

# Winterm™ 5000 Series Linux®-based Terminal Quick Reference Guide

Issue: 101703



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# **Winterm™ 5000 Series Linux®-based Terminal Quick Reference Guide**

**Issue: 101703**

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Wyse Technology Inc.  
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## Ordering Information

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 <http://www.wyse.com>. 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 (refer to "Terminal Requirements Compliance"), 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.



### Caution

Changes or modifications not covered in this manual must be approved in writing by the manufacturer's Regulatory Engineering department. Changes or modifications made without written approval may void the user's authority to operate the equipment.

## Terminal Requirements Compliance

### FCC Compliance

The models 5125SE and 5455XL terminals meet Class B requirements.

### IEC/EN Compliance

The models 5125SE and 5455XL terminals meet Class B requirements.

## Canadian DOC Notices

Refer to the previous section, "Terminal Requirements Compliance," to find out to which terminal model each of the statements below refers.

### 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 Règlement 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 Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

## IEC/EN Notice

These products conform to the requirements of IEC950 and EN60950.

These products conform to requirements of EN55022 for Class A equipment or EN55022 for Class B equipment (refer to "Terminal Requirements Compliance").



### Caution

For use with supplied power adaptor. Replace only with the same or equivalent type as recommended by the manufacturer.

## Model 5125SE Terminal

For use with External Power Supply DVE Model DSA-0421S-12 3 30 or certified equivalent model supplied by the manufacturer.

## Model 5455XL Terminal

For use with External Power Supply Li Shin Model LSE9802A1255 or certified equivalent model supplied by the manufacturer.

## Battery Information

The 5455XL terminal contains a replaceable battery.



### 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.

## Noise Suppressor

A noise suppressor (ferrite bead) must be installed on the network cable of your terminal. This installation is necessary to maintain compliance with U.S. FCC B limits and European CISPR B EN55022 Class B limits. The noise suppressor is supplied by the manufacturer and is packed in your terminal's shipping carton.

### **Cable Notice**

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may cause interference and violate FCC and international regulations for electromagnetic interference.



# Contents

## 1 Introduction

- About this Guide 1
  - Organization of this Guide 1
- Important Safeguards 2
- Wyse Technical Support 3
  - Contacting Wyse 3
    - Technical Support and Answerline & Customer Assistance Center 3
    - General Inquiries 3
    - Wyse Technology Inc. 3

## 2 Using Your Winterm Terminal

- Model Summary 5
  - Model 5125SE 6
  - Model 5455XL 7
- Mounting and Connecting the Terminal 8
- Logging On and Off, and Shutting Down the Terminal 8
  - Shutting Down 9
- Getting to Know the Winterm Terminal's Desktop 9
  - Taskbar 9
  - Launcherbar 10
    - Adding and Removing Launcherbar Entries 10
- Mouse Techniques 11
- Virtual Desktops 11
- Controlling Your Windows 11
  - Moving a Window 11
  - Resizing a Window 12
  - Maximizing a Window 12
  - Minimizing a Window 12
  - Sticking a Window 12
  - Closing a Window 12
  - Switching Between Windows 12
- Using the Secure Shell (Terminal Applications) 13
- Using the Sound Mixer for ICA Connections (Terminal Applications) 13

## 3 Administrator Responsibilities

- About Using Winterm Setup 15
  - Running Winterm Setup from the Terminal 15
  - Running Winterm Setup from a Remote Computer 16
- Viewing Terminal Information 16
  - Terminal System Information 16
  - System Time 17
  - Winterm Terminal Configuration 17
- Configuring Your Terminal Using Winterm Setup 17

- Logging-in to the Winterm Setup Page 18
- Changing the System Date and Time 18
- Updating the System 19
- Configuring the Winterm Terminal Settings 19
- Configuring Applications 19
  - ICA6 Client Settings (ICA Connection) 20
  - teemX Settings 20
    - TCP/IP Connection Guidelines 20
    - Serial Connection Guidelines 21
    - Printing Connection Guidelines 22
  - User Applications 22
  - Secure Shell Client Settings 23
  - RWin Client Settings (RDP Connection) 24
- Configuring Terminal Printer Settings 25
  - LP Daemon 25
  - Ghostscript 25
    - Ghostscript Guidelines 26
- Configuring Network Settings 26
  - Network 26
  - Wireless LAN 28
  - Ethernet 28
  - Samba 29
  - NFS Settings 30
- Changing Terminal Display Settings 31
  - Setting the General Display Options 31
  - Setting the XDMCP 33
  - Configuring Font Settings 34
  - Setting the Display Resolution 35
  - Setting the Screen Saver 35
  - Configuring Display Power Management Signaling (DPMS) 35
- Configuring the General Settings 36
  - Setting Autostart 36
  - Setting Security Settings 37
  - Setting the System Update 38
  - Setting Time Settings 39
  - Changing the Terminal Language Settings 39
  - Configuring the Terminal Hardware Settings 39

**List of Figures**

- 1 Model 5125SE Terminal 6
- 2 Model 5455XL Terminal 7
- 3-1 Terminal CPU Information 16
- 3-2 Terminal Memory Information 16
- 3-3 Terminal Network Information 17
- 3-4 System Date 17
- 3-5 System Time 17
- 3-6 System Date 18
- 3-7 System Time 18
- 3-8 Session Terminal 23
- 3-9 User\_apps mode 23
- 3-10 Default Nameserver 27
- 3-11 Domain Searchlist 27
- 3-12 Launcherbar location 32
- 3-13 Additional X-Server options 33
- 3-14 Resolution 34



# 1

## Introduction

Winterm™ 5000 Series terminals use the Linux® embedded operating system. These terminals provide thin-client access to applications, files, and network resources made available on machines hosting Citrix ICA and Microsoft RDP session services. Only the keyboard, mouse, audio/video, and display data are transmitted over the network between the terminals and session servers.

Terminal emulation software can be installed locally on special order. Other locally installed software permits remote administration of the terminals and provides local maintenance functions.

Winterm™ 5000 Series Linux®-based terminals currently include the Models 5125SE and 5455XL.

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### About this Guide

This quick reference guide is intended for Users and Administrators of the Winterm™ 5000 Series Linux®-based Terminals (models 5125SE and 5455XL). The guide explains how to use the terminals of the 5000 series and is divided into chapters that address user information and administrator responsibilities.

### Organization of this Guide

This guide is organized as follows:

- Chapter 2, "Using Your Winterm Terminal," provides model summaries and information on using and working with your Winterm™ 5000 Series Linux®-based terminal.
- Chapter 3, "Administrator Responsibilities," provides information to be used as a reference to accomplish the following administrator responsibilities:
  - "Viewing Terminal Information" on page 16
  - "Configuring Your Terminal Using Winterm Setup" on page 17
  - "Configuring Applications" on page 19
  - "Configuring Terminal Printer Settings" on page 25
  - "Configuring Network Settings" on page 26
  - "Changing Terminal Display Settings" on page 31
  - "Configuring the General Settings" on page 36

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## Important Safeguards

Please adhere to the following important safeguards:

- Please read all instructions thoroughly before operating your Winterm terminal.
- Always unplug your terminal from the wall outlet before cleaning.
- Do not use liquid cleaners or aerosol cleaners.
- Use a damp cloth for cleaning.
- Use only manufacturer-approved peripherals and attachments. Unapproved peripherals and attachments may be hazardous to system operation.
- Do not use this Winterm terminal near water.
- Do not place this Winterm terminal on an unstable cart, stand, or table. The Winterm terminal may fall, causing serious personal injury as well as damage to the appliance. Use only with a stand recommended by the manufacturer.
- Slots and openings in the Winterm terminal case are provided for ventilation. To ensure reliable operation of the Winterm terminal and to protect it from overheating, do not block or cover these openings. Never place the Winterm terminal near or over a radiator or other heat source. Also, do not place your Winterm terminal in a built-in installation, such as a bookcase or shelf, unless proper ventilation is provided.
- Operate your Winterm terminal only from the power source type indicated on the label. If you are not sure of the type of power supplied in your home or office, please consult your value added reseller (VAR) or local power company.
- The Winterm terminal is equipped with a three-wire grounding plug, which is a common plug type that incorporates a third pin for grounding (U.S. shipments only). This plug only fits into a grounding-type power outlet, which contains three receptacles. This design provides added safety. If you are unable to insert the plug into the outlet, contact your electrician to replace your outlet.
- Do not remove the grounding prong under any circumstances.
- Do not allow anything to rest on the power cord. Locate your Winterm terminal such that the power cord is protected from traffic.
- Follow all warnings and instructions listed on the Winterm terminal.
- To protect your Winterm terminal from power surges, unplug it from the wall outlet when not in use for long periods. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- Never push objects of any kind into your Winterm terminal case slots. Foreign objects can damage the Winterm terminal and may result in fire or electric shock.
- In the event any liquid is spilled on the unit, immediately unplug the external power supply at the wall outlet. If any liquid has penetrated openings in the unit, contact your hardware service provider before you attempt to apply power to the unit again.
- Do not attempt to service your Winterm terminal yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Unplug the Winterm terminal from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - When the power cord or plug is damaged or frayed.
  - If liquid has been spilled into the Winterm terminal.
  - If the Winterm terminal has been exposed to water.
  - If the Winterm terminal does not operate normally when the operating instructions are followed. (Adjust only those controls that are covered by the operating

instructions. Improper adjustment of other controls may result in damage to this Winterm terminal.)

- If the Winterm terminal is dropped or the case is damaged.
- When the Winterm terminal exhibits a distinct change in performance and servicing is required.
- When replacement parts are required, be sure the service technician uses replacement parts approved by the manufacturer. Use of unauthorized replacement parts may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to your Winterm terminal, ask the service technician to perform routine safety checks to ensure the Winterm terminal is in safe operating condition.

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## Wyse Technical Support

If you have a question regarding Wyse Winterm™ 5000 Series Linux®-based terminals, refer to the table of contents or index of this guide to locate the information you are seeking. If the information does not appear in this guide, refer to Wyse support at: <http://www.askwyse.com>.

### Contacting Wyse

Please contact your system administrator or reseller first for any technical support issues.

### Technical Support and Answerline & Customer Assistance Center

(800) 800-WYSE (9973) toll free in U.S. and Canada or (408) 435-2770

### General Inquiries

E-mail: [info@wyse.com](mailto:info@wyse.com)

(800) GET-WYSE (438-9973) toll free in U.S. and Canada or (408) 473-1200

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# 2

## Using Your Winterm Terminal

After power-on, the terminal initially goes through several boot sequence procedures. When the operating system is successfully loaded from the flash memory, the desktop is displayed and you can start using your Winterm terminal.

---

### Model Summary



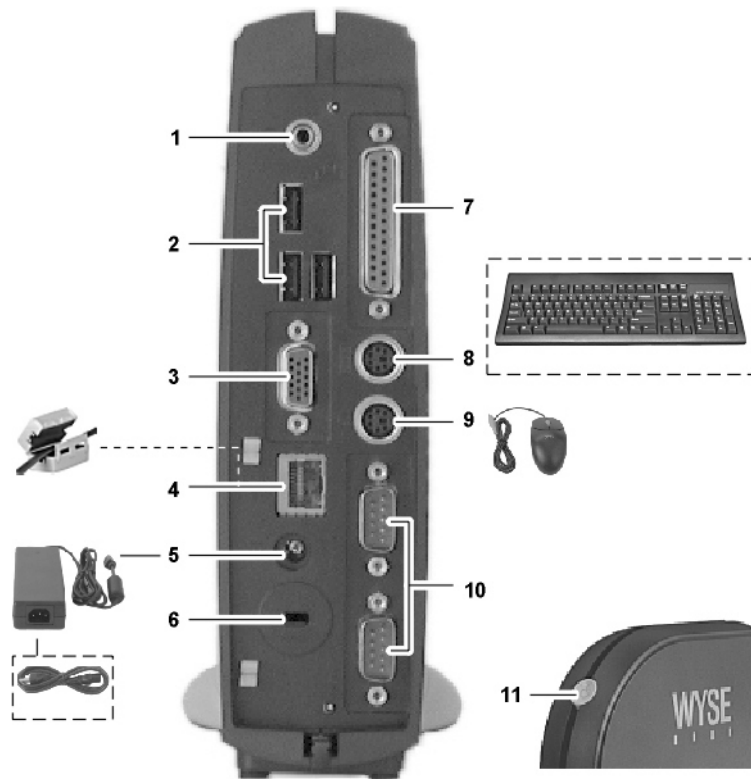
#### Note

Terminal data sheets, the product registration form, and information about Rapport Administrative Software are available through the Wyse Web site at: <http://www.wyse.com>.

## Model 5125SE

Model 5125SE is a small-footprint, modular Linux-based terminal (see Figure 1). The connections for power, network, monitor, keyboard, mouse, serial and parallel devices, and USB peripherals are on the back panel of the terminal. The power push-button switch is located on the front of the terminal.

**Figure 1 Model 5125SE Terminal**



- |                                    |                                |
|------------------------------------|--------------------------------|
| 1 Speaker out                      | 7 Parallel port                |
| 2 USB port (3)                     | 8 PS/2-type keyboard interface |
| 3 Monitor interface                | 9 PS/2-type mouse interface    |
| 4 Network connection, 10/100Base-T | 10 Serial port (2)             |
| 5 +12V Power cable interface       | 11 Power button                |
| 6 Lock                             |                                |

The 5125SE has two LED indicators on the back of the unit next to the RJ-45 LAN port (Network connector). The Green LED is a Dual Link/Activity Indicator, and the Yellow LED is a Speed Indicator. The blinking sequence (or absence) of these LEDs indicates the condition of the LAN connection.

- Green LED On—Link, but no Activity
- Green LED Blinking—Link with Activity
- Green LED Off—No Link
- Yellow LED On—100Mb
- Yellow LED Off—10Mb or no Link

## Model 5455XL

Model 5455XL is a modular Linux-based terminal with a rugged metal chassis (see Figure 2) that can be mounted vertically or horizontally. The connections for power, network, keyboard, mouse, serial and parallel devices, and USB ports are on the back panel of the terminal. The rear panel contains an access slot for an optional PCI expansion card.

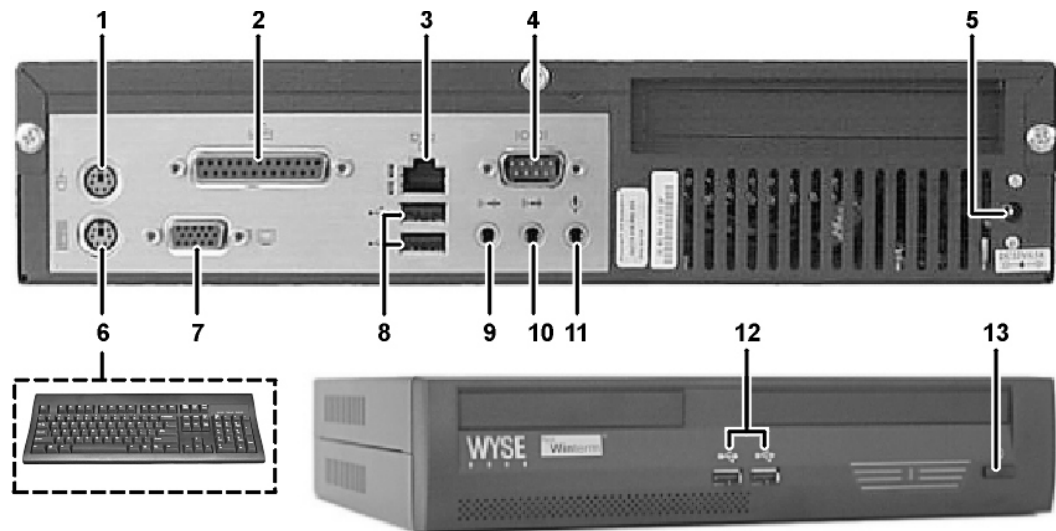


### Note

When the terminal is mounted vertically, the power button should be at the top of the terminal.

The power push-button is located on the front of the terminal. The front of the terminal contains two additional USB ports.

**Figure 2 Model 5455XL Terminal**



- |                                    |                 |
|------------------------------------|-----------------|
| 1 PS/2-type mouse interface        | 8 USB port (2)  |
| 2 Parallel port                    | 9 Speaker out   |
| 3 Network connection, 10/100Base-T | 10 Line in      |
| 4 Serial port                      | 11 Microphone   |
| 5 +12V Power cable interface       | 12 USB port (2) |
| 6 PS/2-type keyboard interface     | 13 Power button |
| 7 Monitor interface                |                 |

The 5455XL has two LED indicators on the back of the unit next to the RJ-45 LAN port (Network connector). The Green LED is a Dual Link/Activity Indicator, and the Yellow LED is a Speed Indicator. The blinking sequence (or absence) of these LEDs indicates the condition of the LAN connection.

- Green LED On—Link, but no Activity
- Green LED Blinking—Link with Activity
- Green LED Off—No Link
- Yellow LED On—100Mb
- Yellow LED Off—10Mb or no Link

---

## Mounting and Connecting the Terminal

The Quick Start Guide (included in the shipping carton) provides instructions for mounting and connecting the terminal. The terminal can be placed on a desktop, or it can be mounted on a wall using an optional wall-mount bracket available from Wyse Technology.

---

 **Caution**

Mount and connect the terminal only as directed in the Quick Start Guide (and in the wall-mount bracket instructions, if used). Be sure that there is sufficient space around the terminal for ventilation. **Follow all precautions listed in the Quick Start Guide.**

If included in the shipping carton, the following items should be used with terminal installation:

- Keyboard and mouse (may or may not be included)
- Power cord (may or may not be included)
- Power supply
- Noise suppressor (ferrite bead)
- Desktop mounting stand (if required)
- Quick Start Guide

---

 **Caution**

To ensure regulatory compliance, use only the power supply included in the shipping carton, or a Wyse-approved equivalent, with the terminal. The noise suppressor (ferrite bead) included in the box with the terminal must be installed on the network cable as described in the accompanying instructions (for details, refer to the regulatory notices in the front matter of this document).

---

## Logging On and Off, and Shutting Down the Terminal

After power-on, the terminal initially goes through several boot sequence procedures (you can press the Escape key to by-pass the network boot-up sequence). When the operating system is successfully loaded from the flash memory, the desktop is displayed. In the lower-left of the display window, click **Winterm** to open the Winterm terminal standard menu. You can select **Winterm | System | Winterm Setup** to configure your terminal. The administrator account is **root** with the password **wyse** (both are case sensitive).

If you have a custom build from Wyse, the default login mechanisms and passwords may be different from the default values listed. Consult the release documentation for your custom build or your Wyse Sales Engineer for the proper values if they do not match the default values listed.

---

 **Caution**

It is strongly advised that all passwords be changed immediately upon configuring the terminal for use.

## Shutting Down

To shut down the system, click **Winterm | System | Power Off** and confirm by clicking **Yes**.



### Caution

When turning off the terminal, be sure to perform a complete shutdown (via the user interface or power button). Do not disconnect the AC power cord or shut off power at a circuit breaker, etc., to turn off the terminal.

---

## Getting to Know the Winterm Terminal's Desktop

The Winterm terminal's desktop refers to the display area used by graphical applications to display windows.



### Note

The desktop of the Winterm 5000 series terminal is blank after the initial power-up of the system.

To become familiar with the Winterm terminal's desktop, review the following areas:

- "Taskbar"
- "Launcherbar" on page 10



### Note

You can move the mouse pointer over an icon and wait for a short while and the built-in, context-sensitive help (called Tooltip) is displayed.

## Taskbar

The bar that appears at the bottom of the desktop window is the taskbar. It is always displayed at the bottom of the desktop. The taskbar is used to start applications from the main menu, to switch between running applications, and to toggle between desktops.

The main menu (the main application starter) is the button on the left side of the taskbar labeled **Winterm**. You can click **Winterm** to open the main menu and select an application. The icon to the right of the main menu is the virtual desktop Window list icon. By hovering the mouse pointer over Window list icon you can see which desktop is currently showing. When you click on the Window list icon, you can select the desktop you want to use by clicking on it.

By default, the IP address is shown on the right side of the taskbar. Displaying the IP address is a configurable item (administrators see "Setting the General Display Options" on page 31).

By default, the current system time is shown on the right side of the taskbar. Model 5125SE, shows the time (in UTC) as reported by a Network Time Protocol (NTP) server if one is available. If an NTP server is not available, the OS assumes midnight (00:00) when the unit is powered on since Model 5125SE has no clock battery. Model 5455XL shows the current time (in UTC) as stored in the RTC if no NTP server is available or as reported

by an NTP server if one is available. Administrators can manually set the time as described in “Changing the System Date and Time” on page 18.

**Note**

Since Model 5125SE does not have a battery backed up RTC, it will keep the time until power is removed. However, Model 5455XL has a battery backed up RTC and will show time based on the last set time, even after power has been removed and restored.

As a default setting, the taskbar will always be displayed within the visible area. However, the taskbar can be paged out of the desktop and hidden outside the visible display area. This mode is referred to as Smart Mode. Hiding the taskbar outside the visible screen area when not used provides a greater desktop area for the display of application windows. To display the taskbar when in Smart Mode, move the mouse pointer towards the bottom edge of the desktop. After clicking on an item, the selected application is started and the taskbar will hide again outside the visible section. Administrators can enable Smart Mode as described in “Setting the General Display Options” on page 31.

**Note**

You can also configure whether or not to have the clock displayed in the taskbar (administrators see “Setting the General Display Options” on page 31).

## Launcherbar

The Launcherbar (usually displayed on the right side of the desktop) contains a selection of applications for easy access. As a default setting, the Launcherbar (also known as Application Launcher) is paged out of the desktop and hidden outside the visible display area (Smart Mode). Hiding the Launcherbar outside the visible screen area when not used provides a greater desktop area for the display of application windows. To display the Launcherbar, move the mouse pointer towards the right edge of the desktop. After clicking on an item, the selected application is started and the Launcherbar will hide again outside the visible section. You can disable Smart Mode (administrators see “Setting the General Display Options” on page 31). The Launcherbar will then always be displayed within the visible area.

You can position the Launcherbar to the top or left side of the screen (administrators see “Setting the General Display Options” on page 31).

## Adding and Removing Launcherbar Entries

Although there are no Launcherbar entries by default, you can add and delete Launcherbar entries by following these guidelines:

- **To add an entry:** Right-click within an empty region of the Launcherbar to display the Add Entry menu, and select an item from the list to be added to the Launcherbar.
- **To delete an entry:** Right-click on the entry and select Delete from the menu.

---

## Mouse Techniques

Operating systems with graphical user interfaces make frequent use of the mouse to start programs, close, minimize, restore, or resize windows.

Use your mouse to do the following:

- Left-clicking on the border, causes the title bar or the window content area to activate and raise the window to the top of all windows.
- Right-clicking on the title bar displays the window's menu if the window is active, otherwise right-clicking will activate the window.
- Dragging the title bar moves the window.
- Dragging on corners or edges resizes the window.
- Clicking on the close icon in the window title bar (X) closes the application and the window.
- Clicking on the Sticky icon toggles the window's sticky state.
- Left-clicking on the Maximize button maximizes the window.
- Middle-clicking (depressing and releasing the wheel on the mouse) on the Maximize button maximizes the window vertically.
- Right-clicking on the Maximize button maximizes the window horizontally.

---

## Virtual Desktops

Up to ten desktops can be configured in Setup to extend the display area. You can easily switch between desktops by clicking on **Window list** on the taskbar to display a selection of desktops and the active windows within these desktops that you can select, or by using **Ctrl + Alt + →** to toggle forward or **Ctrl + Alt + ←** to toggle backward through the desktops one by one. Please note that switching from the last desktop to the first using Ctrl + Alt and the left or right arrow requires that you follow the progression (for example, 4 to 3 to 2 to 1).



### Note

If you want a window to be present on all desktops all the time, refer to the procedures in "Sticking a Window" on page 12.

---

## Controlling Your Windows

You can control the size and position of your windows, so that you can easily see the information you want to view.

### Moving a Window

Drag the window's title bar. To do this, move the mouse pointer over the title bar, click the left mouse button and hold this button while moving the mouse pointer.

## Resizing a Window

Drag the window's borders. To do this, move the mouse pointer over a border or the corner of the window, then hold down the left mouse button while moving the mouse.

## Maximizing a Window

Click the Maximize button (□) to maximize the window to fill the screen, or if the window is already maximized, to shrink the window back to its original size. Clicking the Maximize button with the middle mouse button will maximize the window vertically; clicking the Maximize button with the right mouse button will maximize the window horizontally.

## Minimizing a Window

Click the Minimize button (◇) to hide the window. A placeholder for the window will still be displayed in the taskbar. Click on this placeholder to restore the window to its original size.

## Sticking a Window

If you want a window to be present on all desktops all the time, click the **Stick** icon (O) in the window title bar or right-click in the window title bar and click **Stick** from the menu. The window will appear on all desktops in the same position.



### Note

To remove a window that is present on all four desktops all the time, click the **Unstick** icon in the window title bar or right-click in the window title bar and click **Unstick** from the menu.

## Closing a Window

Clicking the close icon (X) closes the current window.

## Switching Between Windows

You can have several windows open at the same time and switch between them in the following ways:

- Use **Alt + Tab** (press and hold down the Alt key and then press the Tab key) to toggle through active windows which are not minimized.
- Use the taskbar, and click on the window title for the window to be displayed; for example, to be brought to the front or be restored from an minimized state.
- Click on the title bar of a window to bring it to the front and make it the active window for user input.

---

## Using the Secure Shell (Terminal Applications)

Up to 100 secure shell sessions can be configured (administrators see “Secure Shell Client Settings” on page 23). Select an entry from the menu to start this application on a remote Unix host using a secure shell (ssh) initiation method.

**Note**

Although the maximum number of secure shell sessions is 100, the menu system may become crowded after about 20 sessions.

---

## Using the Sound Mixer for ICA Connections (Terminal Applications)

Use the Sound Mixer application (ICA connections only) to select the volume level for different sound sources. Click **Winterm | System | Sound Mixer** to open the Sound Mixer window and use the slide bars to adjust the volume level for the appropriate sound source. Sound must be enabled for these settings to take effect (user must enable sound, and the ICA server must support and be configured for sound). Sound is not supported for RDP connections.

**Note**

The mixer bars (when viewed in the mixer window from left to right) are for master volume, line-out, speaker output, line-in, and CD audio. Model 5125SE supports master volume and line-out only. Model 5455XL supports master volume, line-out, and line-in by default.

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# 3

## Administrator Responsibilities

This chapter provides information to be used as a reference to accomplish the following administrator responsibilities:

- “Viewing Terminal Information” on page 16
- “Configuring Your Terminal Using Winterm Setup” on page 17
- “Configuring Applications” on page 19
- “Configuring Terminal Printer Settings” on page 25
- “Configuring Network Settings” on page 26
- “Changing Terminal Display Settings” on page 31
- “Configuring the General Settings” on page 36

---

### About Using Winterm Setup

Winterm Setup allows you to view and set up system settings and configure applications on the terminal. You have the option to either run Winterm Setup directly from the terminal, or you can access Winterm Setup from a remote computer using a Web browser (for example, Netscape Navigator). Although Winterm Setup allows you to view various system and application information without logging in, you must log-in to set up or change your system settings and configure your applications.



#### Note

You can also run the Parameter Manager to set up your system settings. To run the Parameter Manager, click **Winterm | User Applications | Local Shell**, type **pman**, and press the Enter key to open a window providing a text-oriented configuration interface.

### Running Winterm Setup from the Terminal

To start Winterm Setup from the terminal, complete the following procedures:

1. Click **Winterm** in the taskbar.
2. Click **System**.
3. Click **Winterm Setup**.

The Netscape: Winterm Setup page is displayed.

## Running Winterm Setup from a Remote Computer

To start Winterm Setup from a remote computer, complete the following procedures:

1. Start the Web browser on the remote computer.
2. Type the terminal's IP address or a Fully Qualified Domain Name (FQDN) in the Web browser's address field.
3. Press **Enter** on the keyboard.

The Winterm Setup page is displayed in the Web browser.

---

## Viewing Terminal Information

Winterm Setup allows you to view the following system and application information without logging in:

- "Terminal System Information"
- "System Time" on page 17
- "Winterm Terminal Configuration" on page 17

### Terminal System Information

You can view the terminal system information by clicking **System Information** on the Winterm Setup page. The terminal's CPU, Memory, and Network information are displayed (see Figures 3-1 through 3-3 for examples).

**Figure 3-1 Terminal CPU Information**



**Figure 3-2 Terminal Memory Information**



**Figure 3-3 Terminal Network Information**

## System Time

You can view the terminal system date and time by clicking **System Time** on the Winterm Setup page. The terminal's system date and time are displayed as shown in Figures 3-4 and 3-5.

**Figure 3-4 System Date**

Month	Day	Year
12	12	2001

**Figure 3-5 System Time**

Hours	Minutes
11	4

## Winterm Terminal Configuration

You can view the Winterm terminal configuration by clicking **Winterm Configuration** on the Winterm Setup page. A menu of options from which you can select to view information is displayed including Applications, Printer, Network, Display, and General.

---

## Configuring Your Terminal Using Winterm Setup

After accessing Winterm Setup directly from the terminal or from a remote computer, you can configure your terminal. Specifically, Winterm Setup allows:

- “Logging-in to the Winterm Setup Page” on page 18
- “Changing the System Date and Time” on page 18
- “Updating the System” on page 19
- “Configuring the Winterm Terminal Settings” on page 19

## Logging-in to the Winterm Setup Page

Before you can modify the system, you must first log-in to the Winterm Setup page.

To log-in to the Winterm Setup page, complete the following procedures:

1. From the Winterm Setup page, click **Log in**.

The Winterm Setup Login page is displayed.

2. Type your user name in the User Name text box and your password in the Password text box.



### Note

The default user name is **root** and the default password is **wyse**. Both the user name and password are case sensitive. It is highly recommended you change all passwords using the Security Setup option (see “Setting Security Settings” on page 37).

3. Click **Start**.
4. Click **Continue Submission**.

The Winterm Setup page is displayed and you can modify the system.

## Changing the System Date and Time

After logging-in, you can change the terminal's displayed date and time.

To change the terminal's system date and time, complete the following procedures:

1. Click **System Time** from the Winterm Setup page.

The terminal's system date and time are displayed as shown in Figures 3-6 and 3-7.

**Figure 3-6 System Date**

Month	Day	Year
12	12	2001

**Figure 3-7 System Time**

Hours	Minutes
11	4

2. Click **Set System Clock**.
3. Change the date or time by highlighting the number you want to change and typing in the new number.
4. Click **Set System Clock** to exit and save the changes.

## Updating the System

After logging-in, you can use the System Update option to update the terminal's OS in cases where you do not have access to Rapport Administrative Software. The System Update option allows you to connect to and begin the download process of the Linux BCL files needed to update the OS on your terminal. To update your terminal's OS using System Update, click **Update** from the Winterm Setup page.



### Note

BCL updates can only be provided by Wyse Technology; you cannot generate these files.

Using BCL updates does not allow for updating /wfs, /swfs, BIOS, or CMOS as can be done with Rapport.

Using BCL updates only works when updating from one version to another (such as version 3.00 to version 3.01). Overwriting an existing image with a different image with the same or older version than the one currently on a terminal will not work with BCL update (although this will work with Rapport).

For more information on configuring access to a Linux FTP server that contains the required BCL files needed to update your terminal's OS, refer to "Setting the System Update" on page 38.

## Configuring the Winterm Terminal Settings

After logging-in, you can access and change Winterm terminal configuration settings (including Applications, Printer, Network, Display, and General). Through the Winterm Config Service page you can configure a terminal's setup to meet specific user requirements.

To open the Winterm Config Service page, click **Winterm Configuration** in the Winterm Setup page. You can then select a terminal setup option listed in the Winterm Config Service page to open that option and make configuration changes.

Depending on the terminal configuration changes you want to make, use the appropriate guidelines and procedures from the following list to configure your settings:

- "Configuring Applications"
- "Configuring Terminal Printer Settings" on page 25
- "Configuring Network Settings" on page 26
- "Changing Terminal Display Settings" on page 31
- "Configuring the General Settings" on page 36

---

## Configuring Applications

Use the following guidelines and procedures to configure the Applications option:

- "ICA6 Client Settings (ICA Connection)" on page 20
- "teemX Settings" on page 20
- "User Applications" on page 22
- "Secure Shell Client Settings" on page 23
- "RWin Client Settings (RDP Connection)" on page 24

## ICA6 Client Settings (ICA Connection)

To configure a new ICA Session on your terminal, complete the following procedures:

1. From the Winterm Config Service page, click **Applications**.
2. Click **ICA6 Client Settings**.
3. Click **ICA sessions**.
4. To start a new session, click **New**, or you can configure an existing ICA session by clicking the session name.
5. Click **Apply**.



### Note

The new ICA session is added to the Winterm terminal's menu on the taskbar.

For detailed information on how to configure your ICA session, refer to the *Citrix® Independent Computing Architecture (ICA) User Guide*.

## teemX Settings

teemX is a connectivity tool for enabling non-X based applications to be run in the X environment. teemX provides emulation of a wide range of terminals with additional features including dynamic window sizing, hot spots, soft buttons, keyboard mapping, mouse button definition, and customizing capabilities.

The menu bar of the teemX window provides access to a series of commands and dialog boxes which enable you to perform various functions and configure teemX for compatibility with your hardware and the application. Three menus are displayed from the menu bar: File, Settings, and Help. To display a menu, click on its title. To select an option in the menu, click the option.

To access and configure the teemX settings on your terminal, use the following guidelines (for detailed information on configuring teemX settings, refer to the *teemX User's Guide*).

## TCP/IP Connection Guidelines

For a TCP/IP connection, use the following guidelines:

1. Click **Winterm | System | Winterm Setup**, and log in using the root account.
2. Click **Winterm Configuration** in the Winterm Setup page.
3. From the Winterm Config Service page, click **Applications | TeemX Settings | TeemX Sessions**.
4. Click **New** to create a new teemX session.

5. Click **New teamX session** and configure your teamX session.  
Be sure to complete the following:
  - Session Description—Provide a name for the session.
  - Session Server—Enter the IP address of the server to which you want to connect.
  - Emulation Type—Select the emulation to use.
  - Other Options—Enter `-mb` to add the menu bar to the session window.
6. After configuring your teamX session, click **Apply**.
7. From the Winterm menu, click **Pericom TeamX** and select your connection.
8. After connecting, you can use the menu bar of the teamX window to configure the teamX settings on your terminal.

## Serial Connection Guidelines

For a serial connection, use the following guidelines:

1. Click **Winterm | System | Winterm Setup**, and log in using the root account.
2. Click **Winterm Configuration** in the Winterm Setup page.
3. From the Winterm Config Service page, click **Applications | TeamX Settings | TeamX Sessions**.
4. Click **New** to create a new teamX session.
5. Click **New teamX session** and configure your teamX session.  
Be sure to complete the following:
  - Session Description—Provide a name for the session.
  - Session Server—Enter the IP address of the server to which you want to connect (this address does not need to be valid).
  - Emulation Type—Select the emulation to use (this type does not need to be valid).
  - Other Options—Enter `-mb` to add the menu bar to the session window.
6. After configuring your teamX session, click **Apply**.
7. From the Winterm menu, run the new session (if you used an invalid IP address, it will take a moment to time out; then click **Cancel**).
8. On the teamX menu bar, click **Settings | Host**.
9. Check the **Use RS232 Port Connection** check box.
10. Modify your Transmit Rate to match the host.
11. Enter the correct device in the Serial Port Device field.



### Note

For Winterm Model 5455XL, use `/dev/ttyS0 (COM1)`.  
For Winterm Model 5125SE, use either `/dev/ttyS0 (COM1)` or `/dev/ttyS1 (COM2)`.

12. Ensure that the necessary cables are plugged in, and click **OK**.
13. After connecting, you can use the menu bar of the teamX window to configure the teamX settings on your terminal.

## Printing Connection Guidelines

For printer connections in teemX, use the following guidelines:

1. After installing and setting up your printer, ensure that your teemX connection is using the `-mb` option so that the menu bar will be shown in the session window (depending on your connection, refer to either “TCP/IP Connection Guidelines” on page 20 or “Serial Connection Guidelines” on page 21 for instructions).
2. Launch the teemX session.
3. On the teemX menu bar, click **File | Printer Setup**.
4. Ensure that the printer driver is set to `lpr` (do not use `lpr -ascii`).
5. Select **Printdirect** from the list of printers available.



### Note

Depending on the printer you installed, you may need to select a different printer entry from the list.

6. On the teemX menu bar, click **File | Print Screen** to begin printing.

## User Applications

You can add and delete user applications in the User Applications menu located on the taskbar. After you add the new application, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To add a new user application, complete the following procedures:

1. From the Winterm Config Service page, click **Applications**.
2. Click **User Applications**.
3. Click **User Apps Sessions**.
4. To start a new session, click **New**, or you can configure an existing session name by clicking the session name.



### Note

To delete a listed session from the User Applications menu located on the taskbar, click the session name and then click **Delete**.

5. Configure the user application settings using the following guidelines:

#### Session Description:

Type the name of the user application in the Session Description text box as you want it displayed in the User Applications Taskbar Main Menu (for example, Netscape Navigator).

#### Session Command:

Type the session command that executes the user application on the terminal in the Session Command text box (for example, start-netscape).

**Session Terminal:**

Select whether or not you want the session to run in a terminal.

**Figure 3-8 Session Terminal**

<u>Default Option:</u>	YES
Other listed options:	NO

**User\_apps mode:**

Select starting the user application in user mode or root mode.

**Figure 3-9 User\_apps mode**

<u>Default Option:</u>	user
Other listed options:	root

## Secure Shell Client Settings

Secure Shell (ssh) is a program used to log-in to another computer over a network, to execute commands in a remote machine, and to move files from one machine to another. It provides strong authentication and secure communications over non-secure channels. It is intended as a replacement for rlogin, rsh, and rcp.

Additionally, ssh provides secure X-connections and secure forwarding of arbitrary TCP-connections. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure your terminal's ssh settings, complete the following procedures:

1. From the Winterm Config Service page, click **Applications**.
2. Click **Secure Shell Client Settings**.
3. Click **Possible sessions**.
4. To start a new ssh connection, click **New**, or you can configure an existing ssh connection by clicking the ssh connection name.

**Note**

To delete a listed ssh connection, click the ssh connection name and then click **Delete**.

5. Configure the ssh connection settings using the following guidelines:

**Symbolic Name:**

Type any name you wish for your ssh connection in the Symbolic name text box. You can specify the server, user, or command in the name by separating the entries with % (for example, SSH Connection%Server%User%Command).

**Note**

If you leave the Symbolic name text box empty, a name for the ssh connection is automatically generated.

**Server:**

Type the name of the session server in the Server text box.

**User Name:**

Type the user name required to access the session on the server in the User Name text box.

**Command:**

Type the session command that is executed on the server in the Command text box.

**Autostart:**

If you want this session to start automatically when the user logs in, then select **Autostart**.

## RWin Client Settings (RDP Connection)

To configure a new RDP Session on your terminal, complete the following procedures:

1. From the Winterm Config Service page, click **Applications**.
2. Click **RWin Client Settings**.
3. Click **RWin sessions**.
4. To start a new RDP Session, click **New**, or you can configure an existing RDP Session by clicking the RDP Session name.

**Note**

To delete a listed RDP Session, click the RDP Session name and then click **Delete**.

5. Configure the RDP session.

**Note**

For detailed information on how to configure your RDP session, refer to the *Microsoft® Remote Desktop Protocol (RDP) User Guide*.

6. Click **Apply**.

The new RDP session is added to the Winterm terminal's menu on the taskbar.

---

## Configuring Terminal Printer Settings

You can configure the terminal printer settings by using any of the following options:

- “LP Daemon”
- “Ghostscript”

### LP Daemon

By default, your terminal is set to run the LP Daemon (text only printing). The LP Daemon setup option allows you to configure whether or not your terminal runs the LP Daemon. A daemon is a process running in the background on a Linux system that waits for input and process requests without interaction from a user. Daemons typically run without any visible user interface. A Linux machine normally has many daemons running at the same time, waiting for input or requests on different devices or services.

After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure whether or not your terminal runs the LP Daemon:

1. From the Winterm Config Service page, click **Printer**.
2. Click **LP Daemon**.
3. Click **Starts lpd**.
4. Configure the Starts lpd setting. (By default, Starts lpd is selected and your terminal will run the LP Daemon. Clear the **Starts lpd** check box if you do not want your terminal to run LP Daemon.)
5. Click **Apply**.



#### Note

Be sure to select the correct printing device and default printer.

### Ghostscript

The Ghostscript setup option allows you to configure ghostscript printing options on your terminal. In general, Ghostscript allows you to print a PostScript file on a non-PostScript printer.

After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure ghostscript printing options on your terminal:

1. From the Winterm Config Service page, click **Printer**.
2. Click **Ghostscript**.
3. Configure any of the Ghostscript settings according to “Ghostscript Guidelines” .

## Ghostscript Guidelines

Use the following guidelines to configure the Ghostscript settings.

### Paper Size:

Select the paper size you want the printer selected in Currently Installed Printer to use, and click **Apply**.

### Ghostscript Printer:

Configure if the printer selected in Currently Installed Printer Ghostscript is enabled or not, and click **Apply**. Clear the Ghostscript printer check box if the selected printer is not Ghostscript enabled, and click **Apply**.

### Print Device:

Use the Print Device drop-down menu to configure if the printer selected in Currently Installed Printer uses a serial port (parallel printers: `/dev/lp0`) or a USB device port (USB printers: `/devusb/lp0`), and click **Apply**.

### Print Mode:

Configure if the printer selected in Currently Installed Printer is Normal Color or not, and click **Apply**. Clear the Normal Color check box if the selected printer is not color enabled, and click **Apply**.

### Currently Installed Gimp Printer:

Click to select a printer for the Currently Installed Gimp Printer, and click **Apply**.

### Currently Installed HPIJS Printer:

Click to select a printer for the Currently Installed HPIJS Printer, and click **Apply**.

---

## Configuring Network Settings

You can configure the Network settings by using any of the following options:

- “Network” on page 26
- “Wireless LAN” on page 28
- “Ethernet” on page 28
- “Samba” on page 29
- “NFS Settings” on page 30

### Network

The Network setup option allows you to configure the terminal's Default Nameserver and Domain Searchlist. After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

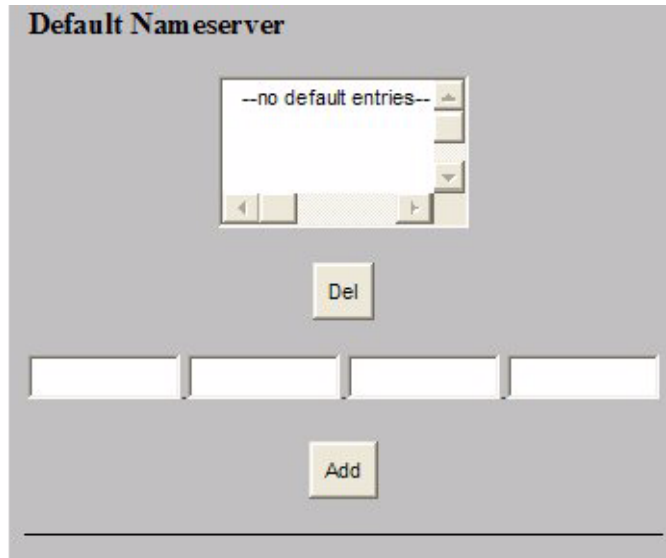
To configure the terminal's Network settings, complete the following procedures:

1. From the Winterm Config Service page, click **Network**.
2. Click **Network**.
3. Configure the Network settings using the following guidelines:

**Default Nameserver:**

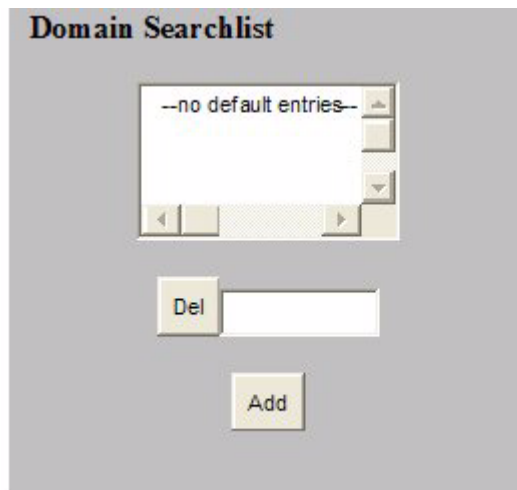
A nameserver is a server that resolves hostnames to IP addresses. For example, instead of having to type the IP address 132.237.252.10, you can just type www.wyse.com. The nameserver identifies the IP address with the hostname for you. You can configure the terminal to use a specific nameserver through Default Nameserver.

To enter a Default Nameserver IP address, type the nameserver's IP address in the four text boxes below the **Del** button and click **Add**.

**Figure 3-10 Default Nameserver****Domain Searchlist:**

Through Domain Searchlist you can enter a list of domains you would like the terminal to access when specific hostnames or shortcuts are used.

To enter a Domain Searchlist, type the domain name in the text box below the **Del** button and click **Add**.

**Figure 3-11 Domain Searchlist**

## Wireless LAN

The Wireless LAN setup option allows you to configure the terminal's Wireless Local Area Network (LAN) settings. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure the terminal's Wireless LAN settings, complete the following procedures:

1. From the Winterm Config Service page, click **Network**.
2. Click **Wireless LAN**.
3. Configure the Wireless LAN settings using the following guidelines:

### **SSID for the USB Wireless LAN Connection:**

Type the SSID for the USB Wireless LAN Connection (matching the WLAN access point) in the SSID for the USB Wireless LAN Connection text box.

### **USB Wireless LAN Channel (1-14):**

Type the USB Wireless LAN Channel (matching the WLAN access point) in the USB Wireless LAN Channel (1-14) text box.

### **USB WLAN Encryption (WEP) Key:**

Type the USB WLAN Encryption (WEP) Key (leave blank for no encryption) in the USB Wireless LAN Channel (1-14) text box.

### **SSID for the PCMCIA Wireless LAN Connection:**

Type the SSID for the PCMCIA Wireless LAN Connection (matching the WLAN access point) in the SSID for the PCMCIA Wireless LAN Connection text box.

### **PCMCIA Wireless LAN Channel (1-14):**

Type the PCMCIA Wireless LAN Channel (matching the WLAN access point) in the PCMCIA Wireless LAN Channel (1-14) text box.

### **PCMCIA WLAN Encryption (WEP) Key:**

Type the PCMCIA WLAN Encryption (WEP) Key (either a 10 digit or 26 digit hexadecimal value) in the PCMCIA WLAN Encryption (WEP) Key text box.

## Ethernet

The Ethernet setup option allows you to configure the terminal's Local Area Network (LAN) settings. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure the terminal's Ethernet settings, complete the following procedures:

1. From the Winterm Config Service page, click **Network**.
2. Click **Ethernet**.
3. Configure the Ethernet settings using the following guidelines:

### **Current Configuration Method:**

Configure the option (click the name for a drop down list) for **dhcp** to set the terminal to use DHCP. DHCP overrides manual Ethernet IP address settings. If you want to use a static Ethernet IP address, configure for **static** from the drop down list.

**DNS via DHCP:**

Check the **DNS via DHCP** check box to set whether the static nameserver setting should be used (clear the check box), or the values coming from DHCP server (check the check box).

**Hostname source:**

Check the **Hostname source** check box to set the method used to provide local hostname: unique name based on MAC address of eth0, name returned by DHCP, or name defined for static settings.

**Hostname:**

Type the computer name (hostname) of your terminal in the Hostname text box.

**IP Address:**

If you want to use a static Ethernet IP address, be sure to configure for **static** from the drop down list, and then type the static IP Address you want your terminal to have in the IP address text boxes.

**Netmask:**

Type the subnet mask (netmask) your terminal is a member of (for example, 255.255.255.0). The netmask is a mask used to determine to what subnet your terminal's IP address belongs.

**Gateway:**

If applicable, type the gateway IP address in the Gateway text boxes. The Gateway IP address belongs to a computer that the terminal may use to access another network or specific protocols (for example, mail services, general Internet access, and so on).

**Syslogd Server IP address:**

Type the Syslogd Server IP address. If the address is set to 0.0.0.0, then no remote logging will be enabled.

## Samba

Samba is a suite of programs which work together to allow terminals to access to a server's file space and printers through the SMB (Session Message Block) protocol. This means that you can redirect disks and printers to Linux disks and printers from Lan Manager terminals, Windows for Workgroups 3.11 terminals, Windows NT terminals, Linux terminals and OS/2 terminals. After setting up your local printer, you can configure the terminal's Samba settings.

To configure the terminal's Samba settings:

1. Click **Network** from the Winterm Config Service page.
2. Click **Samba**.
3. Configure the Samba settings according to the following guidelines:

**Starts the Samba daemon:**

A daemon is a process running in the background on a Linux system that waits for input and processes requests without interaction from a user. Daemons typically run

without any visible user interface. A Linux machine normally has many daemons running at the same time, waiting for input or requests on different devices or services.

By default, your terminal is set to run the Samba daemon. Clear the Starts the Samba daemon check box to keep the terminal from automatically running the Samba daemon.

**Windows Workgroup:**

Type the name of the Windows Workgroup in the Windows Workgroup box you want the terminal to be a member of. By default, the terminal is set to be a member of WORKGROUP.

**Printer Name:**

This refers to the name of the printer that is locally attached to the terminal that you will share on the network. Type the share name of the printer in the Printer Name box.

**Print Command:**

LPD is a comprehensive PC-based, TCP/IP lpd print server for Windows platforms which enables users to receive and customize print jobs from any AS/400, mainframe, UNIX or Windows-based system to any Windows printer-locally or remotely. You can choose to have Samba use lpd printing by checking **Print Command**.

If you are not using lpd, then select **Print Device** and configure the appropriate print device.

**Print Device:**

If you decide to not use lpd printing and select **Print Device** (see Print Command above), then type the path to the print device in the Print Device box.

**SMB Filesystems:**

Through SMB Filesystems you can connect the terminal to shared folders on a Windows server.

**Note**

Although Samba is included, no shares are configured by default. Settings may vary if you are using a Wyse custom build.

Click **Samba Share** and configure the applicable SMBFS information to connect the terminal to a shared folder on a Windows server. To create a new SMBFS connection, click **New**. To delete a listed Samba Share, click the Samba Share name and then click **Delete**.

## NFS Settings

The Network File System (NFS) is a terminal/server application that allows all network users to access shared files stored on computers of different types. NFS provides access to shared files through an interface called the Virtual File System (VFS) that runs on top of TCP/IP.

To configure the terminal's PPP settings, complete the following procedures:

1. From the Winterm Config Service page, click **Network**.
2. Click **NFS Settings**.

3. Click **NFS Mounts**.
4. To start a new NFS Server, click **New**, or you can configure an existing NFS Server by clicking the NFS Server name.

**Note**

To delete a listed NFS Server, click the NFS Server name and then click **Delete**.

5. Configure the NFS Server settings using the following guidelines:

**NFS Server:**

Type the NFS Server name or its IP address in the NFS Server text box.

**NFS Directory:**

Type the full path to the server directory that contains the mount point in the NFS Directory text box.

**NFS Mount Point:**

Type the mount point or directory path in the NFS Mount Point text box.

**NFS Mount Options:**

If applicable, type the NFS Mount Options in the NFS Mount Options text box.

---

## Changing Terminal Display Settings

You can configure the terminal display settings by:

- “Setting the General Display Options”
- “Setting the XDMCP” on page 33
- “Configuring Font Settings” on page 34
- “Setting the Display Resolution” on page 35
- “Setting the Screen Saver” on page 35
- “Configuring Display Power Management Signaling (DPMS)” on page 35

### Setting the General Display Options

From the General Display option you can configure many settings for your terminal's display. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure your terminal's General display settings:

1. From the Winterm Config Service page, click **Display**.
2. Click **General**.
3. Configure the display option you want according to the following guidelines:

**Smartmode Taskbar:**

If you want the taskbar to be displayed when the user drags the mouse pointer over the taskbar, then disappear when the mouse is taken off the taskbar, check the Smartmode Taskbar text box.

**Launcherbar:**

If you want the user to have access to the Launcherbar, then check the Launcherbar text box (the Launcherbar is a separate menu bar that allows you to start programs without using the Taskbar).

**Smartmode Launcherbar:**

If you want the Launcherbar to be displayed when the user drags the mouse pointer over the Launcherbar, then disappear when the mouse is taken off the Launcherbar, check the Smartmode Launcherbar text box.

**Launcherbar location:**

You can have the Launcherbar displayed either on the top, left, or right of the display screen.

**Figure 3-12 Launcherbar location**

<u>Default Option:</u>	right
Other listed options:	left right top

**Clock:**

If you want the clock to be displayed in the taskbar, check the Clock text box.

**IP Address Network Interface:**

If you want the IP Address Network Interface to be displayed in the taskbar, check the IP Address Network Interface text box.

**IP Address Display Refresh:**

Set the amount of seconds (click the number for a drop down list) after which the IP Address display should be refreshed in the taskbar.

**Virtual Desktops:**

You can configure how many virtual desktops the user can have by typing the number in the Virtual desktops text box.

**Font Antialiasing:**

If you want MOWM to draw fonts with antialiasing enabled, check the Font Antialiasing text box.

**Upper left X:**

If your terminal is using a touchscreen, you can set the upper left X coordinate by typing the number in the Upper left X text box.

**Upper left Y:**

If your terminal is using a touchscreen, you can set the upper left Y coordinate by typing the number in the Upper left Y text box.

**Lower right X:**

If your terminal is using a touchscreen, you can set the lower right X coordinate by typing the number in the Lower right X text box.

**Lower right Y:**

If your terminal is using a touchscreen, you can set the lower right Y coordinate by typing the number in the Lower left Y text box.

**Font Renderer:**

Set the truetype font renderer the XServer should use (click the font name for a drop down list).

**Additional X-Server options:**

You can configure your terminal to connect to either a flat panel monitor or a TV by selecting the option using the Additional X-server options drop-down menu.

**Figure 3-13 Additional X-Server options**

<u>Default Option:</u>	none
Other listed options:	none FlatPanel TVEnable

**Emulate third mouse button:**

You can configure your terminal's two-button mouse to emulate a three-button mouse by selecting Emulate 3rd mouse button. When the third mouse button is emulated, the user can click the first and second mouse buttons simultaneously to emulate a third mouse button action. This is especially useful when the user wants to switch between virtual desktops by clicking the third mouse button on the terminal's desktop.

**Setting the XDMCP**

The X Display Manager Control Protocol (XDMCP) is a network protocol. It provides a mechanism for an X-Terminal. The X-Terminal will only run the X-Server and it will allow applications running on remote machines to be displayed on it.

From the XDMCP Settings option you can configure your terminal's XDMCP settings. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure your terminal's display resolution settings, complete the following procedures:

1. From the Winterm Config Service page, click **Display**.
2. Click **XDMCP Settings**.

**Note**

To switch to the XDMCP desktop press **Ctrl+Alt+F2**. To switch back to the local windows manager press **Ctrl+Alt+F1**.

3. Configure the following XDMCP settings:

**XDMCP:****Figure 3-14 Resolution**

Default Option:	No_XDMCP
<u>Other listed options:</u>	No_XDMCP
	Broadcast
	Direct
	Indirect

**Note**

If XDMCP is activated under Direct or Indirect mode, you have to type the name or IP address of the computer where the applications are run in Host Name IP address.

**Host Name IP address:**

If XDMCP is activated under Direct or Indirect mode, you have to type the name or IP address of the computer where the applications are run in the Host Name IP address text box.

## Configuring Font Settings

To configure your terminal's font settings, complete the following procedures:

1. From the Winterm Config Service page, click **Display**.
2. Click **Font Settings**.
3. Click **Font Servers**.
4. To start a new Font Server, click **New**, or you can configure an existing Font Server by clicking the Font Server name.

**Note**

To delete a listed Font Server, click the Font Server name and then click **Delete**.

5. Configure the following Font Server settings:

**Font Server Name:**

Type the name of the server in the Font Server Name text box.

**Font Server Port:**

Type the port number for the server in the Font Server Port text box.

## Setting the Display Resolution

Using the Resolution option you can configure the terminal's monitor Color Depth and Resolution. After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure your terminal's display resolution settings, complete the following procedures:

1. From the Winterm Config Service page, click **Display**.
2. Click **Resolution**.
3. Configure the following terminal display settings:

**Color Depth:**

Set the Color Depth number (click the number for a drop down list).

**Resolution:**

Set the Color Depth number (click the number for a drop down list).

## Setting the Screen Saver

Using the Screen Saver option you can configure the terminal's monitor screen saver settings. After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure your terminal's screen saver settings, complete the following procedures:

1. From the Winterm Config Service page, click **Display**.
2. Click **Screen Saver**.
3. Configure the following terminal screen saver settings:

**Screen Saver:**

Check the Screen Saver check box to activate the screen saver.

**Time Out:**

Type the number of minutes of inaction before the screen saver is activated in the Time Out text box.

## Configuring Display Power Management Signaling (DPMS)

Display Power Management Signaling is a specification from the Video Electronics Standards Association defining how a PC's video adapter can request the monitor to go to one of several power-saving modes (so that the monitor can be Energy Star compliant).

The Display Power Management Signaling setup option allows you to set your terminal to use display power management signaling. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure your terminal's DPMS settings, complete the following procedures:

1. From the Winterm Config Service page, click **Display**.
2. Click **Display Power Management Signaling**.
3. Configure the DPMS settings using the following guidelines:

**DPMS:**

By default, your terminal is set to use DPMS. To deactivate DPMS, clear the DPMS check box.

**DPMS STANDBY:**

Standby Mode saves about 30% of the power required for normal running mode and allows for instant-on as soon as needed. Type the number of minutes DPMS is to wait before standby mode is activated in the DPMS STANDBY text box.

**DPMS SUSPEND:**

Suspend Mode saves more power (by powering-off the CRT's main heater) but requires up to 5 seconds to turn back on. Type the number of minutes DPMS is to wait before suspend mode is activated in the DPMS SUSPEND text box.

**DPMS OFF:**

Off Mode saves more power by turning power off to everything except the monitor's microprocessor. Type the number of minutes DPMS is to wait before off mode is activated in the DPMS OFF text box.

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## Configuring the General Settings

You can configure the terminal General settings by:

- "Setting Autostart"
- "Setting Security Settings" on page 37
- "Setting the System Update" on page 38
- "Setting Time Settings" on page 39
- "Changing the Terminal Language Settings" on page 39
- "Configuring the Terminal Hardware Settings" on page 39

### Setting Autostart

From the Autostart option you can configure whether a background pixmap should be set for your terminal. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure your terminal's Autostart setting:

1. From the Winterm Config Service page, click **Display**.
2. Click **General**.

3. Click **Autostart**.
4. If you want a background pixmap to be set, check the Set Background Pixmap text box.

## Setting Security Settings

The Security setup option allows you to configure the terminal's root and user password. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To change the terminal's root or user password, complete the following procedures:

1. From the Winterm Config Service page, click **General**.
2. Click **Security**.
3. Change the passwords using the following guidelines:

### Root Password:

The root password allows administrators to access the following Winterm Setup options:

- Log In
- System Time
- System Update
- Winterm Configuration



### Note

The default user name is **root** and the default password is **wyse**. Both the user name and password are case sensitive. It is highly recommended you change all passwords using the Security Setup option.

1. Type the new root password in each text box.
2. Check the **Set new** check box.
3. Click **Apply**.

The terminal reboots and the new root password is set.

### User Password:

The User Password allows users to log-in to and use the terminal.

1. Type the new user password in each text box.
2. Check **Set new**.
3. Click **Apply**.

The terminal reboots and the new user password is set.

## Setting the System Update

Using the System Update option you can configure the terminal's System Update settings. After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure your terminal's System Update settings, complete the following procedures:

1. From the Winterm Config Service page, click **General**.
2. Click **System Update**.
3. Configure the following terminal System Update settings:

### **FTP Server:**

Type the name of the FTP Server in the FTP Server text box.

### **Relative Directory Path:**

Type the update directory path on the FTP Server in the Relative Directory Path text box. This path must be a relative path to the Login-Directory, do not use absolute paths (for a example, do not start with /).

### **FTP User:**

Type the name of the FTP User login name in the FTP User text box.

### **FTP Password:**

Type the name of the FTP login password in the FTP Password text box.

### **Update Proxy:**

Type the name of the Update Proxy (if any) in the Update Proxy text box.

### **Update Proxy Port:**

Type the name of the Update Proxy Port you want to use for updates in the Update Proxy Port text box.

### **Always Full Updates:**

If you want full updates assumed with no meta information retrieved, check the Always Full Updates text box.

### **Auto Check for Update:**

Set when the system should check for a new update (click the number for a drop down list). Clear the check box if you want to check for updates manually.

### **Run Postupdate Script (DANGEROUS):**

Check the Run Postupdate Script (DANGEROUS) check box to set whether a special script named postupdate should be downloaded and executed after an update.



### **Note**

Running Postupdate Script (DANGEROUS) opens a security hole.

## Setting Time Settings

Using the Time Settings option you can configure the terminal's NTP Server and Time Zone settings. After you select a new setting, click **Apply**. If you want to revert back to system default settings, click **Reset**.

To configure your terminal's Time Settings, complete the following procedures:

1. From the Winterm Config Service page, click **General**.
2. Click **Time Settings**.
3. Configure the following terminal System Update settings:

### **NTP Server:**

Type the address of the NTP Server in the NTP Server text box (if it is set to 0.0.0.0, then the address will be taken from the DHCP server).

### **Time Zone:**

Set the Time Zone (click the name for a drop down list).

## Changing the Terminal Language Settings

The Language setup option allows you to configure the terminal's language settings. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure the terminal language settings, complete the following procedures:

1. From the Winterm Config Service page, click **General**.
2. Click **Language**.
3. Configure the following terminal Language settings:

### **Language:**

Set the Language (click the name for a drop down list) for either English, German, or French.

### **Keyboard Layout:**

Set the Keyboard Layout (click the name for a drop down list).

## Configuring the Terminal Hardware Settings

The Hardware setup option allows you to configure the terminal's hardware settings. After you select a new setting, click **Apply**. If you want to revert back to the default settings, click **Reset**.

To configure the terminal's hardware setup, complete the following procedures:

1. From the Winterm Config Service page, click **General**.
2. Click **Hardware**.
3. Configure the terminal hardware settings using the following guidelines:

### **Start PCMCIA Service:**

If you want the PCMCIA service enabled, check the Start PCMCIA Service text box.

**PCI-PCMCIA Adapter Driver:**

Set the PCI-PCMCIA Adapter Driver for the installed adapter (click the name for a drop down list).

**Note**

Some new adapters require the yenta\_socket.

**Current Graphics Driver:**

Set the Current Graphics Driver (click the name for a drop down list).

**Hardware Acceleration:**

If you want the Hardware Acceleration enabled, check the Hardware Acceleration text box.

**Monitor Horizontal Frequency Range:**

Type the monitors horizontal frequency range in kHz in the Monitor Horizontal Frequency Range text box.

**Monitor Vertical Frequency Range:**

Type the monitors vertical frequency range in Hz in the Monitor Vertical Frequency Range text box.

**Mouse Orientation:**

Set the Mouse Orientation (click the name for a drop down list).

**Current USB Wireless LAN Driver:**

Set the Current USB Wireless LAN Driver (click the name for a drop down list).

**Current PCMCIA Wireless LAN Driver:**

Set the Current PCMCIA Wireless LAN Driver (click the name for a drop down list).

**Current USB HCI:**

Set the Current USB HCI (click the name for a drop down list).

**Current Ethernet Driver:**

Set the Current Ethernet Driver (click the name for a drop down list).

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