Normal			
<u>Mirror screens</u>]				
Panel icon Show displays in panel					
		Close			

Configuring Keyboard Preferences

Clicking the **Keyboard** icon in the *Control Center* opens the **Keyboard Preferences** dialog box. Use this dialog box to select general (repeat key and cursor blinking), layout (keyboard models and layout options), accessibility (sticky key, slow key, bounce, key audio feedback), mouse keys (keypad control of pointer), and typing break (reminder) preferences.

General Layouts Accessibility Mouse Keys Typing Break Repeat Keys ✓ Key prosses ropeat when key is held down Qulay: Short Cursor Blinking ✓ Cursor Blinking ✓ Cursor Blinks in text fields Speed: Slow Factor	neral Layouts		ard Preferenc	es		
☑ Key presses popeat when key is held down ☑elay: Short		Accessibility	Mouse Keys	Typing Break		
Delay: Short Long Speed: Slow Pasi Cursor Blinking Ø Cursor blinks in text fields	epeat Keys					
Sport: Stow Fact Cursor Blinking Cursor glinks in text fields	Key press	es repeat when I	key is held do	wn		
Cursor Blinking © Cursor blinks in text fields	Delay: Sho	et 👘			Le	ng
Cursor blinks in text fields	Speed: Sk	w			- Fi	st
	ursor Blinking	,				
Spood: Slow Pass	Cursor blin	nks in text fields				
-	Speed: Sk	w			- Fi	s:
	opood. on					
ype to test settings:						
	e to test setting	s:				_

Configuring Mouse Preferences

Clicking the **Mouse** icon in the *Control Center* opens the **Mouse Preferences** dialog box. Use this dialog box to select general (mouse orientation, locate pointer, pointer speed, drag-and-drop, double-click time out) and accessibility (simulated secondary click and Dwell click) preferences.

Mouse Preferences ×
General Accessibility
Mouse Orientation
<u>Right</u> -handed
Left-handed
Locate Pointer
□ Show position of pointer when the Control key is pressed
Pointer Speed
Acceleration: Slow Fast
Sensitivity: Low High
Drag and Drop
Threshold: Small Large
Double-Click Timeout
Timeout: Short Long
To test your double-click settings, try to double-click on the light bulb.
₩ Close

Setting Up and Managing Printers

Clicking the **Printing** icon in the *Control Center* opens the **Printer Configuration** dialog box. Use this dialog box to:

- View the list of currently configured printers.
- Add and configure a network or local printer (click the **New** icon to open and use the *New Printer* wizard).
- Select the default printer (select a printer in the list and click **Printer > Set as Default**). Note that administrators can specify system-wide and personal default printers.
- Change printer settings (right-click a printer in the list, select **Properties**, and then click **Settings**).
- Change printer policies (right-click a printer in the list, select **Properties**, and then click **Policies**).
- Change user access to the printer (right-click a printer in the list, select **Properties**, and then click **Access Control**).
- Change printer job options (right-click a printer in the list, select **Properties**, and then click **Job Options**).
- Delete a printer (right-click a printer in the list, select **Delete**, and click **OK**).

📇 Printer configuration - localhost		
<u>S</u> erver <u>P</u> rinter <u>V</u> iew <u>H</u> elp		
New Refresh		
		^
Generic-ESC-P-Dot- Matrix-Printer		~
Connected to localhost		

Installing a Network Printer

1. Click the **New** icon in the **Printer Configuration** dialog box to open the *New Printer* wizard.

Devices	Settings of the	serial port	
Serial Port #1	Baud Rate	115200	0
Serial Port #2 AppSocket/HP JetDirect	Parity	Default	0
Forward print job data like a pipe to a	Data Bits	Default	0
nternet Printing Protocol (ipp)	Flow Control	Default	0
LPD/LPR Host or Printer			
Windows Printer via SAMBA			
Other			

- 2. Select the printer option you want from the *Devices* list and follow the *New Printer* wizard using the following guidelines:
 - AppSocket/HP JetDirect Use this option for a printer connected directly to the network instead of through a computer.
 - Forward print job data like a pipe to another command Use this option to "pipe" the output of the printing command into another command or to "redirect" the output to a file.
 - Internet Printing Protocol (IPP) Use this option for a printer attached to a different Linux system on the same network running CUPS or a printer configured on another operating system to use IPP (http printing).
 - LPD/LPR Host or Printer Use this option for a printer attached to a different UNIX system that can be accessed over a TCP/IP network (for example, a printer attached to another Linux system on your network) or a thin client used as an LPD (Line Printer Daemon) server for LPD printing requests from the network. You can enter the DNS or WINS name of the server for the network printer, or an IP address can also be entered. Note that if the printer is attached to another thin client on your network, the entry in the *Host* box is the name or address of that thin client.
 - Windows Printer via SAMBA Use this option for a printer attached to a different system that is sharing a printer over an SMB network (for example, a printer attached to a Microsoft Windows machine).
 - Other Use this option for other device Uniform Resource Identifier (URI) needs.

Installing a Local Printer

Connect the printer cable to your thin client and use the following guidelines:

1. Click the **New** icon in the **Printer Configuration** dialog box to open the *New Printer* wizard.

Devices	Description
IP Deskjet 5400 (TH61E 130YF04K) Serial Port #1 Serial Port #2 AppSocket/IP JetDirect Forward print job data like a pipe to a Internet Printing Protocol (ipp) LPD/LPR Host or Printer Windows Printer via SAMBA Other	A printer connected to a USB port.

2. Be sure the USB printer you connected to your thin client is selected and click **Forward**.

🗹 Тір

You can use the **Serial Port #1** and **Serial Port #2** options as needed for your local serial port printers.

Choose Driver		New Printer	- • ×
Provide PPD file Search for a printer driver to download The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific retures of the printer. Makes Generic	Choose Driver		
Provide PPD file Search for a printer driver to download The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific retures of the printer. Makes Generic	Select printer from	n database	
Search for a printer driver to download The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific features of the printer. Makes Generic		- Galacter of G	
The foomatic printer database contains various manufacturer provided PostScript Printer Description (PPD) files and also can generate PPD files for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific features of the printer. Makes Generic	• • • • • • • • • • • • • • • • • • • •	ar driver to driveland	
Description (PPD) lifes and also can generate PPD lifes for a large number of (non PostScript) printers. But in general manufacturer provided PPD files provide better access to the specific features of the printer. Makes Generic	O Search for a philo	a cirver to download	
Generic	Description (PPD) file printers. But in genera features of the printer	es and also can generate PPD files for a large number of (non PostSo al manufacturer provided PPD files provide better access to the speci	
	Makes		
нр	Generic		_
	HP		
		Rack Scancel P	Eorward

3. Select the option with which you want to obtain your printer driver and click Forward.

Models	Drivers
DeskJet	HP DeskJet Series, 1.3 [en] (recommended)

4. Select the Model and Driver and click Forward.

Printer Name					
	this minter such a	a "lanariat"			
Deskjet-540	r this printer such a	s raserjet			-
Desklet-540	Foenes				_
Description (c	ptional)				
Human-reada	ble description such	as "HP LaserJe	t with Duplexer*		
HP Deskjet	5400 series				
Location (opti	nal)				
Human-reada	ble location such as	"Lab 1"			
LWT008064	314f5				
And and a second s					-

5. Enter the *Printer Name*, *Description*, *Location*, and then click **Apply**. The printer is added to the **Printer Configuration** dialog box and is ready for use.

-					
Server	Printer	⊻iew	Help		
<mark>≌</mark> ≁ New		C fresh			
	0)			
Deskje					
ser	ies				V
Connecte	d to loc	alhost			

Customizing the Look of the Desktop

Clicking the **Appearance** icon in the *Control Center* opens the **Appearance Preferences** dialog box. Use this dialog box to set the desktop display settings (*Theme, Background, Fonts*, and *Interface*). It is recommended to use default settings for best performance.

Appearance Preferences	×
Theme Background Fonts Interface	
Image: Custom OpenSUSE 11 Gilouche	
This theme will not look as intended because the required icon theme 'Gilouche' is not installed.	
Save As	
Leip X Close)

Setting the Language

Clicking the **Language** icon in the *Control Center* opens the **Select a Language** dialog box. Use this dialog box to select the language of the User Interface (UI) from the list of supported languages (select the language you want and click **OK**). Note that currently only English is supported.

🗹 Tip

Additional language packs can be downloaded as they become available from Wyse at: <u>www.wyse.com/download</u>.

Selecting Audio Devices

Clicking the **Audio Devices** icon in the *Control Center* opens the **Audio Devices** dialog box. Use this dialog box to view and change the automatically-detected audio device (for example, a connected audio headset/device will be automatically detected) you want to use for your audio output (select the device you want and click **OK**).

9		Audio Devices _	×
	Audio device:	Default	
		S Cancel	

Changing Passwords

Clicking the **Change Password** icon in the *Control Center* opens the **Change Password** dialog box. Use this dialog box to change the *Admin* password (for login) and *root* password.

😪 Change Password _ 🗙
Change Password for 'Admin'
New Password:
Confirm Password:
□ Change Password for 'root'
New Password:
Confirm Password:
☐ Allow ssh root login

To change a password, select the check box you want (**Change Password for 'Admin'** or **Change Password for 'root'**), enter a *New Password* for the option (and enter again in the *Confirm Password* box), and then click **OK**.



Linux users who have a root password have high privileges. By default, the *Allow ssh root login* option is disabled for security purposes. You can enable ssh root login by selecting the **Allow ssh root login** check box.

Configuring VDA

Clicking the **Configure VDA** icon in the *Control Center* opens the **Global VDA Config** dialog box. Use this dialog box to enable or disable Wyse Virtual Desktop Accelerator (to accelerate protocols such as Microsoft RDP and Citrix ICA).

🖬 Global VDA confiç 🗕 🗙
VDA settings
🗆 🎻 Enable VDA
Cancel Cancel

Configuring Desktop Appliance Mode

Clicking the **Desktop Appliance** icon in the *Control Center* opens the **Desktop Appliance Configuration** dialog box. Use this dialog box to configure your thin client to easily access your XenDesktop. Once the thin client is in *Desktop Appliance Mode*, a user can login to a XenDesktop with an "Out-of-the-box HDX Plug-n-play" experience.

۲	Desktop Appliance Configuration (as superuser) _ ×
	Desktop Appliance Configuration
🗆 De	sktop Appliance Mode
URL:	
	S Cancel Cac

Use the following guidelines:

- 1. Select the Desktop Appliance Mode check box.
- 2. Enter the XenDesktop URL (this is the location of the XenDesktop server where you can log in and use your desktop). Note that Desktop Appliance Mode can also be enabled through the INI parameters EnableApplianceMode=Yes and Xendesktop URL=<URL> as described in "Automating Thin Client Configurations and Updates."
- 3. Click OK to open the confirmation message.



4. Click OK to reboot the thin client.

 Upon system reboot the thin client will connect to your XenDesktop server and prompt you for your XenDesktop login credentials (enter your login credentials to access your desktop).

Log on to access yo	ourdesktop.		
	User name:]
	Password:]
	Domain:		?
		Log On	

🗹 Тір

To exit *Desktop Appliance Mode* and allow normal log in after system start, administrators can use ALT+F4 to display the *Desktop Appliance Admin Login* dialog box, where you can enter your administrator login credentials and access the *Control Center* to use the *Desktop Appliance* icon and clear the *Desktop Appliance Mode* check box (be sure to click **OK** to reboot the thin client).

6. (*Administrators Only*) While in *Desktop Appliance Mode*, administrators can use ALT+F4 to display the **Desktop Appliance Admin Login** dialog box, where you can enter your administrator login credentials and access the *Control Center* for administrative setup.


Configuring Device Settings

Clicking the **Device Settings** icon in the *Control Center* opens the **Device Settings** dialog box. Use this dialog box to set the parameters of your device. After configuring the settings you want, be sure to click **OK**.

🗹 Тір

The COM tab will not appear for mobile thin clients.

Terminal Name

Use the Terminal Name tab to obtain the device name:

- Contact DHCP server Obtains the name from the DHCP server.
- DNS reverse lookup Obtains the name from a DNS reverse lookup.
- Derive from MAC address Generates the name from the device MAC address.
- Use the following name Allows you to manually enter a name.

1	Dev	ice Setting			ser)	_ × _
Device	Settings	3				
Terminal Name	Hosts	Ethernet	COM	NTP	Advanced	
Terminal: LWT	0080647	3141a				
0.0	Contact [DHCP sen	/er			
0	NS rev	erse lookup	2			
•	erive fro	om MAC a	ddress			
01	lse the f	ollowing n	ame:			
	WT008	06473141a				
				(<u>C</u> ancel	<u>е</u> к

Hosts

Use the *Hosts* tab to add mappings of IP addresses to hostnames that are not available through DNS (the names of mapped addresses appear on the *Hosts* tab):

- Adding an IP address Click Add to open the *letc* hosts entry dialog box, enter an *IP Address, Hostname* (and optionally, *Aliases*), and then click OK.
- Editing a Host Select a host from the list, click Edit, and configure the host.
- Deleting a Host Select a host from the list and click Delete.

1 Device Settings (as superuser) _ ×	🚪 /etc/hosts entry (as superuser) _ 🗆 🗙
Device Settings Terminal Name Hosts Ethernet COM NTP Advanced Additional entries to /etc/hosts IP Address Hostname Aliases	IP Address: [Hostname: Aliases (Optional): Image: Control in the second sec
Add Delete	

Ethernet

Use the *Ethernet* tab to select the Ethernet speed.

4	Dev	ice Setting	gs (as s	uperu	ser)	_ ×	3
Device	Settings	s					
Terminal Name	Hosts	Ethernet	COM	NTP	Advanced		
Speed	: Auto-E	Detect					
Source	: 💿 Au	to-Detect					
	0 10	0 Mb Full-[Duplex				
	0 10	0 Mb Half-	Duplex				
	0 10	Mb Full-D	uplex				
	0 10	Mb Half-D	uplex				
				(<u>Cancel</u>	<u>o</u> k)

COM

Use the COM tab (not available for mobile thin clients) to select COM1 and COM2 Speed, *Parity, Size, Flow control,* and *Stop bits* (the size of the stop bit with respect to the size of all the other signaling bits in a character).

1		Devi	ice Settii	ngs (as s	superu	ser)		-	×
	Device S	Settings							
	Terminal Name	Hosts	Etherne	COM	NTP	Advanced			
	COM1 COM2								
		Sp	eed: 96	00		٥]		
		Pa	rity: No	one		\$			
		S	ize: 8			\$]		
	FI	low con	trol: No	one		\$			
		Stop I	oits: 1			\$]		
					(<u>C</u> ancel	¢.	<u>⊃</u> κ	

NTP

Use the *NTP* tab to enter the IP Address or hostname of the Network Time Protocol (NTP) server (the current NTP server is shown) to synchronize the clock time and date of the thin client (you can use the *Sync* button to synchronize immediately).

1	Dev	ice Setting	gs (as s	uperu	ser)		-	×
۲. De	evice Settings	6						
Terminal N	ame Hosts	Ethernet	COM	NTP	Advanced			
NTP Serv	ver Configura	ation						
NTP	Server:							
						<u>Sync</u>		
					🚫 <u>C</u> ance		<u>о</u> к	

Advanced

Use the *Advanced* tab to:

- Enable or disable ReadyMode You can use ReadyMode for easy login after thin client shut down. If the *ReadyMode* feature has been enabled (select the **ReadyMode** check box) and the thin client is shut down, the session ends, the power button LED is put in a state of *OFF*, and the thin client is placed in *Standby* mode to preserve power. Upon pressing the power button, the thin client exits *Standby* mode, and immediately prompts the user with the login dialog box.
- **Restore default user settings** When you use the **Reset to Factory Defaults** command button, user customizations are deleted. However, add-on applications that you installed are retained, and applications that you removed are not restored.

1		Dev	ice Setting	gs (as s	uperu	ser)	-	×
×	Device	Settings	5					
Te	erminal Name	Hosts	Ethernet	COM	NTP	Advanced		
F	uninstall	only set or reinst	all addons	differer		aults but will not from factory image.		
	Re	set to <u>F</u>	actory Def	aults				
						<u>Cancel</u>	<u>0</u> K	

Configuring ICA Global Settings

Clicking the **ICA** icon in the *Control Center* opens the **ICA Global Settings** dialog box. Use this dialog box to configure the common settings you want for all ICA connections. After configuring the settings you want, be sure to click **OK**.

Network

Use the *Network* tab to configure the servers and reconnection settings.

2		(CA Global Se	ttings			_ 0 X
2 Setti	ngs common to a	ll ICA co	nnections				
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firewall	Trusted Server Co	nfiguration
	PN Agent S Metaframe S						
	Browsing Pro	_	CP/IP + HTT	P server l	ocation		
Ap	PN Logon Dor plication Reconne		Seamless Automatic re	connectio	n at logon		
		0	Connect to a Connect to d				
						S Cancel	€ОК

Use the following guidelines:

- **PN Agent Server** Enter the PN Agent Server you want to use (this can be a list of servers with each server separated by a semi-colon).
- **Metaframe Server** Enter the Metaframe Server you want to use (this can be a list of servers with each server separated by a semi-colon).
- Browsing Protocol Select the browsing protocol to use from the list.
- PN Logon Domains Enter the PN logon domains.
- Seamless Select to display the connection in a seamless window.
- Application Reconnection Select the Automatic reconnection at logon check box to enable reconnection, and then select the connect option you want.

Drive Mapping

Use the *Drive Mapping* tab to map drives on the server to devices on the thin client, and to view and manage (add, edit, and delete) the list of current drives (including drive information) mapped on the thin client.

			CA Global Se	ettings			-	• ×
Setti	ngs common to	all ICA con	inections					
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firewall	Trusted Serv	er Configura	ation
Drive L	etter Read/Writ		rne Race Pr A Drive Map		_	= ×		
		Drive L	etter: A					
			0	able Read				_
				able Write				-
		Drive '	· _	Floppy		•		
		Base Dire	tory: 1					
٢			6	<u>C</u> ancel		ок	Þ	
				8		es gun	Delete	
						Cancel	2	ĸ

Adding Drives

- 1. Click Add to open the ICA Drive Map dialog box.
- 2. Select a drive letter (A to Z) from the Drive Letter list.
- **3.** To enable or disable reading and writing for the drive, select or clear the **Enable Read** and **Enable Write** check boxes.
- 4. Select a drive type (USB Floppy, USB CDROM, USB Disk or Memory Stick, or Local or Mounted Disk) from the *Drive Type* list.
- (Optional) Enter the directory on the USB device to access in the Base Directory text box.
- 6. Click OK to add the drive to the list of available drives.

Editing and Deleting Drives

To edit or delete a drive, select a drive from the list of available drives and do one of the following:

- Edit Click Edit and configure the drive as described in "Adding Drives."
- Delete Click Delete to remove the drive.

Hotkeys

Use the *Hotkeys* tab to map hotkeys on the thin client, and to view and manage (add, edit, and delete) the list of current hotkeys mapped on the thin client. To set the hotkeys, select a **Hotkey** option using the *Hotkey* lists for each function you want.

2		0	CA GI	lobal Settings			-	. 🗆 🗙
Settir	gs common to a	III ICA cor	necti	ons				
Network	Drive Mapping	Hotkeys	CON	M Ports Display	Firewall	Trusted Serve	er Config	uration
Function	Hot	key		Function		Hotk	ev	
Alt + F1:	Ctrl + Shift	F1	0	Alt	+ F9:	Ctrl + Shift 🗘	F9	0
Alt + F2:	Ctrl + Shift C	F2	0	Alt	+ F10:	Ctrl + Shift 0	F10	0
Alt + F3:	Ctrl + Shift	F3	0	Alt	+ F11:	Ctrl + Shift 🗘	F11	0
Alt + F4:	Ctrl + Shift	F4	\$	Alt	+ F12:	Ctrl + Shift 🗘	F12	0
Alt + F5:	Ctrl + Shift	F5	0	Alt	+ Tab:	Alt 0		0
Alt + F6:	Ctrl + Shift	F6	0	Alt + Shift	+ Tab:	Alt + Shift 🗘	+	0
Alt + F7:	Ctrl + Shift	F7	0	Toggle Speeds	creen:	Shift 🗘	F12	0
Alt + F8:	Ctrl + Shift	F8	0					
						Sancel		<u>o</u> ĸ

COM Ports

Use the *COM Ports* tab to map COM ports on the server to devices on the thin client, and to view and manage (add and delete) the list of current COM ports (including device information) mapped on the thin client.

2 2 Setti	ings common to a		A Global Se	ettings		_ = ×
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firowall	Trusted Server Configuration
COM P	Port Device					
	-	Add CO	M Port Map	ping		
			COM Port:	COM1	¢	
			Device:	/dev/ttyS	0 0	
			Sance Cancel	el e	<mark>⊎</mark> 0к	9
K			111			D
						Add Delete
						S Cancel

Adding COM Ports

- 1. Click Add to open the Add COM Port Mapping dialog box.
- 2. Select a COM Port (1 to 4) from the COM Port list.
- 3. Select a device from the Device list.
- 4. Click OK to add the COM port and device to the list of available COM Ports.

Deleting COM Ports

To delete a COM Port, select a COM Port from the list of available COM Ports and click **Delete**.

Display

Use the *Display* tab to set the *Scroll Adjustment* (select an adjustment option) and *PrintScreen* (select or clear the check box) on the thin client.

2							
2 Setti	ngs common to :	all ICA cor	inections				
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firewall	Trusted Server Co	nfiguration
	Scroll Ad	justment:	Ø				
	Pr	intScreen.	Print dire	atly to alir	board		
	PI	intocreen:	Phint Gire	city to clip	board		
						S Gancel	۩K

Use the following guidelines:

- Scroll Adjustment If you encounter over-scrolling when using certain published applications, increase the adjustment by 100 until the display improves (maximum scroll adjustment is 1000).
- **PrintScreen** Select to use the *Print Screen* key to capture an image of the desktop to the *Clipboard* (used for ICA XCapture support). If the check box is selected, a message appears warning about the influence of this setting on other applications).

Firewall

Use the Firewall tab to set the firewall configurations on the thin client:

- Automatically detect proxy Detects proxy servers automatically.
- Use Alternate Address for Firewalls Enables connections behind a firewall
- Proxy Type Select a Proxy Type from the list and if necessary (Secure (HTTPS) or SOCKS, enter the Proxy Address and Port).

			CA Global Se	ttings			-	
Setti	ngs common to	all ICA cor	nections					
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firewall	Trusted Serve	r Configura	ation
			Automatically Use Alternate			Is		
	Proxy Ty	pe: No	ne (Direct Co	nnection)			Ô	
		Prox	y address				Port	
						S Cancel	¢.	ĸ

Trusted Server Configuration

Use the *Trusted Server Configuration* tab to set and enforce the trusted server configurations. To enforce a trusted server configuration, select the **Enabled** option, select the **Enforce trusted server configuration** dialog box, enter the *Address* of the trusted server, and then click **OK** (you can also use the *Enabled* or *Disabled* options to quickly enable or disable the enforcement configuration).

2	ICA Global Settings _ 🗆 🗙					
etti	Settings common to all ICA connections					
Maturali	Daise Magning	Lations	COMParts	Disalau	Firmuell	Trusted Server Configuration
Network	Drive Mapping	Hotkeys	COM Ports	Display	Firewall	Trusted Server Configuration
	Not Configured Enabled Disabled					
	Enforce trusted server configuration Address					
						Cancel Cancel

Importing Certificates

Clicking the **Import Certificates** icon in the *Control Center* opens the **Import Certificates** dialog box. Use this dialog box to import and manage (add and delete) ICA Digital Certificates as described in "Adding Certificates from a Remote Server" and "Adding Certificates from a Local Device."

-	Import Certificates	_ = ×
	Import Certificate	
Filenar		
		=
	Ш	
	Add	- <u>D</u> elete

Adding Certificates from a Remote Server

Use the following guidelines (certificate files you add from a remote server must end with the extension *.crt*, and be DER-encoded or Base64-encoded):

- 1. In the **Import Certificates** dialog box, click **Add** to open the **Add Certificate** dialog box.
- 2. Select the **Remote Server** option, and then click **Next** to open the **Certificate Import Server Settings** dialog box.

🔜 Certifi	cate Import Server Settings .		×
Remotre Certificate Sour	се		
 Use Server from Detection 	efault registry		
◯ Use the following S	erver:		
CServer			
Import Server URL:	file:///wyse		
User name:	blazer		
Password:	****		
Certificate file:		~	
		<u>l</u> dd	

- 3. Select the *Remote Certificate Source* server option that contains the certificate you want. If you select the **Use the following Server** option, enter the *Import Server URL* (supported protocols are ftp, http, and https) and the *User name*, and *Password* required for that server.
- 4. Select the certificate file from the *Certificate file* list (if the *Import Server URL*, *User name*, and *Password* are entered correctly, this list automatically displays the names of available certificates on the server).
- 5. After the configuring the *Remote Certificate Source* server option you selected, click Add.

Adding Certificates from a Local Device

- 1. In the **Import Certificates** dialog box, click **Add** to open the **Add Certificate** dialog box.
- 2. Select the Local Server option, and then click Next to open the Open File dialog box.

bome admin			
Places	Name	~	Modified
Becently Used	Contraction Contraction Contraction		07:18
root	Documents		07:18
⊒ File System	bin		07:18
- Bemore			

3. Use the folders and command buttons to find and select the certificate you want to use.

Configuring INI and Upgrade Settings

Clicking the **INI and Upgrade Settings** icon in the *Control Center* opens the **INI and Upgrade Network Settings** dialog box. Use this dialog box to configure INI file downloads and image updates from the server. You can configure the downloads by using DHCP options or by manually entering the server address.



Wyse recommends obtaining INI files from DHCP options rather than from a static IP address. For information about how INI files and images are downloaded from the server, see "How to Set Up Automatic Configurations and Updates."

🗹 Tip

Wyse devices also support INI updates through Wyse Device Manager's DDC (see "Wyse Device Manager (WDM)" and "Configuring the WDM Agent").

	INI and Upgrade Network Settings _ ×
INI Source	
○ Do not use I	NI files
 Use INI files 	from server only
 If server is a 	vailable, use INI files from server only; otherwise use local INI files.
⊖ Use local IN	I files only
Get INI and Up	grade server details via DHCP
INI Settings	
INI Server URL:	ftp://192.168.0.2/wyse
Server requires	authentication
Username:	administrator
Password:	*****
Image Upgrad	de Settings

Obtaining INI and Upgrade Server Details from DHCP

To obtain INI file downloads and image updates from the DHCP server, select either the Use INI files from server only or If available, use INI files from server only; otherwise use local INI files option, select the Get INI and Upgrade server details via DHCP check box, and then click OK.

Manually Configuring the INI Server URL

If you want your thin client to obtain INI file information from a static address rather than a DHCP server, use the following guidelines:

- 1. Select either the Use INI files from server only or If available, use INI files from server only; otherwise use local INI files option.
- 2. Clear the GET INI and Upgrade server details via DHCP check box.
- 3. Manually enter a server address in the INI server URL text box.
- **4.** If the server requires authentication, click the **Server requires authentication** check box, and then enter a username and password.
- 5. Click OK.

You can click **Image Upgrade Settings** to configure the INI and upgrade network settings as described in "Configuring the Image Upgrade Options."

Configuring the Image Upgrade Options

Using the **INI and Upgrade Network Settings** dialog box, you can configure *how* the image on the thin client is updated if you manually configured the INI server URL as described in "Manually Configuring the INI Server URL."

In the **INI and Upgrade Network Settings** dialog box, click the **Image Upgrade Settings** to open and use the **Thin Client Settings** dialog box.

2	Thin Client Settings				
Update Mode:	Base System & Add-ons	\$			
Update Server URL:	ftp://192.168.0.2/upgrade-images/beta				
Server requires a	uthentication				
Username:	administrator				
Password:	******				
Restore factory d	Restore factory defaults when updating				
Force base system update					
		ĸ			

Use the following guidelines:

- Update Mode select either:
 - No Update Image updates are disabled.
 - Base System & Add-ons The base image and add-ons are updated at each reboot.
 - Base System Only Only the base image is updated at each reboot.
 - Add-ons Only Only add-ons are updated at each reboot.
- Enter the **Update Server URL**. If the server from which the thin client updates requires authentication, select the **Server required authentication** check box and enter the **Username** and **Password**.

• **Restore factory defaults when updating** - When selected, removes all local-machine customizations when software is updated from the file server. This setting is enabled by default and is recommended. However, if you want to keep locally defined connections or custom changes to installed applications, you can clear this check box.

🗹 Tip

In order to update with the **Restore factory defaults when updating** option disabled, you must have a properly set-up *addons* folder with a *directory* file that defines which software versions you want on the thin client. Moreover, it may take two full reboots to restore the latest software as well as your customizations.

 Force base system update - If you want to install the image and add-ons available on the file server regardless of whether or not they are the same as the currently installed image and add-ons on the thin client, select this check box.

🗹 Tip

The **Restore factory defaults when updating** option and the **Force base system update** option are useful when you want to fully restore the unit to factory defaults. These options remove any customizations and install only the base image supplied by Wyse.

Click OK to return to the INI and Upgrade Network Settings dialog box.

Configuring Network Connections

Clicking the **Network Connections** icon in the *Control Center* opens the **Network Connections** dialog box. Use this dialog box to configure the settings you want for supported network connections. Use the *Wired, Wireless, Mobile Broadband, VPN*, and *DSL* tabs to view and manage (add, edit, and delete) the list of network connections configured on the thin client. By default, your thin client obtains information from the DHCP server about network connections (highly recommended), but you can manually enter connection information to connect to other networks (experienced users only).

5	Ne	twork Connections			×
Wired	Wireless	Mobile Broadband	3	VPN	I DSL
Auto eth0		n	ever		Edit
				3	Close

Using Novell Add-on Manager

Clicking the **Novell Add-on Manager** icon in the *Control Center* opens the **Novell Add-on Manager** dialog box. Use this dialog box to view and manage (add and remove) the list of add-on packages available. Add-ons that are selected in the list have been installed on your thin client.

😑 Novell Add-on Manager _ 🗆	×			
Below is a list of available add-on packages. Ch or uncheck an add-on to install or remove it, respectively.	eck			
✓ addon_support-1.0.1-1.1				
✓ borg-1.0.0-0.6	=			
device_settings-1.0.1-01.02	-			
✓ diagnostics-1.0.1-01.00				
✓ ericom_powerterm-8.2.0-04.03				
✓ ethtool-6-78.21+1				
✓ factory_reset-1.0.1-01.11				
✓ firefox-3.0.6-01.01				
✓ flash-player-lite-10.0.15.3-1.11+1				
✓ gst_mmr_basic_plugin-3.1.1-1				
✓ gst_mmr_plugin-3.1.1-09.02				
✓ gstreamer-lite-0.10.21-3.20+1 ~				
Server Settings	se			

To install add-ons, your thin client must be connected to the correct update server and folder on that server. If you receive a *Failed to download available add-on list* error message, click **Server Settings** in the **Novell Add-on Manager** dialog box to open and use the **Thin Client Settings** dialog box as described in "Configuring the Image Upgrade Options" (**IMPORTANT**: In the **Update Server URL** text box, be sure to enter the root path on the server followed by the path to the Addons folder). The Novell Add-On Manager populates the list with add-ons listed in the *directory* plain text file located in the *addons* folder (see "Step 1: Preparing the Root Directory and Folder Structure on the File Server").

Use the following guidelines to install and uninstall add-ons:

- Installing add-ons Select the check box of the add-on and click Execute.
- Uninstalling add-ons Clear the check box of the add-on and click Execute.

Power Management

Clicking the **Power Management** icon in the *Control Center* opens the **Power Management Preferences** dialog box. Use this dialog box to select *On AC Power* (actions and display), *On Battery Power* (actions and display *for mobile thin clients*), *General* (actions, notifications, and extras), and *Scheduling* (automatic wake-up) power preferences. Press the *Power* button to wake the computer from standby or sleep mode.

1	Power Managem	ent Preferences	3
	On AC Power General Scheduling		
	Actions		
	Put computer to gleep when inactive for:		Never
	Display		
	Put gisplay to sleep when inactive for:	10 minutes	
	E Help	Make Default	

Setting Screensaver Preferences

Clicking the **Screensaver** icon in the *Control Center* opens the **Screensaver Preferences** dialog box. Use this dialog box to select screen saver theme settings and power management settings (click **Power Management** to open and use the **Power Management Preferences** dialog box - see "Power Management").

🗹 Tip

Press the *Power* button to wake the computer from standby or sleep mode.



Viewing System Information

Clicking the **System Information** icon in the *Control Center* opens the **System Information** dialog box. Use this dialog box to view *Identity*, *Network*, *System Log*, and *Copyright* information:

- Identity tab Displays identity information such as Website, Terminal Name, Product Name, Platform, Build, SLETC, OS Version, CPU Type, CPU Speed, RAM Size, RAM Free, Flash Size, Serial Number, and BIOS Version.
- Network tab Displays network information such as Interface, MAC Address, Network Speed, IP Address, IPv6 Address, Subnet Mask, Gateway, Domain Name, Primary DNS, Secondary DNS, DHCP Server, Lease, and Elapsed time.
- **System Log tab** Displays the *System Log* information, including various messages generated during the operation of the thin client.
- Copyright tab Displays the software copyright and patent notices.

 System In 	formation (as	superuser) _	□ ×
Identity Network	System Log	Copyright		
Website:	www.wyse.co	om		
Terminal Name:	LWT0080647	3141a		
Product Name:	Wyse Enhand	ed SUSE L	inux Enterp	rise
Platform:	R 50L			
Build:	11.1.012			
SLETC:	1.4.1115			
OS Version:	2.6.32.12-0.7-pae			
CPU Type:	AMD Sempron(tm) Processor 200U			
CPU Speed:	999MHz			
RAM Size:	887212KB			
RAM Free:	325660KB			
Flash Size:	1000944KB			
Serial Number:	0RLDHC00027			
BIOS version:	1.3H_SPC			

Using TCX USB Virtualizer

Clicking the **TCX USB Virtualizer** icon in the *Control Center* opens the **TCX USB Virtualizer Configuration Utility** dialog box. Use this dialog box to view and manage (add, edit, and delete) the list of current device classes (on the *Configuration* tab) and to view the list USB devices enabled or denied for use on the thin client (on the *USB Devices* tab). You can deny a device class, but still permit a USB device in that class to be used, by adding it to the *Devices* list of the *Configuration* tab.

🖉 🛛 TCX USB Virtualizer - Configuration Utility 💷 🗆 🗙	🖉 🛛 TCX USB Virtualizer - Configuration Utility 💷 🗆 🗙
TCX USB devices virtualizer	🖋 TCX USB devices virtualizer 🗹 Enabled
Configuration USB Devices	Configuration USB Devices
Devices	TCX Device
✓ Vendor Specific Devices	Linux 2.6.27.42-0.1-pae ohci_hcd OHCI Host Controlle
Palm Sync Devices	Linux 2.6.27.42-0.1-pae ohci_hcd OHCI Host Controlle
Active Sync Devices	
✓ Video Devices	Linux 2.6.27.42-0.1-pae ohci_hcd OHCI Host Controlle
Smart Card Devices	CHICONY USB Keyboard
Data Interface Devices	Linux 2.6.27.42-0.1-pae ohci_hcd OHCI Host Controlle
Mass Storage Devices	Linux 2.6.27.42-0.1-pae ohci_hcd OHCI Host Controlle
✓ Printers	Linux 2.6.27.42-0.1-pae ehci_hcd EHCI Host Controlle
✓ Still Imaging Devices	Ralink 802.11 n WLAN
HID Devices	
 Communication Devices 	
Audio Devices	
🕂 Add 📄 Edit - Remove	

Use the following guidelines:

- Enabling USB devices Select the Enabled check box (default).
- Allowing or denying USB device classes On the Configuration tab, select or clear the check box of a device class in the Devices list to allow or deny its use. For example, select Smart Card Devices to permit USB smart card devices to be used to log into virtual machines.
- Adding a USB device On the *Configuration* tab, click Add to open the Add dialog box, enter a *Device Name*, select a class for the device from the *Class* list, enter the *Sub Class, Vendor ID, Protocol*, and *Product ID*, and then click Add. After you reboot your thin client, the name of the new device appears on the *Configuration* tab.

🗹 Tip

You can obtain device *Class*, *Sub Class*, *Protocol*, *Vendor ID*, and *Product ID* information by plugging the device into the USB port of your thin client and viewing the information displayed in the USB Devices tab.

 Allowing or denying a USB device - After you add a USB device, its name appears on the *Configuration* tab. Select or clear a USB device check box to allow or deny its use.

Caution

Use caution when using TCX USB Virtualizer on a terminal server, as allowing use of a USB device is global and not session restricted.

For information on the TCX USB Virtualizer component of Wyse TCX Suite software, refer to "Wyse TCX Suite."

Managing Thin Client Users

Clicking the **Thin Client Users** icon in the *Control Center* opens the **Thin Client Users** dialog box. Use this dialog box to easily view all users (both built-in and those defined through INI files).

Caution

While this dialog box allows you to edit the passwords and automatic login for users of the thin client, you must use central configuration (INI files) to add or delete users beyond the built-in default users provided. In general, it is recommended that you use user.ini files to manage (add, edit, or delete) users for normal use cases. For example, a new user should be created through a user.ini file with the appropriate privilege level defined in the text file.

Thin Client Users (a:	s superuser) 🗙
admin	<u>E</u> dit User
thinuser	
guest	
]
	X Close

To edit a user, select a user, and then click **Edit User** to open and use the **Edit User** dialog box (be sure to click **OK** after your configurations).

👵 Edit Use	er (as superuser) 🛛 🗙
<u>U</u> sername:	guest
Change Passwo	ord
Password:	
Confirm Password:	
<u>A</u> utomatically lo	gin at startup
Autologin <u>D</u> elay	0
	Scancel

🗹 Тір

The **Edit User** dialog box for a user can be a convenient way to change the *Password* and enable automatic login for a specific user.

Setting VNC Server Preferences for Shadowing

Clicking the **VNC Server** icon in the *Control Center* opens the **VNC Server Preferences** dialog box. Use this dialog box to select *Sharing, Security,* and *Notification* VNC Server preferences for use with remote administration. For example, you can set the *Security* password (the password an administrator must use when shadowing the thin client) in this dialog box.

other users t ow other user desktop is on as your comp	each access to	esktop our deskto ver the loc address 1	P cal network. Others can <u>0.100.107.101</u> .
other users t ow other user desktop is on is your comp must confirm	to <u>v</u> iew your de rs to control yo nly reachable o uter using the each access to	esktop our deskto ver the loc address 1	P cal network. Others can <u>0.100.107.101</u> .
ow other user desktop is on ss your comp must confirm	each access to	our deskto wer the loc address 1	cal network. Others can 0.100.107.101.
desktop is on is your comp must confirm	each access to	ver the loc address <u>1</u>	cal network. Others can 0.100.107.101.
nust confirm	each access to	address <u>1</u>	<u>0. 100. 107. 101</u> .
		o this mad	thine
		o this mad	chine
ire the user to			
	o enter this pas	ssword:	
gure network	automatically	to accept	connections
n Area			
ys display an	icon		
display an icc	on when there i	is someor	ne connected
r display an ic	con		
,			💥 <u>C</u> lose
	display an ic	r display an icon	clisplay an icon when there is someor r display an icon

🗹 Тір

For information on shadowing a thin client, see "Administrators Only - Using VNC Viewer for Remote Administration (to Shadow a Thin Client)."

Administrators Only - Using VNC Viewer for Remote Administration (to Shadow a Thin Client)

VNC Server is installed locally on the thin client (see "Setting VNC Server Preferences for Shadowing"). It allows a thin client to be operated/monitored (shadowed) from a remote machine on which *VNC Viewer* is installed (*VNC Viewer* is included as a component of Wyse Device Manager software). This allows a remote administrator to configure or reset a thin client from a remote location rather than making a personal appearance at the thin client site (VNC is intended primarily for support and troubleshooting purposes). The VNC server starts automatically as a service at thin client startup. The service can also be stopped and started by using the *Services* window (opened by clicking **Start > Control Panel > Administrative Tools > Services**).

Before an administrator on a remote machine (on which VNC Viewer is installed) can access a thin client (with the VNC server utility installed) the administrator must know the:

- IP Address (or valid DNS name) of the thin client that is to be operated/monitored (see "Viewing System Information"). To obtain the IP address of an administrator thin client, hover the mouse arrow over the VNC icon in the system tray of the Administrator taskbar.
- Security Password of the thin client that is to be operated/monitored (see "Setting VNC Server Preferences for Shadowing").

To shadow a thin client from a remote machine:

1. Double-click the VNC Viewer icon to open the Connection Details dialog box.



 Enter the IP address or valid DNS name of the thin client that is to be operated/ monitored (shadowed) followed by a colon and 0. For example: snoopy:0

or 132.237.16.238:0

🗹 Tip

You can also click **Options** and configure other settings of the **Connection Details** dialog box (see "Setting VNC Viewer Options").

3. Click OK to open the VNC Authentication dialog box.



4. Enter the Session password of the thin client that is to be shadowed (this is the Security Password of the thin client that is to be shadowed) and click OK. The thin client that is to be operated/monitored will be displayed for the administrator in a separate window on the remote machine. Use the mouse and keyboard on the remote machine to operate the thin client just as you would if you were operating it locally.

Setting VNC Viewer Options

VNC Viewer software is included as a component of Wyse Device Manager software and must be installed on the remote (shadowing) machine. You can configure advanced VNC connection options using the **Connection Options** dialog box. For example, if the network is slow, click **Options** (in the **Connection Details** dialog box of the *VNC Viewer*) to open the **Connection Options** dialog box, select the **Restrict Pixels to 8-bit** check box in the *Display* area (reduces color depth for better transmission speed), and then click **OK** to return to the **Connection Details** dialog box.

Connection Options	×
Preferred encoding Mouse © Tight ZlibHex (mix) © Hextile Zlib (pure) © CoRRE RRE © Raw Track remote cursor locally © Allow CopyRect encoding Track remote cursor locally © Lustom compression levet: 6 6 level (1=fast, 9=best) Allow JPEG compression: 5 6 quality (0=poor, 9=best) Misc View only (inputs ignored) Pieconity on Bell Disable clipboard transfer	3 nouse cursor

Use the following guidelines (options vary for different VNC software releases):

Preferred encoding options - Normally the VNC Viewer requests CopyRect, Hextile, CoRRE and RRE in that order. The selection alters this behavior by specifying the encoding method to be used before any of the others are tried.

Allow CopyRect encoding - When selected, VNC Viewer informs the VNC Server it can cope with CopyRect encoding.

Custom compression level - When selected, you can adjust the overall compression level you want.

Allow JPEG compression - When selected, you can adjust the JPEG compression level you want.

Misc options:

Request shared session - When you make a connection to a VNC Server, all other existing connections are normally closed. This option requests that they be left open, allowing you to share the desktop with someone already using it.

Deiconify on Bell - Often a beep will sound because you are being notified of something such as e-mail arriving or a compilation finishing. This selection causes a minimized VNC Viewer to be restored when the bell character (escape sequence) is received.

Disable clipboard transfer - Clipboard changes caused by cutting or copying at either the VNC Viewer or the VNC Server are normally transferred to the other end. This option disables clipboard transfers.

Mouse options:

Emulate 3 Buttons (with 2-button click) - When selected, users with a two-button mouse can emulate a middle button by clicking both buttons at once. **Swap mouse buttons 2 and 3** - Generally selected by left-handed persons.

• **Display** options:

Restrict pixels to 8-bit (for slow networks) - When selected, reduces color depth for better transmission speed.

View only (inputs ignored) - Select this option if you only want to monitor the desktop of the remote thin client but do not want to operate it using the keyboard and mouse. **Full-screen mode** - Causes the connection to start in full-screen mode.

Scale by - Experimental usage of scaling is provided.

Configuring the WDM Agent

Clicking the **Wyse WDM** icon in the *Control Center* opens the **WDM Agent Configuration** dialog box. Use this dialog box to configure the Wyse Device Manager server location.

🗹 Тір

It is recommended that after configuring, you reboot the thin client.

Wise	WDM Agent 0	Configuration _ ×
	WDM Server:	192.168.0.2
	Client to Server Port:	80
	Secure Port	443
		Cancel

To configure the WDM server location.

- 1. Enter the WDM Server IP address.
- 2. Enter the Client to Sever Port (default, is 80).
- 3. Enter the Secure Port (HTTPS port default is 443).
- 4. Click OK.

5

Using and Configuring Connections with the Connection Manager

This chapter provides information and detailed instructions on using and configuring connections to access the enterprise server environment available to the thin client.



Configurations made in the *Connection Manager* only apply to the thin client you are using. If you want to configure more than one thin client at a time or configure thin clients remotely, Wyse recommends configuring thin client settings using INI files as described in "Automating Thin Client Configurations and Updates."

Clicking the **Connection Manager** icon in the *Computer* menu (see "Using the Computer Menu") or in the *Application Browser* (see "Accessing Applications with the Application Browser") opens the *Connection Manager*. You can use the *Connection Manager* to view, use, and configure connections on the thin client.

*	Connection Manager _ 🗆 🗙
*	Connect to remote applications and configure new connections.
Туре	Connection
۲	browser
2	ica 🗉
- 23	rdp
	ssh
<	III >
	Add
	֎ <u>C</u> ontrol Center

Use the Connection Manager to:

- Add connections (see "Adding Connections Overview")
- Edit connections (select a connection, click **Edit**, and then follow the guidelines for configuring the connection in "Adding Connections Overview")
- Delete connections (select a connection and click Delete)
- Connect to connections (select a connection and click **Connect**)
- Access the Control Center (click Control Center)
- Log off, shut down, suspend, or restart the thin client (click Logout)

🗹 Tip

The *Connection Manager* features a user can access depends on the privilege level (set by the administrator). For example, a low privilege level allows a user to view and use the connections available, but does not allow the user to configure and edit connections.

Adding Connections Overview

Use the following guidelines:

1. In the Connection Manager, click Add to open the Add Connection dialog box.

*	Add Connection								
Define a new conne	action to a remote server.								
Select the type of connection to create									
	BROWSER	0							
	CUSTOM								
	ERICOM_POWERTERM								
	ERICOM_WEBCONNECT								
	ICA								
	RDP	ext <u>S</u> Cancel							
	SSH								
	VMWARE_VIEWCLIENT								
	VNC_VIEWER								
	XDMCP								

- 2. Select the type of connection you want from the list and click Next.
- 3. Configure the connection using the appropriate procedures from the following list:
 - "Adding Mozilla Firefox Browser Connections"
 - "Adding Custom Connections"
 - "Adding Ericom PowerTerm® TEC Connections"
 - "Adding Ericom PowerTerm[®] WebConnect Connections"
 - "Adding ICA Connections"
 - "Adding RDP Connections"
 - "Adding SSH Connections"
 - "Adding VMware View Client Connections"
 - "Adding VNC Viewer Connections"
 - "Adding XDMCP Connections"

Adding Mozilla Firefox Browser Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- 2. Select Browser from the list and click Next to open the Mozilla Firefox Browser Configuration dialog box.

🕹 Mozilla Firefox Browser Configuration 💶 🗆 🗙								
Mozilla Firefox Browser Configuration								
Network Window Auto Reconnect								
Description:								
URL:								
Auto Connect								

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the *Network* tab to configure the description and URL (optional if you want the browser to open to a particular Web page each time you connect). If you want the browser to launch automatically after system startup, select the **Auto Connect** check box.

Window

Use the *Window* tab to configure how the browser window is displayed. If you want the browser to appear without any menus or toolbars, select **Kiosk Mode**. Select the *Window Size* you want from the list.

Auto Reconnect

Use the *Auto Reconnect* tab to enable automatic reconnect after a disconnection (select the **Enable Auto Reconnect** check box, and then select the amount of time to delay the reconnection attempt after a disconnection occurs).

Adding Custom Connections

- 1. In the *Connection Manager*, click **Add** to open the **Add Connection** dialog box.
- 2. Select **Custom** from the list and click **Next** to open the **Custom Connection Configuration** dialog box.

🐉 Custom Connection Configuration 💷 🗆 🗙								
Custom Connection Configuration								
Application Auto Reconnect								
Description:								
Command:								
Run in terminal window								
Auto Connect								

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Application

Use the Application tab to configure:

- **Description** Enter the description.
- Command Line Enter the command line for the program on the server.
- **Run in terminal window** Runs the application in a terminal window (use with applications that require a terminal window such a console program).
- Auto Connect Starts the connection automatically after system startup.

Auto Reconnect

Use the *Auto Reconnect* tab to enable automatic reconnect after a disconnection (select the **Enable Auto Reconnect** check box, and then select the amount of time to delay the reconnection attempt after a disconnection occurs).

Adding Ericom PowerTerm® TEC Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- 2. Select Ericom_PowerTerm from the list and click Next to open the Terminal Emulator Configuration dialog box.

Terminal Emulator Configuration _ 🗆 🗙									
Terminal Emulator Client Settings									
Network Window Connection Setting Remote Configuration View									
Network Connection O Serial Connection									
Description:									
Host: VPort: 23									
Terminal Type: wyse50 \$									
Terminal Name:									
Save Configuration Locally									

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the *Network* tab to configure the network settings:

- Network Connection or Serial Connection Select Network Connection for connections over TCP/IP, or Serial Connection for connections through a serial port.
- **Description** Enter a description for the connection.
- Host Enter a host name or IP Address (or select one from the list). Host can be populated from the global Ericom — PowerTerm[®] TEC connection application.
- **Port** Enter the port of the host.
- Terminal Type Select a terminal type.
- Terminal Name Enter a name for the terminal.
- Save Configuration Locally Saves the font, color, key-mapping and other settings of the Ericom — PowerTerm[®] TEC application locally.

Window

Use the Window tab to select the Window Size you want.

Connection

Use the Connection tab to configure the connection settings:

- Auto Connect Starts the connection automatically after system startup.
- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.
- Auto Reconnect Reconnects automatically after a disconnection occurs.
- **Delay before retrying** Select the amount of time to delay the reconnection attempt after a disconnection occurs.

Setting

Use the *Setting* tab to automatically run script during user logon (enter the script name and path).

Remote Configuration

Use the Remote Configuration tab to configure:

- **Remote Configuration Filename** Enter the remote configuration filename for the connection.
- **Remote Configuration Path** Enter the remote configuration path for the connection.

View

Use the *View* tab to select the items that will appear when using the connection (menu, toolbar, status bar, and buttons).

Adding Ericom PowerTerm® WebConnect Connections

- 1. In the *Connection Manager*, click **Add** to open the **Add Connection** dialog box.
- 2. Select Ericom_Webconnect from the list and click Next to open the Terminal Emulator Configuration dialog box.

5	Ericom - PowerTerm Webconnect _ ×
Ericom	- PowerTerm Webconnect Servers
Description	:
Server	:
Username	
Password	:

3. Use this dialog box to configure the settings you want (**Server** can be a host name or IP Address). After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Adding ICA Connections

🗹 Тір

When using multiple ICA connections, you can use the *ICA Connection Center* to manage the open ICA connections. For more information on using multiple ICA connections, refer to the Wyse Knowledge Base on the Wyse Web site.

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- Select ICA from the list and click Next to open the Citrix ICA Client Settings dialog box.

8	2			Citrix ICA C	lient S	ettings			-		×
	ei	trix ICA Clien	t Settings								
	Network	Connection	Window	Application	Login	Auto Reconnect	Firewall				
			Network I	cription:		Published App HTTP server loca			Refre	sh	
								ncel	4	ж	

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the Network tab to configure the network settings:

- Server or Published Application Select an option for making the connection.
- Description Enter a description for the connection.
- Network Protocol Select a network protocol.
- Browser Server Enter the Browser Server name (this can be a list of server names with each name separated by a semi-colon).

🗹 Tip

You do not need to enter a browser server name if you do not want to connect to either a published application or a server by name. Generating an ICA connection to a server using a server name in the *Server* text box for the connection does not require a *Browser Server* address, as long as the DNS information is properly entered.

 Server or Application Name - Select a server from the Server list or a published application from the Application Name list. If needed, click Refresh to refresh the list of servers or published applications.

VI Tip

You can enter the IP address of the target server as long as there is no need to resolve a name.

Connection

Use the Connection tab to configure the connection settings:

- Enable compression Enables compression.
- Low bandwidth Enables low-bandwidth optimization.
- Enable sound Enables sound.
- **Ping before connect** Pings the connection to see if it is reachable before the connection is attempted.
- Enable Middle Button Paste Enables middle button paste for the mouse.
- Encryption Select an encryption type (default is Basic).

Window

Use the Window tab to select the Window Colors and the Window Size you want.

Application

Use the *Application* tab to enter the command line and Working Directory of the application (if you selected the **Published Application** option on the *Network* tab):

- Command Line Enter the command line for the program on the server.
- Working Directory Enter the working directory for the program.

Login

Use the Login tab to configure credentials used to automatically log in to the server:

- User Name Enter a user name for the connection.
- Password Enter the password.
- **Domain** Enter the domain name.
- Serial Number Enter the serial number for Metaframe environments that require the thin client license serial number.
- Connect automatically after login Enables an automatic connection after successful login to the thin client.

🗹 Tip

The User Name, Password, Domain, and Serial Number fields are optional. If the User Name, Password, and Domain fields are blank, interactive login is required (users must enter the information at login time).

Auto Reconnect

Use the *Auto Reconnect* tab to enable automatic reconnect after a disconnection (select the **Enable Auto Reconnect** check box, and then select the amount of time to delay the reconnection attempt after a disconnection occurs).

Firewall

Use the *Firewall* tab to configure an alternate address for firewalls:

- Automatically detect proxy Select to automatically detect the proxy type.
- Use Alternate Address for Firewalls Select Yes to use an alternate address for firewalls.

- **Proxy Type** Select a proxy type.
- **Proxy Address** and **Port** If you select **Secure (HTTPS)** or **SOCKS** as the *Proxy Type*, you must enter the *Proxy Address* and *Port*.

🗹 Тір

Published applications do not support *Firewall* functions.

Adding RDP Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- 2. Select RDP from the list and click Next to open the Remote Desktop (RDP) Configuration dialog box.

2	Remote Desktop (RDP) Configuration 💷 🗆 🗙										
ء 😪	RDP Client Settings										
Network											
		ing Before Co lotify When D		ed							
							Sance Cancel				

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the *Network* tab to configure the network settings:

- **Description** Enter a description for the connection.
- Server Enter a server name or IP address.
- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.
- Notify When Disconnected Notifies you when the connection is broken.

Connection

Use the Connection tab to configure the connection settings:

- Compression Enables compression.
- NT4 compatible Enables RDP protocol version 4.
- Low bandwidth Enables low-bandwidth optimization.
- Sound Select audio source for the connection (Local or Remote).
- Encryption Level Select an encryption level (Normal or None).

🗹 Тір

For servers with data encryption settings, you must select **Normal** for the encryption level.

Experience

Use the *Experience* tab to configure the experience settings for a user desktop:

- **Grab ALL keyboard events when window has focus** Enables all keyboard events within the connection window to always be sent to the connection's applications.
- Menu and window animation Enables menu and window animation.
- Show contents of window while dragging Shows the window content when the user drags the window on screen.
- **Desktop Background** Displays the desktop background.
- Speed Level Select a speed level to describe the network connection.

🗹 Тір

Consider your network restrictions when you select options on the *Experience* tab. For example, be sure to configure the settings appropriately for your bandwidth level and so on.

Window

Use the Window tab to select the Window Colors and the Window Size you want.

Application

Use the *Application* tab to enter the command line and Working Directory of the application that will run at the beginning of a session:

- Command Line Enter the command line for the program on the server.
- Working Directory Enter the working directory for the program.

Login

Use the Login tab to configure credentials used to automatically log in to the connection:

- User Name Enter a user name for the connection.
- Password Enter the password.
- **Domain** Enter the domain name.
- Use smart card Enables the use of a smart card when connecting.
- **Connect automatically after login** Enables an automatic connection after successful login to the thin client.

🗹 Tip

The Username, Password, and Domain fields are optional. If you leave any of these fields blank, interactive login is required (users must enter the information at login time).

Auto Reconnect

Use the *Auto Reconnect* tab to enable automatic reconnect after a disconnection (select the **Enable Auto Reconnect** check box, and then select the amount of time to delay the reconnection attempt after a disconnection occurs).

Drive Mapping

Use the *Drive Mapping* tab to map share names on the server to USB mass storage devices attached to the thin client, and to view and manage (add, edit, and delete) the list of current server share names (including drive information) mapped on the thin client.

2			Remote D	esktop (RDP		guration		
% =	DP Client Se	ttings						
Network	Connection	Experience	Window	Application	Login	Auto Reconnect	Drive Mapping	Device Mapping
🗆 Redir	ect all USB d	rives to folde	rs in Share	e named 'Wy:	seUSB'			
Share N	ame Drive T	ype Base Pa	th					
						Add	Edit	Delete
								el 🦪 🖉 🖉 🖉

Adding Share Names

1. Click Add to open the RDP Drive Map dialog box.

2	RDP Drive Map 🔔 🗆 🗙
	Share Name:
	Drive Type:
	Base Directory: /
	Sancel Cancel

- 2. Enter a Share Name.
- 3. Select a *Drive Type* (USB Floppy, USB CDROM, USB Disk or Memory Stick, or Local or Mounted Disk).
- 4. (Optional) Enter the directory on the USB device to access in the **Base Directory** text box.
- 5. Click OK to add the Share Name to the list of available Share Names.

Editing and Deleting Share Names

To edit or delete a *Share Name*, select a *Share Name* from the list of available *Share Names* and do one of the following:

- Edit Click Edit and configure the Share Name as described in "Adding Share Names."
- Delete Click Delete to remove the Share Name.

Device Mapping

Use the *Device Mapping* tab to map devices to ports on the thin client, and to view and manage (add and delete) the list of current devices (including device information) mapped on the thin client.

12				esktop (RDP		guration		
ء 🏀	IDP Client Se	ttings						
Network	Connection	Experience	Window	Application	Login	Auto Reconnect	Drive Mapping	Device Mapping
Port D	vard all printer Nevice	5						
٤				III				
							Add	Delete
							S Cance	el 🦪QK

Adding Devices

- 1. Click Add to open the Add Port Mapping dialog box.
- 2. Select a port from the Port list.
- 3. Select the directory of the device to access from the *Device* list.
- 4. Click OK to add the device to the list of available devices.

Deleting Devices

To delete a device, select a device from the list of available devices and click **Delete**.

Adding SSH Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- 2. Select SSH from the list and click Next to open the SSH Configuration dialog box.

🖶 SSH Config	uration _ 🗆 🗙
SSH Connection Con	figuration
Network Connection	
Description	
Host	
Remote Username:	
Remote Command:	

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the *Network* tab to configure the network settings:

- **Description** Enter a description for the connection.
- Host Enter a host name or IP address.
- Remote Username Enter a username.
- Remote Command Enter the command to execute on the server.

Connection

Use the Connection tab to configure the connection settings:

- Auto Connect Starts the connection automatically after system startup.
- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.
- Auto Reconnect Reconnects automatically after a disconnection occurs.
- **Delay before retrying** Select the amount of time to delay the reconnection attempt after a disconnection occurs.

Adding VMware View Client Connections

Use the following guidelines:

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- 2. Select VMware_ViewClient from the list and click Next to open the VMware View Client Settings dialog box.

9	VMwar	e View	Client Settin	igs	-		×
	ware Viev	v Client	t Connection	Settings			
Network V	Window	Login	Connection				
	Desc	ription: Host: Port:	80	ure Conne nteractive r	,	SL)	
			8	<u>C</u> ancel	49	<u>)</u> K	

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

🗹 Тір

No special client-side configuration is needed to enable PCOIP connections. This is configured on the View broker, and once a user logs in from the client and obtains a list of desktops, they will be presented with an option to choose PCOIP or RDP (based on server settings).

Network

Use the *Network* tab to configure the network settings:

- **Description** Enter a description for the connection.
- Host Enter a host name or IP address.
- Port Enter the port of the host.
- Use Secure Connection (SSL) Select to use an SSL connection.
- Enable interactive mode Enables interactive mode.

Window

Use the Window tab to select a Display size and whether to use full screen on all monitors.

Login

Use the Login tab to configure credentials used to automatically log in to the connection:

- User Name Enter a user name for the connection.
- **Password** Enter the password.
- **Domain Name** Enter the domain name.
- Desktop Enter the desktop name.

Connection

Use the *Connection* tab to configure the connection settings:

- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.
- **Connect automatically after login** Enables an automatic connection after successful login to the thin client.
- Auto Reconnect Reconnects automatically after a disconnection occurs.
- **Delay before retrying** Select the amount of time to delay the reconnection attempt after a disconnection occurs.

Adding VNC Viewer Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- Select VNC_Viewer from the list and click Next to open the VNC Viewer Settings dialog box.

📜 VNC Viewer Settings _ 🗆 🗙
VNC Viewer Connection Settings
Network Connection Window Login
Description:
Host:
Connect to: Display number:
O Port number: 5900
☑ Ping before connect
Scancel Cancel

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the *Network* tab to configure the network settings:

- Description Enter a description for the connection.
- Host Enter a host name or IP address.
- Connect to Select a connection type of either **Display number** (enter the display to connect to on the server) or **Port number** (enter the port to connect to on the server).
- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.

Connection

Use the Connection tab to configure the connection settings:

- Compression Level Select a compression level for encoding.
- Shared Enables or disables a shared connection.
- View Only Blocks mouse and keyboard events for a view-only connection.

Window

Use the Window tab to configure window settings:

- JPEG Quality Specifies the image quality for encoding.
- Full Screen Opens the connection in a full-screen window.
- Color Depth Controls how many colors to display with each on-screen pixel.

Login

Use the Login tab to configure credentials used to automatically log in to the VNC server:

- Password Enter the password to connect to the VNC server.
- **Connect automatically after login** Enables an automatic connection after successful login to the thin client.

Adding XDMCP Connections

- 1. In the Connection Manager, click Add to open the Add Connection dialog box.
- Select XDMCP from the list and click Next to open the XDMCP Client Settings dialog box.

X XDMCP Configuration _ = ×
XDMCP Client Settings
Network Window Connection
Description:
Host:
Connect Style: Query Chooser Broadcast
Connect Program: Xnest Xserver

3. Use this dialog box to configure the settings you want. After configuring the settings you want, click **OK**. The connection appears in the *Connection Manager* and is ready to use.

Network

Use the Network tab to configure the network settings:

- **Description** Enter a description for the connection.
- Host Enter a host name or IP address of an XDMCP server.
- Connect Style Select a connection mode: Query, Chooser, or Broadcast.
- Connect Program Select the program through which the connection is made: Xnest or Xserver.

Window

Use the Window tab to select the Window Colors and the Window Size you want.

Connection

Use the *Connection* tab to configure the connection settings:

- Auto Connect Starts the connection automatically after system startup.
- **Ping Before Connect** Pings the connection to see if it is reachable before the connection is attempted.
- Auto Reconnect Reconnects automatically after a disconnection occurs.
- Delay before retrying Select the amount of time to delay the reconnection attempt after a disconnection occurs.

Chapter 5

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6

Accessing Applications with the Application Browser

This chapter provides detailed information about using the *Application Browser* to access the applications, audio and video, and system features installed on the thin client.



For a list of supported addons you can install, contact Wyse. For information on adding and managing addons, refer to "Automating Thin Client Configurations and Updates" and "Using Novell Add-on Manager."

Clicking **More Applications** in the *Computer* menu (see "Using the Computer Menu") opens the *Application Browser*. You can use the *Application Browser* to access the applications, audio and video, and system features installed on the thin client.



This chapter includes information on:

- "Performing Diagnostics"
- "Managing the Ericom PowerTerm[®] TEC Servers Available for Connections"
- "Configuring Volume Control Settings"
- "Taking Screenshots"
- "Using XTerm"

🗹 Тір

Clicking the **Connection Manager** icon in the *Application Browser* opens the *Connection Manager*. You can use the *Connection Manager* to view, use, and configure connections on the thin client as described in "Using and Configuring Connections with the Connection Manager."

Performing Diagnostics

Clicking the **Diagnostics** icon in the *Application Browser* opens the **Diagnostics** dialog box. Use this dialog box to select and use a diagnostic tool:

- Ping Enter or select a destination from the Destination list and click Ping.
- Trace Route Enter or select a destination from the *Destination* list and click Trace Route (diagnostic information appears on the *Trace Route* tab).
- **Temporary Settings** View the temporary settings of the thin client.
- Permanent Settings View the permanent settings of the thin client.
- wlx.ini/wnos.ini View the wlx.ini or wnos.ini file as copied to the thin client.
- user.ini View the user.ini file as copied to the thin client.

6							o x
		Diagnostics					
	Ping	Trace Route	Temporary Settings	Permanent Settings	wlx.ini/wnos.ini	user.ini	
		Desti	nation: localhost		✓ Ping □	IPv6	

Managing the Ericom PowerTerm® TEC Servers Available for Connections

Clicking the **Ericom PowerTerm** icon in the *Application Browser* opens the **Ericom PowerTerm Terminal Emulation** dialog box. Use this dialog box to view and manage (add and delete) the list of servers that are presented when an Ericom PowerTerm[®] TEC connection is being configured for thin client access to network resources as described in "Adding Ericom PowerTerm[®] TEC Connections."

	Ericom - PowerTerm (R) Terminal Emulation	-		×
	Ericom - PowerTerm (R) Terminal Emulation Serve	rs		
Hostna	ne			
	Add	Delet	0	1
	<u> </u>	20101	0	J

Use the following guidelines:

- Adding a hostname Click Add to open the Add host dialog box, enter a Hostname, and then click OK. The hostname is added to the Hostname list.
- **Deleting a hostname** Select a hostname and click **Delete**. The hostname is removed from the *Hostname* list.

Configuring Volume Control Settings

Clicking the **Volume Control** icon in the *Application Browser* opens the **Volume Control** dialog box. Use this dialog box to select *Playback* (system sounds), *Recording* (application recording sounds), *Output Devices* (left and right sounds), *Input Devices* (left and right sounds), and *Configuration* (profile) volume preferences. You can use the *Show* list on the *Playback*, *Recording*, *Output Devices*, and *Input Devices* tabs to select which items you want shown.

4					_ = >
Playback	<u>R</u> ecording	Qutput Devices	Input Devices	<u>C</u> onfiguration	on
∭ ⊦	IDA ATI SB	Analog Stereo		48	
Port:	Analog Spe	akers			\$
Front	Left				54%
Front	Right	Silence		Max	54%
		SI	ow: All Outpu	t Devices	0

🗹 Тір

For these settings to take effect, sound must be supported and enabled on the server used for ICA connections, RDP connections, or MPlayer. Sound requires significant bandwidth that may not be available on some WAN and dial-up connections.

Taking Screenshots

Clicking the **Take Screenshot** icon in the *Application Browser* opens the **Take Screenshot** dialog box. Use this dialog box to select screenshot preferences and effects (for example, entire desktop with pointer, current window with a border, or a selected area). After setting your preferences, click **Take Screenshot** to take the screenshot and open the **Save Screenshot** dialog box allowing you to name and save the file.

Ò		
Take Sci	reenshot	
	Grab the whole desktop	
	○ Grab the current <u>w</u> indow	
	Grab <u>a</u> fter a delay of 4 🗘 seconds	
Effects		
🖌 Inc	lude <u>p</u> ointer	
🗹 Inc	lude the window border	
Apply e	effect: None	
	<u>Help</u>	

Using XTerm

Clicking the **XTerm** icon in the *Application Browser* opens the terminal emulator window for X (XTerm is the standard terminal emulator for the X Window System). XTerm allows you access to a text terminal and all its applications such as command line interfaces (CLI) and text user interface applications. You can click the *Window menu* (upper left icon) to open and use the XTerm menu. You can type **help** and press **Enter** to have XTerm display a verbose message describing its options.

admin@LWT001e33207836:~		×
admin@LWT001e33207836:~>		

Tables

- Window-related Shortcut Keys 5 DHCP Option Tags 15 1
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Administrators Guide

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