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computer products

YES*tation* User's Guide for Windows-Based Terminals Models 22xx, 26xx, and 733x with CE.net

22xx

26xx

733x

September 2003

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EULA for Microsoft Windows CE Operating System for Windows-based Terminal Devices Version 1.5

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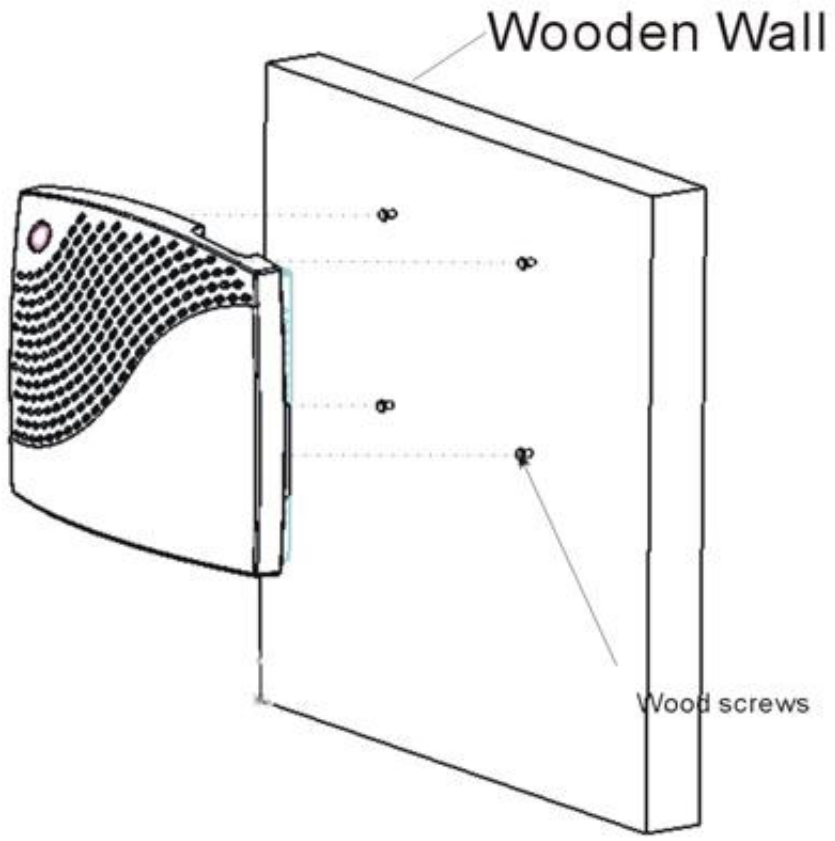
Installing Your Terminal

- Your terminal has no internal fan, and relies on natural airflow for cooling. When you mount it, *make sure to keep as many ventilation holes, as possible, unobstructed*.
- DO NOT use any AC-DC adapter other than the one provided with the terminal or acquired from Affirmative Computer Products or its distributors

22xx Terminals

Mounting

The 22xx terminal can be placed horizontally on a flat surface, or it can be mounted vertically on a wall. A self-adhesive template and four #3, ½-inch wood screws are included with every terminal. The following figure shows one mounting possibility.



22xx Wall Mounting

Another possibility is shown here.

22xx Monitor Mounting

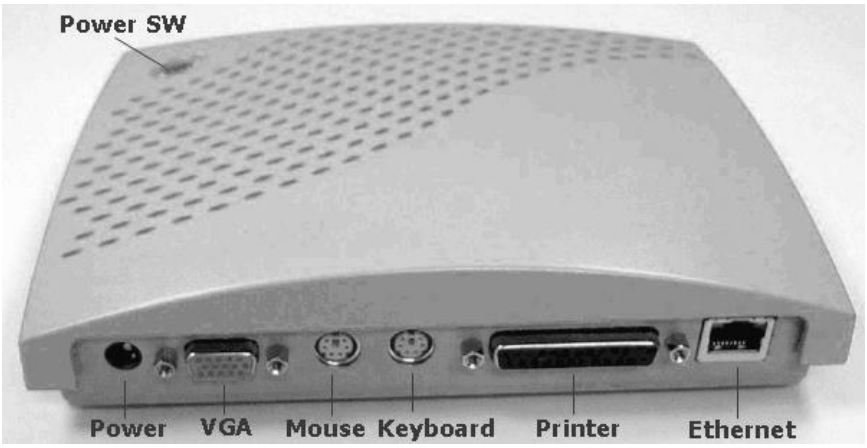
We have done some testing with the provided screws, and have the following suggestions:

- In soft wood, such as pine, no pilot holes are needed.
- In hard wood or plastic, such as the side of a monitor, drill pilot holes with a 3/64” drill bit.
- In dry wall, these screws do not hold well; if you must install on dry wall, we suggest:
    - Drill 3/64” pilot holes and put super glue in the holes before inserting the screws.

  Or
    - Use longer screws with coarser threads.

Cabling

Please make all cable connections before turning on the power. The following figures show the 22xx rear and front connectors.



22xx Rear Connectors

22xx Front Connectors

Power On and Boot Up

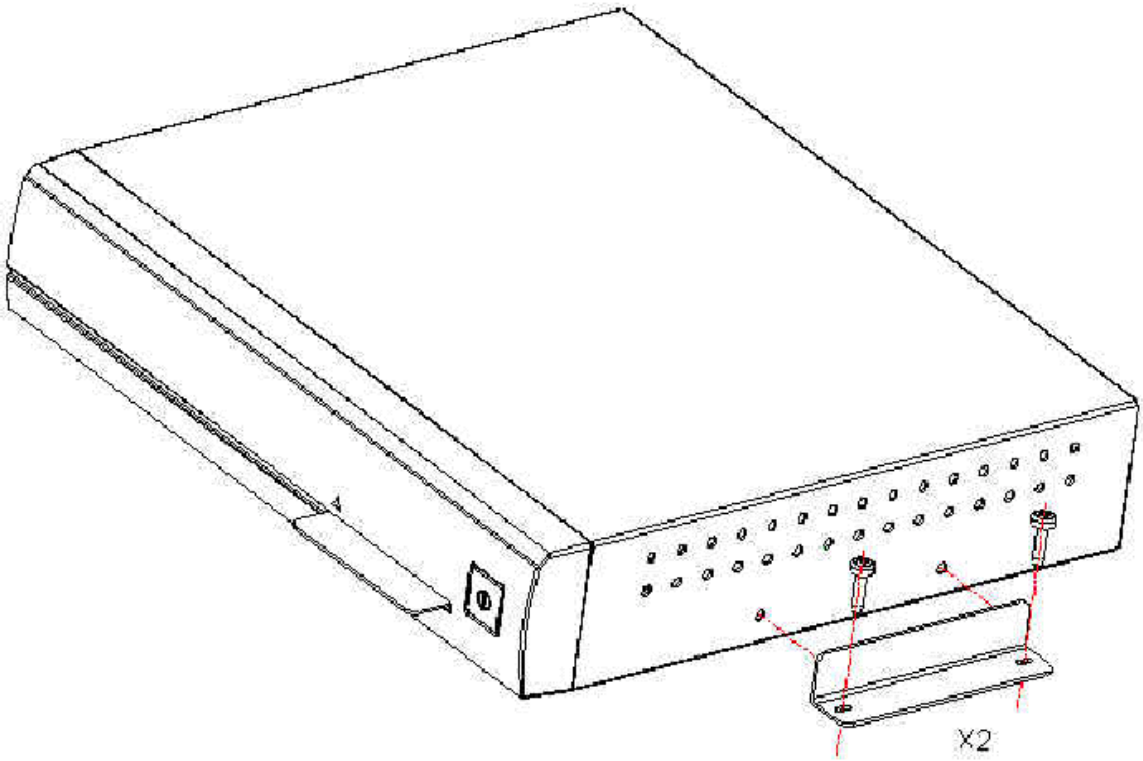
1. Turn on the terminal after all rear panel connections have been made.
2. The translucent **Power** button will change from faint orange to light green.
3. You will see the message **Starting System. Please Wait …** on a black screen.
4. After several seconds, you will see the Affirmative Computer Products logo screen with the message **Loading** and a series of dots at the bottom.
5. After several seconds, you will see a blank grey screen.
6. After approximately ten seconds, the first dialog box of the Setup Wizard will appear if the 22xx has not been pre-configured. Refer to WBT Setup Wizard for setup instructions. If setup has already been done, the 22xx will come up in the Terminal Connections Management screen.

26xx Terminals

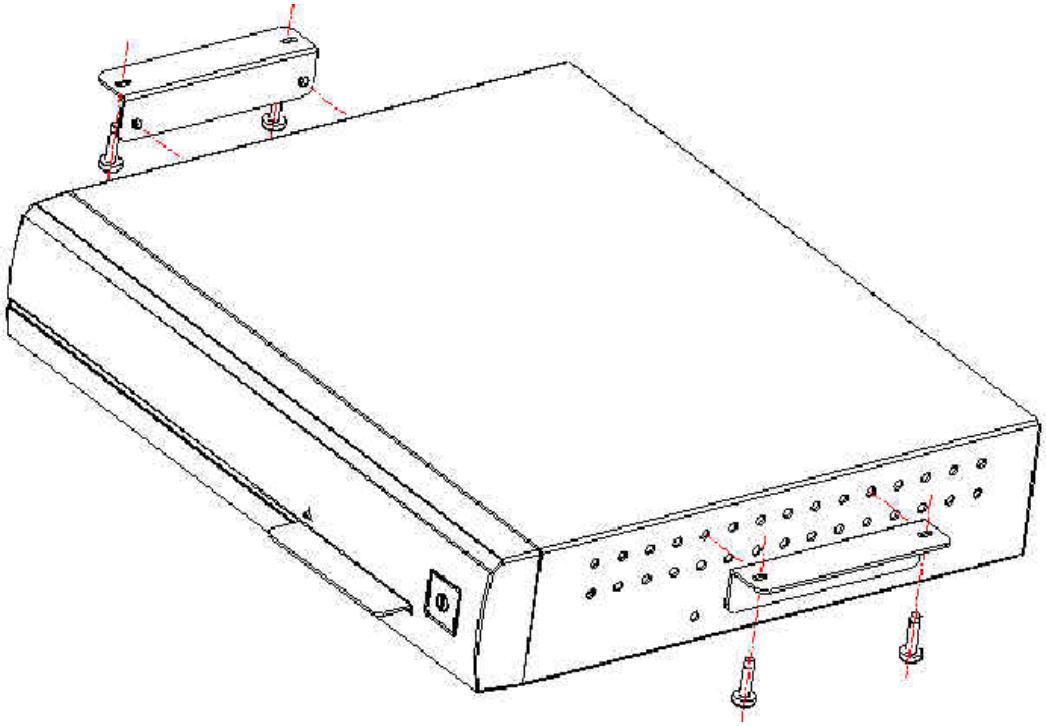
Mounting

The 26xx terminal can be placed vertically on a flat surface, using the provided stand, or it can be mounted permanently using the provided brackets.

- Vertical Mounting. See the picture on the front cover of this manual.
- Permanent Mounting. The 26xx terminal can be mounted permanently on a desk or under a table or attached to a wall. The following figures show two possible mounting procedures



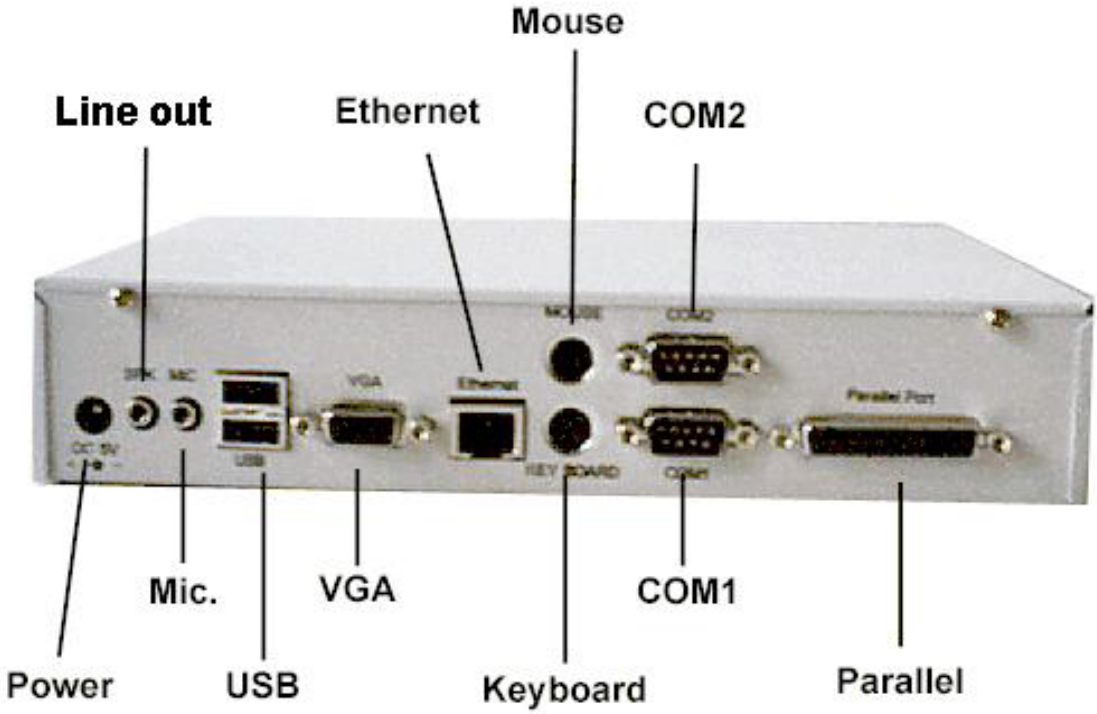
Mounting the 26xx on a desk or a wall



Mounting the 26xx under a table

Cabling

Please make all cable connections before turning on the power. The following figures show the 26xx connectors on the rear panel.



26xx Rear Panel

26xx Rear Panel with PCMCIA Slot

Power On and Boot Up

There are three LED indicator lights placed together on the front panel:

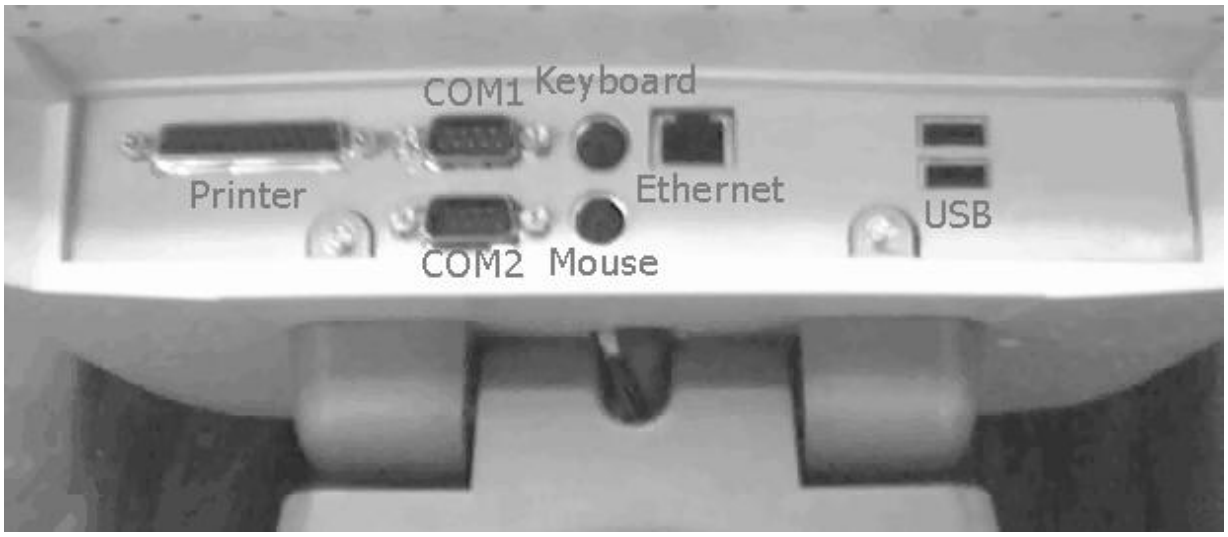
- **Power** (on the right or bottom). This indicator is on when the terminal has been powered up.
- **Network Connection** (on the left or top). This indicator is on when there is a good physical connection to the Local Area Network.
- **Network Activity** (in the middle). This indicator flashes to indicate LAN activity.

1. Turn on the terminal after all cable connections have been made.
2. The Power and Network Connection lights should come on immediately.
3. You will briefly see some information and the message **Loading Win CE … Go** on a black screen, and the Network Connection LED should start to flash slowly.
4. You will see the Affirmative Computer Products logo screen with the message **Loading** and a series of dots at the bottom.
5. After initial setup, if you are using a PCMCIA wireless LAN adapter to connect to your LAN, you may see, depending upon the settings in Configure Terminal Properties|Control Panel|Wireless, a Checking Wireless IP window with the message **Checking Wireless…** until your adapter has connected to an access point.
6. After approximately 10-15 seconds, the first dialog box of the Setup Wizard will appear if the 26xx has not been pre-configured. Refer to WBT Setup Wizard for setup instructions. If setup has already been done, the 26xx will come up in the Terminal Connection Manager screen or in an Autostart session.

733x Terminals

Cabling

Please make all cable connections before turning on the power. The following figure shows the 733x connectors seen from the bottom of the terminal display/logic unit.



733x Connectors

Power On and Boot Up

1. Turn on the terminal using the small **Power** button at the lower right corner of the display/logic unit.
2. **The Power light (at the left of the Power button) should come on immediately.**
3. You will briefly see the message **Loading Win CE … Go** on a black screen.
4. You will see the Affirmative Computer Products logo screen.

5. After approximately fifteen seconds, the first dialog box of the Setup Wizard will appear if the 733x has not been pre-configured. Refer to WBT Setup Wizard for setup instructions. If setup has already been done, the 733x will come up in the Terminal Connections Management screen.

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WBT Setup Wizard

The WBT Setup Wizard is used for the terminal initial setup. The wizard runs when:

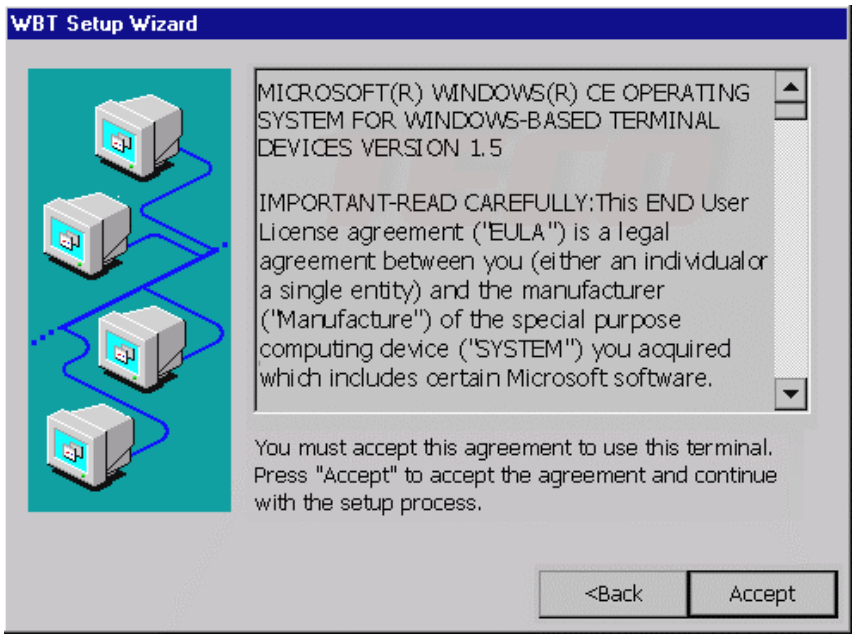
- A terminal is first booted up after being received from the factory.
- A terminal is reset to factory defaults and then rebooted.
- The terminal firmware is upgraded and the terminal is rebooted.

The WBT Setup Wizard sets the basic terminal network configuration, display, and printer parameters. Any parameters set in the WBT Setup Wizard can be changed later from Terminal Properties. You can launch Terminal Properties by pressing the **F2** key at any time from the Terminal Connection Manager window. Please refer to Configure Terminal Properties.

When proceeding through the WBT Setup Wizard process:

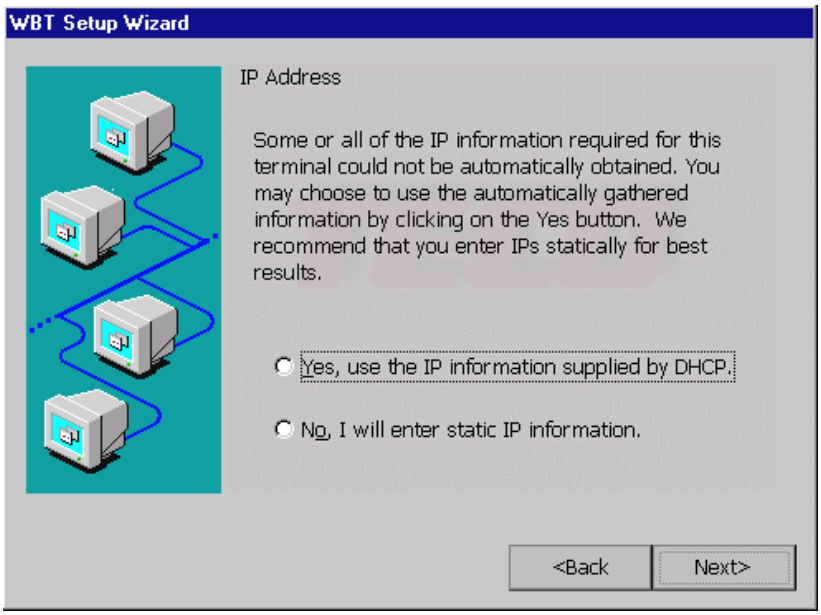
- Activate the **Next** or **Accept** buttons to display the next dialog box in the sequence.
- Activate the **Back** button to return to the previous dialog box.
- Activate the **Cancel** or **X** button to quit and display the terminal's Terminal Connection Manager.

The WBT Setup Wizard dialog boxes are discussed here in the order in which they will appear on your terminal.



EULA Dialog Box

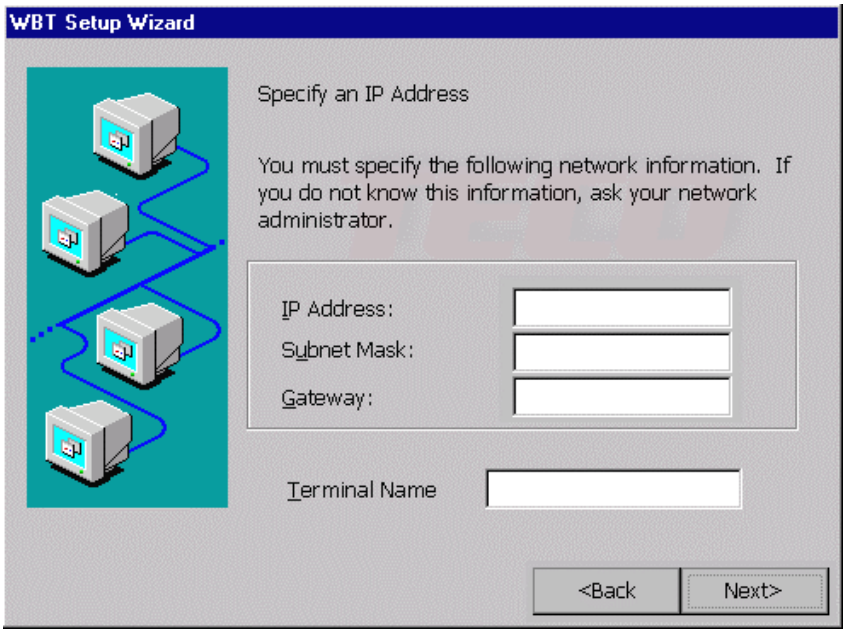
Please read the license agreement carefully before you click on **Accept**.



IP Address Dialog Box

- Select **Yes** to use the IP address information supplied by the DHCP server. Then the next screen will be the Name Servers dialog box.
- Select **No** to use static IP address information. Then the next screen will be the Specify an IP Address dialog box.
- If this is a 26xx terminal, you will also see a warning here that this part of the setup is only for use if you are making a cable connection to the LAN.

NOTE: If you are using a wireless LAN adapter to connect to your LAN, be sure to select Yes and then ignore the following Name Servers dialog box.

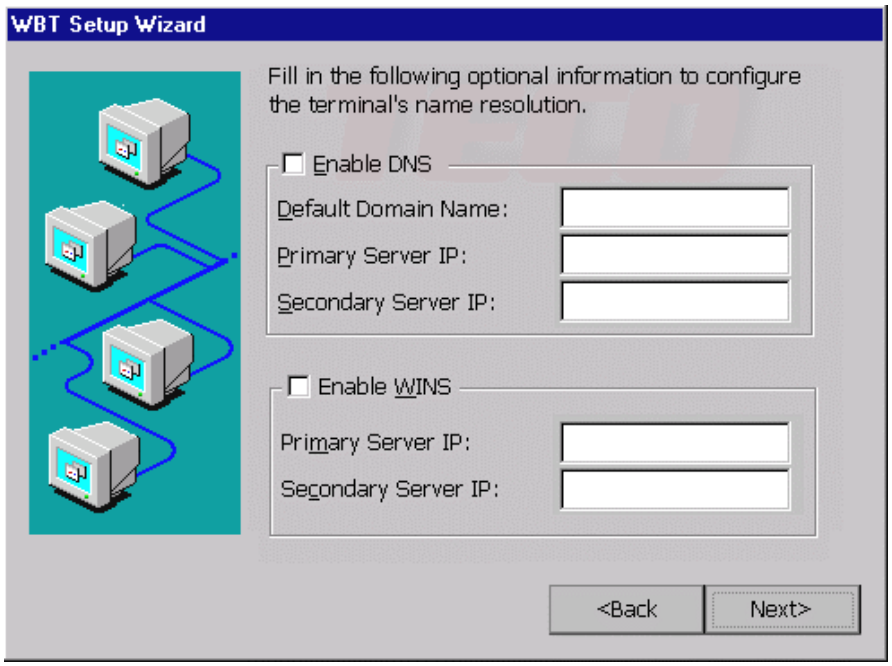


Specify an IP Address Dialog Box

- Ask your network administrator for the IP addresses to enter here.

- For identification purposes by network management software, we recommend that you enter a unique name in the **Terminal Name** field. If you don't see this dialog box, because you are not specifying an IP address, you can enter a terminal name later in Terminal Properties (see Configure Terminal Properties|General).

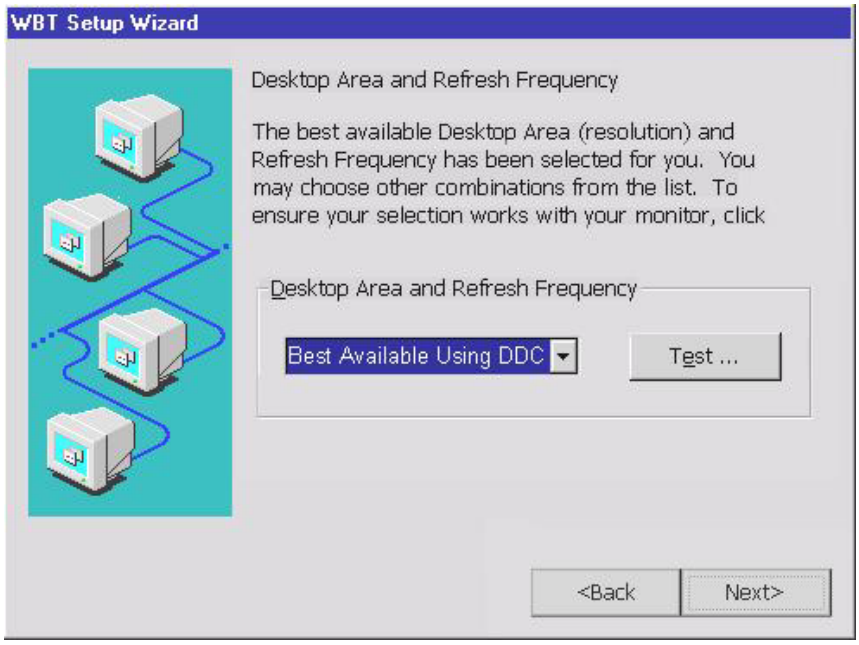
NOTE: If you are using a wireless LAN adapter to connect to your LAN, you shouldn't see this dialog box. Back up one screen and select Yes.



Name Servers Dialog Box

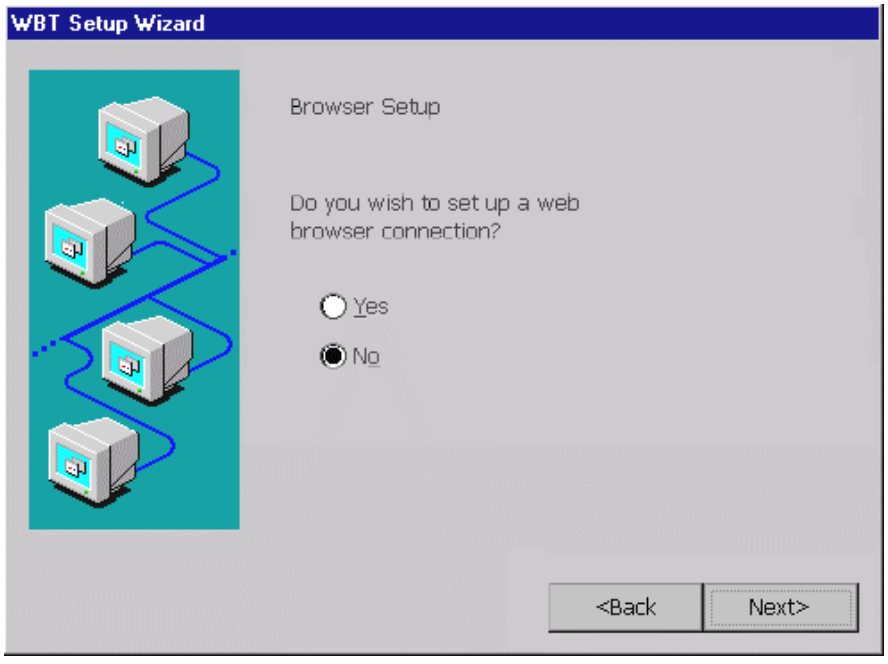
- If you specify an IP address, you will have to enter name server information here if you are going to browse the Web.
- If you use a DHCP server for IP addressing, you may still have to enter information here for Web browsing, depending upon how the DHCP server is configured.

NOTE: If you are using a wireless LAN adapter to connect to your LAN, ignore the Name Servers dialog box.



Desktop Area/Refresh Freq. Dialog Box

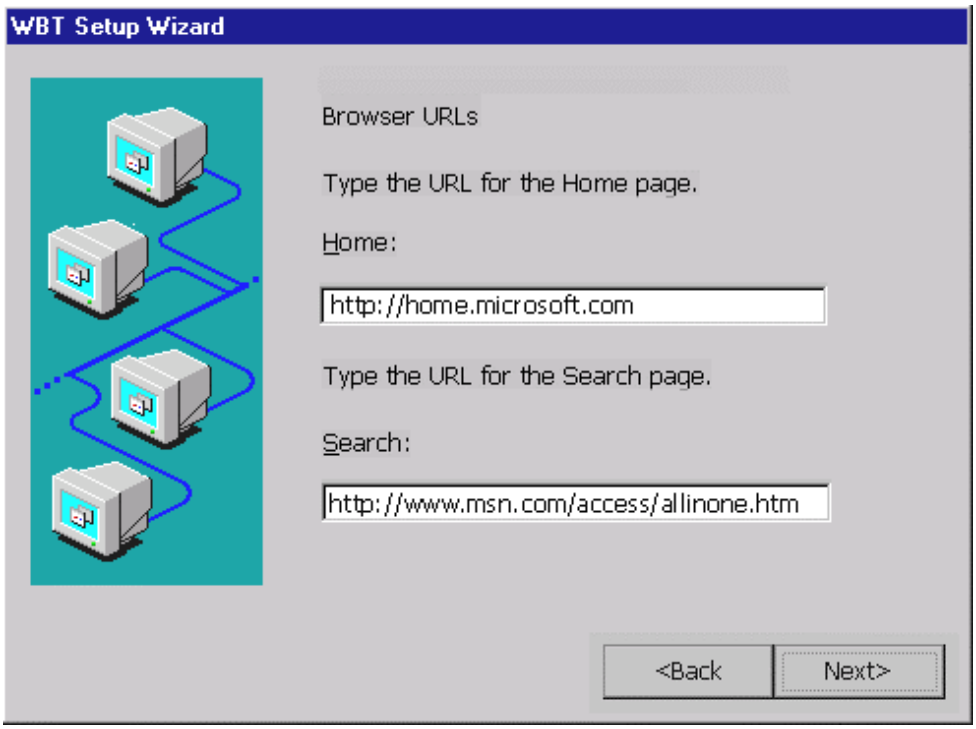
Note: The default setting is 800 x 600 8bpp @ 75Hz, not "Best Available Using DDC" as shown in the screen shot.
If you select a different setting from the drop-down list, please be sure to use the **Test** button before proceeding. If you enter a setting that your monitor cannot support, you will be faced with an unusable screen when you reboot the terminal. See Troubleshooting Q&A if this occurs.



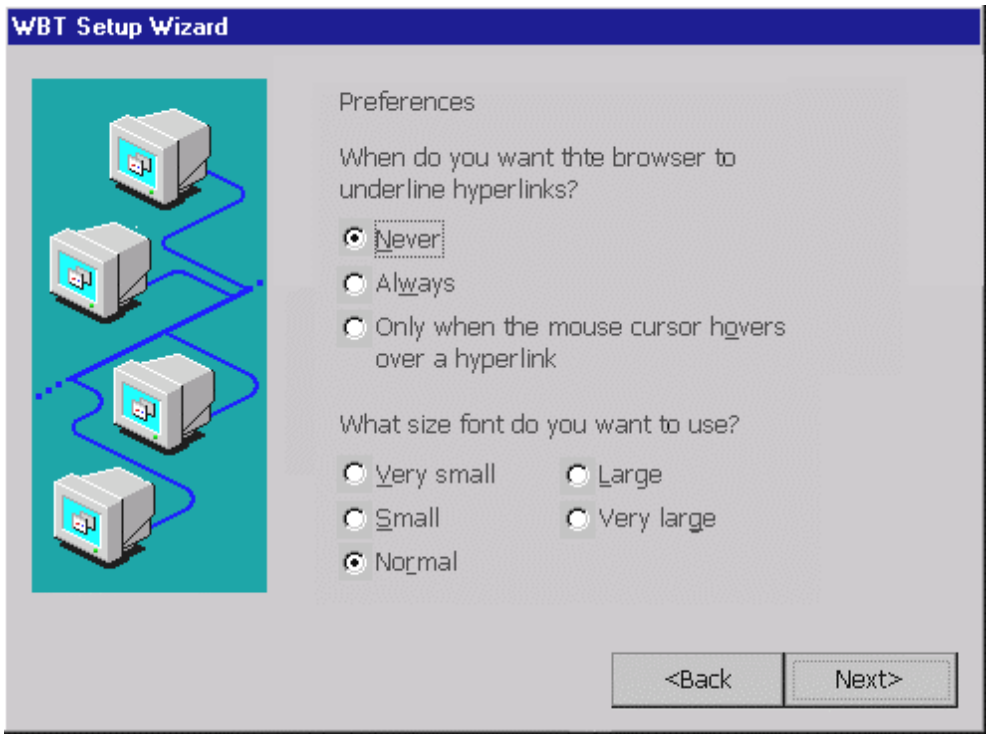
Browser Setup Dialog Box

If you have a Model 2x12 or 2x13 terminal, you will see the above screen.

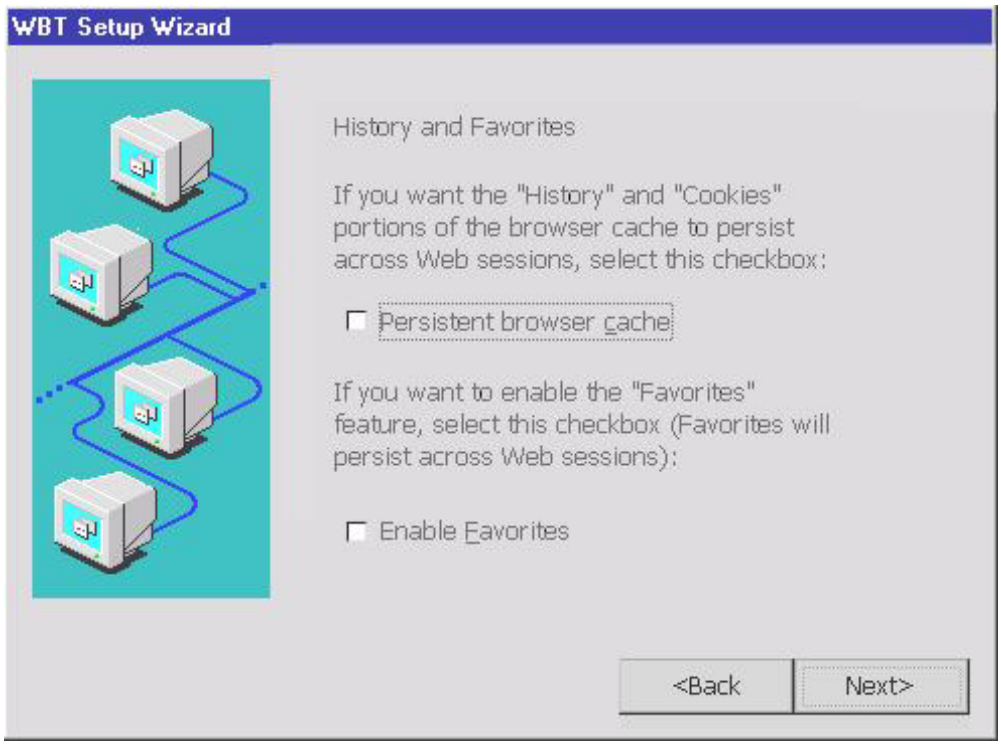
- If you select **Yes**, you will then be faced with several more browser setup screens that provide you with some of the usual Internet Explorer browser options.
- If you select **No**, you will advance to the Printer Setup dialog box.



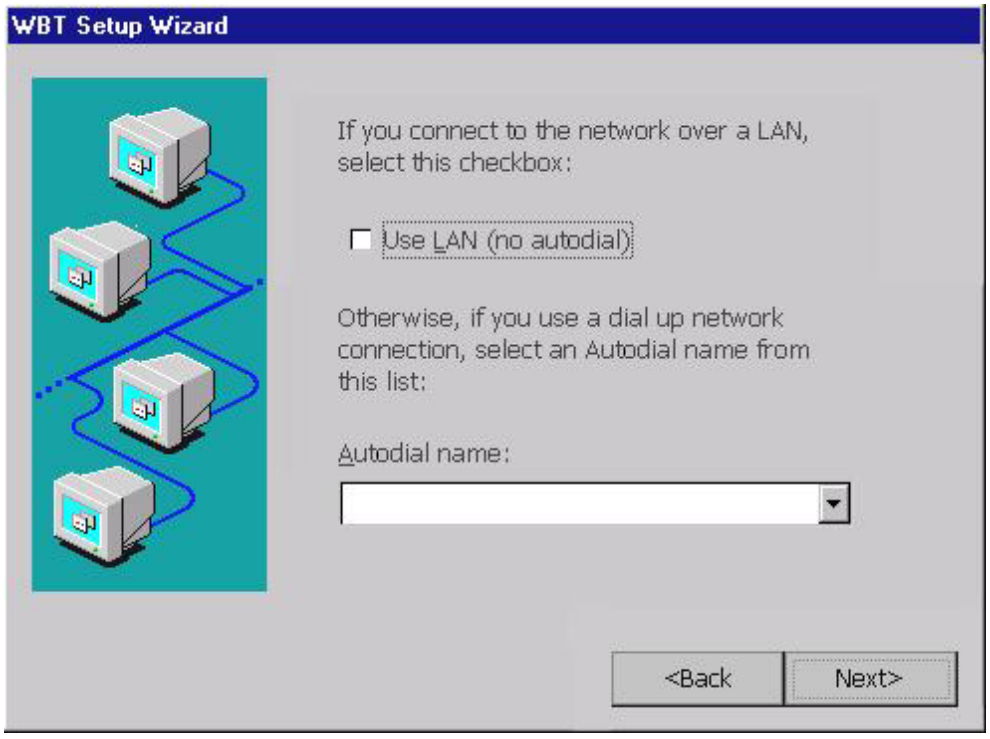
Browser URL Dialog Box



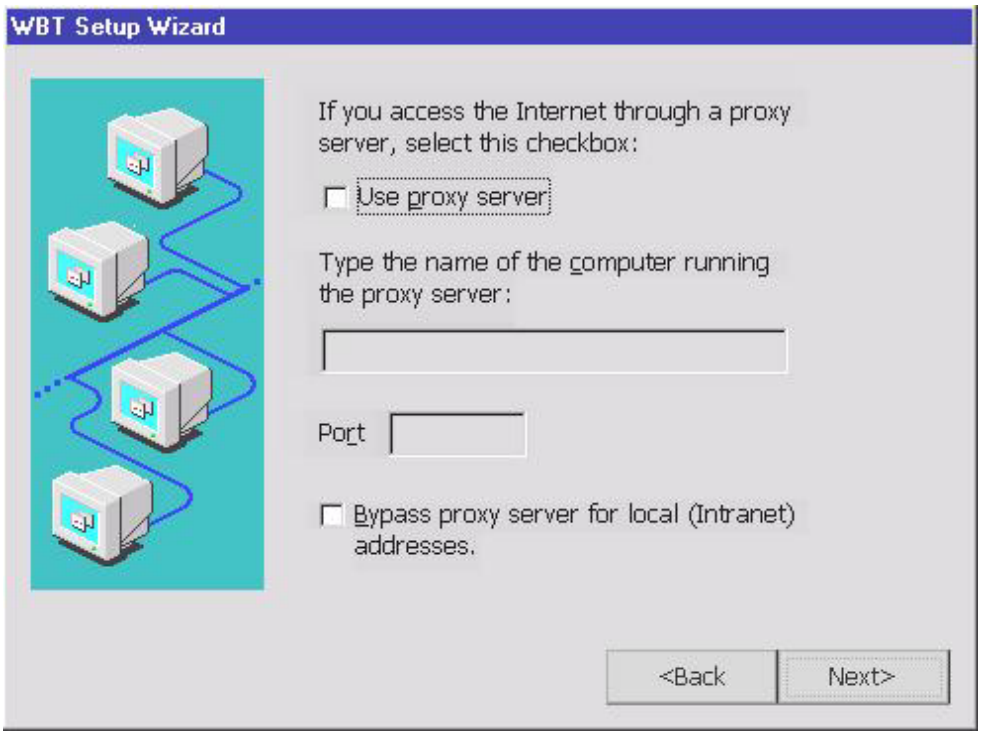
Browser Preferences Dialog Box



Browser History and Favorites Dialog Box

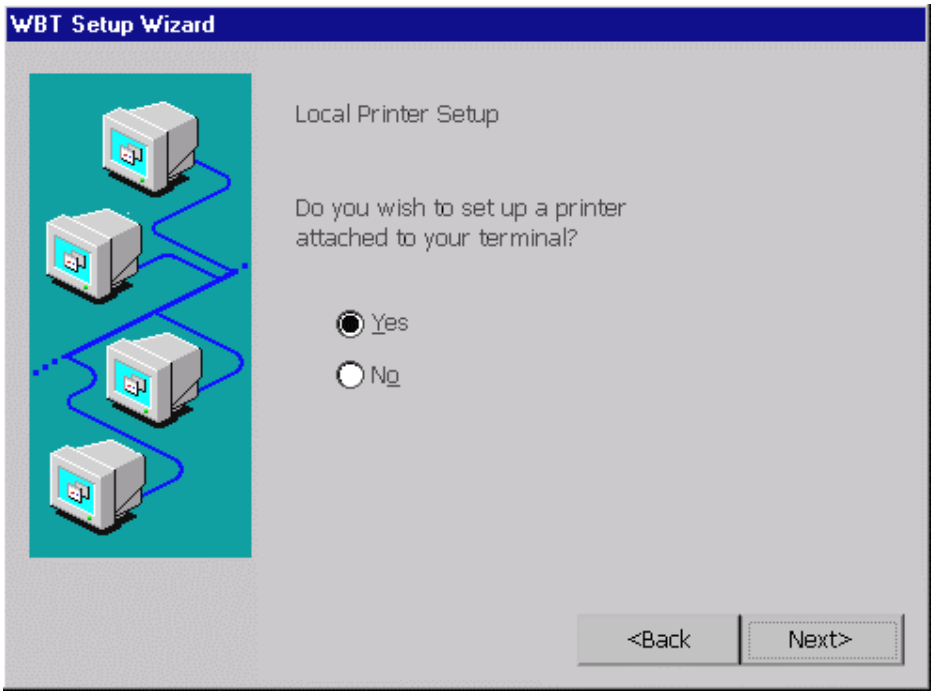


Browser Connection Dialog Box



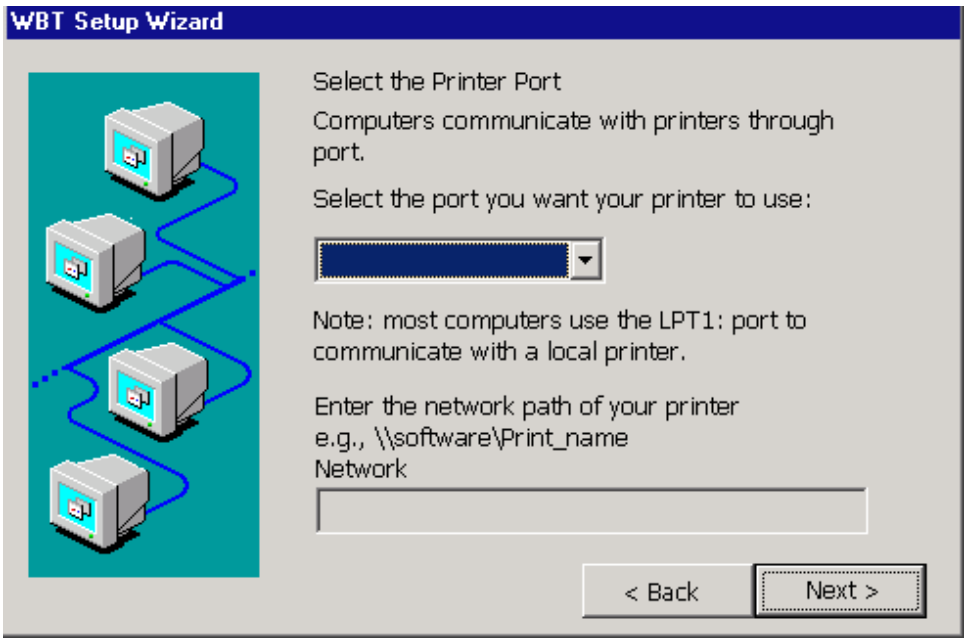
Browser Proxy Server Dialog Box

This is the last dialog box for browser setup. Next is the Local Printer Setup dialog box.



Local Printer Setup Dialog Box

- If you select **Yes** here, you will be faced with several more dialog boxes used to configure printer properties. You should only answer **Yes** if you wish to use a local attached printer in ICA or RDP sessions. If you only want to use a local printer for text emulation sessions, you answer **No** here, and printer setup is done within the text emulation setup.
- If you select **No**, you will advance to the Finish dialog box.

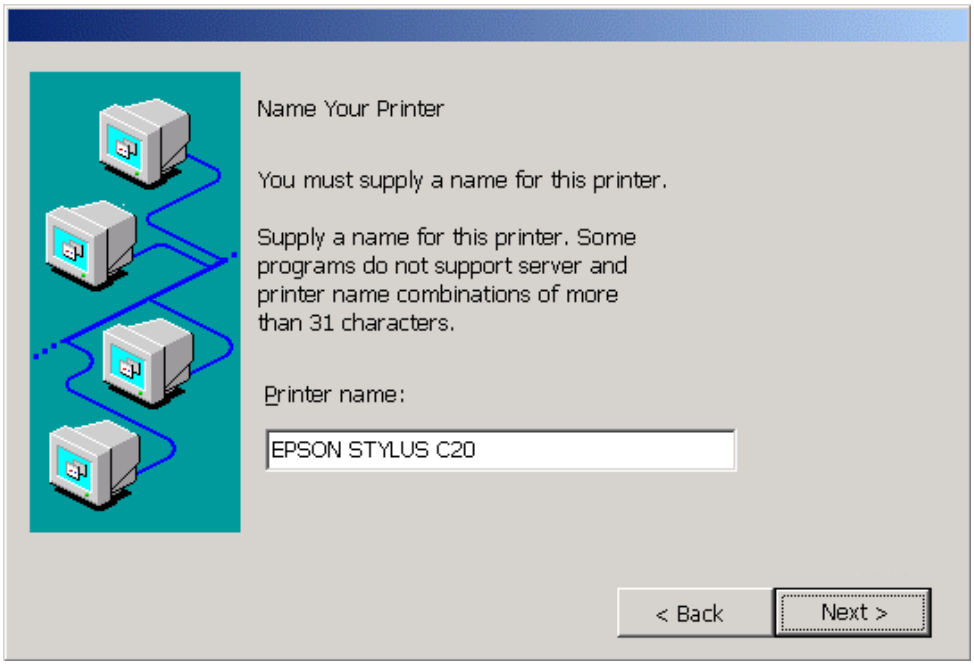


Select Printer Port Dialog Box

- You must select a printer port. You can have more than one local printer, but each one must be assigned to a different printer port. If you have a USB printer already connected to the terminal, you will see a **USB** option in the drop-down list, as well as the typical **LPT1**, **COM1/2** (non-22xx terminals), and **Network** options.
- If you select a network printer, enter the printer network path in the **Network** field. You can have multiple network printers.
- If you select a COM port (not applicable for 22xx terminals), The default properties are **19200 baud, 8-N-1, Hardware Flow Control**. If you want to change any of these properties, you must add a bogus Dial-Up connection in Terminal Connection Manager → Configure for your printer COM port and configure the properties there. See Creating a New Connection|Dial-Up Client|Configure for more information.

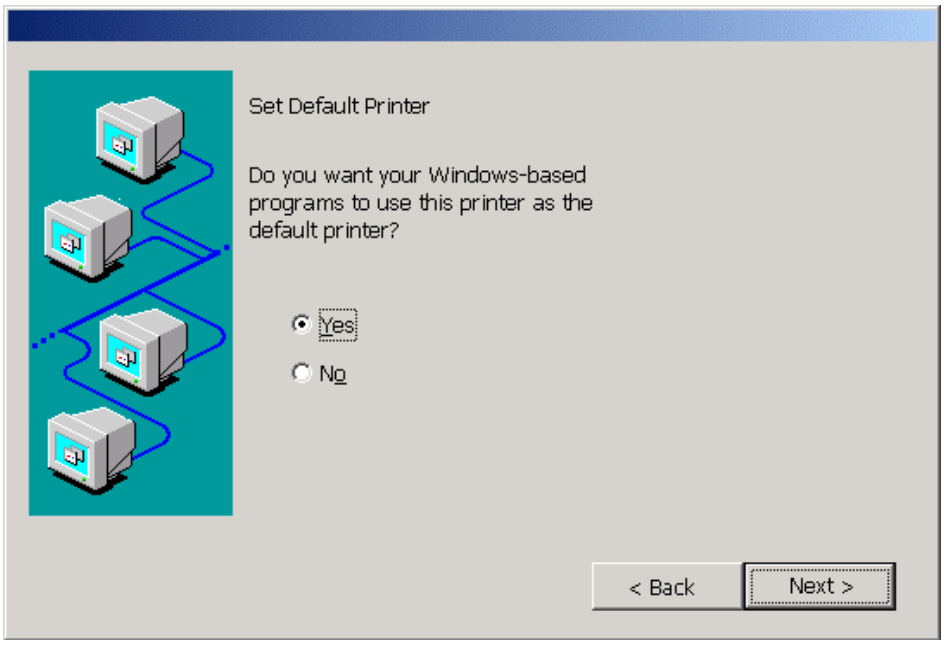
Select the Printer Model Dialog Box (not shown)

- Select a printer manufacturer from the manufacturer drop-down list. After you select the manufacturer, the right-hand drop-down list will provide a list of models for that manufacturer.
- Select the printer model. If your model is not shown here, try to find a compatible printer in the list. It may be that your printer is compatible with a model from a different manufacturer. If that is the case, go back, change the manufacturer selection, and then choose the compatible model from that drop-down list. **Note:** There are no local Windows printer drivers in these terminals. You must have a driver in your Windows Terminal Server that corresponds to the selected model.
- Another option, if your printer is not found in the lists, is to check **User Defined**. In this case, you should then enter the model name, in the **Model Name** field, that corresponds to the printer driver on your Windows Terminal Server.



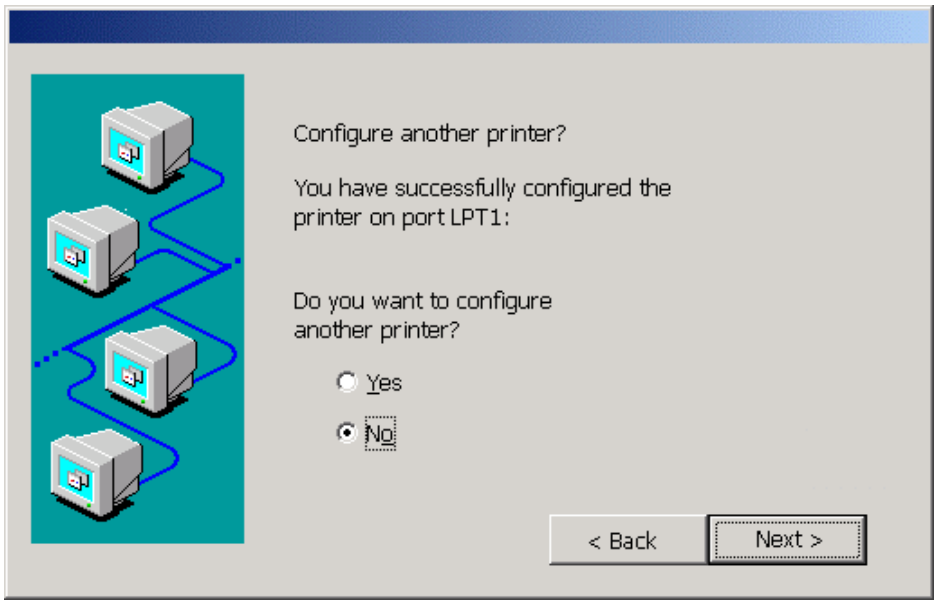
Name Your Printer Dialog Box

You must provide a "friendly" name for your printer. This name will identify your printer in the Printers settings dialog box on your server. The default name is the model name that you selected in the previous dialog box.



Set Default Printer Dialog Box

Select whether or not you want this local printer to be the default printer for your Windows (ICA and RDP session) applications.



Configure Another Printer Dialog Box

You are given the opportunity to begin the configuration of another printer. If you select **Yes**, you will repeat the above dialog boxes for that printer. If you select **No**, you will go on to the Finish dialog box.

Finish Dialog Box

Click on **Finish** to apply your selections. Depending upon the selections you have make, the terminal will either reboot or go to the Terminal Connection Manager screen.
Click on **Back** to return to the previous dialog box.
Click on **X** or **Cancel** to forget the whole thing and go to the Terminal Connection Manager screen. If you do this, you will be faced with the WBT Setup Wizard again the next time you restart the terminal.

Return to Table of Contents

Configure Terminal Properties

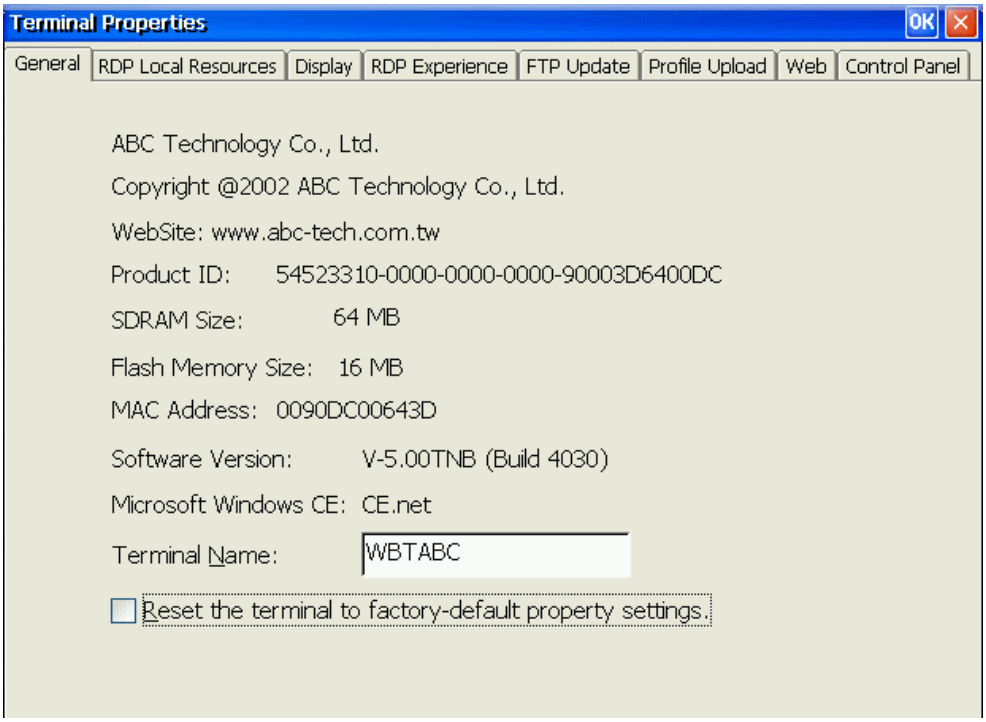
Using the Terminal Properties window, you can change the terminal properties. Invoke this window by pressing the **F2** key in the Terminal Connection Manager window. The Terminal Properties window consists of seven (22xx terminals) or eight property sheets that can be invoked by activating their individual tabs. You will not see the FTP Update tab in 22xx Terminal Properties.

At the bottom of each sheet are three buttons:

- **OK**. Activate **OK** to save changes and quit Terminal Properties *after* you have set desired properties in *all* the property sheets.
- **Cancel**. Activate **Cancel** to quit Terminal Properties without saving any changes. You can also do this by clicking on **X** in the upper right corner.
- **Apply**. Ignore this button.

If a password has been enabled for this terminal (see Control Panel|Security), you will see the Setup Password dialog box when you press **F2**. Type in your password and activate **OK**.

General



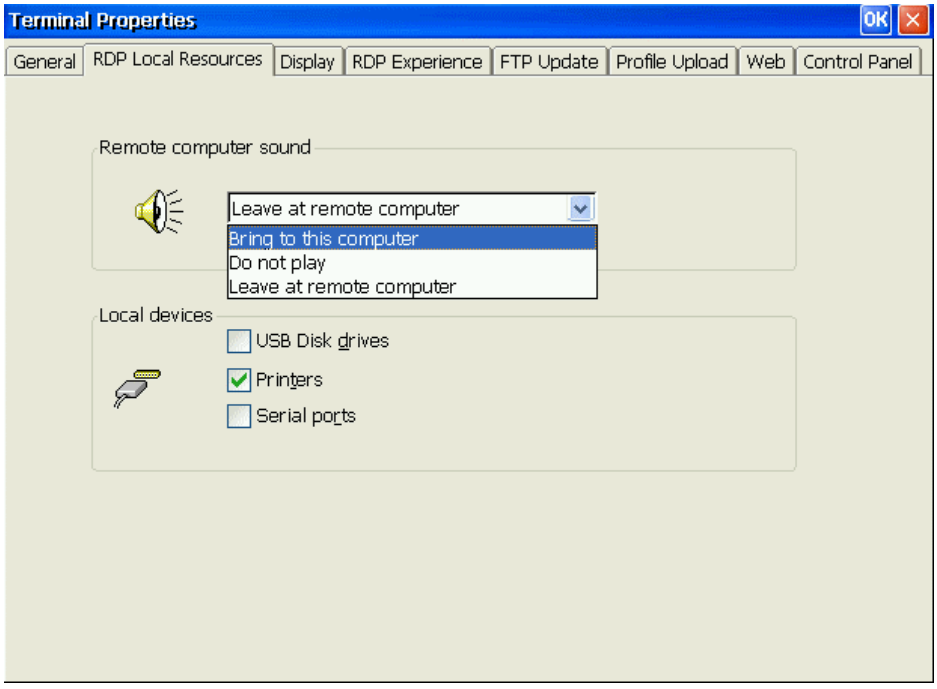
General Properties Sheet

This property sheet is informational except for **Terminal Name** and **Reset…**.

- **Product ID**. This is a unique product identification code. The last 12 characters are used as the "UUID" by the TCO Remote Management software and are a permutation of the terminal MAC address.
- **SDRAM Size**. This shows the amount of DRAM in the terminal. DRAM is used for working storage. The standard amount is 64MB, but an upgrade to 128MB is available. More RAM allows you to have more sessions open at the same time.
- **Flash Memory Size**. This shows the amount of non-volatile flash memory in the terminal. Flash memory is used to store all of the operating system and program software. The amount is 8MB or 16MB, depending upon the terminal model.
- **MAC Address**. This is a unique hardware identifier. Every device on every LAN in the world is supposed to have a unique identifier.
- **Software Version**. This is the version of the firmware installed in this terminal. If you contact Affirmative Computer Products Tech Support about a problem, please have this version, including the build number, available.
- **Microsoft Windows CE**. This is the family of the Windows CE operating system that is installed in the terminal. All the terminals discussed in this document should read **CE.net** here. The operating system can only be upgraded as part of a general firmware upgrade; it cannot be upgraded by itself.
- **Terminal Name**. We recommend that you enter a unique name here for easy identification when using network management and administration software. The first character of this name must be an alpha character, and the name should have no more than fifteen characters
- **Reset the terminal to factory-default property settings**. Activate this check box to reset the terminal to its factory default settings. When you do this, you will get a dialog box asking you to confirm your intentions.

RDP Local Resources

This sheet is used to configure audio and local devices for RDP sessions.

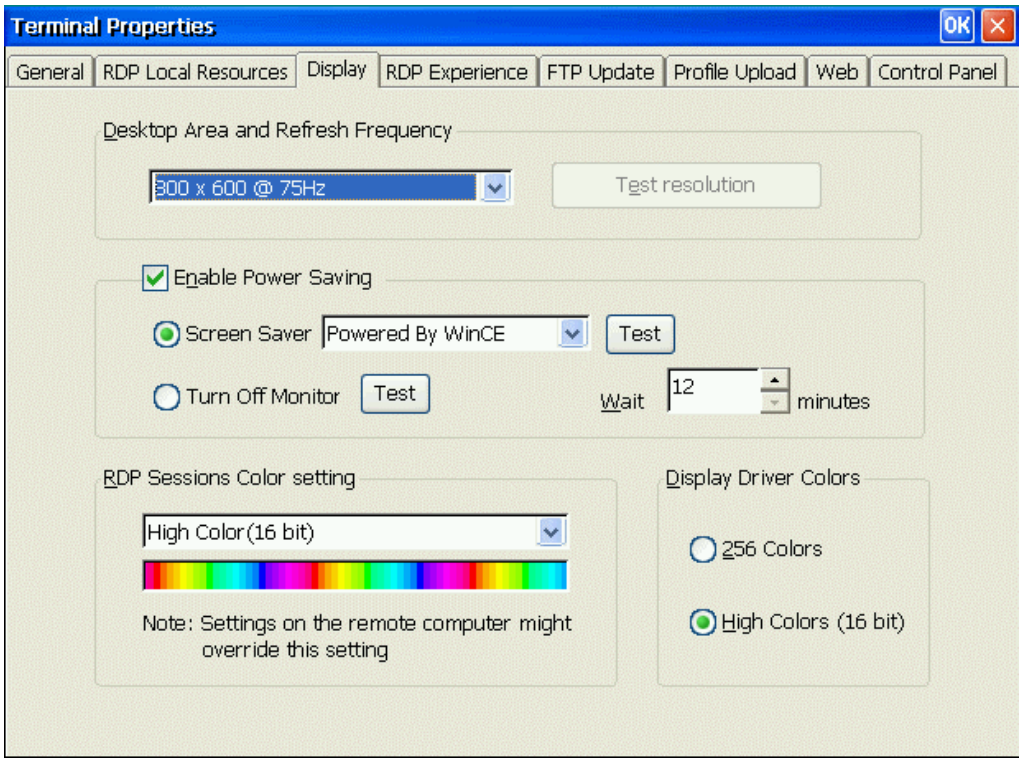


RDP Local Resources Properties Sheet

- **Remote computer sound**. **Note:** This feature works only with a Windows 2003 server.
  - **Bring to this computer.** Map the audio (sound) from the server to the terminal.
  - **Do not play.** Do not play computer sound on terminal or server.
  - **Leave at remote computer.** Does not map the audio (sound) from the server to the terminal.
- **Local devices**
  - **Disk drivers.** Enable local USB port mapping for USB disk drives such as USB FDD, HDD, Flash Disk and CDROM. **Note:** This feature works only with a Windows 2003 server.
  - **Printers.** Enable local parallel port mapping. It supports both parallel printers from LPT1 and USB printers from USB port.
  - **Serials ports.** Enable local serial ports mapping. **Note:** This feature works only with a Windows 2003 server.

Display Properties

Use the Display properties sheet to configure the terminal's display screen and RDP session display properties.



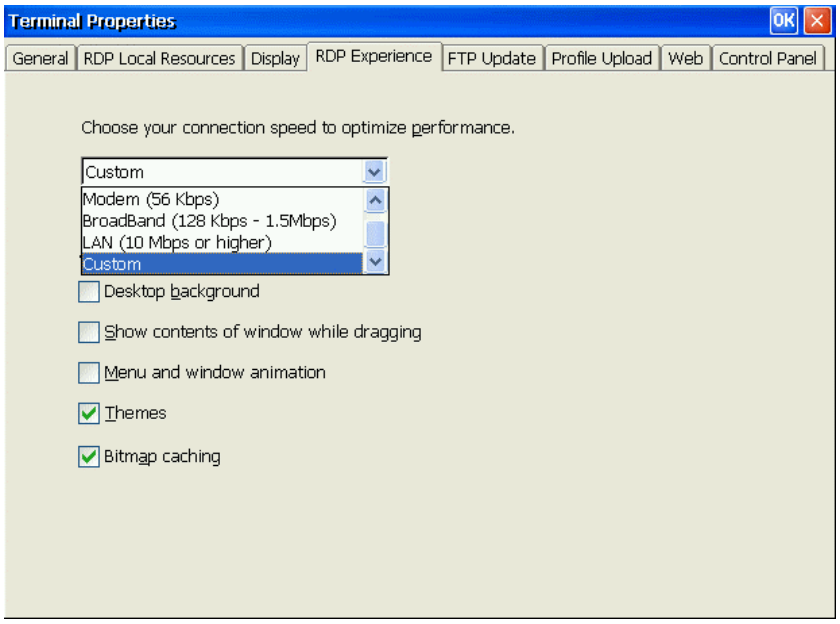
Display Properties Sheet (26xx and 733x models)

- **Desktop Area and Refresh Frequency**. Use the scroll list to select the terminal display resolution. The terminal will support resolutions from 600x480x8x60 up to1280x1024x16x60 if the monitor will support them. Eight-bit color is typically sufficient for emulator sessions. Another available setting is **Best Available Using DDC**, which will automatically choose the best available monitor resolution if that monitor is DDC-compatible. NOTE: Be sure to test your new setting if you are going up in frequency or resolution. If you don't test, you could be faced with an unreadable screen after boot-up.

- **Test Resolution**. Use this button to preview the resolution and frequency selected on the scroll list. Testing is recommended before locking in this setting; if the monitor will not support your selection, you will be faced with an unreadable screen after boot-up. See Troubleshooting Your terminal if this situation occurs.

- **Enable Screen Saver**. Check here to enable the screen saver. By default this function is activated.
  - **Screen Saver**. Click on this radio button to use a screen saver. Then choose, from the drop-down list, either a floating logo screen saver or a blank screen. Use the **Test** button to preview your choice for three seconds.
  - **Turn Off Monitor (26xx and 733x models)**. Click on this radio button to turn off the monitor as a screen saver. By default this function is inactivated. Use the **Test** button to preview your choice for three seconds.
  - **Wait**. Adjust the amount of idle time before either the Screen Saver or Turn Off Monitor is activated.
- **RDP Sessions Color Setting**. Select **256 Colors** for reduced network traffic; select **High Color (16 bit)** for better image quality. By default, **High Color (16 bit)** is activated. **Note:** Even though you select **High Color**, you may not get it because:
  - The local hardware video driver must be set to 16-bit depth. See Display Driver Colors below.
  - The Terminal Server must use a version of Windows Server 2003 or higher.
  - The Terminal Server settings must be compatible. See http://support.microsoft.com/default.aspx?scid=kb;EN-US;323353 for more information.
- **Display Driver Colors**. This is the terminal hardware video color setting. There are two selections in 26xx and 733x models, **256 Colors** and **High Color (16 bit).** In 22xx models, a third selection, **True Colors (24 bit)** is also available. By default, **High Color (16 bit)** is activated. If you encounter any display problem in your RDP or ICA session applications, try the **256 Colors** setting. **Note:** If the setting is **256 Colors**, the RDP Sessions Color Setting will automatically revert to **256 Colors**.

RDP Experience



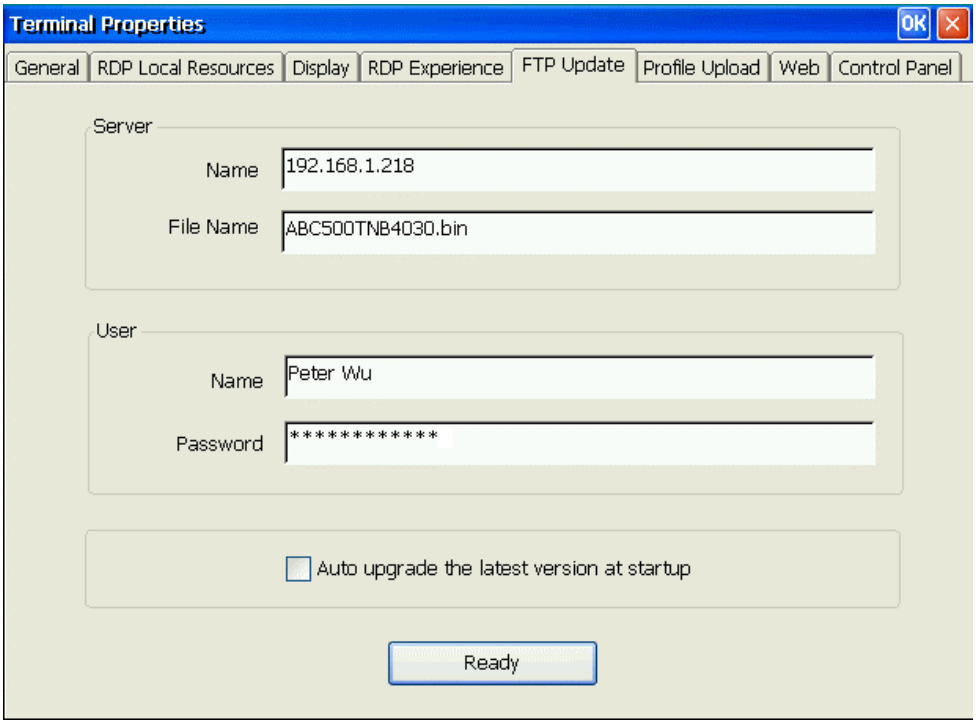
RDP Experience Properties Sheet

This properties sheet is only useful if you are connecting to a Windows 2003 server. If so, you can optimize performance and desktop appearance by selecting connection speed and enabling/disabling desktop parameters.

Note: The **Custom** connection speed option is not supported on these terminals.

FTP Update

This properties sheet is not seen directly in Terminal Properties in 22xx terminals. For those terminals, the properties sheet is found under Control Panel, and it looks slightly different.



FTP Update Properties Sheet (Not seen in 22xx terminals)

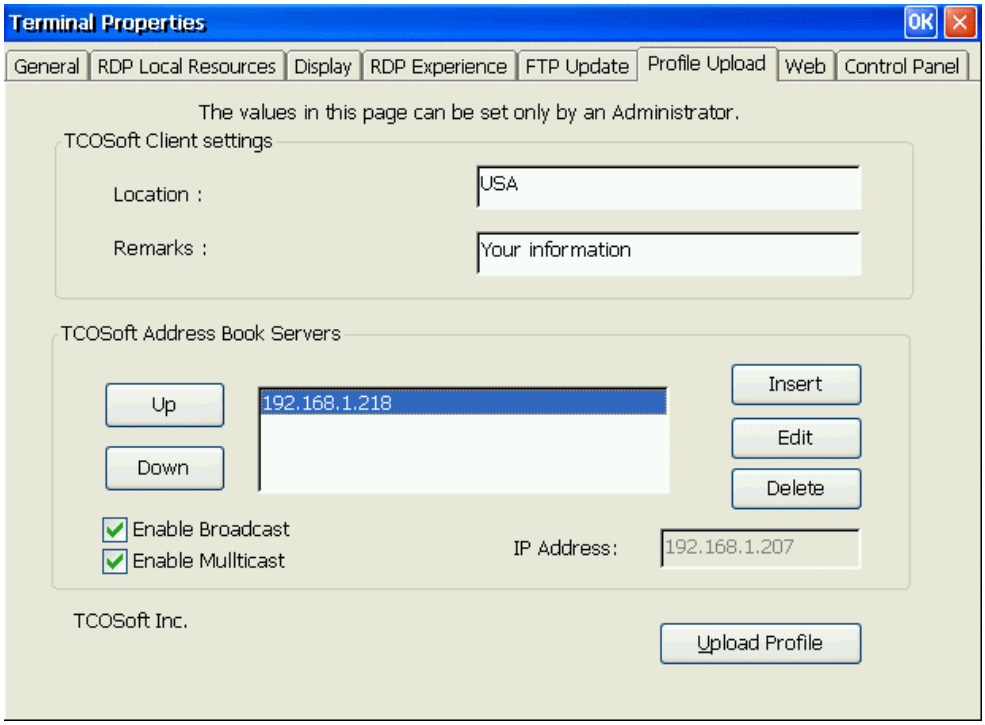
Use the FTP Update sheet if you wish to update your terminal's firmware from an FTP server. For more information, please refer to the Firmware Upgrade Utilities section.

Profile Upload

This properties sheet is intended for use with TCOSoft Remote Management software--optional (no-cost) software that provides management of Affirmative Computer Products Windows Based Terminals connected to an Ethernet network. The Remote Management software consists of a suite of agents (built-in to the WBT firmware), and Remote Director and Address Book Service (ABS) modules installed on an NT/2000/XP workstation or server in the same network. Address Book Service maintains information about WBTs that are registered with it. The Remote Director is the user interface to manage registered WBTs. Agents, which are included in the WBT firmware, allow the WBT to communicate with Remote Director and Address Book Service**.** For more information, please refer to the TCOSoft User Guide at http://www.affirmative.net/pub/TCOSoftUserGuide.pdf.

The configuration required by these agents is done in the Profile Upload properties sheet. Obviously, if you don't have the optional packages, Remote Director and Address Book Server, installed on the network, you can bypass this section

The Profile Upload properties sheet configures the properties that allow the terminal to be added to the Address Book Service directory in an automatic plug-and-play manner and to upload its profile of terminal properties and session information to Address Book Service. A network administrator can then use Remote Director to modify the profile and then download the modified profile to other terminals on the network.

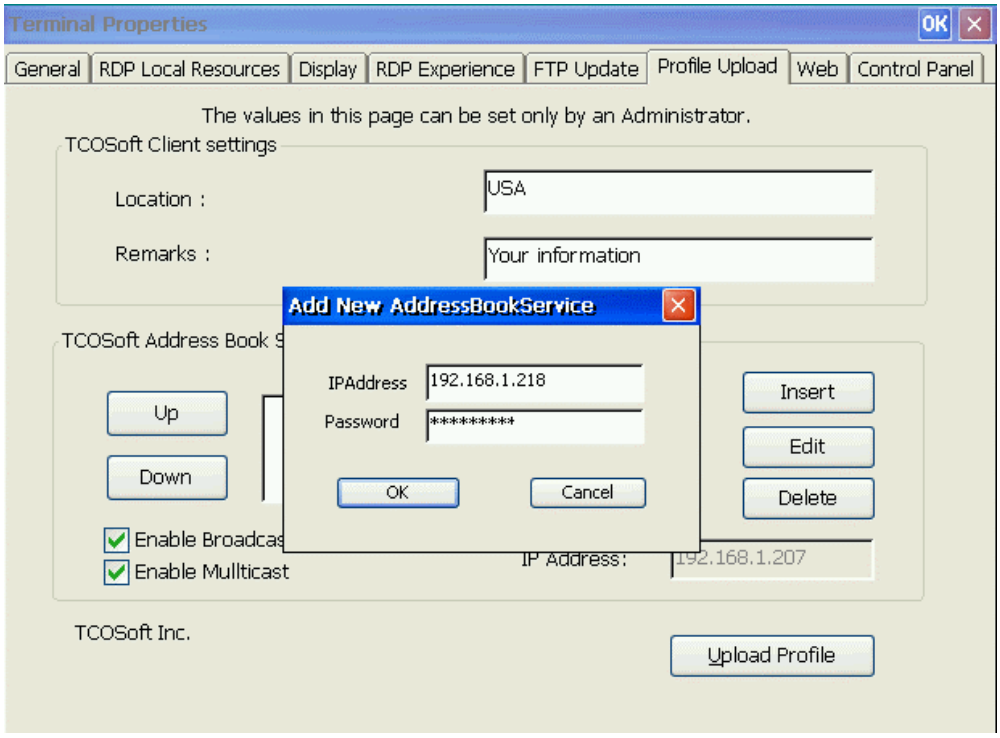


Profile Upload Properties Sheet

- **TCOSoft Client Settings**. The Location and Remarks fields allow you to provide more information to Remote Director software. It can help the network administrator identify your WBT in Remote Director. Both fields are optional.
- **TCOSoft Address Book Servers**. A network device that has Address Book Service installed is called an Address Book Server. Typically, Address Book Servers and WBTs communicate automatically with each other using TCP/IP broadcast (restricted to a single sub-net) or multicast (requiring a router to go communicate across sub-nets) protocols. Either broadcast or multicast protocol can be used if all devices are on the same sub-net. If some devices are on different sub-nets, multicast protocol must be used.
    - **Enable Broadcast/Multicast**. Although the default is to have both of these boxes checked, *only one* should be checked, and the correct one depends upon whether or not all devices are on the same sub-net, as described above. All devices on the network, including the Address Book Server, must use the same "casting" type.
    - **IP Address**. If broadcasting and multicasting have been enabled correctly on the WBT and on the Address Book Service, an ABS IP address should automatically appear in this field. This is the ABS that stores the WBT information and that will receive an uploaded profile. This should always work if all devices are on the same sub-net. But in a network of sub-nets, all routing elements must be capable of multicasting and must be

configured to do so. If an ABS IP address does not appear in the IP Address field, or if you want to upload profiles to a different ABS, you can enter the IP addresses of one or more ABS by clicking on **Insert**.

- **Insert**. Click on this button and the Add New AddressBookService dialog box will appear.

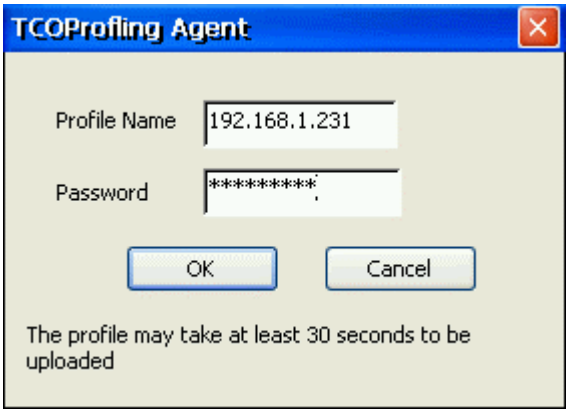


Add New AddressBookService Dialog Box

Fill in the blanks. A password may or may not be needed, depending upon how the network administrator has configured the ABS.

- **Up/Down**. Arrange the order in which the ABS servers are to be contacted by using the **Up** and **Down** buttons.

- **Upload** Profile. You may wish to use the terminal properties and session information of this terminal to configure other terminals. You can upload this terminal profile to the ABS by clicking on **Upload Profile** to display the TCO Profiling Agent dialog box.

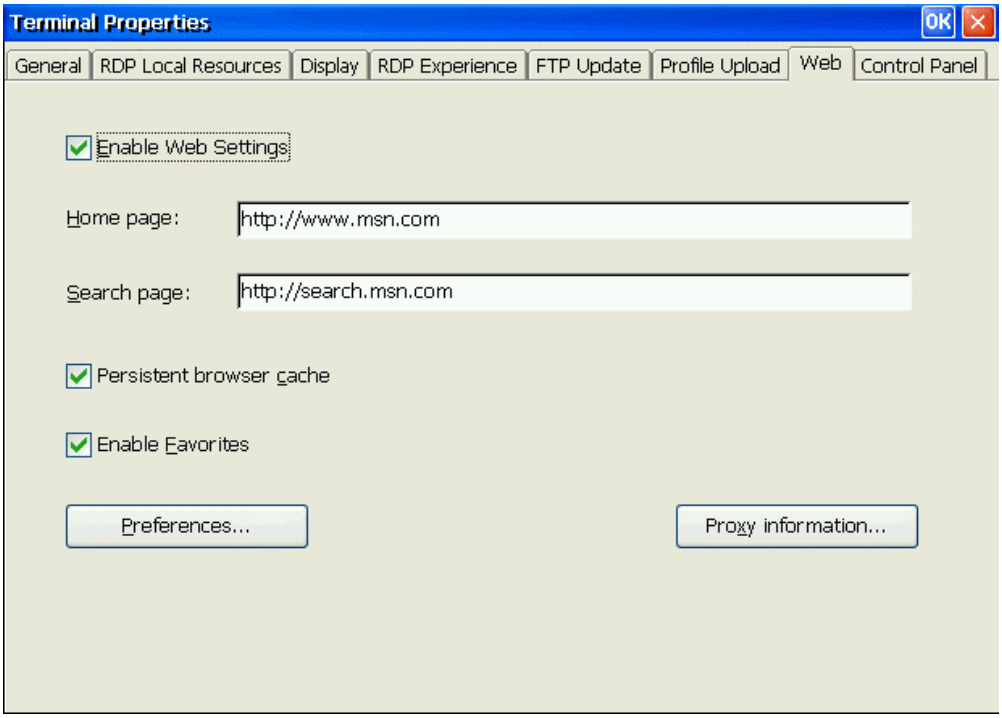


TCO Profiling Agent Dialog Box

Enter a friendly **Profile Name** to identify the profile at the Remote Director, and enter a password if required by the network administrator. Then click **OK**. You should get an acknowledgement after the upload is complete.

Web

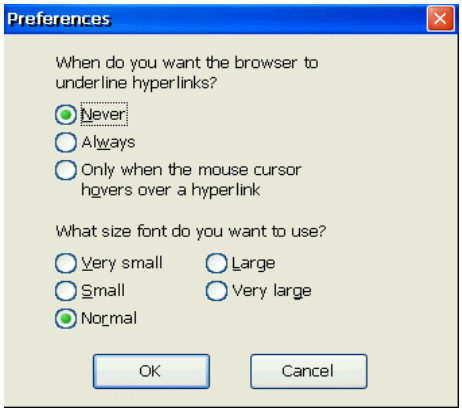
The Web properties sheet appears in all WBTs, but it is only useful if you have a Model 22xx, Model 2612, Model 2613, or Model 733x, since these models include browser support. If you have one of these models, use this sheet to configure your browser settings.



Web Properties Sheet

- **Enable Web Settings**. Check this box to allow Web sessions. The other parameters that you configure here will be used as default settings for all new Web sessions.
- **Home page**. This is the default home page for new Web sessions. This setting can be individually overridden in each Web session.
- **Search page**. This is the default search page for new Web sessions.
- **Persistent browser cache**. Check to maintain history and cookies across multiple web sessions..
- **Enable Favorites**. Check to enable.

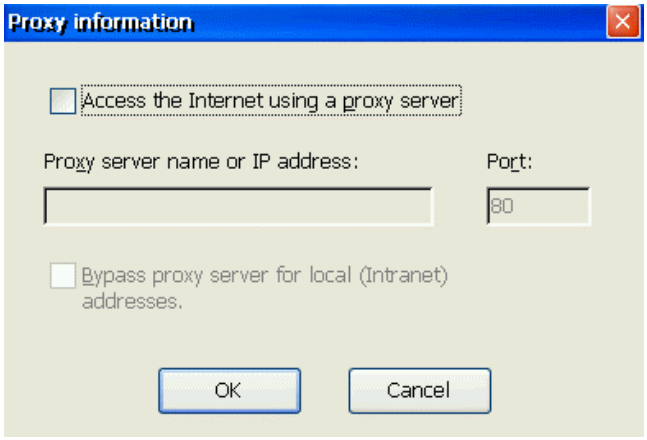
- **Preferences**. Click on this button to see the Preferences dialog box.



Preferences Dialog Box

These are standard browser preferences. **Note**: These preferences can be overridden in a web session.

- **Proxy information**. If your terminal connects to the web through a proxy server, click on this button. You will see the Proxy Information dialog box.

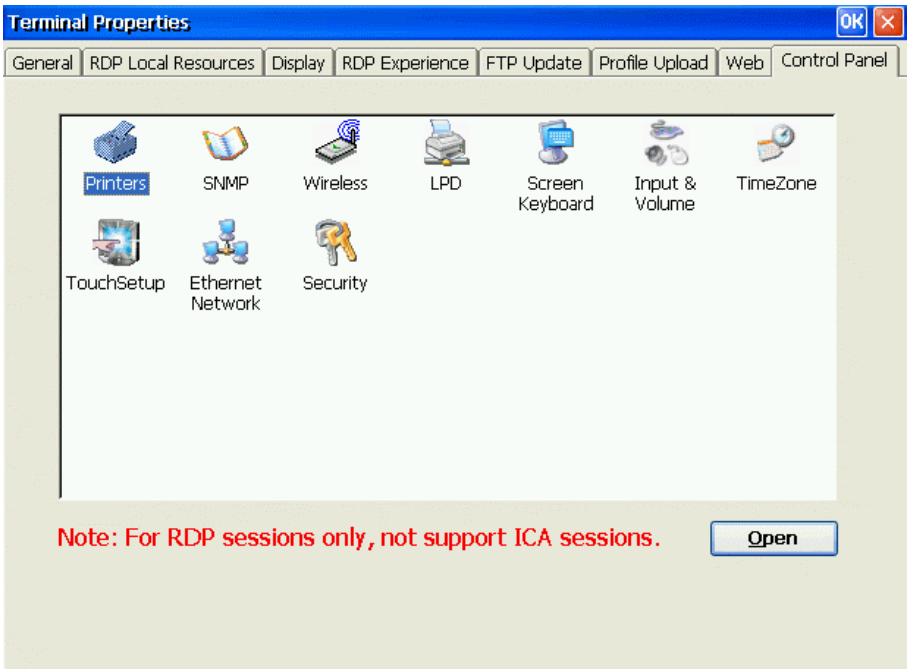


Proxy Information Dialog Box.

- **Access the Internet using a proxy server**. Check this box if you are using a proxy server
- **Proxy server name or IP address**. Enter the proxy server network name or IP address here.
- **Port**. This is the proxy server port that is handling your Web access. The default is 80 and should not be changed unless directed to do so by your network administrator.
- **Bypass proxy server…**. You may have a Web server on the same sub-net as the WBT, or you may want browser access to a device on the same sub-net. In this case, check this box.

Control Panel

This property sheet is very reminiscent of Windows 95/98 Control Panels. You will see either nine (22xx) or eleven icons representing necessary utilities. Double-click on an icon, or click on **Open**, to open the utility.



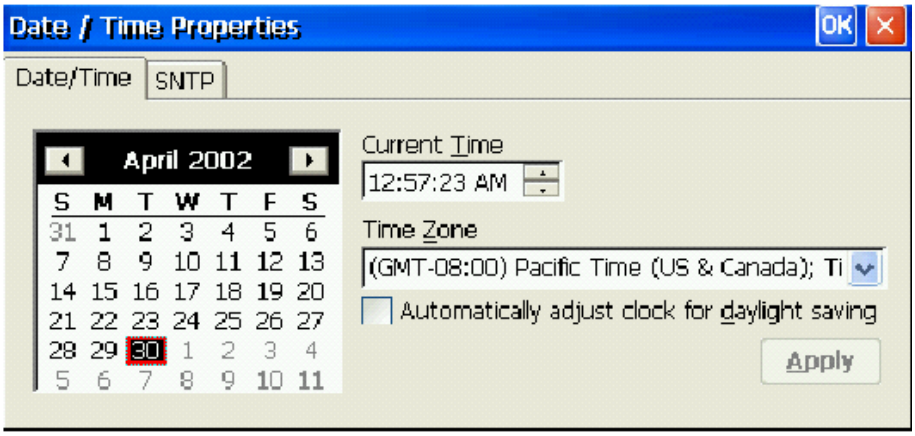
Control Panel Sheet for 26xx and 733x Terminals (ThinPrint not shown)

The positions of the icons are different in different terminal models, so they will be explained here in alphabetical order.

Date/Time (all models)

This utility is only useful for browser and ICA sessions.

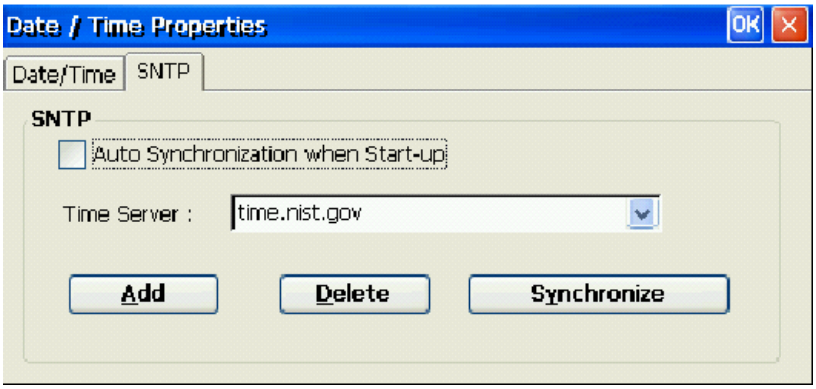
Date/Time



Date/Time Dialog Box

- **Calendar/Current Time**. These settings scan be useful in browser sessions, but are not used anywhere else.
    - **22xx models**. These models have a battery, so any adjustment that you make in these settings will be held while terminal power is off.
    - **26xx/733x models**. These models have no battery, so any adjustment that you make here will only be held until the power is turned off.
- **Time Zone**. Time Zone allows the user, when logging on to a MetaFrame XP server in a different time zone, to have the ICA sessions reflect the time zone of the local terminal. For example, a user in London (Greenwich Mean Time) logs onto a MetaFrame XP server in New York City (Eastern time zone), and launches Microsoft Outlook as a published application; Microsoft Outlook stamps emails sent during this ICA session with the user's GMT time zone information.

SNTP



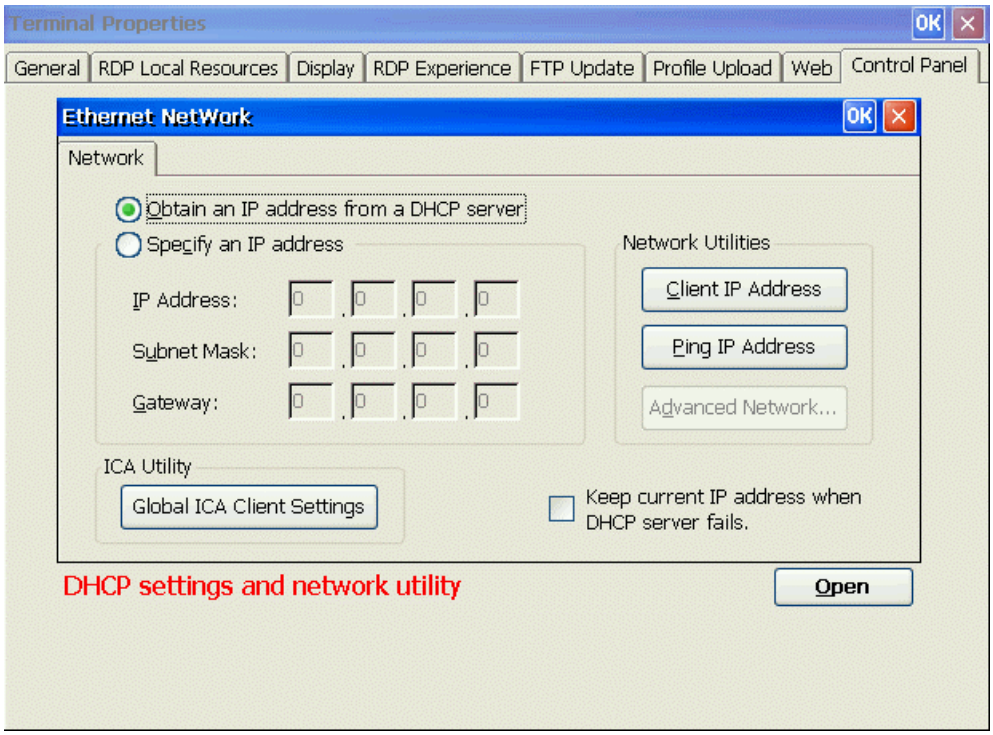
SNTP Dialog Box

This dialog box allows the terminal to sync the local **Current Time**, shown in the Date/Time dialog box, with a timeserver on the Web. Obviously, it only works if you have a Web connection (but you don't need a browser session).

- **Auto Sync…**. Check this box to sync the time whenever the terminal is rebooted.
- **Time Server**. Select a timeserver from the drop-down list.
- **Add**. Click here to open a dialog box that allows you to add the name of another timeserver of your choice.
- **Synchronize**. Click here to synchronize immediately without waiting for a reboot.

Ethernet Network (all models)

The Ethernet Network utility lets you control the terminal IP address, name server addresses, and global ICA client settings, as well as providing the useful ping function.

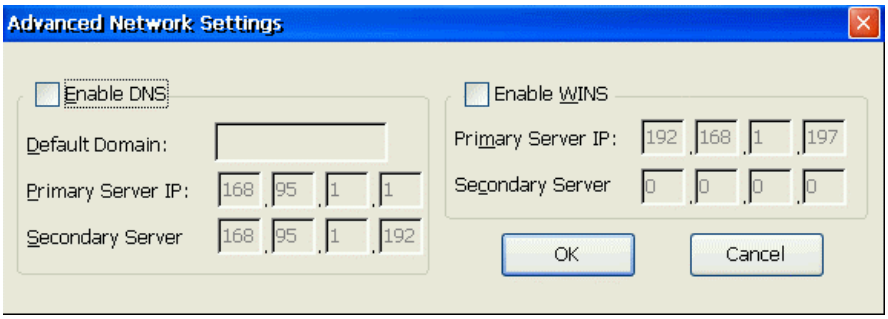


Ethernet Network Properties Sheet

- **Obtain an IP address from a DHCP Server**. Select this radio button to enable DHCP addressing.
- **Specify an IP address**. Select this radio button to enable the following three fields for a specific IP address setting.
    - **IP Address**. Enter a static IP address in this field.
    - **Subnet Mask**. Enter the subnet mask of the local network.
    - **Gateway**. Enter the IP address of a gateway if any server is not on the local sub-net.
- **Keep Current IP Address…**. If you are getting the IP address from a DHCP server, a check here will allow the terminal to use the last known IP address if the terminal cannot connect to the DHCP server.

Advanced Network

Activate this button to configure name server settings.

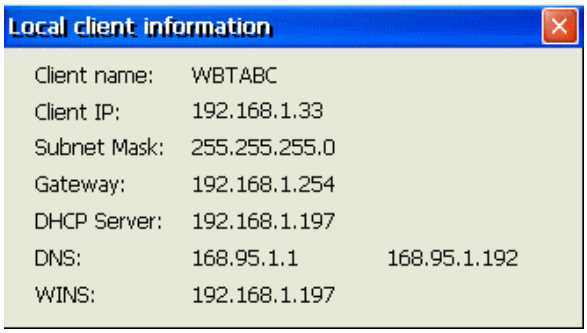


Advanced Network Settings Dialog Box

- **Enable DNS.** Activate this check box to enable the following three fields for the DNS setting.
- **Enable WINS**. Activate this check box to enable the following three fields for the WINS setting

Client IP Address

Click on this button to see the Local Client Information box.

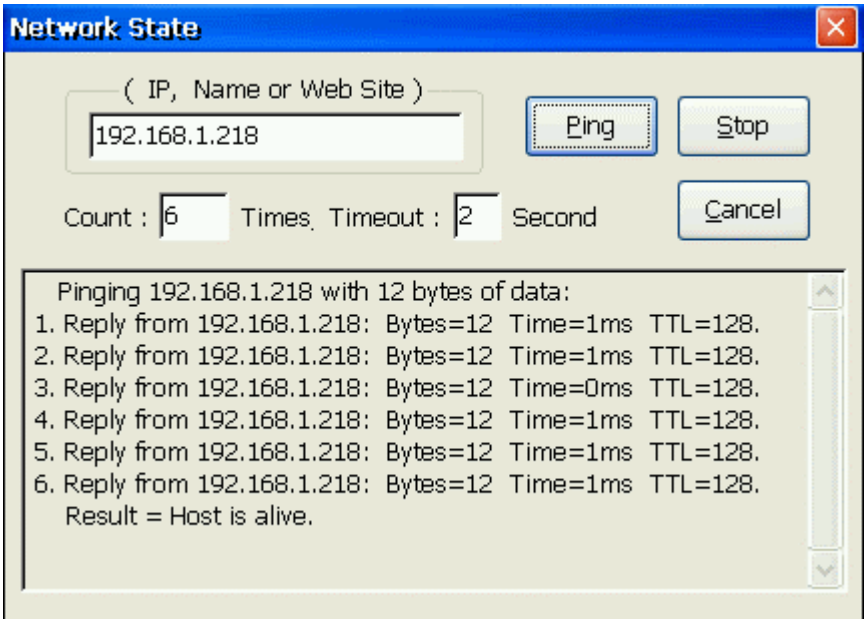


Local Client Information Box

You will see all the network information for this terminal, either obtained from a DHCP server or manually specified. The **Client Name** is the same as the terminal name.

Ping IP Address

Activate this button to display the Ping dialog box. You can ping the name or IP address of a host or any other device connected on the network. You can even ping a web site through a gateway.



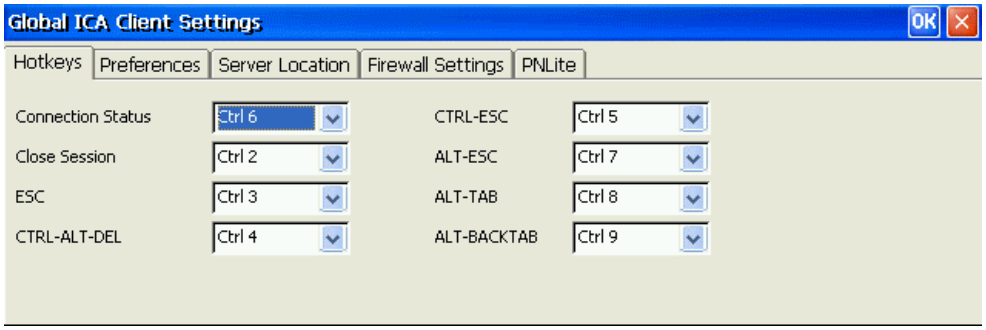
Ping Dialog Box

- **IP, Name or Web Site**. Enter the network name or the IP address of the device to be pinged.
- **Count**. Enter the desired number of ping attempts.
- **Timeout**. Enter the desired wait time, in milliseconds, before a ping attempt is recorded as failed.
- **Ping**. After entering the parameters above, activate this button to execute pings. The results will be shown in the list box.

ICA Utility

Click on **Global ICA Client Settings** to see the Global ICA Client Settings window with five settings sheets that can be invoked by activating their individual tabs. These settings will be used for all Citrix ICA sessions that are added to the terminal.

Hotkeys



Hotkeys Settings Sheet

Many hot-key combinations used in Windows applications cannot be used directly in client sessions because they are intercepted by the local operating system. Therefore, Citrix provides a way to substitute, or map, more obscure key combinations for some of the standard Windows hot-key combinations. For example, in the above screen, the combination **Ctrl+8** is substituted in the ICA client session for the standard hot key combination **Alt+Tab**. If you are in an ICA session, pressing **Ctrl+8** will have the same result in the active Windows application as pressing **Alt+Tab** on a PC.

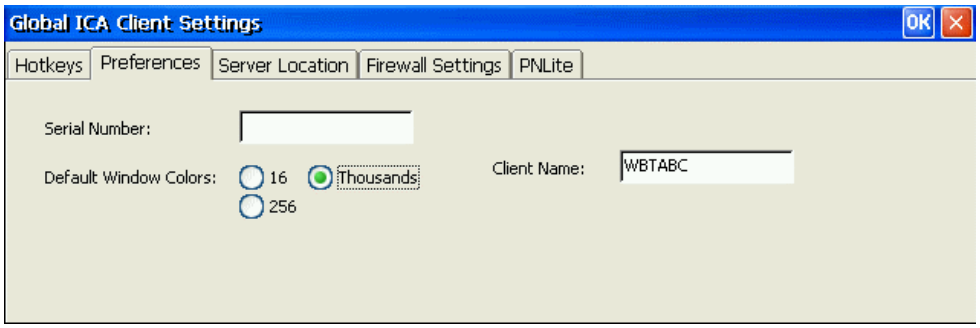
The following table lists the default ICA Windows CE Client hotkeys.

Function or PC Equivalent	Default Hotkey	Description
Status Dialog	CTRL+6	Displays ICA Client connection status.
Close Session	CTRL+2	Disconnects the ICA Windows CE Client from the Citrix server and closes the client window on the terminal. Using this hotkey leaves the ICA session running in a disconnected state on the Citrix server. If you do not want to leave your session running in a disconnected state, log off instead.
ESC	CTRL+3	Provides the functionality of an ESC key on your terminal.
CTRL-ALT-DEL	CTRL+4	Displays the Windows NT Security dialog box on a MetaFrame for Windows server.
CTRL-ESC	CTRL+5	On MetaFrame for Windows servers, the Windows Start menu is displayed. On *WINFRAME* servers, this hotkey displays the Task List.
ALT-ESC	CTRL+7	This hotkey cycles the focus through the minimized icons and open windows of applications running in your ICA session
ALT-TAB	CTRL+8	This hotkey cycles through all applications in the ICA session. A pop-up box appears and displays the programs as you cycle through them. The selected application receives keyboard and mouse focus.
ALT-BACKTAB	CTRL+9	Like the ALT+TAB hotkey, this key sequence cycles through applications that have been opened in the ICA session, but in the opposite direction. The chosen application receives keyboard and mouse focus.

But you may want to change this mapping. If so, execute the following procedure:

1. Click on the drop-down arrow for the hot-key combination that you want to change.
2. Select a new combination from the drop-down list. **Note:** There are no safeguards to prevent you from choosing the same hotkey combination for multiple functions. Expect erratic performance if you do so.
3. Repeat for other hot keys as desired.
4. **OK** out of the window, or select another tab to change other settings. If you **OK** out, you will be asked if you want to reboot to make the changes effective.

Preferences

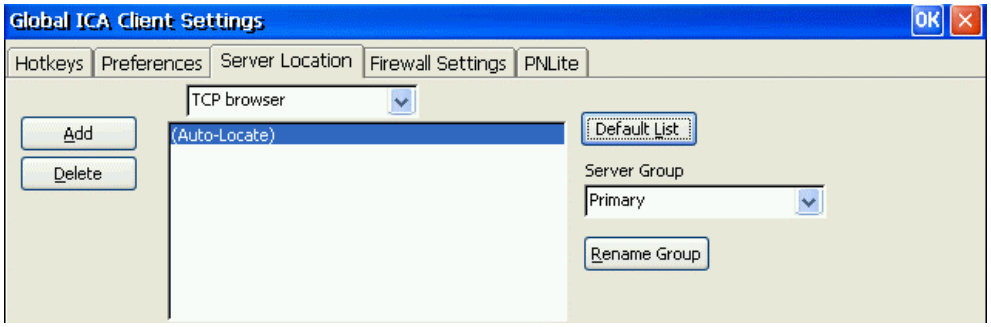


Preferences Settings Sheet

- **Serial Number.** This is the serial number of your ICA Client software. This number is only necessary when you are using the ICA Windows CE Client with a product such as *WINFRAME* Host/Terminal, which requires each ICA Client to have a Citrix PC Client Pack serial number. If a serial number is required, you must enter it exactly as it appears on the Serial Number card. The serial number is not used when connecting to MetaFrame servers.
- **Client Name.** The name shown here is the same as the terminal name seen in Terminal Properties|General. Citrix servers use the client name to uniquely identify resources (such as mapped printers) associated with a given client device. The client name should be unique for each terminal running a Citrix ICA Client. **Note:** If you do not use unique client names, device mapping and application publishing may not operate correctly.
- **Default Colors**. We recommend that you select 16 or 256 colors. There is a Citrix bug that sometimes produces strange video results at higher settings.

Server Location

The information entered in this dialog box is used to help locate available Citrix servers and published applications.



Server Location Settings Sheet

Server location (also called server browsing) provides a method for a user at a network-connected Citrix ICA Client to view a list of all MetaFrame servers on the network that have ICA connections configured for that network protocol, or a list of all published applications. You can specify a separate server location for each network protocol. **Tip:** Set a specific server address for the Citrix server that functions as the master ICA Browser when your network configuration uses routers or gateways, or to eliminate broadcasts on your network.

The way in which server location works depends on which network protocol has been configured:

- **TCP+HTTP Browser** and **SSL+HTTPS Browser** — The default server address is ica.*domainname*, where *domainname* is a TCP/IP domain name. The ICA Client uses the HTTP or HTTPS protocol respectively to contact the MetaFrame servers. **Note:** If you are going to use SSL security for your ICA sessions, you must choose **SSL+HTTPS Browser** protocol.
- **TCP Browser** — The default setting for server location is auto-locate. The ICA Client attempts to contact all of the servers on the subnet by broadcasting on the UDP protocol. Alternatively, you can set specific addresses for MetaFrame servers.

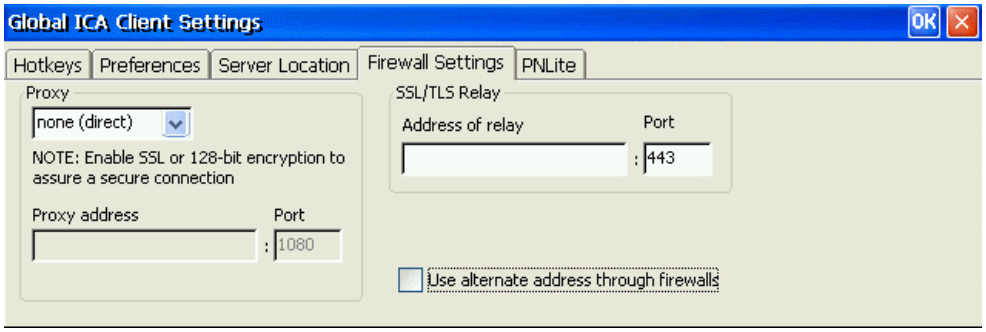
Business recovery provides consistent connections to published applications in the event of a master ICA browser server disruption. You can define up to three groups of MetaFrame servers to which you want to connect: a primary and two backups. Each group can contain from one to five servers. When you specify a server group for your client, the client attempts to contact all the servers within that group and the first server to respond passes its master browser address to the client.

To configure server location and business recovery:

1. Select the required network protocol from the drop-down list.
2. Click **Add** to display the **Add Server Address** dialog box.
3. Enter the name or IP address of a MetaFrame server. **Note:** For the TCP/IP+HTTP and SSL+HTTPS protocols, if you do not enter an IP address, you must have a MetaFrame server on your network mapped to the default name of ica.*domainname*, where *domainname* is a TCP/IP domain name. TCP/IP+HTTP and SSL+HTTPS server locations do not support the **(Auto-Locate)** function.
4. To define other server groups, select the required group from the **Server Group** and repeat steps 2 and 3.
5. Click **OK**.

Firewall Settings

If the network has a SOCKS proxy server to limit access to your Citrix servers, you must enter the proxy server information here to handle connections between clients and the server. You can configure a default SOCKS proxy for all connections here, or you can configure a SOCKS proxy for a specific client session under the specific session properties (see Creating a New Connection|Citrix ICA Client|Network Connection).



Firewall Settings Sheet

Configuring a Default SOCKS Proxy Server

1. In the Proxy drop-down list, select **SOCKS**.

2. In the Proxy Address box, enter the SOCKS proxy server's IP address or DNS name.
3. In the Port box, enter the proxy server's port number (if different than 1080).
4. Click OK to save your changes.

Note: If you configure a default SOCKS proxy, you must specify at least one server in the Server Location tab for server and published application browsing to work.

Configuring a Secure Proxy Server

If you want to connect to a MetaFrame server beyond a firewall, and your network is using a Secure proxy server, you must configure the ICA Client to connect to MetaFrame servers through the Secure proxy server. You can configure a default Secure proxy for all connections here or a Secure proxy for a specific client session (see Creating a New Connectio|Citrix ICA Client|Network Connection).

To configure a default Secure proxy server:

1. Select **Secure (HTTPS)** from the Proxy drop-down list.
2. In the Proxy Address box, enter the Secure proxy server's IP address or DNS name.
3. In the Port box enter the Secure proxy server's port number.
4. To enable SSL/TLS Relay, enter the **Address of relay** and the **Port number** in the appropriate boxes.
5. Click **OK** to save your changes.

Note: If you configure a default Secure proxy, you must specify at least one server in the Server Location tab for server and published application browsing to work.

Connecting to a Server Across a Firewall

Network firewalls can allow or block packets based on the destination address and port. You can configure the ICA Client here to connect to a MetaFrame server through a firewall. If the firewall uses address remapping, you must configure the ICA Client to use the alternate address returned by the master ICA Browser. This is necessary whether or not you are using a SOCKS/Secure proxy server.

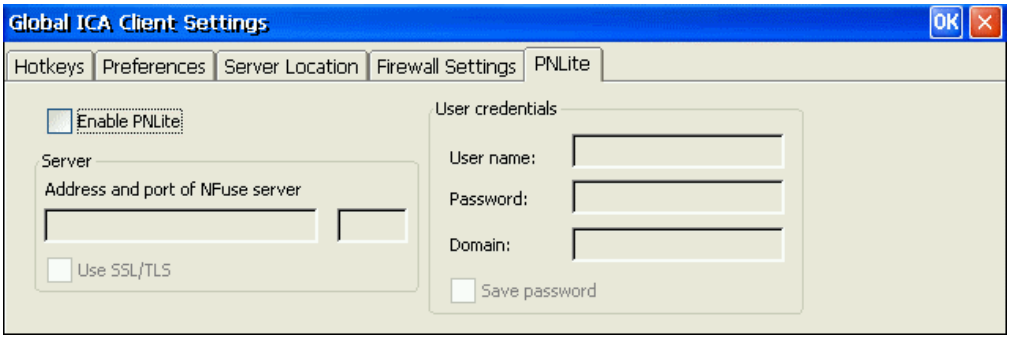
To use alternate address translation for all connection entries:

1. Check **Use alternate address through firewalls**.
2. Click **OK** to save your changes.

Note: If you set alternate address translation here, it cannot be disabled for specific Client sessions.

PNLite

PNLite is a connection mode that allows you to connect to an Nfuse-enabled Citrix server and obtain a list of published applications that you can connect to. In this mode, you do not have to manually configure each ICA connection, but a list of published applications will be 'pushed' (made available) to your session. Connect to any published application in that list by double-clicking on an entry.



PNLite Settings Sheet

To use PNLite:

1. Check **Enable PNLite.**
2. Enter the address and port number of the Citrix Nfuse server in the **Address and port of NFuse server** box.
3. To connect using SSL/TLS, check **Use SSL/TLS TLS**.
4. Enter your user name, password, and domain in the appropriate User Credentials box.
5. If you want the program to remember your password, check **Save Password**.
6. Click OK to save your changes.

The list of available applications will now be displayed in the Connection Manager dialog box.

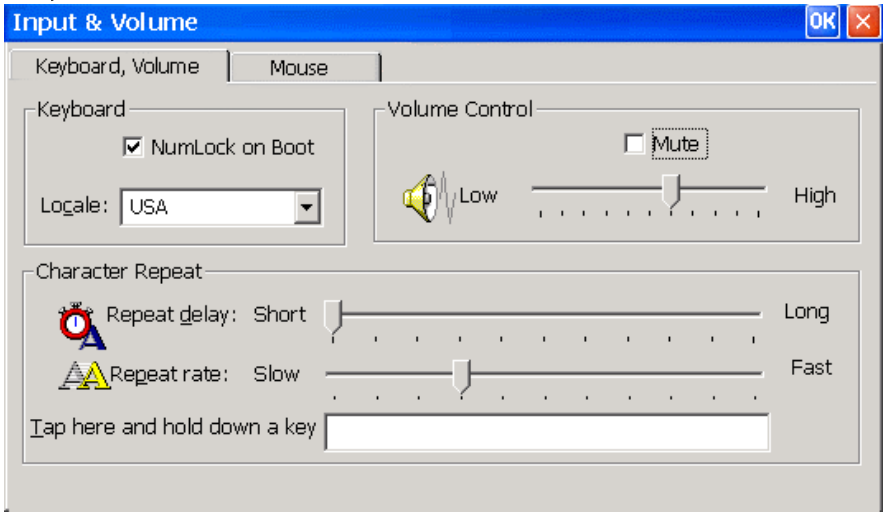
FTP Update (22xx models)

For 26xx and 733x models, see Configure Terminal Properties|FTP Update.
Use the FTP Update sheet if you wish to update your terminal's firmware from a local FTP server. For more information, please refer to the Firmware Upgrade Utilities section.

Input & Volume (all models)

Configure your keyboard, mouse, and audio settings here.

Keyboard, Volume

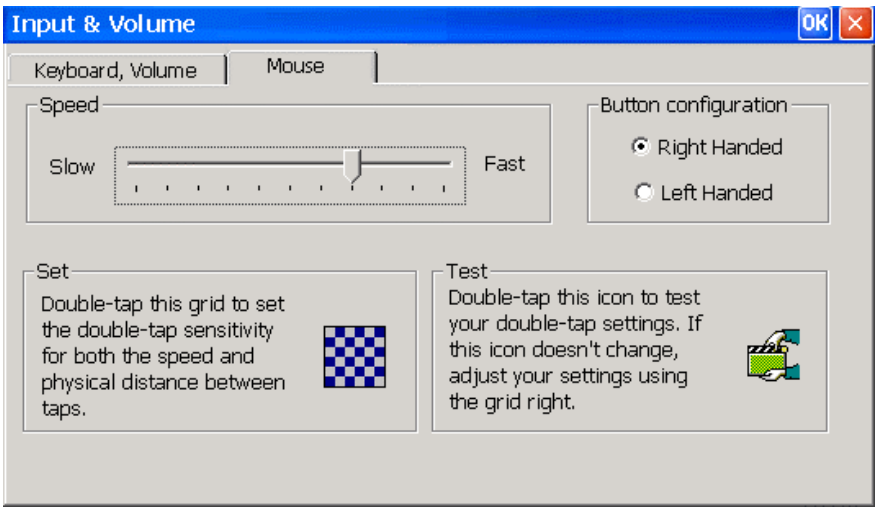


Keyboard, Volume Settings Sheet

- **Keyboard**
  - **NumLock on Boot**. Check to force Numeric Pad NumLock when the WBT starts up.
  - **Locale**. Use the scroll list to select a language and number of keys for the keyboard. Default is **OEM 122 USA**, which is the setting required if the Affirmative Computer Products 122-key keyboard is used with the terminal. If "122" is not shown, the number of keys is assumed to be 101.
- **Character Repeat**
  - **Repeat Delay**. Use this slider control to define how long a character key must be held down before that character will start to repeat on the screen.
  - **Repeat Rate**. Use this slider control to define how often a character will repeat when that character key is held down.

  You can test your repeat settings in the test box.
- **Volume Control**.
  - Use the slider control to adjust the volume of the audio.
  - Use the "Mute" check box to disable the audio of the WBT.

Mouse



Mouse Settings Sheet

- **Speed**. Use the slider control to set the speed of the cursor movement on screen vs. the movement of the mouse.
- **Button Configuration**. Use the radio buttons to select "Right Handed" or "Left Handed" for your clicking convenience.
- **Set**. Place the cursor on the grid and then double-click to set speed and distance sensitivity.
- **Test**. Test your double-click sensitivities here.

Mouse Miscellanea

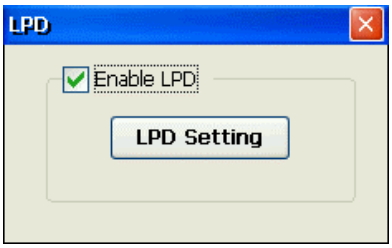
- **PS/2 wheel mice** work well in ICA and RDP sessions. The extra wheel/button does not work in native applications (emulators, viewers, browsers).
- **USB mice** plugged directly into a USB port do not work well. The cursor movement is very jerky.
- **Two-button USB mice** work well if they are plugged into the PS/2 port through a converter.
- **Three-button USB mice** work if they are plugged into the PS/2 port through a converter, except:
  - The extra wheel/button does not work in native applications (emulators, viewers, browsers).
  - Wheel scrolling does not work in ICA and RDP sessions.

LPD (all models)

The Berkeley versions of the UNIX™ operating system provide printer spooling with a collection of programs: lpr (assign to queue), lpq (display the queue), lprm (remove from queue), and lpc (control the queue). These programs interact with an autonomous process on network print servers called the line printer daemon (LPD).

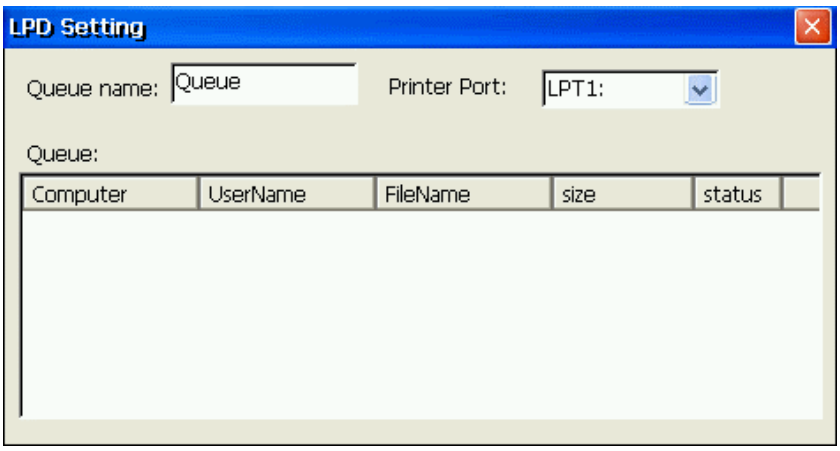
Each YES*tation* terminal includes an LPD module that allows an LPR device on the network to assign print jobs to a local printer attached to the terminal.

Double-click on the **LPD** icon to see the following dialog box.



LPD Dialog Box

Check **Enable LPD** and then click on **LPD Setting**.

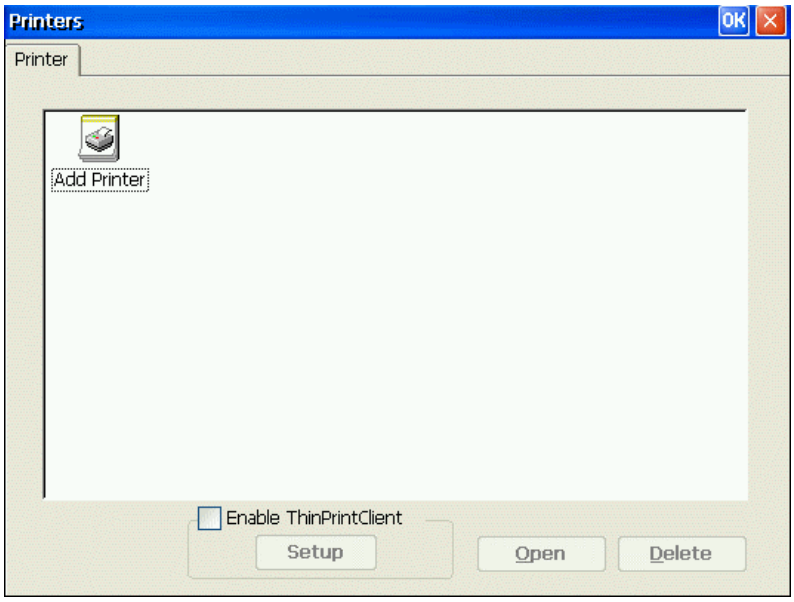


LPD Settings Sheet

- **Queue name**. Define a queue name here. This will be the queue name used by LPR devices to assign print jobs.
- **Printer Port**. Select a port from the drop-down list. You may have several printers on different ports, but only one of them can be assigned as an LPD printer.
- **Queue**. This box shows the status and source of all the print jobs currently in the LPD queue.

Printers (all models)

Click on this icon to show the printers that are currently configured on your terminal.

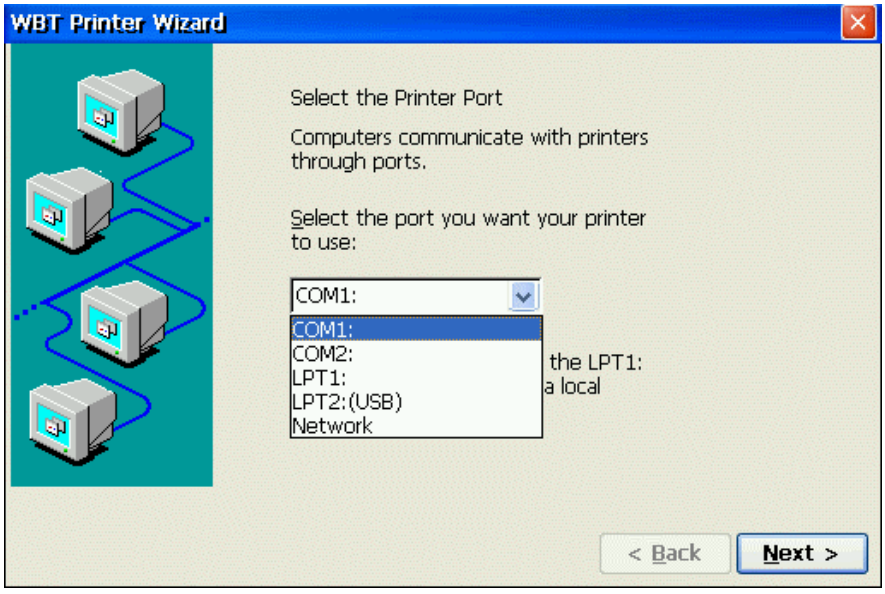


Printer Status Sheet

Note: You will not see any ThinPrintClient box or button. This has now been moved to a separate icon in the Control Panel. See ThinPrint.

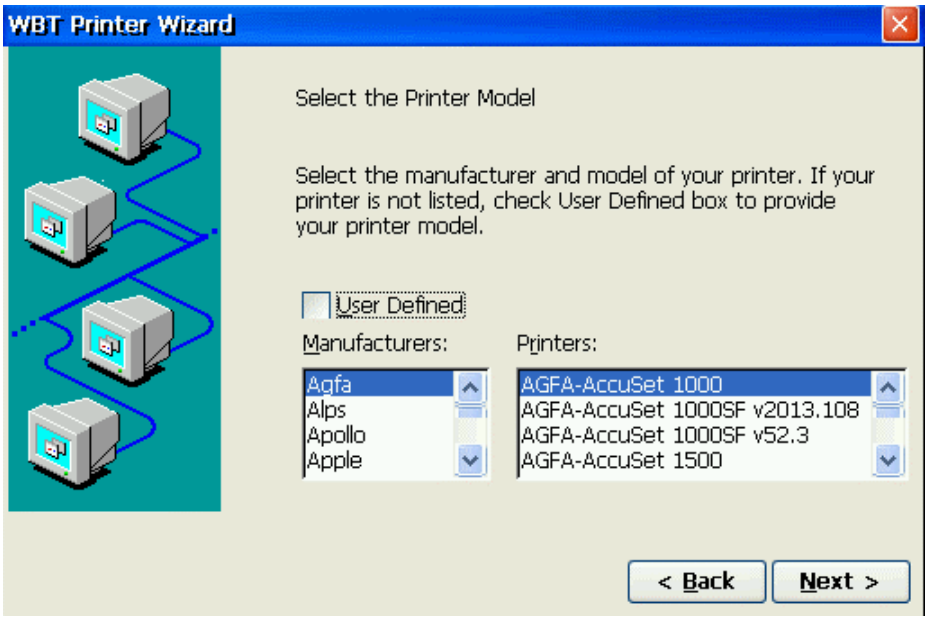
If you already have configured printers on this terminal, double-click on a printer icon, or highlight an icon and click on **Properties**, to see the printer properties.

To add a printer, double-click on the **Add Printer** icon, or highlight this icon and click on **Open**, to start the WBT Printer Wizard.



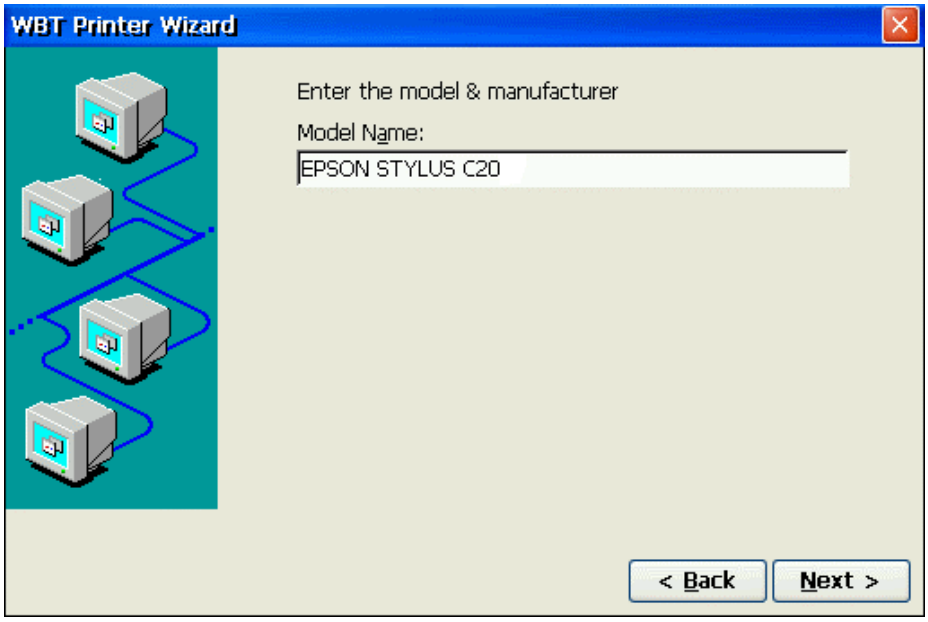
WBT Printer Wizard Dialog Box #1

- You must select a printer port. You can have more than one local printer, but each one must be assigned to a different printer port. If you have a USB printer already connected to the terminal, you will see a **USB** option in the drop-down list, as well as the typical **LPT1**, **COM1/2** (non-22xx terminals), and **Network** options.
- If you select a network printer, enter the printer network path in the **Network** field. You can have multiple network printers.
- If you select a COM port (not applicable for 22xx terminals), you can configure the properties later in Terminal Connection Manager by creating a bogus Dial-Up session (see Creating a New Connection|Dial-Up Client|Configure).



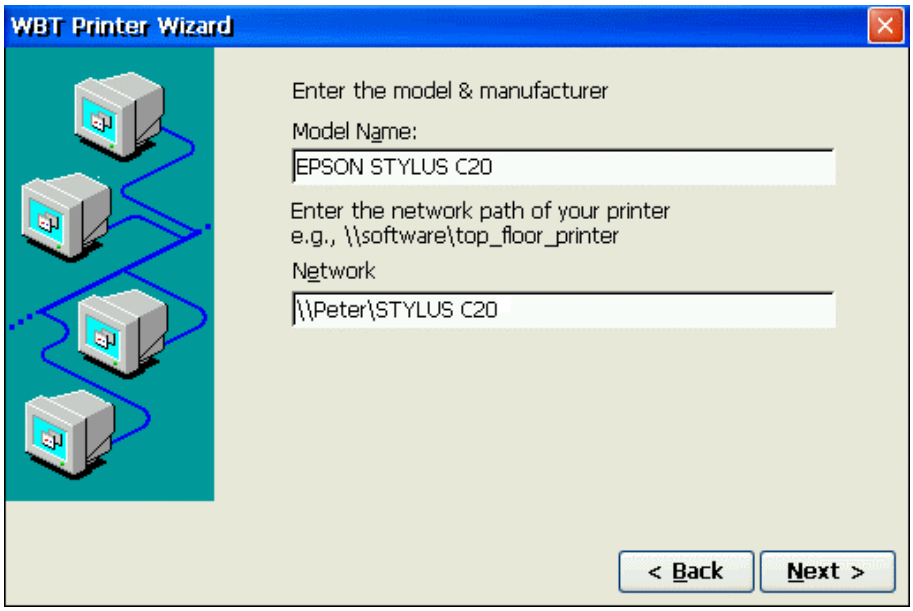
WBT Printer Wizard Dialog Box #2

- Select a printer manufacturer from the manufacturer drop-down list. After you select the manufacturer, the right-hand drop-down list will provide a list of models for that manufacturer.
- Select the printer model. If your model is not shown here, try to find a compatible printer in the list. It may be that your printer is compatible with a model from a different manufacturer. If that is the case, go back, change the manufacturer selection, and then choose the compatible model from that drop-down list. **Note:** There are no local Windows printer drivers in these terminals. You must have a driver in your Windows Terminal Server that corresponds to the selected model.
- Another option, if your printer is not found in the lists, is to check **User Defined**. In this case, you will then see dialog box #2a.should then enter the model name, in the **Model Name** field, that corresponds to the printer driver on your Windows Terminal Server.



WBT Printer Wizard Dialog Box #2a

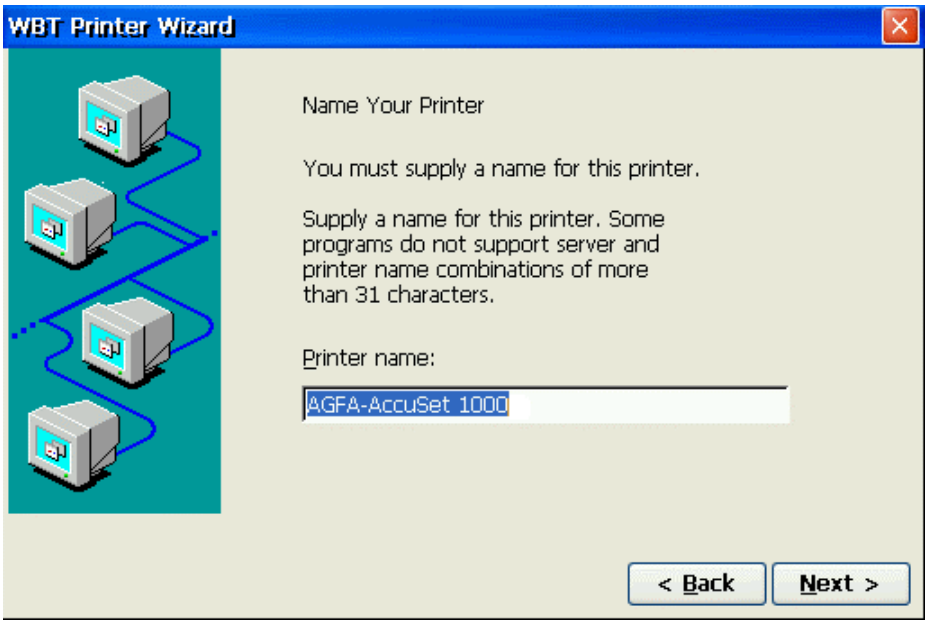
If you chose **User Defined** in the previous dialog box, #2, you will see this dialog box #2a. Enter the model name, in the **Model Name** field, that corresponds to the printer driver on your Windows Terminal Server.



WBT Printer Wizard Dialog Box #2b

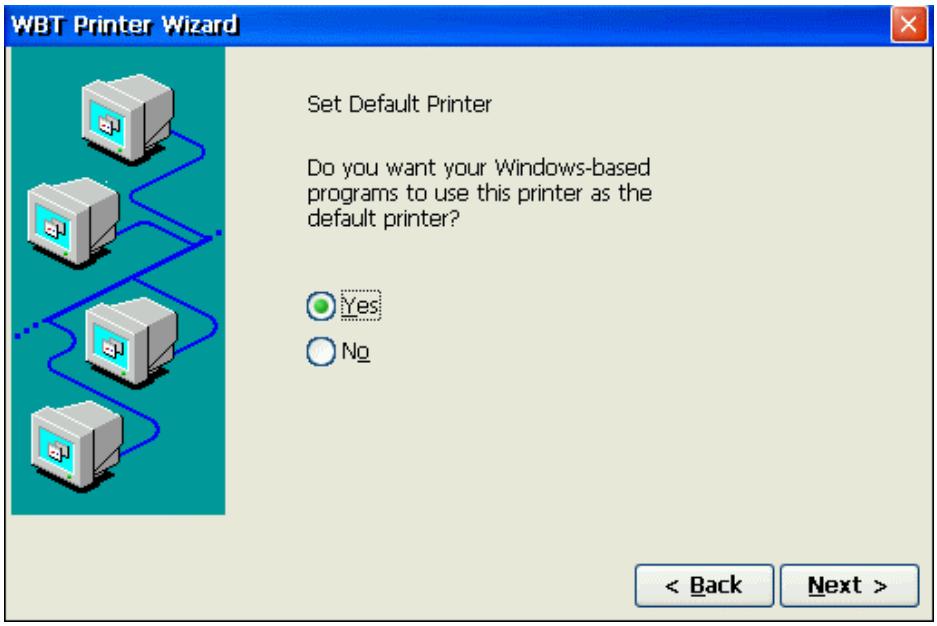
If you chose a network printer in dialog box #1, you will see this dialog box #2b.

- **Model Name**. This is the model name entered in dialog box #2 or #2a.
- **Network**. Enter the path to your network printer.



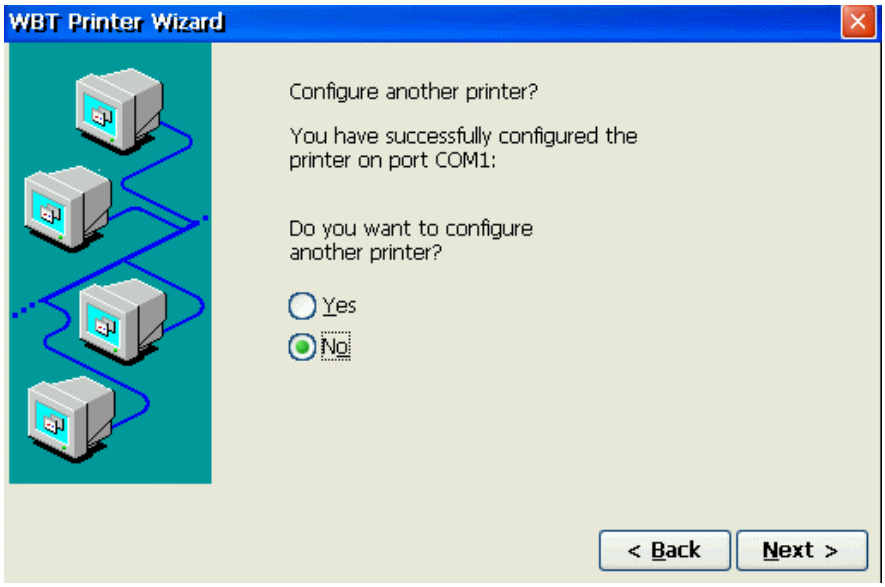
WBT Printer Wizard Dialog Box #3

You must provide a "friendly" name for your printer. This name will identify your printer in the Printers settings screen on your server. The default name is the model name that you selected in the previous dialog boxes.



WBT Printer Wizard Dialog Box #4

Select whether or not you want this local printer to be the default printer for your Windows (ICA and RDP session) applications.



WBT Printer Wizard Dialog Box #5

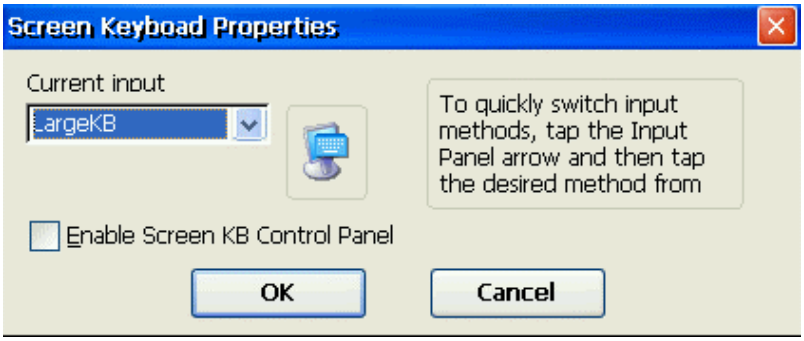
You are given the opportunity to begin the configuration of another printer. If you select **Yes**, you will repeat the above dialog boxes for that printer. If you select **No**, you will go on to the Finish dialog box.

Final WBT Printer Wizard Dialog Box

- Click on **Finish** to apply your selections.
- Click on **Back** to return to the previous dialog box.
- Click on **X** to forget the whole thing and go back to the Control Panel screen.

Screen Keyboard (26xx models)

This feature is intended for use only with touch screens (see TouchSetup), but you can play with it using a mouse cursor if you want to.

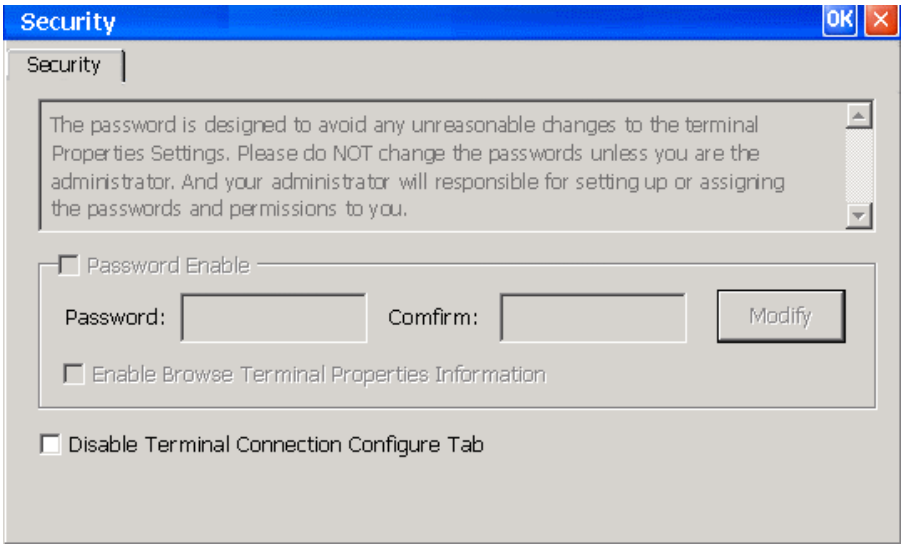


Screen Keyboard Settings Sheet

- **Current input**. Choose one of two sizes of keyboard from the drop-down list.
- **Enable Screen…**. Check this box to cause an Enable/Disable button to be shown in the lower right corner of the screen after the terminal is booted up. Then you can click on the button to enable or disable the screen keyboard. This is useful when you bypass the Terminal Connection Manager, which also has an Enable/Disable button, because of an Autostart session. This check box only takes effect on boot up.
- **To quickly switch…**. Ignore these instructions; I can't figure out what they mean.

Security (all models)

Several levels of security can be configured in this utility.



Security Settings Screen

- **Password Enable**. Check this box to enable password security. Then enter and confirm a password in the boxes. The factory default password is **"guest"**.

Note: The password is designed to avoid any unreasonable change to the Terminal Properties Settings. Please do NOT change the password unless you are the administrator. If you forget the password, it will be difficult to recover. There are two methods of recovery if you forget the password.

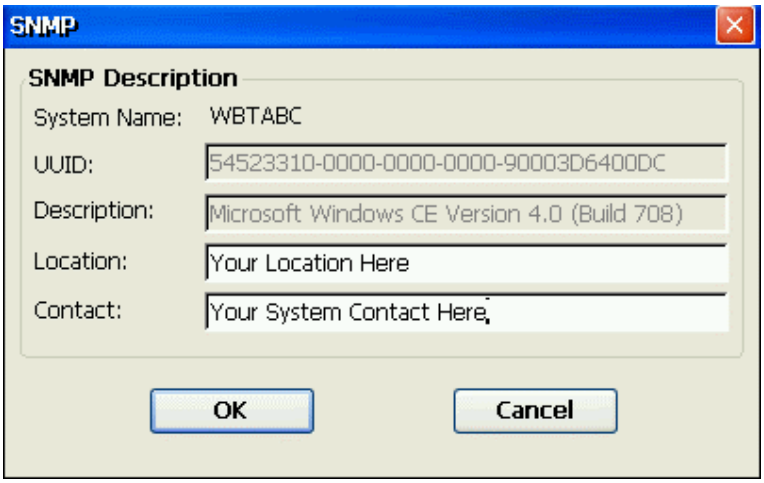
- Contact your distributor or Affirmative Computer Products get a super password.
- Use Remote Management software to change the password settings.

- **Enable Browser Terminal Properties Information**. If you check this box, a user can view Terminal Properties even if a password is enabled, but the user cannot change any of them without entering the password.
- **Disable Terminal Connection Configure Tab**. Check this box to hide the Configure tab of the Terminal Connection Manager. This can be done even if a password is not enabled. If you do this, the user will be unable to add, delete, or edit any sessions.

SNMP (all models)

Simple Network Management Protocol (SNMP) is the Internet standard protocol for network management and is part of the TCP/IP protocol suite. SNMP uses a distributed architecture that consists of managers and agents. The SNMP agent is an application that monitors network traffic and responds to queries from SNMP manager applications. The agent also notifies the manager when significant events occur by sending a trap. The SNMP manager is an application that generates queries to SNMP-agent applications and receives traps from SNMP-agent applications.

All YES*tation* terminals contain an SNMP agent.



SNMP Description Sheet

This sheet only provides descriptive information to an SNMP manager.

- **System Name**. This is the Network Name shown in the General tab of Terminal Properties.
- **UUID**. This is the Product Identification shown in the General tab of Terminal Properties.
- **Description**. This gives the version and build of the Windows CE operating system, with the information provided automatically by the operating system. **Note:** Version 4.x denotes the CE.net operating system.
- **Location/Contact**. You can enter information here to aid the SNMP manager.

ThinPrint (all models)

ThinPrint enables direct printing from the terminal to network printers and local printers. With the ThinPrint Client, a print job can be delivered over the Citrix ICA protocol to the device and from there direct to the selected printer. To learn more about ThinPrint advantages, go to http://www.thinprint.com/ on the Web.

To configure ThinPrint:

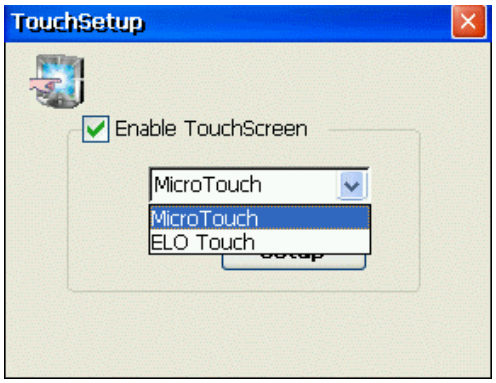
1. Double-click on the icon
2. A small ThinPrint dialog box will appear. Check **Enable ThinPrintClient**.
3. You will be told that you have to restart the terminal. Click on **Yes**.
4. After the terminal has rebooted, enter Control Panel again and double-click on the ThinPrint icon.
5. You will see the ThinPrint dialog box again, but now you can click on **Enable**. Do so.
6. You will see the ThinPrint Client Configuration window appear.

ThinPrint Client Configuration Window

For information on using this window, go to http://www.thinprint.com/download/information/manuals/englisch/dot_print_client_winCE_e_01.pdf on the Web.

TouchSetup (26xx models)

Only the 26xx models can support a touch screen, because a touch screen requires a serial port to communicate the touch information. Two touch screen vendors, MicroTouch and ELO Touch, are supported

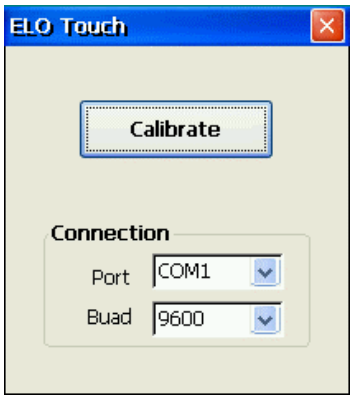


TouchSetup Dialog Box

- **Enable TouchScreen**. Check this box to enable touchscreen support.
- **Setup**. Select your touch screen vendor from the drop-down list, and then click on **Setup**. The next window you see will depend upon which vendor you chose.

ELO Touch

Most ELO Touch configuration is done from on-screen menus under control of the built-in controllers. Very little can be done here in the terminal Control Panel. After you click on **Setup**, you will see the following dialog box.



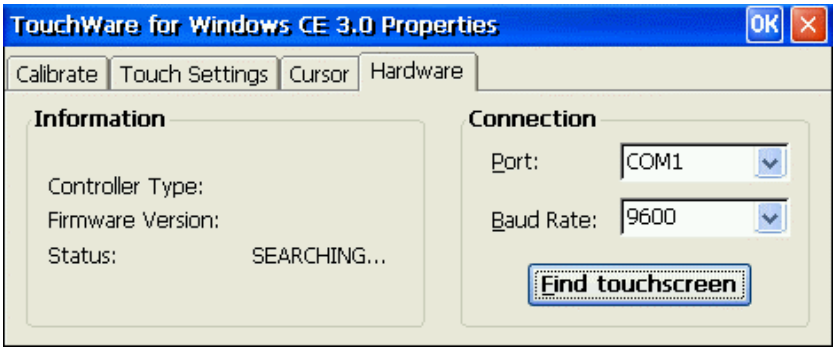
ELO Touch Dialog Box

- **Port**. Select the serial port used with the touch screen.
- **Baud**. Select the baud rate to be used with the touch screen.
- **Calibrate**. Click on this button to initiate the calibration procedure.

MicroTouch

Click on **Setup** to see the properties window with four tabs.

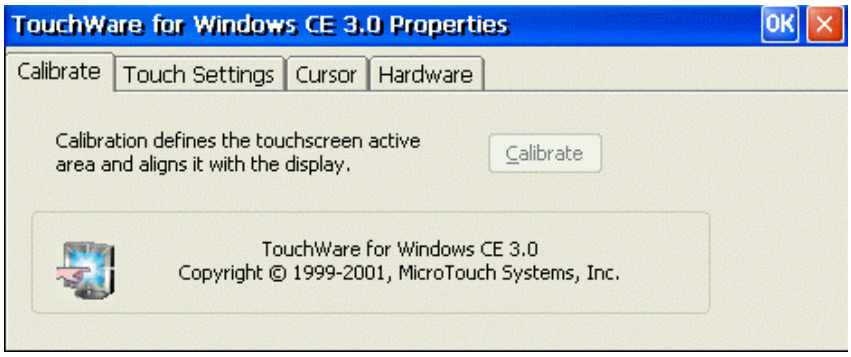
Hardware



MicroTouch Hardware Properties Sheet

- **Port**. Select **COM1** or **COM2**. You will see other choices in the drop-down list, but they are not applicable here.
- **Baud Rate**. Select an appropriate baud rate for your touch screen.
- **Find touchscreen**. When you select a port, it will automatically be searched for a touch screen connection, and the results will be shown in the Information area. But if you want to repeat the search, click on this button.

Calibrate



MicroTouch Calibration Sheet

After you connect your touch monitor, you must calibrate the touch screen. The calibration process aligns the touch screen with the underlying video. It defines the dimensions of the active area of the touch screen and locates the center of the touch screen.

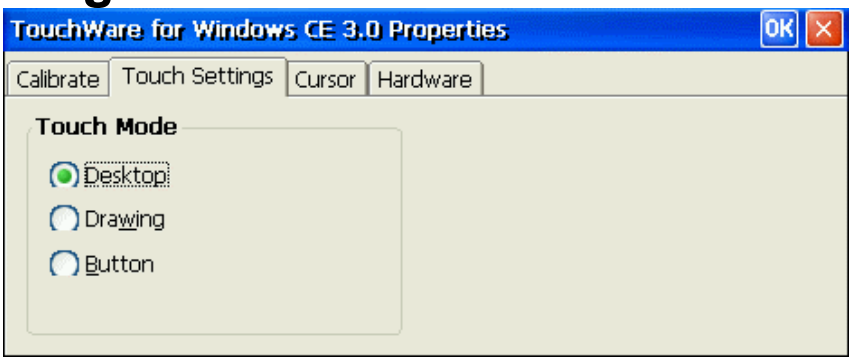
You should calibrate in the following cases:

- The first time you change to a particular video resolution.
- Any time you change the size of the video image by adjusting the horizontal and vertical controls on your monitor.
- Any time you run the **Stabilize Cursor** function from the Cursor tab.
- Any time the cursor does not follow the movement of your finger or does not reach the edges of the touch screen.

To calibrate the touch screen, click on **Calibrate**. Follow the directions displayed on the screen. When calibrating, make sure that you:

- Face the screen directly.
- Perform the calibration in the position (sitting or standing) that you expect to use at the terminal.
- Touch the calibration target firmly and precisely with your fingertip. Be careful to keep your other fingers away from the touch screen

Touch Settings



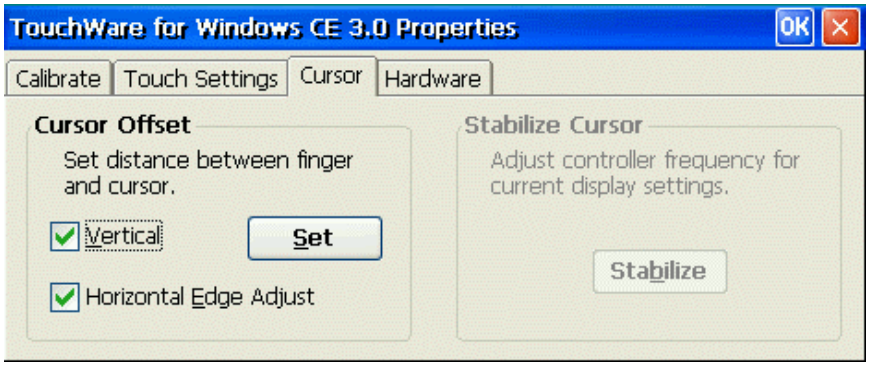
MicroTouch Touch Settings Sheet

Use the Touch Mode options to specify the touch actions that equate to mouse click, double-click, and drag events. See the following table for details on the three available modes.

Event	Desktop Mode	Drawing Mode	Button Mode
When the action occurs	A touch positions the cursor. Holding the touch steady is equivalent to pressing and holding the mouse button. Lifting off is equivalent to releasing the mouse button.	A touch is equivalent to pressing and holding down the mouse button. Lifting off is equivalent to releasing the mouse button.	Touching the screen is equivalent to pressing and releasing the mouse button. The action occurs as soon as you touch the screen.
Click	• Touch the object • Lift off the screen	• Same as desktop mode	• Touch the object
Double click	• Tap the object twice quickly at the same location.	• Same as desktop mode	• Same as desktop mode
Drag	• Touch the object. • Pause momentarily. • Drag the object to a new location. • Lift off the screen.	• Touch the object. • Drag the object to a new location. • Lift off the screen.	• Same as Drawing mode
Select text	• Touch the text. • Drag to starting point of your selection. • Pause momentarily. • Continue to drag to select text. • Lift off the screen.	Not Applicable	Not Applicable

Cursor

These settings enable you to customize the response of the cursor to your touch.



MicroTouch Cursor Settings Sheet

Vertical Offset

After you calibrate the touch panel, the mouse cursor should be located directly underneath your finger when you touch the center of the screen. However, you may prefer to offset the cursor slightly above your touch so you can point more easily and precisely. This option lets you define the distance between your touch and the position of the cursor on the screen. Offsetting the cursor is helpful when selecting small items, such as single letters in word processing, check boxes, or radio buttons.

To set the Vertical Offset:

1. Check **Vertical**. The **Set** button then becomes active.
2. Click on **Set**.
3. Touch the screen at the desired distance below the tip of the arrow within the rectangular space provided. The distance between your liftoff position and the tip of the arrow is the offset distance. Thereafter, the cursor will be positioned above your finger or pen by a distance equal to the offset distance. As your finger or pen approaches the bottom edge of the screen, the cursor offset automatically decreases so that you can touch items in this area.

Horizontal Edge Adjust

There may be times when the screen image extends completely to the left and right edges of the screen (that is, beyond the edge of the monitor bezel). In these cases, it may be difficult to touch items at the left and right edges of the screen.

If you check the **Horizontal Edge Adjust** box, the horizontal position of the cursor is automatically offset near the left and right edges. You can now easily reach the edges of the screen image. This adjustment is only made at the left and right edges of the screen, and you cannot define the horizontal offset amount.

Stabilize

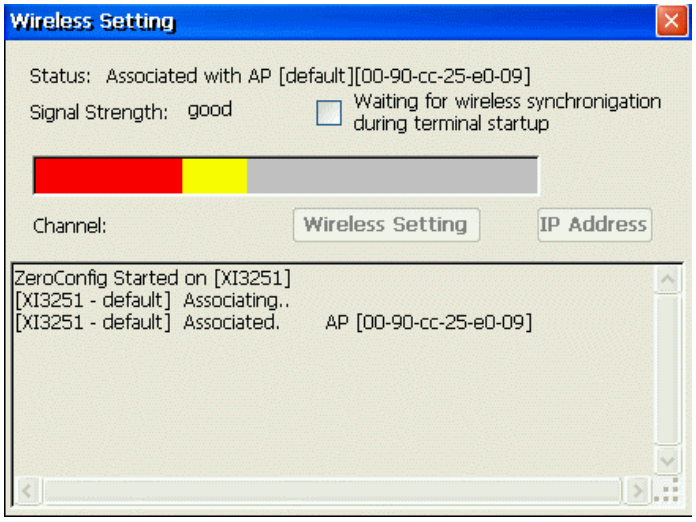
This option adjusts the operating frequency of the touch screen controller. Some controllers do not require stabilization and thus do not support this option. However, if you are having problems with very erratic or jittery cursor movements, you should stabilize.

The stabilization procedure is:

1. Click on **Stabilize**.
2. The controller will test each frequency setting and determine the optimum setting.
3. A dialog box will inform you of the best frequency as determined by the test. The test results are displayed in descending order with the recommended frequency at the top.
4. Accept the recommended frequency or select a different frequency.
5. Test your selection by touching the screen in several places and sliding your finger around the screen. The cursor should hold steady and smooth. If it does not, select a different controller frequency.
6. Go to the Calibrate tab and recalibrate.

Wireless (2613P model)

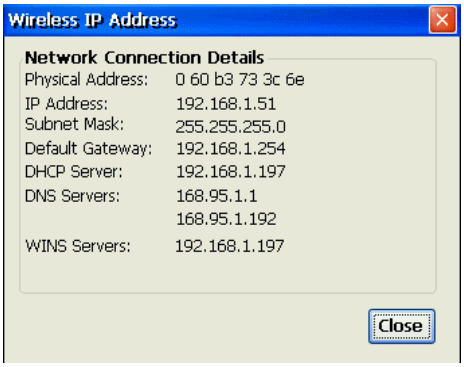
You will see this icon in the standard 2613 model also, but Wireless is actually supported only in the 2613P YES*tation*. The 2613P has a PCMCIA slot in the rear panel that accepts an optional Cisco 350 Aironet wireless LAN adapter card. **Note: Only the Cisco 350 Aironet card is supported. No other PCMCIA card will work.**



Wireless Setting Sheet (sort of)

You will see a screen similar to this, but the information shown in this setting sheet—Status, Signal Strength, Channel—is no longer accurate. For this information, you will have to go to the Aironet Client Utility (ACU) in **Terminal Connection Manager → Configure → Add**. But this sheet is still useful, and necessary, for several items.

- **Waiting for…**. If you check this box, the terminal will not advance to the Terminal Connection Manager or to an Autostart session until the wireless connection has been made with an access point. Instead, you will see a small Checking Wireless IP dialog box until the connection is made.
- **Wireless Setting**. Click on this button to open the Cisco 802.11 Miniport Settings window. In this window, you can specify IP and Name Server addresses just as you would in the Ethernet Network utility for a cabled LAN connection. **NOTE: If you want to specify addresses for wireless operation, you *must* do it here. Do not specify them in Ethernet Network or in the WBT Setup Wizard.**
- **IP Address**. Click on this button to see the following informational window.



Wireless IP Address Information Window

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Terminal Connection Manager

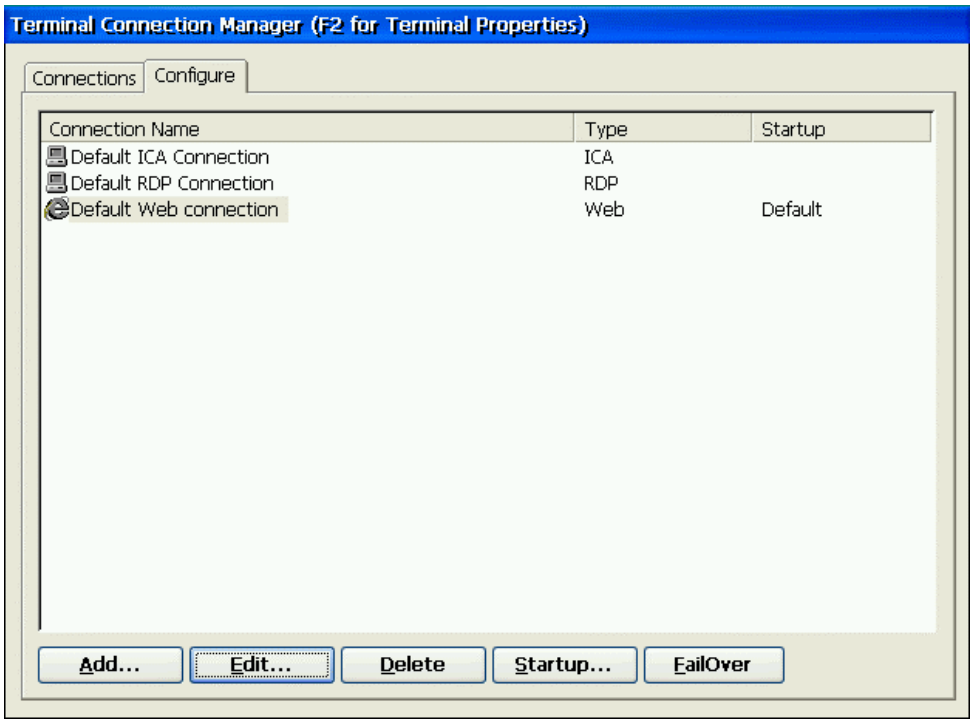
Note: The terms “connection” and “session” are used interchangeably in this section.

In the Terminal Connection Manager window, you can select either the Connections or the Configure tab to manage or activate your terminal's network connections and viewers. The Terminal Connection Manager starts with two or three default sessions, ICA, RDP, and browser (if you have a browser terminal model). The ICA and RDP sessions will have to be configured before they will be useful.

You must be in the Terminal Connection Manager in order to enter Terminal Properties. Press **F2** to enter Terminal Properties

Configure

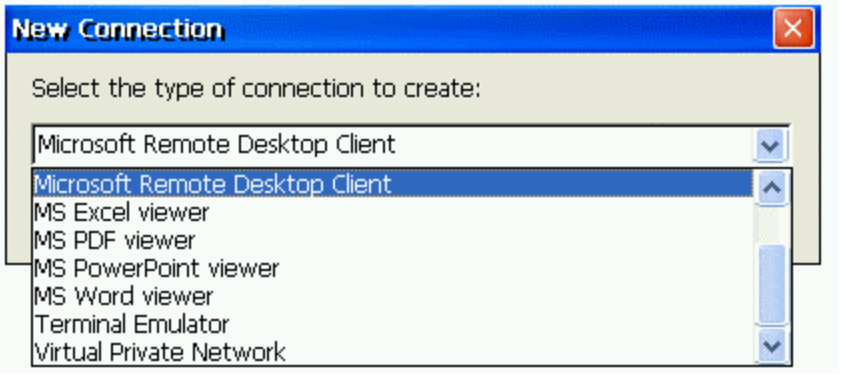
The Configure tab allows five basic functions.



Configure Tab

Add

Activate the **Add** button to create a new session. A New Connection dialog box is displayed.



New Connection Dialog Box

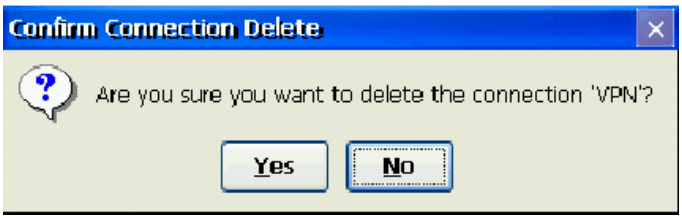
Click on the drop-down arrow to see a long list of possible connections. The exact list will depend upon your terminal model. See Creating a New Connection for information on adding specific connections. As sessions are added, they will be displayed alphabetically.

Edit

Activate the **Edit** button to edit the properties of a selected connection. A Sessions Properties window will pop up. Please refer to Editing an Existing Connection for more information about editing a connection.

Delete

Activate the **Delete** button to delete the highlighted connection. When you activate this button, a Confirm Connection Delete dialog box is displayed.

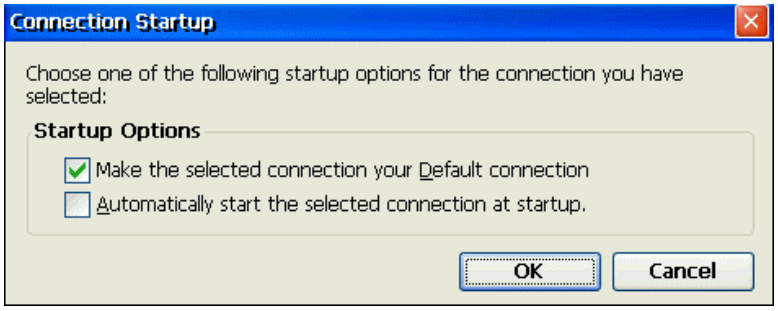


Confirm Connection Delete Dialog Box

Activate the **Yes** button to complete the deletion. Activate **No** to cancel the deletion.

Startup

Activate the **Startup** button to specify the Autostart connection option when the terminal boots up. The Connection Startup dialog box displays after the Startup button is pressed. Using the dialog box, your terminal can be set to automatically connect to a server when the terminal is turned on. Any or all sessions can be configured for automatic startup.



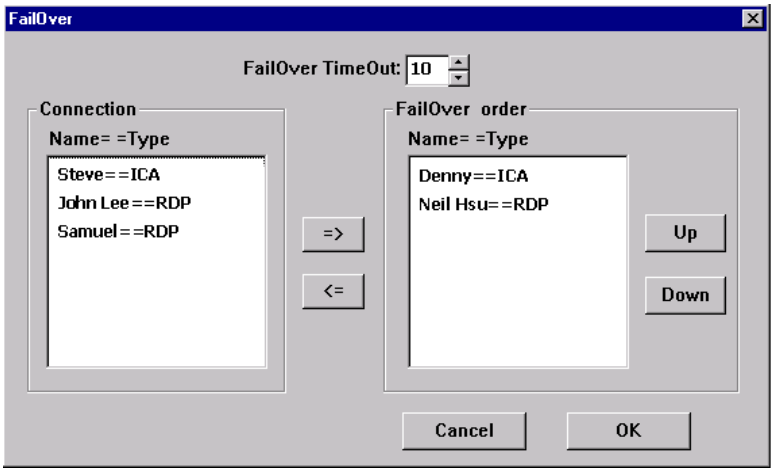
Connection Startup Dialog Box

- **Make the selected connection your Default connection**. Enable this function to use the selected connection as the default connection. This connection will be highlighted in Connection Manager when the terminal is powered up.
- **Automatically start the selected connection at startup**. Enable this function to automatically start the selected connection when the terminal starts up.

Failover

FailOver provides backup connections if any of the sessions that are configured for Autostart fail to start.

Click on **FailOver** to display the FailOver dialog box.



FailOver Dialog Box

A list of all connections eligible for use as backup sessions is shown in the left-hand box; browser sessions cannot be used for backup, although they can initiate fail-over backup if they are set for

Autostart but fail to start. A list of all connections selected for use as backup sessions is shown in the right-hand box. FailOver operates as follows:

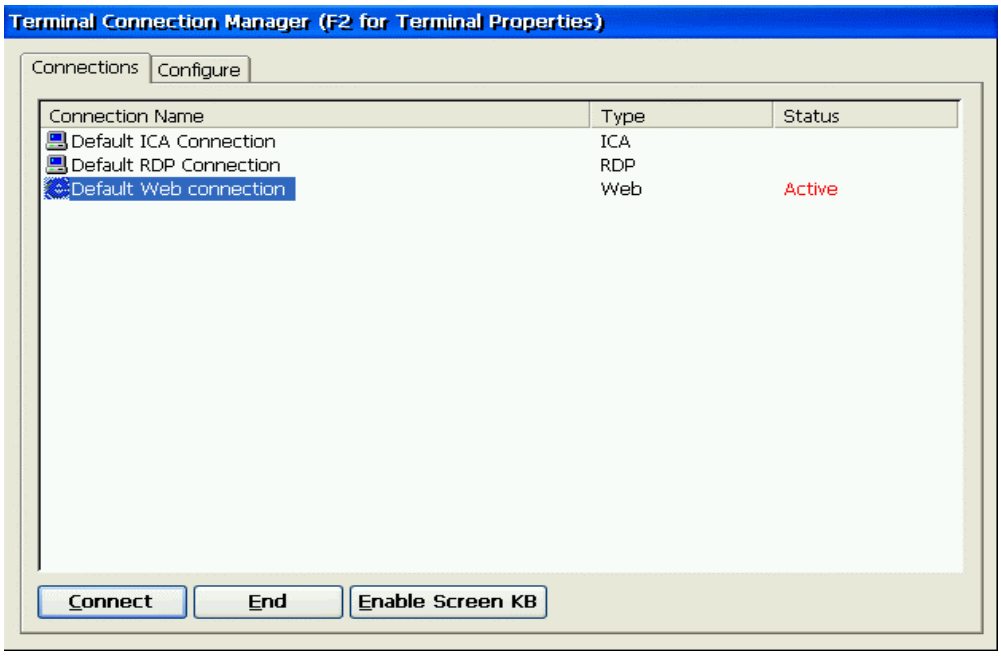
1. FailOver operation is activated if any Autostart session fails to connect to its server when the WBT is powered on..
2. FailOver pings the first (top) connection from the FailOver list. If the ping is successful, then the backup connection is made.
3. If ping is not successful, then FailOver pings next connection from the FailOver list, and so on.
4. If no connection is made, FailOver stops and displays an error message.

For example, in the dialog box shown in this section: If an Autostart connection fails for some reason, the terminal will automatically search and connect to the Denny (an ICA server) server. If the connection to the Denny server fails also, the terminal will automatically search and connect to the Neil Hsu (a RDP server) server. If that connection fails, the terminal will display an error message. **Note:** FailOver does not match the type of backup session with the failed Autostart session. In this example, the failed Autostart could have been an emulation connection to an IBM server, but the first failover backup is an ICA session.

The dialog box functions as follows:
Connection. This box lists all of the terminal connections that are eligible for backup duty.
Failover order. This box lists all of the terminal connections that are being used for backup duty. The priority of use is top to bottom.
FailOver TimeOut. You can set the connection timeout (in seconds) before a session is considered as having "failed".
=>. Add the selected connection to the FailOver list.
<=. Remove the selected connection from the FailOver list.
Up. Increase the FailOver Priority of the selected connection.
Down. Decrease the FailOver priority of the selected connection.

Note: A session can be manually activated from the Connections tab and used even if it is in the FailOver list, but not called upon for backup.

Connections

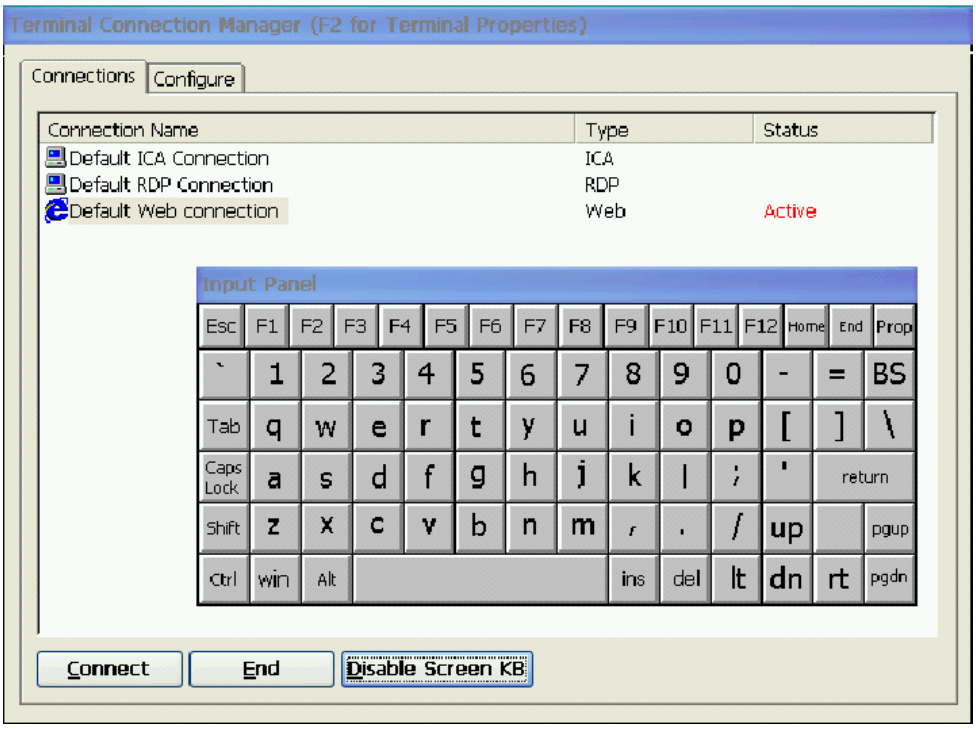


Connections Tab for 26xx and 733x Models

The Connections tab is used to make or end network connections with the server(s). Initially, you will probably see two or three default sessions, as shown here. These sessions can be renamed and reconfigured in the Configure tab, and new sessions added in the Configure tab will be listed here also, all in alphabetical order.

- **Connect**. Activate the **Connect** button to make a network connection. You can also activate a connection by double-clicking on it.
- **End**. Activate the **End** button to end a connection shown as Active in the status field. A dialog box will pop up asking for confirmation. You can also end a session from the session screen itself, without going to Connections, and that is the recommended way to end a session.
- **Shutdown** (Not shown). It is recommended that you shut down your terminal using this button, although usually just shutting off the power does no harm. You will see a box asking you to confirm your decision.
    - **22xx**. Executing a Shutdown will result in the power being turned off automatically.
    - **26xx, 733x**. Executing a Shutdown will result in a Shutdown Terminal progress bar and then a dialog box telling you that you can now shut down. During the progress bar, you can recant your decision and cancel the Shutdown. After you see the dialog box, you have no recourse but to manually turn off the power.

- **Enable Screen KB (26xx only)**. Click on this button to display an on-screen keyboard, as shown here.



On-Screen Keyboard

This is typically useful only if you are using a touch screen, but you can amuse yourself by typing with the mouse cursor if you wish. The size of the keyboard is determined by the settings in Control Panel|Screen Keyboard. After you enable the on-screen keyboard, the button will change to **Disable Screen KB**, for obvious reasons.

Multiple Sessions

Start Multiple Sessions

You can configure any or all sessions to start automatically at terminal boot-up, as described in Terminal Connection Manager|Configure|Startup. If you choose not to do this, you can invoke the Terminal Connection Manager from any working session by pressing **Ctrl+Alt+End**. Then, in the Connections tab, highlight another connection and activate **Connect** or double-click to start a new session.

Toggle Between Sessions

You do not have to return to Terminal Connection Manager to go to another active session. Alternate methods are:

- Press **Ctrl+Alt+UpArrow** to proceed to the next session.
- Press **Ctrl+Alt+DownArrow** to proceed to the previous session.
- In emulator sessions, press the **Jump** key on your keyboard.
    - **Alt+PgDn** for a 122-key 5250 keyboard.
    - **Shift+PgDn** for a 122-key 3270 keyboard.
    - **Alt+PgUp** for a 101-key 5250 keyboard.
- Every *YESterm* IP emulator session Buttons toolbar contains the icons I, II, III, and IV. These icons represent emulator sessions, shown from top to bottom, in the Terminal Connection Manager. Click on an icon to switch to the corresponding session – if it is already active.

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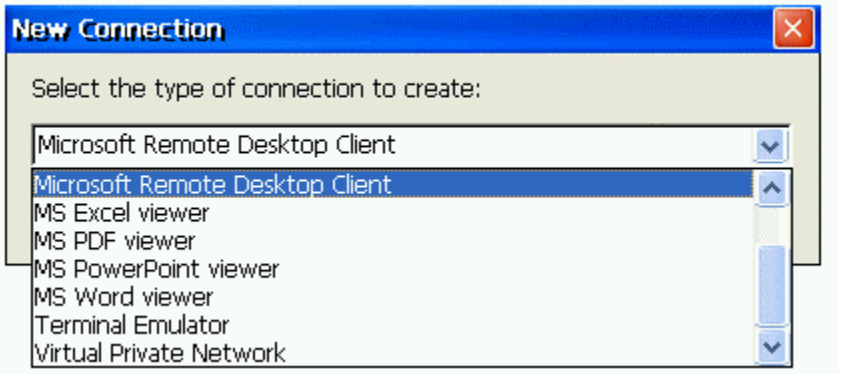
Creating a New Connection

Connections are created in the Configure tab of Terminal Connection Manager. Click on **Add** to see the New Connection dialog box. Then click on the drop-down arrow to see the drop-down list of possible connections. Actually, the term "Connections" is now misleading. In older versions this list contained only client sessions that connected to network servers via LAN, dial-up, or Web; now the list has been expanded to include file viewers and wireless utilities.



New Connection Dialog Box

Each network client session can be to a unique server, if desired. The total number of concurrent active sessions is limited by the amount of RAM in your WBT, the type of emulator in your WBT, and whether or not the WBT has browser capability. Model 2610 WBTs allow the highest number of concurrent connections, while Model 2613 allows the least. With the standard 64MB RAM, there is seldom any practical limitation unless you are running multiple browser sessions or multiple file viewers. A 128MB RAM option is available to overcome any limitation that you might encounter.

The connection types available in the drop-down list vary depending upon terminal model. They will be covered here in alphabetical order. Highlight the desired connection type and then click **OK** to open the associated dialog box.

After your setup and configuration are complete, you can secure parameters from any user changes--if you do not intend to use Cisco Aironet Client Utilities, PMail, or VNC Viewer-- as follows:

1. From the Connection Manager screen, press **F2** to enter Terminal Properties.
2. Select the **Control Panel** tab.
3. Double-click on the **Security** icon.
4. Check the box for **Disable Terminal Connection Configure Tab**.
5. Check the box for **Password Enable**.
6. Choose and confirm a password.
7. **OK** out of Terminal Properties

Cisco Aironet Client Utilities (2613P only)

You will see this selection in all 2613 models, but it is of use only in the 2613P model, which can support a PCMCIA Cisco Aironet wireless LAN adapter. The ACU is not really a connection; it is a utility used to configure the properties of the Cisco adapter.

For complete details on using the ACU, please go to the Web site http://www.cisco.com/univercd/cc/td/doc/product/wireless/airo_350/350cards/index.htm.

Firmware Update

One of the things you can do with the Cisco ACU is update the firmware in the Aironet card. This is a very straightforward operation, but it requires browsing to the new firmware image file. There are three ways to access this file from your terminal.

1. Put the image file on a shared network drive, and then browse to that drive by typing in the path in the **Name** field.
2. Put the file on an external USB drive, and then browse to the **USB Storage** folder.
3. Have the file sent to you as an email attachment, download the file using PMail, and then browse to the **Program Files\Inbox\Mail Attachments** folder.

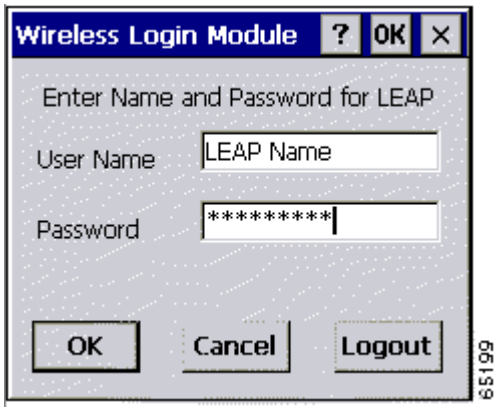
Cisco Wireless Login Module (2613P only)

You will see this selection in all 2613 models, but it is of use only in the 2613P model, which can support a PCMCIA Cisco Aironet wireless LAN adapter. The WLM is not really a connection; it is a utility used to access a LEAP-secured network.

If LEAP authentication is enabled in the ACU, a valid username and password must be entered whenever a connection is made to the access point. WLM is used to enter these values. Follow these steps to enter the LEAP username and password.

1. WLM starts automatically whenever you start ACU change the LEAP parameter from Disabled to Enabled, click **OK**, and then connect to a LEAP-enabled access point. If LEAP is already enabled, WLM starts automatically whenever you insert the client adapter, or reboot the YES*tablet*, or load new firmware, and then connect to a LEAP-enabled access point. You can also start WLM by selecting it from the **Add** drop-down list of Terminal Connection Manager|Configure.

   When WLM starts, the Wireless Login Module dialog box appears.



Wireless Login Module Dialog Box

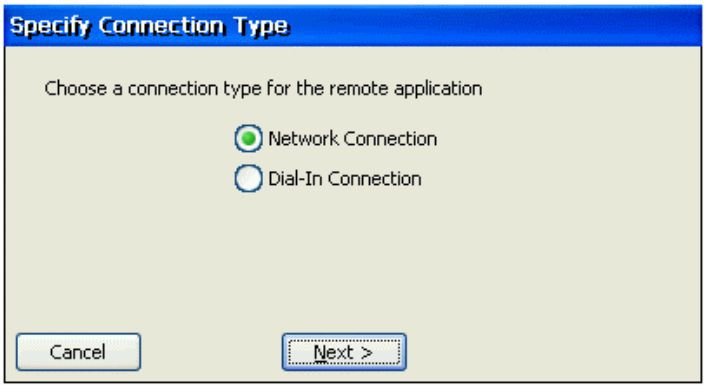
2. Obtain the username and password for your authentication server account from your system administrator. **Note**: The password is optional because not all host accounts on the authentication server are set up with a password.
3. Enter the username in the User Name field. Usernames and passwords are case sensitive and can contain up to 32 alphanumeric characters. **Note:** If your RADIUS server account specifies a domain, enter the domain name before the username and separate the two with a forward slash (e.g., *domain*/*username*).
4. Enter the password in the Password field if the authentication server account was set up with a password. **Note:** For security reasons, the characters entered for the password are displayed as asterisks.
5. Click **OK**. If the username and password were entered correctly, they are written to volatile memory on the Aironet adapter. The username and password remain on the adapter until power is removed from the adapter, typically due to the adapter being ejected or the YES*tablet* powering down.
6. One of three scenarios occurs:
   a) The client adapter authenticates to the authentication server using your username and password and receives a dynamic, session-based WEP key. The bottom of the ACU screen indicates that your client adapter is authenticated to an access point.
   b) If you enter the username and password incorrectly or enter ones that are not valid, the Wireless Login Module screen reappears with a message indicating that your login was incorrect. You are able to retry immediately by re-entering the username and password.
   c) The adapter times out while trying to authenticate, possibly because it is out of range of an access point. After 60 seconds, a message appears indicating that the first attempt to authenticate failed and that the adapter will continue trying. **Note:** During the 60 seconds before the timeout occurs, WLM is running in the background. It is hidden and does not appear as a running program. If you try to start WLM during this time, nothing happens because it is already running.

Citrix ICA Client (all models)

You can configure and run two types of ICA sessions: Citrix server connections and published applications.
Citrix server connections allow you to connect to the Windows desktop of a specific Citrix server; you can run any applications that have been mad available on the desktop by your system administrator, in any order.

Published applications are specific applications set up by an administrator for remote users. When connected, you are presented with the application itself.
This manual describes the simplest way to create a session entry either network or dial-up. When you follow these steps, you set the essential items you need to connect to a Citrix server from the Windows CE device, See Editing an Existing Connection for more information about changing the other properties for a connection entry. For the ultimate in detailed information about ICA operation and features, please refer to the Windows Based Terminal Administrator's Guide for Citrix ICA Client at http://www.affirmative.net/pub/icaceUG.pdf.

When you click on **OK** after selecting Citrix ICA Client, a Setup Wizard with a series of dialog boxes will be invoked. Some of them will allow you to override some of the global ICA properties that you set in Configure Terminal Properties|Control Panel|Ethernet Network|ICA Utility. In each dialog box, click on **Next** to advance to the next box, or click on **Done** to bypass the remaining boxes.

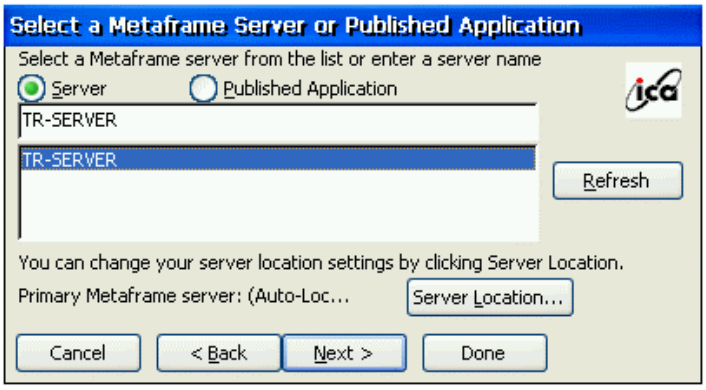


Specify Connection Type Dialog Box

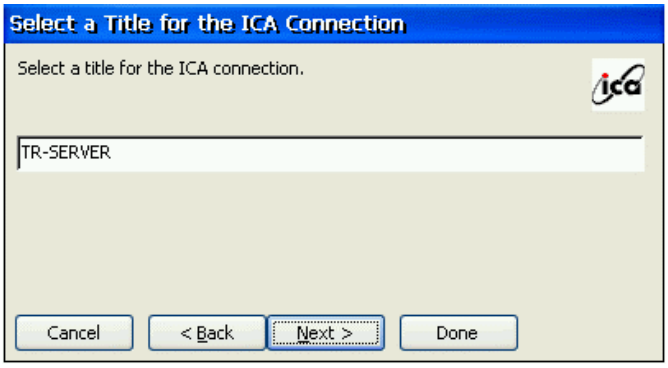
- Click **Network Connection** to make an Ethernet network connection. Make sure your WBT is connected to the network through the Ethernet connector or wireless LAN adapter. Click **Next** to continue.
- Click **Dial-In Connection** to make a dial-in connection. Make sure your modem is installed and properly configured. Click **Next** to continue.

Network Connection

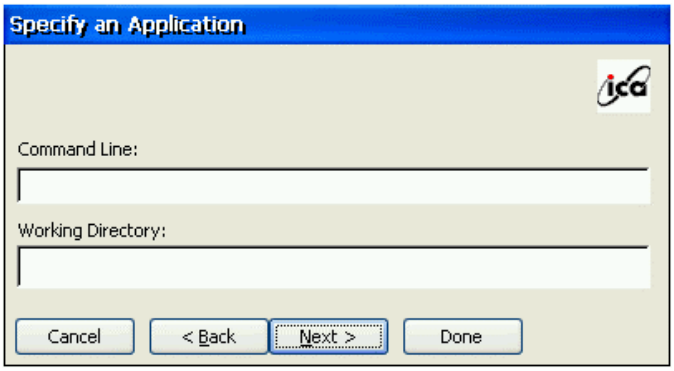
If you chose **Network Connection**, you will see the following dialog box.



Select a MetaFrame Server or Published Application Dialog Box

1. Select **Server** or **Published Application**.
2. If your server or published application is on the local sub-net, click on **Refresh**.
3. The terminal will search the local sub-net for all Citrix servers or published applications, and will present a list in the lower box. You will get an error message if none are found.
4. Double-click on the desired item in the list. It will appear in the upper box.
5. If your server or application is not found for some reason, you can type in the IP address or application name in the upper box, or you may want to choose an alternate server location.
   - If your WBT is not on the same network as the Citrix server you want to connect to (for example, if you are on the other side of a router, across the Internet, or using RAS to connect to a remote network containing Citrix servers), the Server and Published Application lists will not contain that server. In this case, click **Server Location** and go to the Server Location dialog box to choose, add or delete a Server Location. Alternate locations may already have been set up in Configure Terminal Properties|Control Panel|Ethernet Network|ICA Utility|Server Location. If not, follow the instructions in that section to add more servers.
6. 

Select a Title Dialog Box

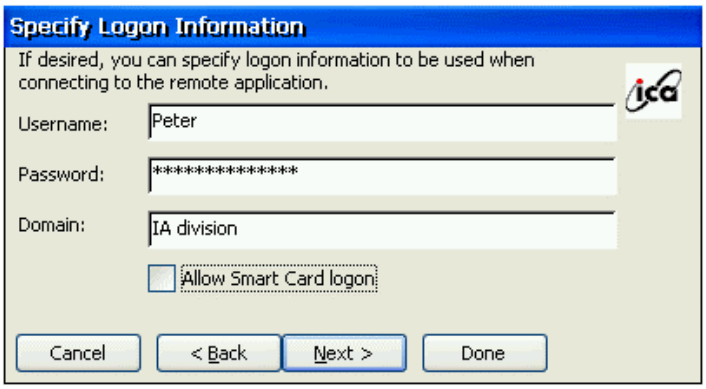
   By default, the Citrix server or published application name appears in the edit field. You can accept this name or enter another. The name you choose will be the name of the entry in the Terminal Connection Manager Connection Name list and will appear in the title bar of the ICA session window.
7. 

Specify an Application Dialog Box

   Note: This dialog box does not appear when configuring a published application connection.
   If you want this session to open in a specific application on the server after the logon to the Citrix server is successful, enter the path and executable file name of an application in the **Command Line** field. Leave this field blank to run a Windows desktop from the Citrix server. **Working Directory** lets you associate a directory with the application specified in Command Line.
   - For example, if the application Notepad.exe is in the C:\WTSRV directory on the Citrix server, type C:\WTSRV\Notepad.exe in the Command Line field. If you use Notepad to work on

documents in the C:\My Documents directory, type C:\My Documents in the Working Directory field. When you log on to the Citrix server, Notepad begins. In Notepad, if you click the File menu, the directory C:\My Documents is displayed.

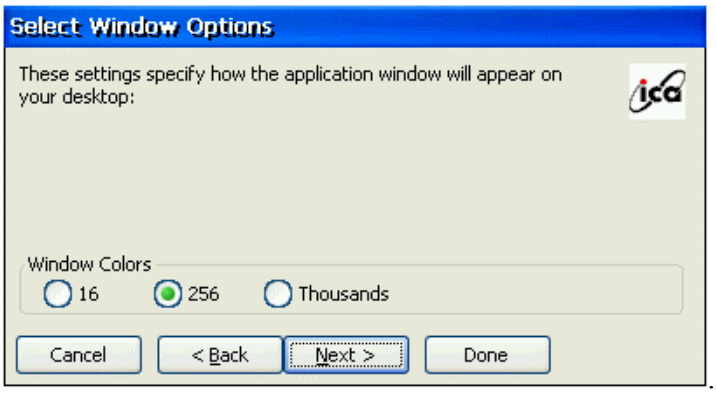
8.



Specify Logon Information Dialog Box.

Type a valid user name, domain, and password. If you leave these fields blank, you are prompted for your user name, domain, and password whenever the ICA Windows CE Client connects to the Citrix server.

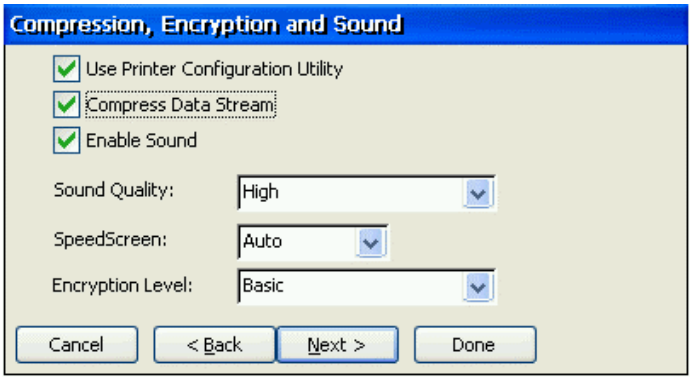
9.



Select Window Options Dialog Box

We recommend that you select 16 or 256 colors. There is a Citrix bug that sometimes produces strange video results at higher settings.

10.

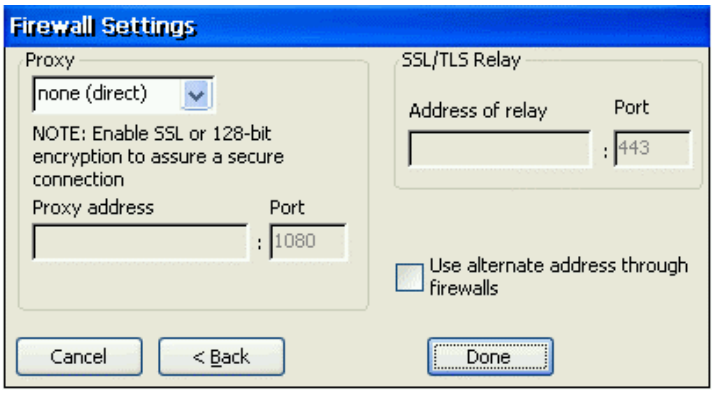


Compression, Encryption and Sound Dialog Box

- Click **Use Printer Configuration Utility** to enable printer auto-configuration.

- Click **Compress Data Stream** to reduce the amount of data transferred between the ICA Windows CE Client and the Citrix server hosting the session. (If your connection is bandwidth-limited, enabling compression may increase performance. If your WBT is on a high-speed LAN, you may not need compression.)
- Click **Enable Sound** to enable sound support. Remote applications will be able to play sounds on your client. From the pull-down list, select a sound presentation quality level. **High** provides the greatest audio quality but should only be used when bandwidth consumption is not a concern. **Medium** results in less bandwidth consumption than when using **High**. Compression of sound data provides greater bandwidth efficiency but reduces sound quality somewhat. This value is recommended for most LAN-based connections. **Low** offers the most efficient use of bandwidth but also decreases sound quality severely. This value is recommended for low-bandwidth connections, including most modem connections.
- **Speed Screen** latency reduction improves responsiveness over high latency connections by providing feedback to the user in response to typed data or mouse clicks. Speed Screen will only work if the server-side Speed Screen feature is available and has been enabled on the Citrix server to which you are connecting. In the "Speed Screen" field, select the setting you need.
  - For slower connections (for example, if you are connecting over a WAN or a dial-in connection), set mode to **On** to decrease the delay between user input and screen display.
  - For faster connections (for example, if you are connecting over a LAN), set mode to **Off**.
  - If you are not certain of the connection speed, set the mode to **Auto** to turn Speed Screen latency reduction on or off automatically depending on the latency of the connection.
- Encryption increases the security of your ICA connection. By default, basic encryption is enabled on all connections. If the Citrix server you are connecting to supports advanced encryption (e.g., Secure ICA services), you can use it to improve security. Click **Encryption Level** and select the level of encryption you want to use. Select RC5 128-bit Login Only to use encryption only during authentication. The Citrix server must be configured to allow the selected encryption level or greater. For example, if the Citrix server is configured to allow RC5 128-bit connections, the ICA client can connect with RC5 56 or 128-bit encryption.
  Note: To use advanced encryption, you need to install Secure ICA on your Citrix server. The Citrix server must also be configured to allow the selected encryption level or greater.

11.



Firewall Settings Dialog Box

See Configure Terminal Properties|Control Panel|Ethernet Network|ICA Utility|Firewall Settings for an explanation of these settings.

Dial-In Connection

Some Citrix servers are configured to allow direct dial-in without going through a RAS dial-up connection. If this is your situation, you can use this Dial-In Connection option. Do **NOT** use this option if you want this session to connect to a Citrix server through a RAS dial-up connection. In that case, create an ICA session as a network connection with the server IP address of the remote Citrix server. Then create a RAS dial-up connection (see Creating a New Connection|Dial-Up Client) and, in step 3 of that setup, choose the network connection that you just created to automatically start after the RAS connection has been made.

Note: The ICA Windows CE Client does not support modem callback for Dial-In connections.

If you have a 22xx terminal, you must have a USB-to-Serial converter between your serial modem and a terminal USB port.

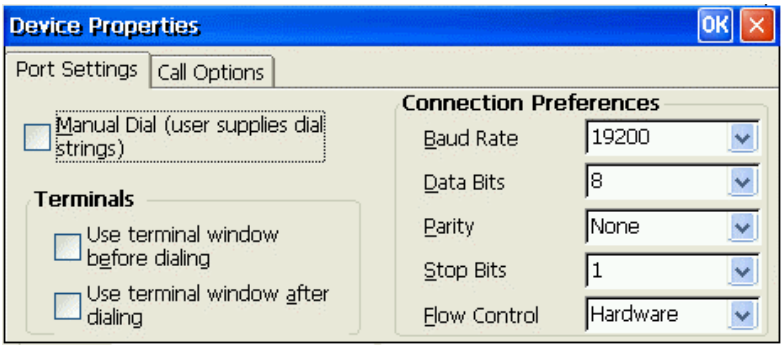
When you choose **Dial-in Connection** in the "Specify Connection Type" dialog box, and click on **Next**, the Dial-In Devices dialog box displays.

Dial-In Devices Dialog Box

- **Phone Number**. Enter the complete phone number, including area code and country code, if applicable, of the Citrix server.
- **Use Tone Dialing**. Check this box if your modem uses tone dialing, as is typical these days.

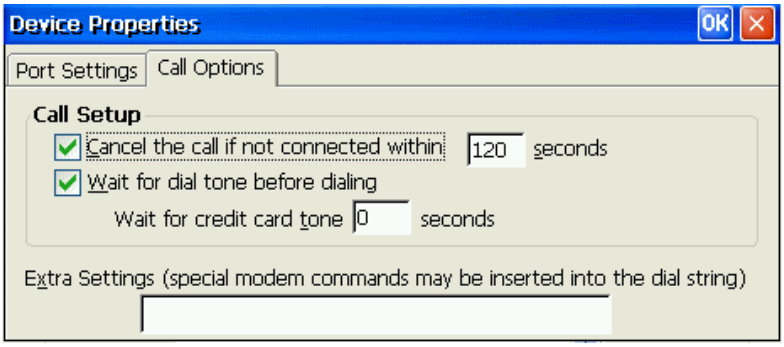
Dial-In Device

Select your device from the drop-down list. Then click on **Configure** to set the device properties.



Port Settings Dialog Box

- **Manual Dial**. Check this box to use manual dialing instead of the number entered in Telephone Number.
- **Terminals**. Per your application requirement, you can check one or both of these boxes. The default setting disables both check boxes and executes an automatic log-on to the server.
- **Connection Preferences**. Select the serial connection preferences from the drop-down lists**.** These preferences will be identical for all COM connections in this session; you cannot have different preferences for COM1 and COM2.



Call Options Dialog Box

- Call Setup. Check the appropriate boxes and set the time to wait for connection or dial tone before canceling a call.
- Extra Settings (**Alt+x**). A common problem is that some "Hayes-compatible" modems, including some from a very popular vendor, are not really 100% Hayes compatible. When that occurs, it can usually be fixed by entering a modem initiation string here. Talk to your modem vendor for the details of this initiation string.

The remaining steps of Dial-In Connection setup are the same as Network Connection setup. Please refer to steps 6 through 11 of Network Connection setup.

Dial-Up Client (all models)

The Dial-up networking feature is implemented with Remote Access Service (RAS) and the Point-to-Point Protocol (PPP). Dial-up Networking allows the terminal to access network resources from a remote server. The terminal can connect to a remote access server using direct serial as well as dial-up.

If you have a 22xx terminal, you must have a USB-to-Serial converter between your serial modem and a terminal USB port. If you do not have this converter, you will get an error message when you try to add a dial-up session.

You will use the Remote Connection Wizard to create a new Dial-Up connection. Click **Next** to display the next dialog box in the sequence. Click **Back** to return to the previous dialog box. When you are finished, a new connection will be added to the Connection Name list in the Terminal Connection Manager.

There are three major steps for the Dial-Up Remote Connection Wizard process.

1.

Remote Connection Wizard Dialog Box #1

The name entered here is the name that will be listed in the Terminal Connection Manager.

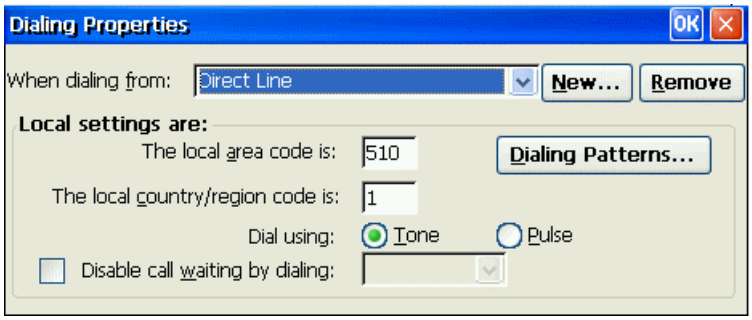
2.

Remote Connection Wizard Dialog Box #2

- **Telephone Number**.
  - **Force local/long distance**. Leave these boxes unchecked
  - **Country/Area Code**. Ignore these fields.
  - **Telephone**. Put the complete number, including area code, here. If you are making an international call, enter the international prefix (011) and the country code also.
- **Device Setting for RAS Connection**: Select a device from the drop-down list.

Dialing Properties

Click on this button to display the Dialing Properties dialog box.

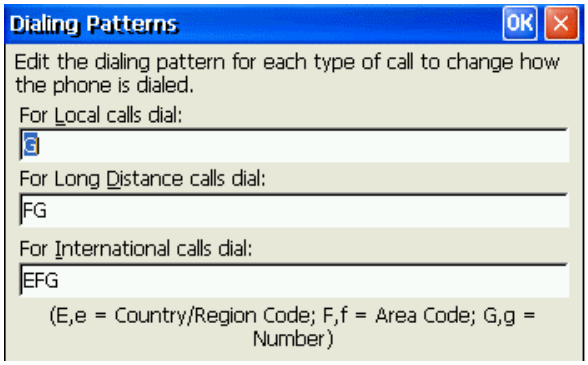


Dialing Properties Dialog Box

- **When Dialing From**. Ignore this parameter.
- **The Local Area/Country Code is**. Ignore these fields.
- **Dial Using**. Select the appropriate radio button.
- **Disable Call Waiting By**. Check this box, if applicable, and enter the appropriate disable sequence.

Dialing Patterns

Activate this button to open the Dialing Patterns dialog box.

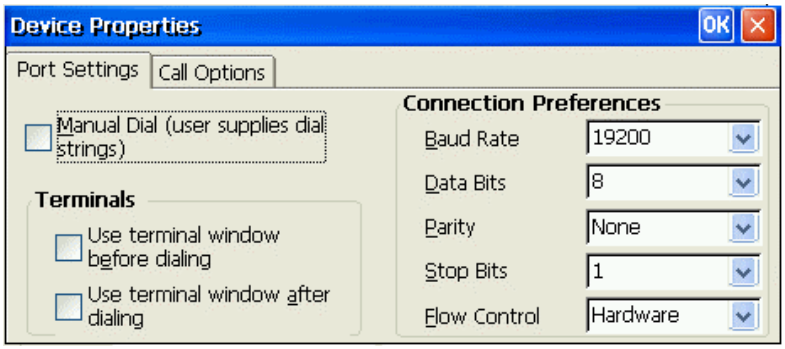


Dialing Patterns Dialog Box

All calls are treated as local calls. Ignore the Long Distance and International fields, and delete everything except G from the Local field unless you have to dial a numeral to get an outside line. In that case, add the numeral to the Local field (i.e. 9,G).

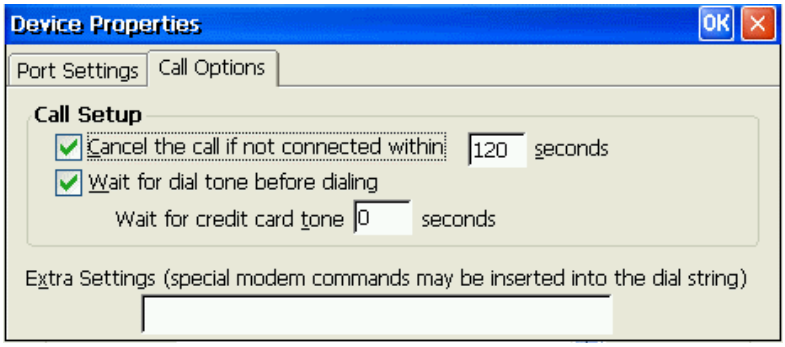
Configure

This button is used to configure the device that you selected in **Device Setting for RAS Connection**. When this button is pressed, the Device Properties dialog box displays with two tabs.



Port Settings Dialog Box

- **Manual Dial**. Check this box to use manual dialing instead of the number entered in Telephone Number.
- **Terminals**. Per your application requirement, you can check one or both of these boxes. The default setting disables both check boxes and executes an automatic log-on to the server.
- **Connection Preferences**. Select the serial connection preferences from the drop-down lists**.** These preferences will be identical for all COM connections in this session; you cannot have different preferences for COM1 and COM2.

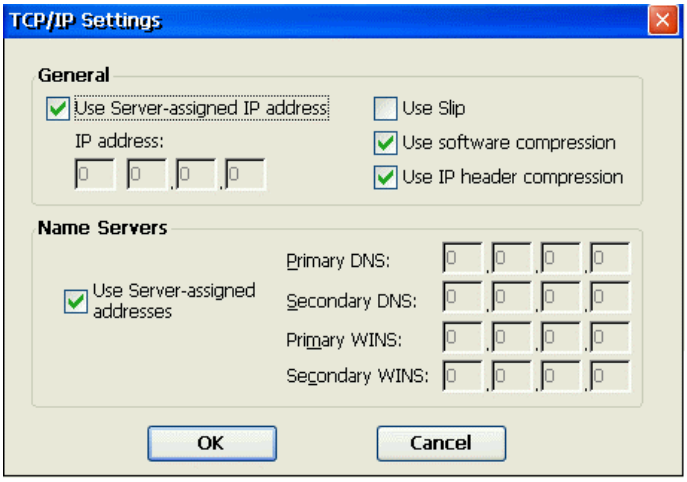


Call Options Dialog Box

- Call Setup. Check the appropriate boxes and set the time to wait for connection or dial tone before canceling a call.
- Extra Settings (**Alt+x**). A common problem is that some "Hayes-compatible" modems, including some from a very popular vendor, are not really 100% Hayes compatible. When that occurs, it can usually be fixed by entering a modem initiation string here. Talk to your modem vendor for the details of this initiation string.

TCP/IP Setting

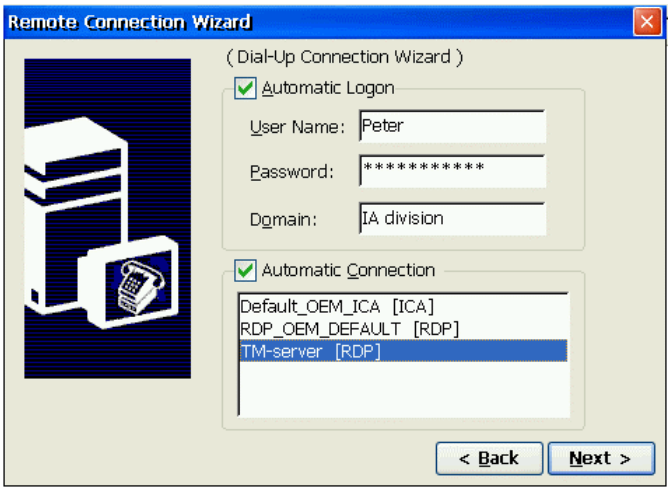
Click on this button to see the TCP/IP Settings dialog box.



TCP/IP Settings Dialog Box

The default settings you see here are commonly used to access a RAS server, and seldom need changing. Your network administrator will give you any changes that are necessary.

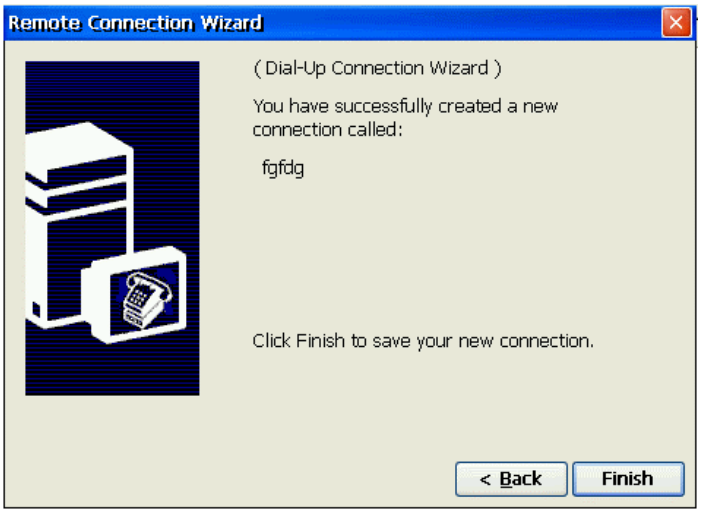
3.



Remote Connection Wizard Dialog Box #3

- **Automatic Logon**. Click on this box and enter the appropriate parameters here for an automatic RAS logon.
- **Automatic Connection**. Click on this box to automatically open an ICA, RDP, or YES*term* IP session after the RAS connection is made. A list of all eligible sessions is shown in the list box. Highlight the desired session. **Note:** Any session considered for automatic connection in this box **MUST** have been configured for network connection, not dial-in connection. Also, the session should **NOT** be set to Autostart in the Terminal Connection Manager.

4.

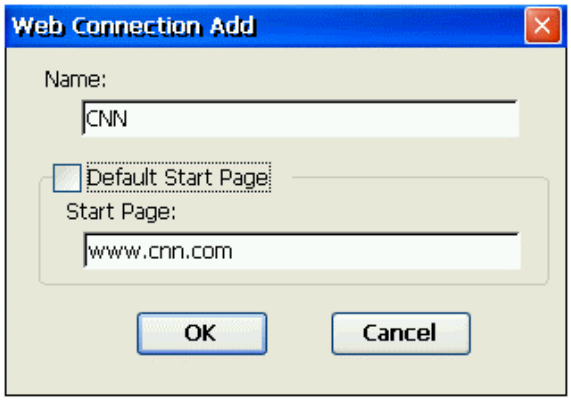


Remote Connection Wizard Dialog Box #4

Check "Finish" to complete the Dial-Up connection setup.

Microsoft Internet Explorer (all models except 2610 and 2611)

These terminals use Internet Explorer 5.5. It has most of the features of the PC version, but it does not support Java Virtual Machine, Active X, or Flash. New Web connections take on the default properties established in Configure Terminal Properties|Web, except for the Start Page.



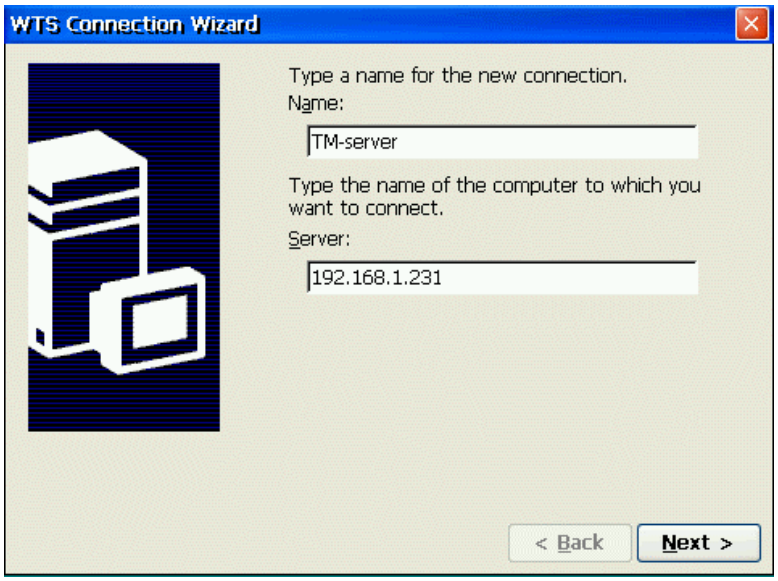
Web Connection Add Dialog Box

- **Name**. This name will appear in the Connection Name list of Terminal Connections Manager.
- **Default Start Page**. Check this box to use the default Start Page. If you want a unique Start url, leave the box unchecked and enter that url here.

Microsoft Remote Desktop Client (all models)

The WTS Connection Wizard is used to create a new RDP connection to a Microsoft Terminal Server. When you are finished, a new connection will be added to the Connection Name list in the Terminal Connection Manager. There are four dialog boxes for the WTS Connection Wizard process.

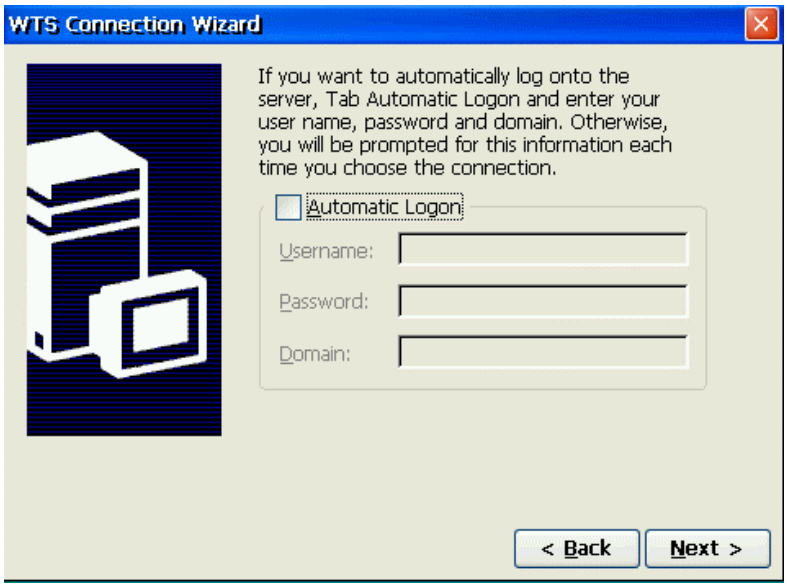
1.



WTS Connection Wizard Dialog Box #1

- **Name**. Enter the connection name to be listed in the Connections Name list of the Terminal Connection Manager.
- **Server**. If you have a local DNS or WINS server, enter the network name of the selected server. Otherwise, enter the IP address of the selected server.

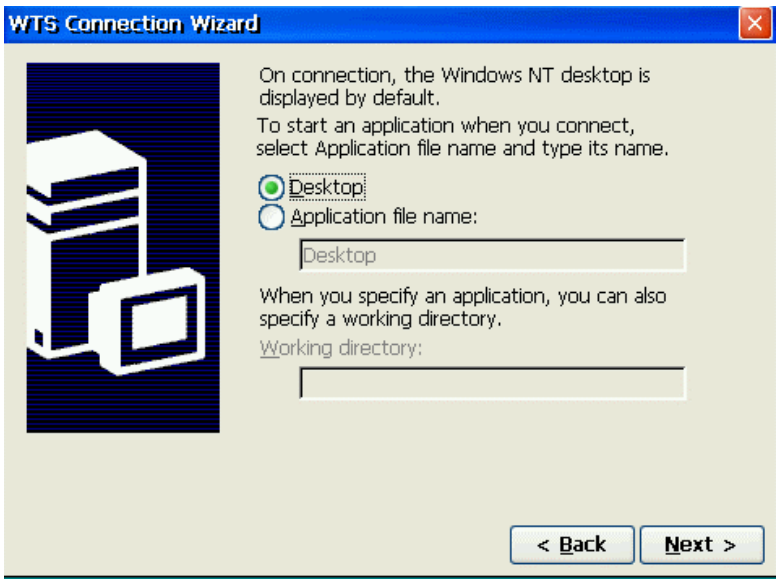
2.



WTS Connection Wizard Dialog Box #2

- **Automatic Logon**. Check this box to enable automatic logon. The Username, Password and Domain fields will be enabled, and you can enter the necessary logon information.

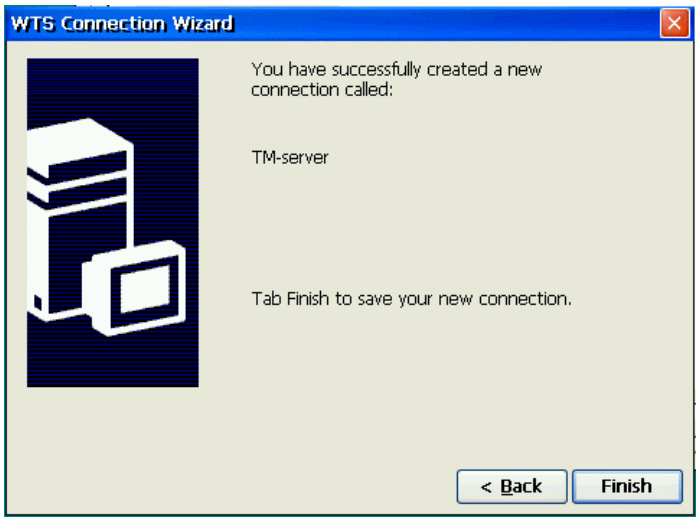
3.



WTS Connection Wizard Dialog Box #3

- **Desktop**. Click on this button to start the session with the server desktop.
- **Application file name**. Click on this button to start the session in an application. In the first field, enter the name of the executable file of an application to run on the server once the logon to the server is successful.
- **Working Directory**. Enter the path, on the server, to that executable file. For example, if the application Notepad.exe is in the C:\WTSRV directory on the server, type **Notepad.exe** in the file name field. Type C:\WTSRV in the Working Directory field. When you log on to the server, Notepad begins.

4.



WTS Connection Wizard Dialog Box #4

Note: Microsoft Corporation has acknowledged three not-so-obvious RDP connection issues with Windows 2000 Terminal Services & Windows NT 4.0 Terminal Server.

Issue #1. Microsoft has acknowledged licensing issues when Thin Clients like the Affirmative YES*tation* connect to a Windows 2000 Terminal Services server. Microsoft strongly recommends

applying the Terminal Services Licensing Enhancement Update, which can be found by accessing Microsoft's Knowledge Base Article: **Q287687**. Duplicate client licenses, inability for a thin client to connect, and other unknown repercussions could result if this update is not applied.

Issue #2. If your organization connects to a Windows 2000 or Windows NT 4.0 Terminal Server with a host name, the RDP Server parameter in the YEStation requires a fully qualified name. For example, if your Windows 2000 Terminal Service host name is: SERVER1 and the DNS Default Domain is: COMPANY.COM, then the fully qualified name is: SERVER1.COMPANY.COM

Issue #3. If your organization connects to a Windows 2000 or Windows NT 4.0 Terminal Server using the RDP Protocol and you use DNS entries in your Thin Client setup, Microsoft requires a local DNS Server to resolve the server IP address or fully qualified name. Users who do not specify DNS entries in the YES*tation* Network setup will not need a DNS server to resolve the server's IP address.

Microsoft Viewers (all models except 2610, 2611, 2612, and 7330)

Four viewers, Excel, Acrobat PDF, PowerPoint, and Word, are provided. The appropriate viewer will open automatically when document is downloaded in a browser connection. Note: When trying to open a downloaded document, you may get an error message "xxx Viewer encountered an internal error trying to load or display the requested file". This usually means that there is not enough room in your browser cache. You can try any or all of the following corrective procedures:

- Clear cache in View|Internet Options and download again.
- Increase the cache size in View|Internet Options and download again.
- Close the browser session, reopen, and download again.

You can also view email attachments, files in USB storage, and files in shared network drives with the following procedure:

1. Click on **Add** in the Configure tab.
2. Select the desired viewer from the drop-down list.
3. Click on **OK**.
4. In the resulting window, open the **File** menu.
5. Click on **Open**.
6. Browse to the desired file.
   - For email attachments, browse to **Program Files\Inbox\Mail Attachments**.
   - For USB storage, browse to **USB Storage**.
   - For shared network drives, type the path in the **Name** field.
7. Close the viewer from the **File** menu when you are finished. You will have to repeat the procedure when you want to again use a viewer.

Note: When a viewer window is open, you cannot get back to Connection Manager. You can switch to other active sessions by using **Ctrl+Alt+UpArrow/DownArrow**, but **Ctrl+Alt+End** will return you to the open viewer window.

PMail (Inbox) (all models except 2610 and 2611)

PMail is exactly like Inbox, except for name, for those of you who are familiar with this email program in Pocket PC. You can send and receive e-mail by connecting to POP3 or IMAP4 servers. PMail contains an e-mail service for each method you use. For example, if you receive e-mail through a connection to a POP3 server and through a connection to an IMAP4 server, PMail will contain two services: POP3 Mail and IMAP4 Mail. Each e-mail service has its own folder hierarchy with four default folders: Inbox, Outbox, Deleted (local), and Sent. The messages you receive and send through the mail service are stored in these folders. You can also create additional folders within each hierarchy. You can set up multiple services of either protocol, but you can only connect to one service at a time.

Note: PMail only allows email connections through the LAN. Modem connections are not allowed.

Connecting to a Mail Server

To connect to your POP3 or IMAP4 mail server, you need to set up a mail service.

1. Get the following information from your ISP or network administrator: POP3 or IMAP4 server name, SMTP host name, user name, password, and domain name.
2. Open PMail from the Add drop-down list in Connection Manager, and select the **Services > Options > Services** tab.
3. Select **Add**.
4. From the **Service type** list, select **POP3 Mail** or **IMAP4 Mail**.
5. Enter a unique name for the service. This name cannot be changed later; if you later want to change the name, you will have to delete the service and add a new one with the desired name.
6. Select **OK**.
7. Follow the steps in the Setup wizard. For more information, see the following topics.
8. You will not see a PMail session in the Connections list. Whenever you want to use PMail, you will have to access it from the New Connections drop-down list in Configure. But all of your setup and configuration information is saved, so you don't have to do that again unless you want to make changes.

Notes:

- When a PMail window is open, you cannot get back to Connection Manager. You can switch to other active sessions by using **Ctrl+Alt+UpArrow/DownArrow**, but **Ctrl+Alt+End** will return you to the open PMail window.
- Other mail protocols, such as the protocol used by AOL, are not supported. In addition, services that use special authentication, such as MSN, are not supported.
- If you use the same service to connect to different mailboxes, set up and name a different service for each mailbox.

Set Service Definitions (wizard dialog box #1)

The Mail Service Definition dialog box appears after you add a service. If you are adjusting the settings of an existing service, select **Services** > **Options**, select the service you are using, and then **Properties**. In the **Service Definition** dialog box, complete the following entries as needed:

- **Connection**. Select **Network Connection**.
- **POP3 Host** (POP3 only). Enter the name of the mail server you use to receive and send messages.
- **Server** (IMAP4 only). Enter the name of the mail server you use to receive and send messages.
- **User ID**. Enter the user name or mailbox ID assigned to you.
- **Password**. Enter the password you use to access this mail account. If you do not want to be prompted to enter the password each time you connect, select **Save password**.
- **Domain (Windows NT)**. Enter your Windows NT domain name. This name is required only when connecting to networks, such as a corporate network, that use Windows NT domain security. This is not required for most ISP accounts. If you have trouble connecting, try clearing this box.
- **SMTP Host**. If your mail service uses a separate server for SMTP, enter the name in the box. If you're setting up a POP3 Mail service with an ISP, the ISP must use an SMTP mail gateway.
- **Return Address**. By default, the return address is set to ***username@POP3host*** or ***username@Servername***, depending on the service you are using. If this is not your e-mail address, enter the correct address in the box.

Set general preferences (wizard dialog box #2)

If you are adjusting the settings of an existing service, select **Services** > **Options**, select the service you are using, select **Properties**, and then select **Next**. In the **General Preferences** dialog box, choose any of the following settings, all of which are optional:

- **Disconnect service after actions are performed**: Select to automatically disconnect from the server upon completion of all pending actions. This option minimizes connect time and cost.
- **Check for new messages every**: Select the time interval (in minutes) at which you want the device to check for new mail. If this option is turned off, you must check for new mail manually by selecting **Services** > **Send/Receive Mail**.
- **Display a message box when new mail arrives** (POP3 only): Select to be informed that new mail has arrived.
- **Play a sound** (IMAP4 only): Select to be informed that new mail has arrived.
- **Send using MIME format** (POP3 only): Select to send messages with extended characters.
- **Only display messages from the last 3 days**: Select how many day's messages you want downloaded.

Set Inbox preferences (wizard dialog box #3)

If you are adjusting the settings of an existing service, select **Services** > **Options**, select the service you are using, select **Properties**, and then select **Next** twice. In the **Inbox Preferences** dialog box, choose any of the following options:

- **Get message headers only**: Select to save storage space and time by downloading only headers. You can download a full copy of the message later by selecting the message and then **Services** > **Get Full Copy**.
- **Include <number> lines**: Select to set the message length (approximate number of lines) that you want to download.
- **Get full copy of messages**: Select to receive a full copy of all messages. In addition to the message body, any options you select in **When getting full copy** will be downloaded. Selecting this option increases the amount of time needed to download messages.
- **Only synchronize folder hierarchy under Inbox** (IMAP4 only): Select to speed download time by preventing the complete download of the folder list every time you connect.
- **Get meeting requests** (POP3 only): Select to download and store copies of meeting requests when getting full copies of messages. This setting applies whether you have chosen to download full

copies of messages by default, or if you selectively download full copies of messages by opening the message and selecting **Services** > **Get Full Copy**. Limitations apply.

- **Get file attachments** (POP3 only): Select to download and save message attachments when getting full copies of messages. This option may use significant RAM and slow download time. This setting applies whether you have chosen to download full copies of messages by default, or if you selectively download full copies of messages by opening the message and selecting **Services** > **Get Full Copy**.
- **Get file attachments and meeting requests** (IMAP4 only): Select to download and store meeting requests and message attachments when getting full copies of messages. This setting applies whether you have chosen to download full copies of messages by default, or if you selectively download full copies of messages by opening the message and selecting **Services** > **Get Full Copy**. Limitations apply.
- **Only if smaller than** (IMAP4 only): Select to restrict the size of the attachments you download. Set to 10K if you want to receive meeting requests only.

Download messages from the server

When you download messages, you need to create two connections: a remote connection and a mail server connection. The remote connection connects you to your ISP or network. The mail server connection downloads messages from your mail server to Inbox on your device. When you select **Services** > **Connect** in Inbox, Inbox starts a remote connection using the connection you specified when setting up the current mail service. If you are already connected through a remote connection other than the one you specified in the mail service, you will be asked if you want to use the current connection. If you choose not to, you will need to disconnect from the current connection before you can check for new messages. The procedure is:

1. Select the **Services** menu and make sure that the service you want to use is selected (the selected service has a bullet next to it.)
2. Select **Services** > **Connect**. The messages on your device and mail server are synchronized: new messages are downloaded to the device Inbox folder, messages in the device Outbox folder are sent, and messages that have been deleted on the server are removed from the device Inbox. Double-click a message in the message list to open it.
3. If you read a message and decide that you need the full copy, select **File** > **Get Full Copy** while in the message window or **Services** > **Get Full Copy** while in list view. This will also download message attachments and meeting requests if you have those options selected in the **Inbox Preferences** dialog box. You can also choose to download full copies of messages by default.
4. When finished, select **Services** > **Connect** to disconnect. You also need to disconnect your dial-up connection by double-clicking the icon in the status bar and selecting **Disconnect**.

Notes:

- Receiving entire messages consumes storage memory.
- The size column in the Inbox list view displays the local size and server size of a message. Even when a message has been downloaded fully, these numbers may differ because the size of a message can vary between the server and the device.
- When using IMAP4 to get Outlook or Schedule+ data, you will see the contents of your Journal folder. File editing transactions and documents (such as Task items, e-mail messages, and Word documents) attached using drag and drop will appear as shortcuts on the device. A copy of the document will not be moved to your device, and the shortcut on the device cannot be used to access the document. To move documents associated with a journal entry to the device, attach the

document to the entry rather than dragging and dropping it. Also, be sure to set your IMAP4 service to receive full copies of messages, attachments, and meeting requests. For more information on using Journal, see the Help for the desktop version of Outlook.

Reply to or forward a message

1. Open the message, and then select **Compose** > **Reply to Sender**, **Reply to All**, or **Forward**.
2. Enter your response.
3. Select **File** > **Send**.
    - Selections in the **Options** dialog box determine whether the original text is included.
    - To see more header information, select the inverted triangle in the lower-right corner of the header area. Select the triangle again to collapse the header area.

Add the sender to Address Book

1. Open the message, and then select **Compose** > **Add Sender to Address Book**. A new contact card will open with the sender's name and e-mail address already entered.
2. Enter other desired information.

Or

1. Select **Go** > **Address Book**.
    - To add a new entry, select **New**. Enter the name you want to type in the **To** and **CC** fields of messages in the **Name** field.
    - To delete an entry, select it, and then select **Delete**.
    - To edit an entry, select it, and then select **Edit**.

Check Inbox status

In list view, select **Compose** > **Status**. You can view details such as the number of messages to be sent, deleted, and copied, and the number of attachments to be downloaded.

Include the original message in a reply

1. Select **Services** > **Options** > **Compose** tab.
2. Under **Reply**, select **Include Body**. This setting will place a copy of the original message beneath your response text.
3. To indent the original message, select **Indent**.
4. To add leading characters (such as >) to the original message lines, select **Add leading character**, and enter the character you want.

Enlarge the message font

1. Open the message you want to read.
2. Select **File** > **Large Font**.
3. To return the font to its original size, select **File** > **Large Font** again.

Composing and Editing Messages

1. In list view, select **Compose** > **New Message**.
2. Enter the address of one or more recipients, separating them with a semicolon. If the recipient is listed in the Address Book, enter a few letters of the recipient's name and select **Compose** > **Check Names**. If there is only one match, the e-mail address is inserted. If there is more than one match, select the correct address from the **Choose E-mail Recipients** dialog box. If there is no match, add a new e-mail address through **Choose E-mail Recipients**.
3. To attach a file, select **File** > **Attachments** > **Add Attachment**.
4. Select **File** > **Send**. If you are working offline, the message is moved to the Outbox folder and will be sent the next time you connect.

To see more header information, select the triangle in the lower-right corner of the header area. Select the triangle again to collapse the header area.

Save a message

Select **File** > **Save** to save the message you are composing or editing. The message is not sent and is saved in the Inbox folder of the active service.

Save copies of sent messages

By default, sent messages are not saved on your device. To automatically save sent messages:

1. Select **Services** > **Options** > **Compose** tab.
2. Select **Keep copy of sent mail in Sent folder**.

Working with Folders

Inbox contains folders from mail services you have set up. You can set up services to connect directly to a remote mail server. When you set up a service, it appears in the Inbox list view. Each service contains four default folders: Inbox, Deleted (local), Outbox, and Sent. The Deleted (local) folder contains messages that have been deleted on the device. If you are using IMAP4, you may see a Deleted Items folder. This folder is for messages deleted on the server. The behavior of the Deleted (local) and Sent folders depends on the Inbox options you have chosen.

You can also create your own folders. The behavior of the folders you create depends on whether you are using POP3 or IMAP4.

If you are using POP3 and you drag messages to a folder you created, the link is broken between the messages and their copies on the mail server. The next time you connect, the mail server will see that the messages are missing from the device Inbox and delete them from the server. This prevents you from having duplicate copies of a message, but it also means that you will no longer have access to messages you move to folders you create from anywhere except the device.

If you are using IMAP4, the folders you create and the messages you move are mirrored on the server. For example, if you move two messages from the Inbox folder to a folder called Family, the server will create a copy of the Family folder and copy the messages into that folder. Therefore, messages are available to you anytime you connect to your mail server, whether it is from your device or PC. This

synchronization of folders occurs when you create a new folder, move messages into a folder, exit the Inbox program, or select **Services** > **Synchronize Folders**. If you want to view the messages in a folder while disconnected from your mail server, select the folder and then **Services** > **Offline Folder**.

Create a folder

1. Select **File** > **Folder** > **New Folder**.
2. Type a name for the folder.

Rename a folder

1. Select the folder you want to rename.
2. Select **File** > **Folder** > **Rename Folder**.
3. Type the new name for the folder.

Notes

- Default folders, such as Inbox, can't be renamed.
- Folders you create for IMAP4 mail servers can't be renamed.

Delete a folder

1. Select the folder you want to delete.
2. Select **File** > **Delete**.

Note: Default folders, such as Inbox, can't be deleted.

Designate a folder as offline

Only IMAP4 folders can be designated as offline. All IMAP4 default folders, such as Inbox, are automatically designated as offline. Messages in offline folders can be viewed when you are disconnected from your mail server. If a folder is not designated as offline, you will be able to read and respond to messages in that folder only when connected to the server.

To designate a folder as offline, select the folder, and then select **Services** > **Offline Folder**.

Synchronize folders while connected

When you synchronize folders, the contents of your device folders and mail server folders are compared and updated. New mail messages are downloaded, and messages in your device Outbox folder are sent. The synchronization behavior depends on how you connect to your mail server.

When you connect to a POP3 server, the Inbox and Outbox folders on your device are synchronized with the corresponding folders on the mail server. To synchronize after the initial connection, select **Services** > **Send/Receive Mail**.

When you connect to an IMAP4 server, Inbox, Outbox, and all folders marked as offline are synchronized. To synchronize all folders after the initial connection, select **Services** > **Synchronize Folders**. To synchronize just the selected folder and the Outbox folder, select **Services** > **Send/Receive Mail.**

Organizing Messages

Move or copy a message

1. Select the message.
2. Select **File** > **Move To** or **File** > **Copy To**.
3. Select the destination folder.

If you are working offline, the message will be moved or copied from the server the next time you connect.

Caution: When you move a message that you have received through POP3 or synchronization to a folder you created on your device, the copy of the message on the server is deleted. This prevents duplicate copies of messages. Although the complete message is moved, message attachments will be deleted if you have not selected the option to download attachments. Once the message is moved, you will be able to access the message only from your device.

Delete a message

Select the message and select **File** > **Delete**. Messages are moved to the Deleted (local) folder and deleted according to the option you have selected in **Services** > **Options** > **Delete** tab:

- **On connect/disconnect**: Deletes messages when you connect or disconnect from your mail service or exit Inbox.
- **Immediately**: Deletes messages as soon as you select **File** > **Delete**.
- **Manual**: Deletes messages when you select **File** > **Empty Deleted (local)**.

Note If you are working offline, messages that have been deleted from the server will be deleted from the device the next time you connect.

Empty the Deleted (local) folder

Select **File** > **Empty Deleted (local)**. This permanently deletes messages in the Deleted (local) folder. To check or adjust the current settings for deleting messages, select **Services** > **Options** > **Delete** tab.

Clear messages and folders

When receiving mail from a POP3 or IMAP4 server, select the service that contains the folders and messages you want to clear, and then select **Service** > **Clear All**. All messages and folders that are linked to the selected service are cleared and memory space is expanded on the device without deleting messages on the server. The next time you connect, the messages and folders are downloaded again.

Unmark a message

To unmark a message that is marked for download, double-click the marked message.

Working with Message Attachments

Receive attachments

If you receive messages through a remote mail server, in Inbox on the device, select the **Get file attachments and meeting requests** (IMAP4) or **Get meeting requests** (POP3) setting in the **Inbox Preferences** dialog box.

Notes:

- Embedded images and OLE objects cannot be received as attachments.
- Embedded messages can be viewed as an attachment when using IMAP4 to receive e-mail. However, this feature does not work if TNEF is enabled so that you can receive meeting requests.

Check attachment status

- An attachment sent with an e-mail message, whether it has been downloaded or not, will appear as an icon at the bottom of the message in its own windowpane. If you don't see this pane, select **File** > **Attachments** > **Show Attachments**. If TNEF is turned on so you can receive meeting requests, you will not see attachments until they are fully downloaded.
- To mark an attachment for downloading in a POP3 or IMAP4 service, double-click it. The attachment will be downloaded the next time you connect. You can also set Inbox to download attachments automatically when you get a full copy of a message.

Open an attachment

With the message open, double-click the attachment's icon at the bottom of the message. If you don't see this pane, select **File** > **Attachments** > **Show Attachments**.

Store an attachment

1. Select **Services** > **Options** > **Storage** tab.
2. Select to store attachments on internal RAM or a storage card.
3. If you use more than one storage card, select it from the list.

Note: Once you make the above selection, all attachments will be moved to the selected card.

Delete an attachment

1. To delete an attachment from a message you are sending, select the attachment, and then select **Edit** > **Clear** or press the DEL key on the keyboard.
2. To delete an attachment you have received, delete the message.

Attach a file to a message

1. With the message open, select **File** > **Attachments** > **Add Attachment**.
2. Select the file you want to attach.

Note: OLE objects cannot be attached to Inbox messages.

Adding, removing, and viewing mail services

- All installed mail services are listed in the **Installed services** box.
- To add a mail service, select **Add**.
- To remove a mail service, select the service from the **Installed services** box and then select **Remove**.
- To view a mail service's properties, select the service from the **Installed services** box and then select **Properties**.

Terminal Emulation (2212, 2610, 2612, 7330 models)

The Terminal Emulation selection allows you to add PowerTerm sessions for 3270, 5250, and ASCII terminal emulations. When you add a Terminal Emulation session, the Connection Properties dialog appears.

1. Select the desired **Terminal Type**.
2. Supply the host IP address.
3. Type the **Terminal Name** if necessary.
4. Modify the **Port #** if necessary.
5. Type the **Connection Name**. This name automatically appears in the **Setup Name** field.
6. Click **OK**. The new connection appears in the **Connection Name** list of the Connection Manager.

Virtual Private Network (all models)

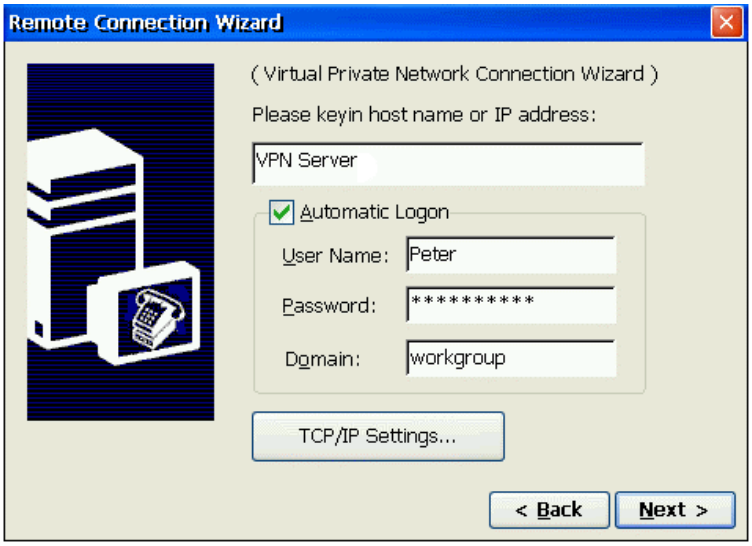
Follow the VPN Connection Wizard to configure a VPN connection.

1.

VPN Connection Wizard Dialog Box #1 (Not Shown)

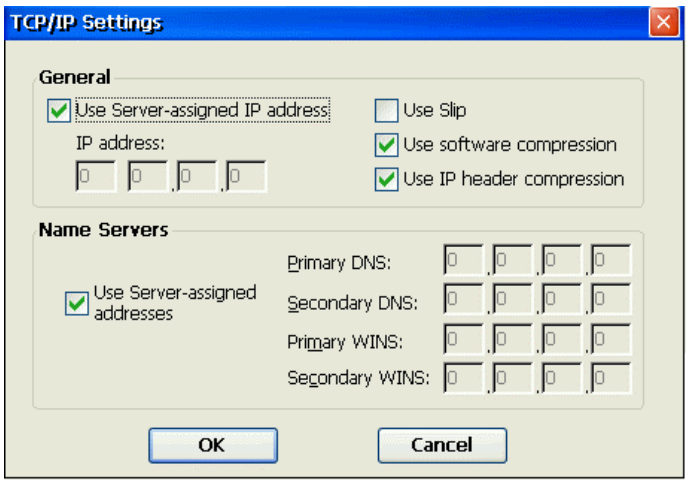
- **Name**: This is the connection name that will be listed in the Connection Manager.

2.



VPN Connection Wizard Dialog Box #2

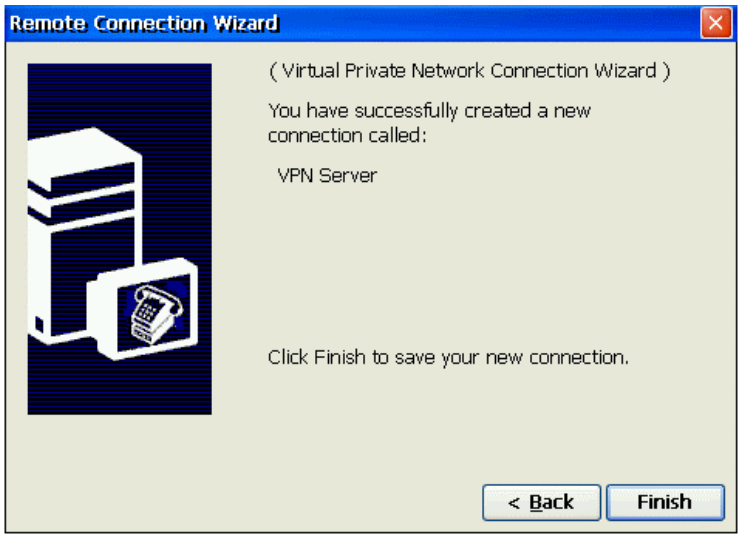
- **Please key in…**. Enter the VPN host name or IP address.
- **Automatic Logon**. Check this box and enter the logon information if you want an automatic logon after communication is established with the host.
- **TCP/IP Settings**. Click on this button to see the TCP/IP Settings dialog box.



TCP/IP Settings Dialog Box

The default settings you see here are commonly used to access a VPN server, and seldom need changing. Your network administrator will give you any changes that are necessary.

3.



VPN Connection Wizard Dialog Box #3

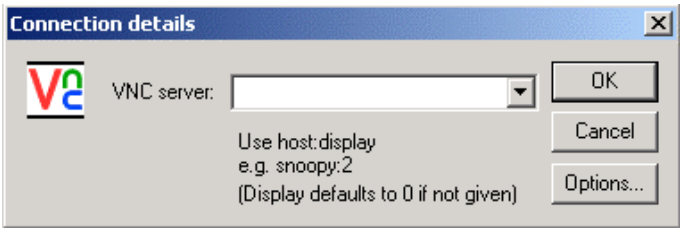
Click on **Finish** to complete the VPN connection setup.

VNC Viewer (all models except 2610 and 2611)

VNC (Virtual Network Computing) is, in essence, a remote display system which allows you to view a computing 'desktop' environment from anywhere on the Internet. It is platform-independent. A desktop running on a Linux machine may be displayed on a PC, or on your YES*tation*. VNC requires a server software module in the machine that is being viewed and a viewer software module in the viewing machine. With this VNC Viewer, you can view and control the desktop on any machine that is running the VNC server software. Of course, you need a TCP/IP connection to allow this to happen.

You can learn much more about VNC from the Web site http://www.uk.research.att.com/vnc/index.html.

1. The first time that you add a VNC Viewer, you will see a dialog box that is very similar to this one.



VNC Connection Details Dialog Box

   - **VNC server**. Enter the network name or the IP address of the device that you wish to view, along with the display number on the device (display 0 always works for me). For example, if the device name is snoopy, the entry will be **snoopy:0**. An IP address entry might be **100.100.10.10:0**. **NOTE: You must enter a display number; the viewer will not default to 0.**
   - **Options**. Click on this button to open the Connection Options dialog box. Probably the most important option here is **View only**. As the name implies, if this box is checked, you can only view the server desktop. If the box is not checked, you can provide keyboard and mouse input to the server desktop, much like an ICA or RDP session. For details on using other options, see the documentation at the above-referenced Web site.
2. When you press **OK**, the viewer will attempt to make a connection to the server identified in **VNC server**. If the server software is on at that device, you will see a dialog box asking for the password that has been configured in the VNC server properties. After entering the correct password, you will see a rendition of the server desktop. **Note:** When the viewer window is open, you cannot get back to Connection Manager. You can switch to other active sessions by using **Ctrl+Alt+UpArrow/DownArrow**, but **Ctrl+Alt+End** will return you to the open viewer window.
3. To close the viewer window, double-click on **Close** in the Connection menu.
4. Whenever you want to use VNC Viewer, you will have to go to the Connection Details dialog box. But all of your initial options and server information will still be in the dialog boxes, so all you have to do in subsequent viewings is click on **OK**, unless you want to go to a different server or change the options.

YES*term* IP Emulators (2213, 2611, 2613, 2613P, 7331 models)

The YES*term* IP emulators are powerful Telnet emulators that provide Windows CE users with the capability to connect to an AS/400 or an IBM mainframe, via the TCP/IP protocol. They provide enhanced emulation functions for a wide range of IBM terminals and "true" IBM 3812 or 3287 Printer emulation with the support of all the enhanced features normally available only on very expensive printer interfaces. YES*term*/IP can easily support up to 4 concurrent TCP/IP connections with different AS/400 and/or mainframe hosts. In addition, YES*term*/IP TN5250E supports the "Enhanced Display Auto-Signon and Password Encryption" allowing a secure connection to the AS/400, with no need of any SSL option. The configuration of Telnet sessions is made simple by a Wizard application that guides the user during the configuration process.

Display Sessions

Significant characteristics of YES*term* IP display sessions are:

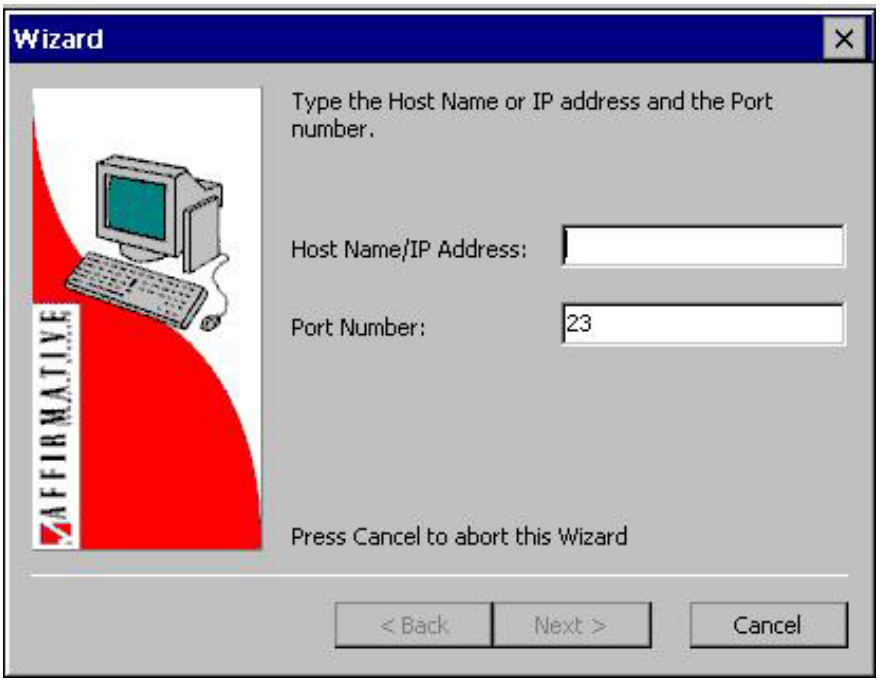
- IBM emulations supported: 3180-2, 3196, 3278/9, 3477-FG, 3477-FC, 5251, 5291.
- Numerous resident national keyboard templates and Code Pages.
- Enhanced keyboard mapping and customization, using Shift, Caps Lock, Alt, Ctrl, function keys, etc.
- EURO (€) symbol supported.
- Enhanced copy and paste options.
- Programmable Keypad.
- Attributes editing.
- Enhanced customizable Hot Spot feature.
- Enhanced macro Record/Playback feature.
- *Supports "Enhanced Display Auto-Signon and Password Encryption" allowing a secure connection to the AS/400.*
- **Choice of Windows or 5250 Text presentation modes.**

Setup

In the Add drop-down list, you are faced with a choice of TN3270e or TN5250e emulation types. After choosing one, a wizard will guide you through setup. You can have a maximum of four emulation sessions, with any mixture of 5250 and 3270 display and/or printer emulations.

The Setup Wizard will take you through three dialog boxes. Activate **Next** to go to the next box, **Back** to return to the previous dialog box, and **Cancel** or the **Esc** key to abort the process.

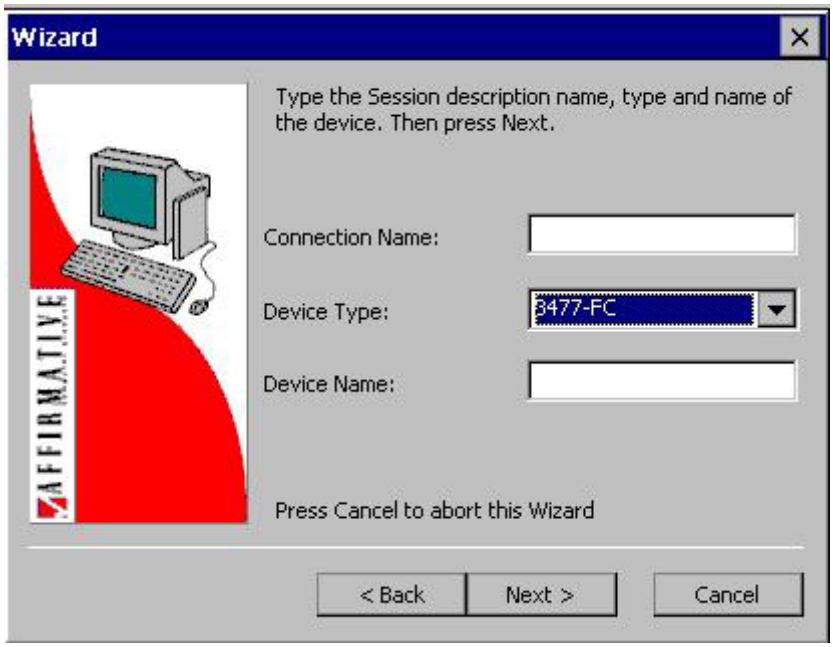
1.



Display Setup Wizard Dialog Box #1

- **Host Name/IP** Address. If you have a local DNS or WINS server, you can type in the host network name. Otherwise, type in the IP address of the host.
- **Port Number**. Use the default of **23** unless directed to do otherwise by your system administrator.

2.

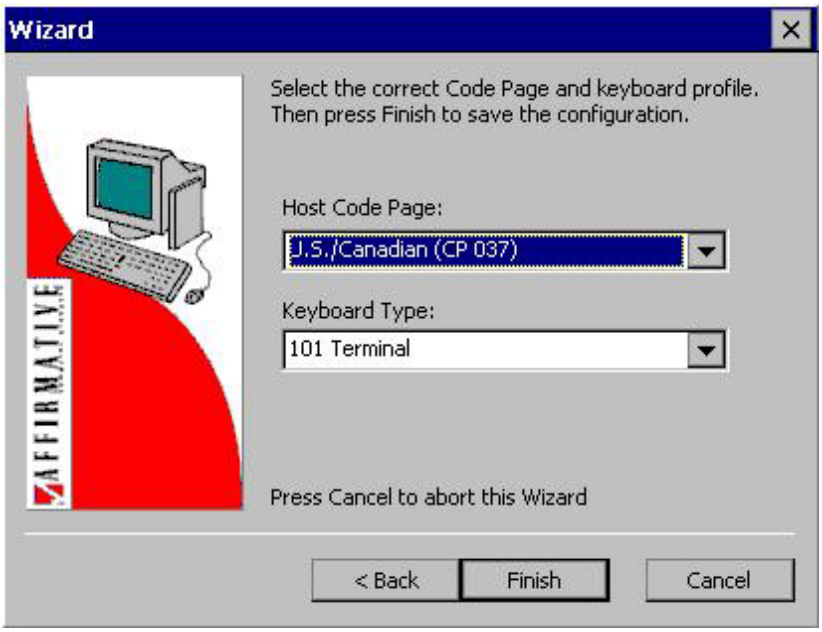


Display Setup Wizard Dialog Box #2

- **Connection Name**. This is the friendly name that will appear in the Connection Manager screen.

- **Device Type**. Select one from the drop-down list. The default **3477-FC** works well for TN5250e emulation, unless you have special needs.
- **Device Name**. If you are using named sessions, enter the session name here.

3.



Final Display Setup Wizard Dialog Box

- **Host Code Page**. Choose the applicable country from the drop-down list.
- **Keyboard Type**. Choose **101 Terminal** if you are using the Affirmative Computer Products 1010T, 1019T, 1023T, or 1027T 101-key keyboard; choose **122 keys** if you are using the Affirmative Computer Products 1220T, 1223T, or 1227T 122-key keyboard; otherwise, choose **101 PC**.

This concludes the configuration parameters covered by the wizard. However, you can customize many more parameters in each Display Session by highlighting the connection name in the Configure tab of Connection Manager and activating **Edit**.

Printer Sessions

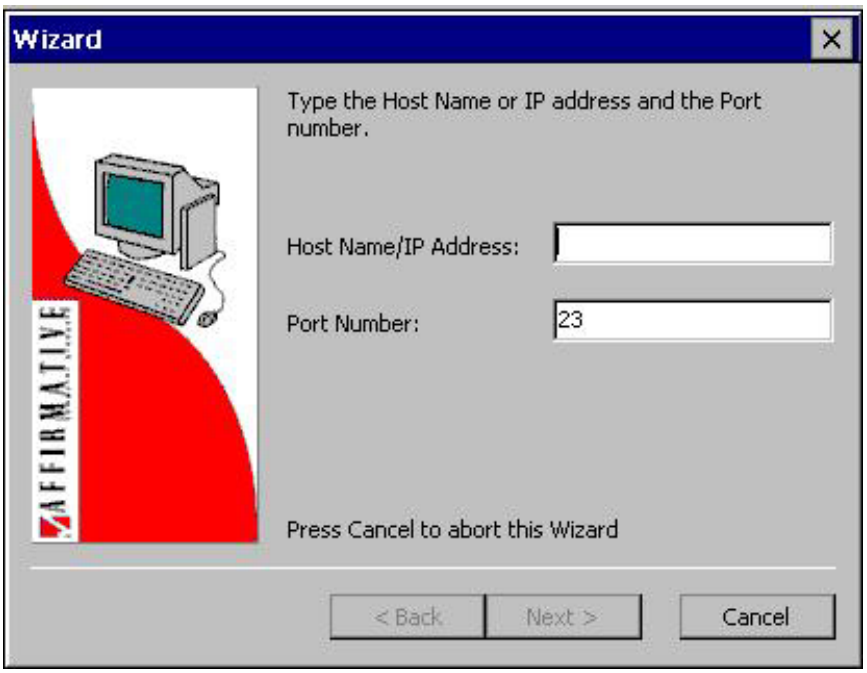
Significant characteristics of YES*term* IP printer sessions are

- IBM Emulation supported: 3287, 3812.
- Support for continuous forms, multi drawers, envelope, manual feeders, simplex/duplex, auto page orientation, and COR (Computer Output Reduction).
- Supports CPI, LPI Override and LQ, NLQ.
- Supports Host Transform Feature (5250 only).
- Supports Hex Pass-Through (HPT) feature, with customizable leading and ending sequences and support of "non-printable characters".
- Supports EURO symbol (€).

Setup

You can have multiple local printers, but you must create a printer session for each one. After you choose from **3270 Printer** or **5250 Printer**, a Setup Wizard will take you through three dialog boxes.

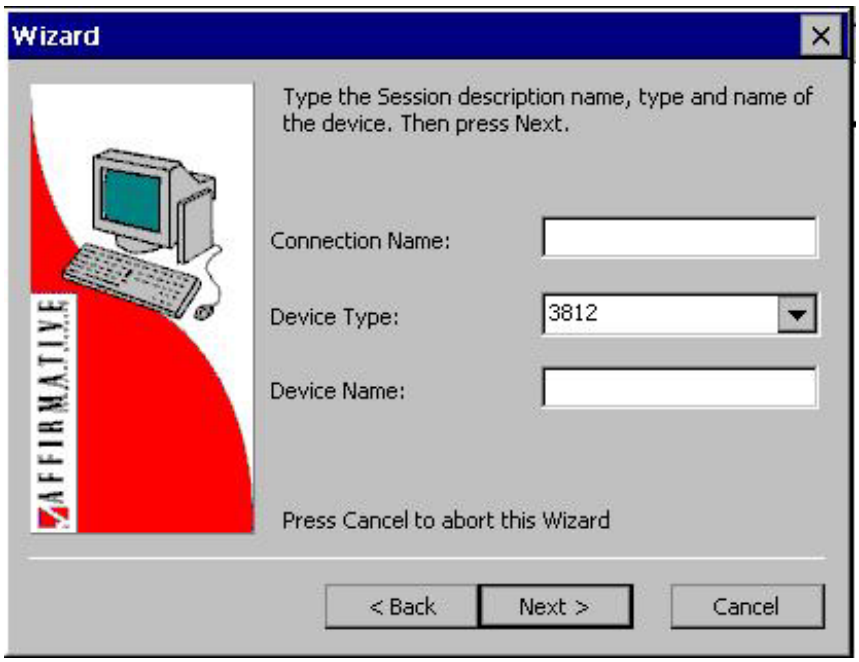
1.



Printer Setup Wizard Dialog Box #1

- **Host Name/IP Address**. If you have a local DNS server, you can type in the host network name. Otherwise, type in the IP address of the host. If you are creating this session for extended local printing, an IP address is irrelevant, but you must enter at least one character to satisfy the Wizard.
- **Port Number**. Use the default of **23** unless directed otherwise by your system administrator.

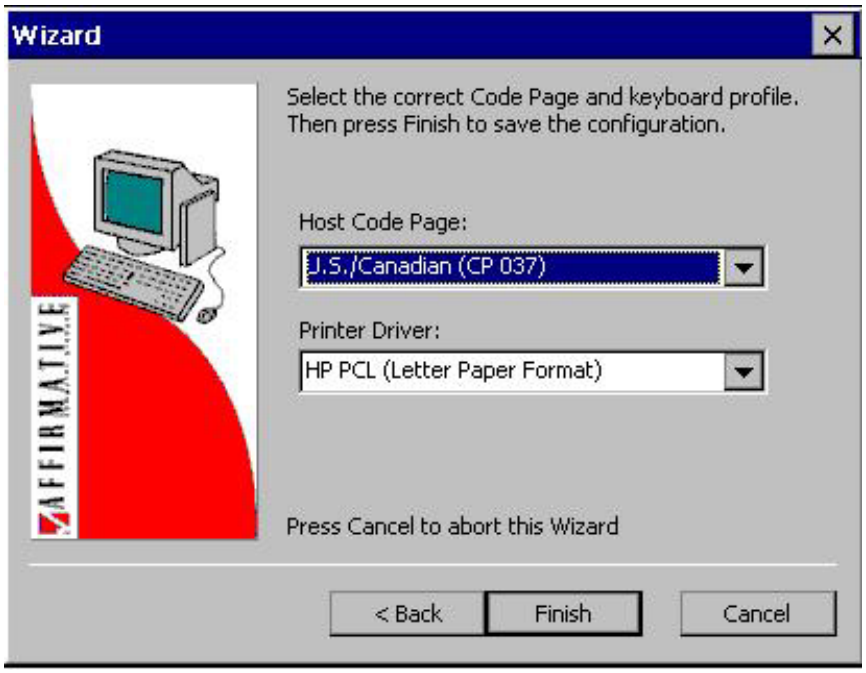
2.



Printer Setup Wizard Dialog Box #2

- **Connection Name**. This is the friendly name that will appear in the Terminal Connection Manager screen.
- **Device Type**. Only **3287** (3270) or **3812** (5250) is available for TCP/IP devices.
- **Device Name**. If you are using named sessions, enter the session name here.

3.



Printer SetupWizard Dialog Box #3

- **Host Code Page**. Choose the applicable country from the drop-down list.
- **Printer Driver**. If you are doing local or extended local Print Screens, or if you are not using the AS/400 Host Print Transform, choose a driver here that is compatible with the local-attached or LAN printer. If you can't find one in the list, try **Empty Driver**.

This concludes the configuration parameters covered by the wizard. However, you can customize many more parameters in each Printer Session by highlighting the connection name in the Configure tab of Connection Manager and activating **Edit**.

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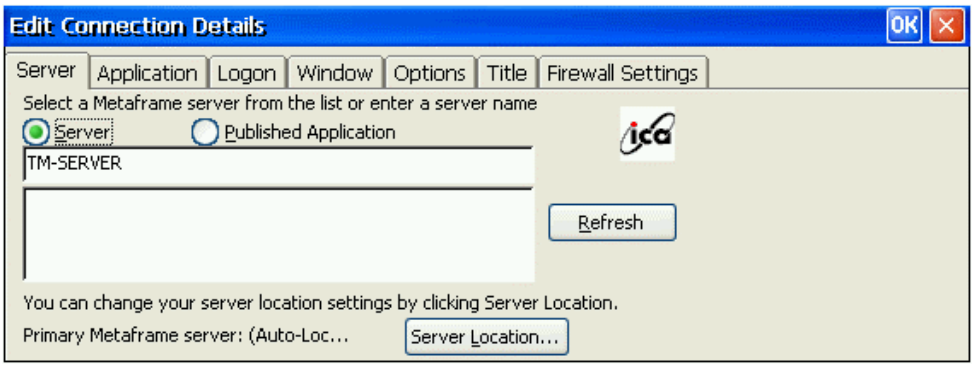
Editing an Existing Connection

Connection properties are edited in the Configure tab of Terminal Connection Manager. Highlight the session of interest and click on **Edit**.

Citrix ICA Client

When you click on **Edit**, you will see an Edit Connection Details window with seven properties tabs.



Edit Connection Details Window

The properties in each of these tabs exactly correspond to the properties specified in the dialog boxes of Creating a New Connection|Citrix ICA Client.

Dial-Up Client

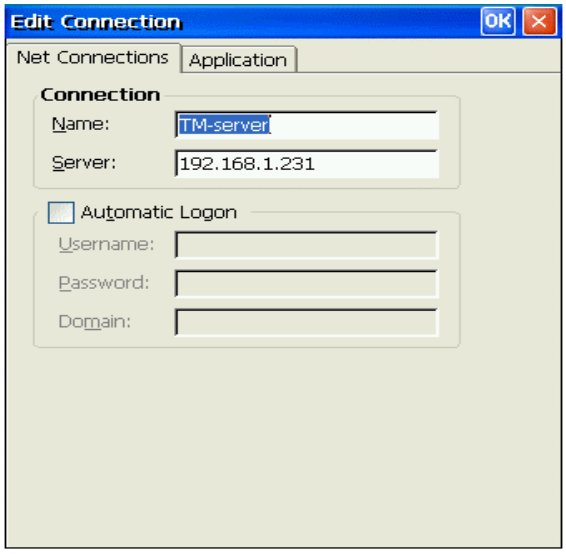
When you click on **Edit**, you will be led through the same Remote Connection Wizard described in Creating a New Connection|Dial-Up Client.

Microsoft Internet Explorer

When you click on **Edit**, you will see the same Web Connection Add Dialog Box seen in Creating a New Connection|Microsoft Internet Explorer. Other options can be edited within the active session from the **Internet Options** selection of the View menu.

Microsoft Remote Desktop Client

When you click on **Edit**, you will see an Edit Connection window with two tabs.



RDP Edit Connection Window

The properties in these two tabs are exactly the same as those specified in the WTS Connection Wizard in Creating a New Connection|Microsoft Remote Desktop Client.

Terminal Emulation

For detail on editing PowerTerm emulation sessions, see the Affirmative Computer Products Web site at http://www.affirmative.net/pub/PowerTermUserGuide.pdf.

YES*term* IP Emulators

For detail on editing YES*term* IP emulation sessions, see the Affirmative Computer Products Web site at http://www.affirmative.net/pics/archive/YESterm-IP_CE.pdf.

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Firmware Upgrade Utilities

There are two methods to upgrade your firmware.

Upgrade from FTP Server

This function can run when an FTP server is available on your Local Area Network (LAN) or on a Wide Area Network. The FTP server must be able to respond to a file size query from the terminal. The FTP server included in Windows 2000 servers does provide this information, but some shareware FTP servers do not.

1. Download the latest-version firmware from the Affirmative Computer Products Web site, per the Affirmative Computer Products Technical Support instructions.
2. Extract the downloaded files. You will see 1, 2, or 3 files; one of them will be a .bin file.
3. Save the extracted files in your FTP server with a known path.
4. Configure your FTP server software with the desired User Name, User Password, and path to the firmware files, as required by your particular FTP software package.
5. Proceed to one of the following sections, depending upon your terminal model.

Note: Your FTP server should not have Proxy protection.

Model 22xx

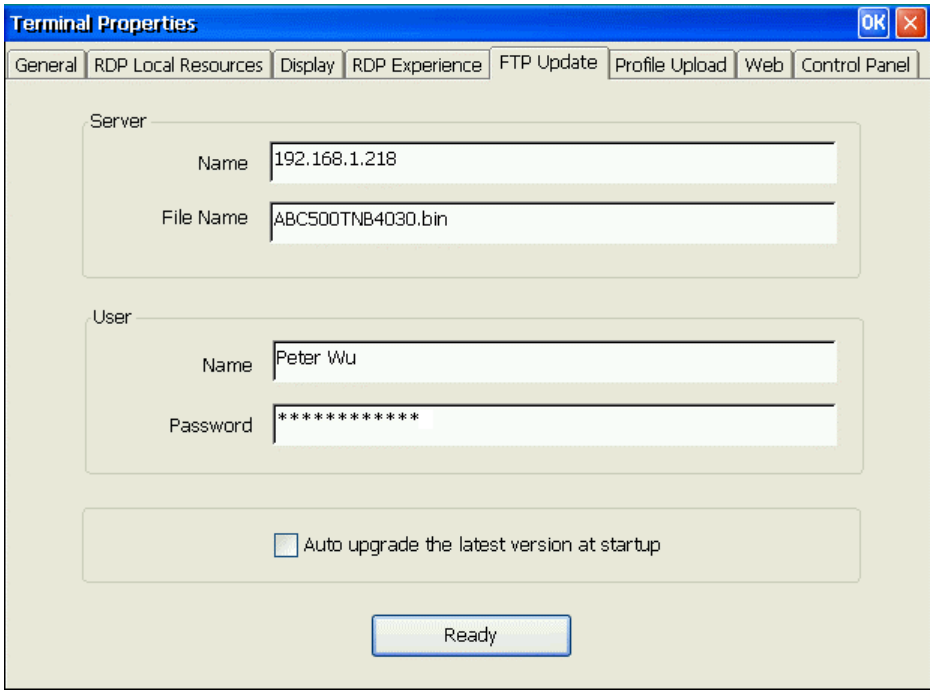
WARNING: You may lose all your configuration information during the upgrade. So record your configuration information before upgrading.

1. Click on the **Control Panel** tab.
2. Double-click on the **FTPUpdate** icon to see the FTPUpdate dialog box (not shown here).
3. Enter the information in the fields.
   - **Server Name**. Enter the FTP server's IP address.
   - **Server Path Name**. Depending upon how you have configured your FTP server, you may have to enter path information to the latest-version firmware .bin file.
   - **Server File Name**. Enter the latest-version firmware .bin file name. An attractive alternative is to click on the drop-down arrow at the right of this field. You will see a drop-down list of all the available .bin files in the server path, and you can select the one you want. If you don't see a drop-down list, there is an error in your path information or in your network connection.
   - **User Name**. Enter your User Name to access the FTP server.
   - **User Password**. Enter your Password to access the FTP server
4. Activate the **Download** button to start the firmware upgrade. WARNING: **DO NOT make any change that may corrupt the upgrade procedure**, such as turning off power or disconnecting from the network, after you activate the **Download** button.

5. A progress bar will show if you connect to the FTP server successfully.. The upgrade process is done in two phases, with a progress bar for each phase. In phase 1, the new firmware is transferred over the network into terminal RAM. If there are any problems in this phase, an error message will pop up. Activate the **OK** button and re-check your upgrade information. Check the file name for accuracy and verify that you have established the correct path information at your FTP server. The error may also possibly be caused by incorrect settings in the Network tab.
6. In phase 2, which happens automatically after phase 1 is complete, the new firmware will be written into flash.
7. After the second phase is complete, you will be told that the terminal must be rebooted before the upgrade takes effect. You may think that you have a choice at this point, but you really don't. You cannot proceed any further without rebooting.
8. If necessary, go through the Setup Wizard and reconfigure your terminal.

Models 26xx and 733x

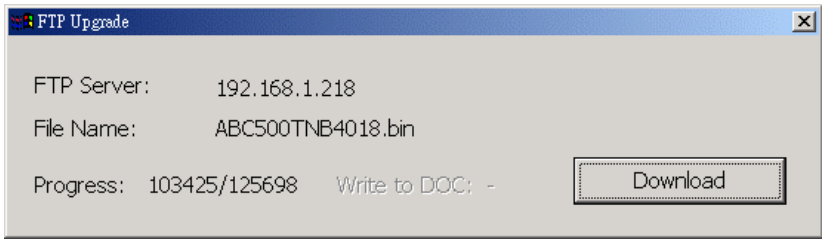
1. Invoke the Terminal Properties dialog box by pressing the **F2** key in the Terminal Connection Manager window.
2. Click on the **FTP Update** tab. You will see the following properties sheet.



FTP Update Properties Sheet (Not seen in 22xx terminals)

3. Enter the information in the fields.
   - **Server Name**. Enter the FTP server's IP address.
   - **Server File Name**. Enter the latest-version firmware .bin file name. Depending upon how you have configured your FTP server, you may also have to enter path information here.
   - **User Name**. Enter your User Name to access the FTP server.
   - **User Password**. Enter your Password to access the FTP server
   - **Auto upgrade…**. Do not check this box. The auto upgrade feature is troublesome.

4. Activate the **Ready** button to start the firmware upgrade. WARNING: **DO NOT make any change that may corrupt the upgrade procedure**, such as turning off power or disconnecting from the network, after you activate the **Ready** button. This may cause the flash memory in your terminal to become unusable until repaired by Affirmative Computer Products.
5. The FTP Upgrade progress window will show if you connect to the FTP server successfully.



FTP Upgrade Progress Window

6. The upgrade process is done in two phases. In phase 1, the new firmware is transferred over the network into terminal RAM. If there are any problems in this phase, an error message will pop up. Activate the **OK** button and re-check your upgrade information. Check the file name for accuracy and verify that you have established the correct path information at your FTP server. The error may also possibly be caused by incorrect settings in the Network tab.
7. In phase 2, which happens automatically after phase 1 is complete, the new firmware will be written into flash.
8. After the second phase is complete, you will be told that the terminal must be rebooted before the upgrade takes effect. You may think that you have a choice at this point, but you really don't. You cannot proceed any further without rebooting.
9. If necessary, go through the Setup Wizard and reconfigure your terminal

.

Upgrade Using Remote Central Management

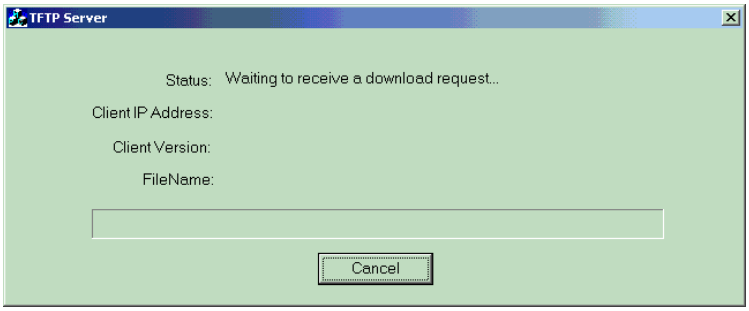
If TCOSoft or YESM*anager* central management software is installed on your network, you can use either of them to upgrade your firmware. This method is usually used on large network systems with a large quantity of terminals. Please see the appropriate User Guide for this upgrade procedure.

- For TCOSoft, go to http://www.affirmative.net/pub/TCOSofUserGuide.pdf.
- For YESM*anager*, go to http://www.affirmative.net/pub/YESmanagerUserGuide.pdf.

Recovering a Corrupted DOC (models 26xx and 733x only)

If the DOC in your terminal fails for any reason and the terminal cannot work again (usually evidenced by being stuck on the Affirmative logo screen when you boot up), try the following procedure to recover.

1. Obtain the DOC Recovery files from Affirmative Computer Products.
2. Place these files in a separate folder on your FTP server.
3. On the server side, execute **TFTP Server.exe** in the DOC Recovery folder. You will see the following window:



TFTP Server "Waiting" Window

4. Reboot the failed unit. PRESS and HOLD **Ctrl + LeftShift + RightShift** after the "Loading WinCE, Go" display and before the Affirmative logo screen to reach the DOC Recovery utility.
5. You will see a Recovery screen on the terminal with the brief message "Waiting for server", and then you will see upgrade progress bars.
6. The terminal will automatically upgrade to a preset version and then automatically reboot. The bad DOC will have been recovered.
7. On the server, the TFTP Server window will change to:

TFTP Server "Done" Window

8. Go through the Setup Wizard on the terminal.
9. Upgrade the terminal to the desired version and reconfigure it.

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Troubleshooting Your Terminal

The following table provides some solutions to common problems that can occur during setting up or using your Windows-Based Terminal.

	Problems	Solution
1	The monitor screen is blank	• Make sure the terminal is turned on. • Make sure the monitor is plugged into an AC outlet and turned on. • Make sure the VGA connector is plugged into the terminal.
2	Your monitor can not display after advancing past the logo screen or after changing the display setting	The display setting may be at a higher resolution or refresh frequency than the monitor will support. Execute one of the following recovery options: • Use a better monitor for display. • Use a better monitor for display while changing the display settings to be compatible with the original monitor. • Ask your MIS or network administrator to reset your terminal to factory default settings through the Remote Management" software, if it is installed at your server site.
3	The mouse does not work	• Make sure the mouse is plugged into the mouse port, not the keyboard port. • Test the terminal using a known good PS/2 mouse.
4	The keyboard does not respond	• Make sure the keyboard is plugged into the keyboard port, not the mouse port. • Test the terminal using a known good PS/2 keyboard.
5	The network connection does not work	• Check the network connection. • Verify the terminal IP address is correct in the Network properties sheet of Terminal Properties. • Check the server's IP address. • If you are using the terminal default setting of DHCP address assignment, make sure there is a workable DHCP server on your network. • If you are using a specified IP address, make sure that there is not another network device with the same IP address.

6	Forgot the password setting and cannot reconfigure the terminal.	Ask your MIS or network administrator to reset your terminal to factory default settings through the Remote Management software, if it is installed at your server site. .
7	You have created a Dial-up session, but it cannot dial out through an external modem.	Make sure that the Dialing Properties are correct in the Dial-Up Connection dialog box of the Dialup properties sheet of Terminal Properties..
8	Your Dial-up session dials out through your external modem, but it cannot make a connection with the server.	• Your modem may not be 100% Hayes-compatible. If not, you will have to specify a special modem initialization string in the Call Options dialog box. • Your Login Name or Password may be incorrect. in the Dial-Up Connection dialog box of the Dialup properties sheet of Terminal Properties... • Your Connection Preferences are incorrect in the Port Settings part of the Device Properties dialog box in the Dialup properties sheet of Terminal Properties.
9	When trying to open a downloaded document, you get an error message "xxx Viewer encountered an internal error trying to load or display the requested file.	There is not enough room in your browser cache. You can try any or all of the following corrective procedures: • Clear cache in View|Internet Options and download again. • Increase the cache size in View|Internet Options and download again. • Close the browser session, reopen, and download again

Support

Affirmative Computer Products offers Technical Support services for all the Affirmative products. You can access Affirmative Technical Support in one of the following ways:

- via Phone
  - 480-946-1444
  - 888-353-5250
- via Fax
  - 480-946-9250
- via E-mail
  - support@affirmative.net

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Appendix 1. Specifications

22xx Models

ITEM	SPECIFICATIONS
Processor	SIS 550 200 MHz
Communication and Ports	• Microsoft RDP and Citrix ICA protocol compliant. • 10/100 dual-speed Ethernet, Twisted Pair (RJ45). • One parallel port (DB-25 Female connector). • Enhanced ps/2 keyboard interface. • Enhanced ps/2 mouse interface. • Two USB ports.
Embedded O.S.	Microsoft Windows CE.net with Microsoft IE 5.5 browser
Video	• SVGA • 640x480, 800x600, 1024x768, and 1280x1024 with high color. • Refresh frequency up to 85 Hz
Memory	• SDRAM -- 64 MB SDRAM standard. (Max. 256MB) • Flash -- 16 MB DOC standard. (Max. 64MB)
Server Operating System Support	• Microsoft Windows 2003 Server • Microsoft Windows 2000 (Server Edition) • Microsoft Windows NT 4.0 (TSE) • Citrix MetaFrame XP • Citrix MetaFrame • Citrix WinFrame
Optional Devices	• USB storage • USB to COM port adapter

ITEM		SPECIFICATIONS
Software Features		• Remote Management Software • Wake on LAN (WOL) • SNMP support • Time zone and SNTP support • Terminal access password for security • Multi-session Autostart with Fail-over • LPD & ThinPrint support • Virtual Private Network support • Office Viewer and PDF Viewer • VNC Viewer • Inbox (email) • RAS dial-up (option) • Terminal emulation (option)
Environment	Temperature	• Operating: 5 ºC to 40 ºC (41 ºF to 104 ºF) • Storage: -40 ºC to 60 ºC (-4 ºF to 140 ºF)
	Relative Humidity	90% maximum, non-condensing
	Operating Altitude Range	0 to 10,000 feet (0 to 3050 meters)
	Power	• Full range auto-sensing 100 ~ 240 VAC at 50 Hz ~ 60 Hz • 10 Watts
Regulatory Compliance		• UL • C-UL • TUV • FCC Class B • CE mark
Physical Characteristics	Dimension (WxDxH)	194.5 x 151.5 x 40 (mm)
	Weight	0.65 Kg

26xx Models

ITEM	SPECIFICATIONS
Processor	National Semiconductor Media Gx1 300 MHz with 5530A support chip
Communication and Ports	• Microsoft RDP and Citrix ICA protocol compliant • 10/100 dual speed Ethernet, Twisted Pair (RJ45) • One parallel port (DB-25 Female connector) • Two serial ports with RS-232C (DB-9 male connectors) • Enhanced ps/2 keyboard interface • Enhanced ps/2 mouse interface • Two USB ports • Audio out and Microphone in
Embedded O.S.	Microsoft Windows CE.net with optional Microsoft IE 5.5 browser
Video	• SVGA • 640x480, 800x600, and 1024x768 with high colors • 1280x1024 with 256 colors • Refresh frequency up to 85 Hz
Memory	• SDRAM -- 64 MB SDRAM standard. (Max. 256MB) • Flash -- 8 or 16 MB DOC standard. (Max. 96MB)
Server Operating System Support	• Microsoft Windows 2003 Server • Microsoft Windows 2000 (Server Edition) • Microsoft Windows NT 4.0 (TSE) • Citrix MetaFrame XP • Citrix MetaFrame • Citrix WinFrame
Optional Devices	• Touch Screen • USB storage • Wireless Adaptor card (PCMCIA, 802.11b)

ITEM		SPECIFICATIONS
Software Features		• Remote Management Software • SNMP support • Time zone and SNTP support • Terminal access password for security • Multi-session Autostart with Fail-over • LPD & ThinPrint support • Virtual Private Network support • Office Viewer and PDF Viewer • VNC Viewer • Inbox (email) • RAS dial-up • Terminal emulation (option)
Environment	Temperature	• Operating: 5 ºC to 40 ºC (41 ºF to 104 ºF) • Storage: -40 ºC to 60 ºC (-4 ºF to 140 ºF)
	Relative Humidity	90% maximum, non-condensing
	Operating Altitude Range	0 to 10,000 feet (0 to 3050 meters)
	Power	• Full range auto-sensing 100 ~ 240 VAC at 50 Hz ~ 60 Hz • 15 Watts
Regulatory Compliance		• UL • C-UL • TUV • FCC Class B • CE mark
Physical Characteristics	Dimension (WxDxH)	231 x 201 x 45 (mm)
	Weight	1.35 Kg

733x Models

ITEM	SPECIFICATIONS
Processor	National Semiconductor Geode Gx1 300 MHz with 5530A support chip
Communication and Ports	• Microsoft RDP and Citrix ICA protocol compliant • 10/100 dual speed Ethernet, Twisted Pair (RJ45) • One parallel port (DB-25 Female connector) • Two serial ports with RS-232C (DB-9 male connectors) • Enhanced ps/2 keyboard interface • Enhanced ps/2 mouse interface • Two USB ports
Embedded O.S.	Microsoft Windows CE.net with Microsoft IE 5.5 browser
Video	• Integrated 15" LCD monitor • 640x480, 800x600, and 1024x768 with high colors • Refresh frequency up to 85 Hz
Audio	Integrated high quality stereo speakers
Optional Devices	Touch Screen USB storage
Software Features	• Remote Management Software • SNMP support • Time zone and SNTP support • Terminal access password for security • Multi-session Autostart with Fail-over • LPD & ThinPrint support • Virtual Private Network support • Office Viewer and PDF Viewer • VNC Viewer • Inbox (email) • RAS dial-up • Terminal emulation (option)
Memory	• SDRAM -- 64 MB SDRAM standard. (Max. 256MB) • Flash -- 16 MB DOC standard. (Max. 96MB)

ITEM		SPECIFICATIONS
Server Operating System Support		• Microsoft Windows 2003 Server • Microsoft Windows 2000 (Server Edition) • Microsoft Windows NT 4.0 (TSE) • Citrix MetaFrame XP • Citrix MetaFrame • Citrix WinFrame
Environment	Temperature	• Operating: 5 ºC to 40 ºC (41 ºF to 104 ºF) • Storage: -40 ºC to 60 ºC (-4 ºF to 140 ºF)
	Relative Humidity	90% maximum, non-condensing
	Operating Altitude Range	0 to 10,000 feet (0 to 3050 meters)
	Power	• Full range auto-sensing 100 ~ 240 VAC at 50 Hz ~ 60 Hz • 35 Watts
Regulatory Compliance		• UL • C-UL • TUV • FCC Class B • CE mark
Physical Characteristics	Dimension (WxDxH)	393 x 175 x 393 (mm)
	Weight	5.1 Kg

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Appendix 2. TCP/IP Error Codes

Here is a comprehensive list of standard TCP/IP error codes that can occur during network operation. Some of them are quite esoteric and may not be applicable to YES*tation* operation, but this list should include any networking error code that you encounter. They should be useful in troubleshooting network errors, many of which are caused by incorrect configuration.

10004
Interrupted function call.

10013
Permission denied.

10014
Bad address.

10022
Invalid argument.

10024
Too many open sockets.

10035
Resource temporarily unavailable.

10036
Operation now in progress. A blocking operation is in progress.

10037
Operation already in progress.

10038
Socket operation on non-socket.

10039
Destination address required.

10040
Message too long.

10041
Protocol wrong type for socket.

10042
Bad protocol option.

10043
Protocol not supported.

10044
Socket type not supported.

10045
Operation not supported.

10046
Protocol family not supported.

10047
Address family not supported by protocol family.

10048
Address is already in use. If you attempt to set up a server on a port that is already is in use, you will get this error.

10049
Cannot assign requested address.

10050
Network is down.

10051
Network is unreachable.

10052
Network dropped connection on reset.

10053
Software caused the connection to abort, usually due to connection or protocol error.

10054
Connection reset by peer. This occurs when an established connection is shut down for some reason by the remote computer.

10055
No buffer space available.

10056
Socket is already connected.

10057
Socket is not connected.

10058
Cannot send after socket shutdown.

10060
Connection timed out.

10061
Connection refused. You will usually see this error when a server refuses a connection from a client, because the server is not listening on that port.

10064
Host is down.

10065
No route to host.

10067
Too many processes.

10091
Network subsystem is unavailable.

10092
Unsupported version of WINSOCK.DLL.

10093
TCP networking has not been initialized on your computer.

10094
Graceful shutdown in progress.

11001
Host not found. (DNS error.)

11002
Non-authoritative host not found. Temporary DNS error.

11003
Non-recoverable error. (DNS error.)

11004
Valid name, no data record of requested type. (DNS error.)

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