



Natural Touch of 5250/3270 Communication

# **Maple Windows CE based Thin Client Manual**

Version 2.2.1

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# Chapter 1 - Terminal Operation

This chapter describes the basic terminal operation

- Initial Terminal Setup
- Terminal Management: Connection configuration and control
- Connection Navigation

## 1.1 Initial Terminal Setup

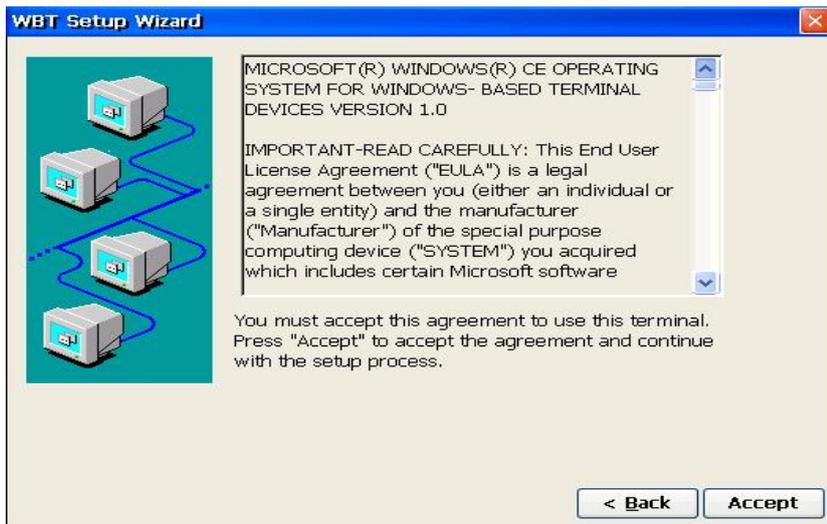
When you power on the terminal for the first time, the Setup Wizard will be used for initial setup of the terminal's properties. Following are the dialog boxes of the setup wizard. This sequence is also invoked when the terminal is reset to initial conditions.

### Welcome Dialog Box



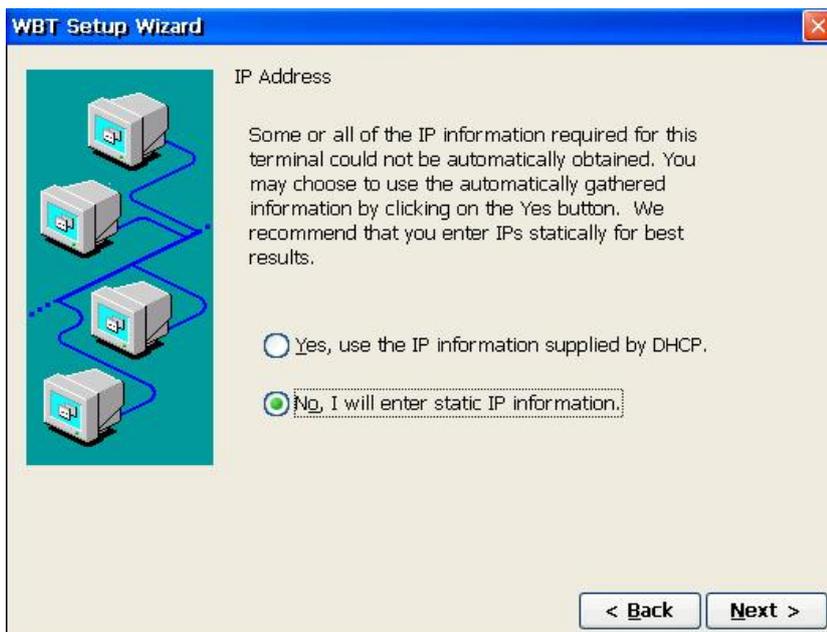
This dialog box provides product information. A 15-second countdown displays at the top. Click **Next** to continue, or wait for the countdown to end. Press **Esc** to bypass the following screens to use default settings (Network DHCP enabled, Display resolution of 800x600 (640x480) @ 60Hz, no security, etc.) and proceed to the Terminal Manager screen (see section 1.2).

## EULA (End User License Agreement) Dialog Box



Please read the license agreement carefully. Click **Accept** to continue.

## IP Address Dialog Box



Click on one of the two buttons to select a method to supply the IP Address.

The default is **No; I will enter static IP information**. If you select **Yes, use the IP information supplied by DHCP**, the next figure (Specify an IP Address Dialog Box) will be skipped.

## Specify an IP Address Dialog Box

WBT Setup Wizard

Specify an IP Address

You must specify the following network information. If you do not know this information, ask your network administrator.

IP Address: .0 .0 .0

Subnet Mask: 0 .0 .0 .0

Gateway: 0 .0 .0 .0

Terminal Name T10186E

< Back Next >

Enter the network information requested in the fields provided.

## Optional Information Dialog Box

WBT Setup Wizard

Fill in the following optional information to configure the terminal's name resolution.

Enable DNS

Default Domain Name:

Primary Server IP:

Secondary Server IP:

Enable WINS

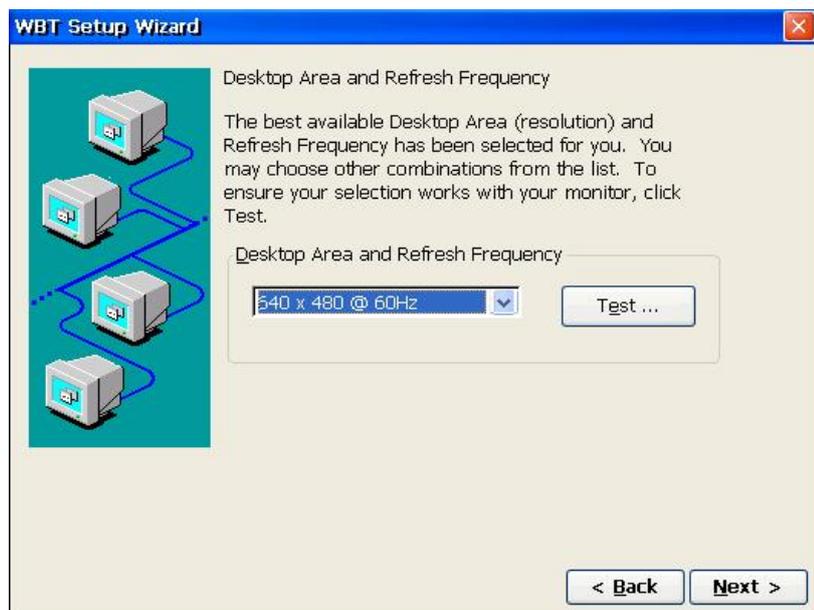
Primary Server IP:

Secondary Server IP:

< Back Next >

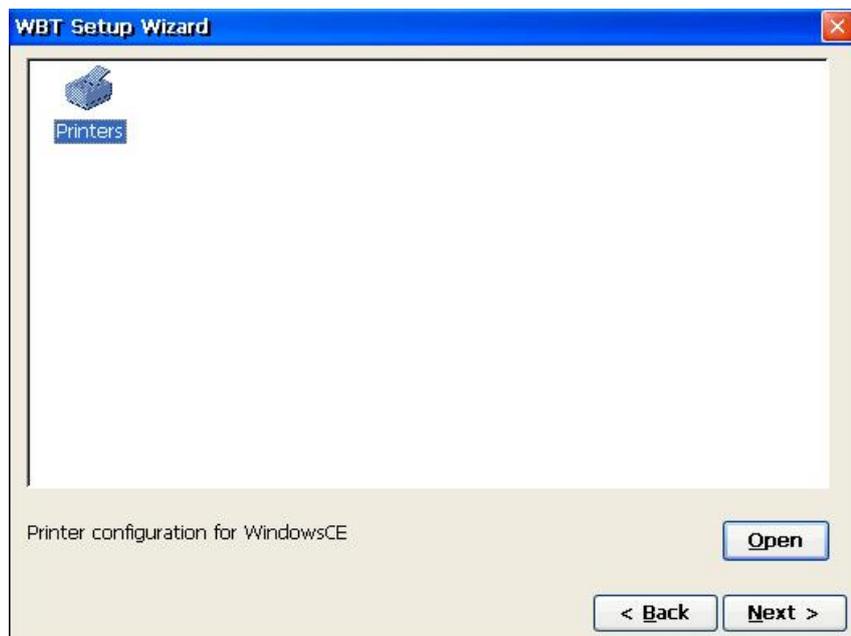
If you use DNS (Domain Name System) or WINS (Windows Internet Name Service) to resolve names to IP addresses, select a check box and enter the required information. By default the check boxes are unselected. If DHCP is used, the DNS server is commonly specified and would not need to be entered here.

## Desktop Area and Refresh Frequency Dialog Box



Select from the scroll list to set the resolution. The default setting is **800x600 (640x480) @ 60Hz**. Always click **Test** to see the resolution selected temporarily and determine whether it works with your monitor.

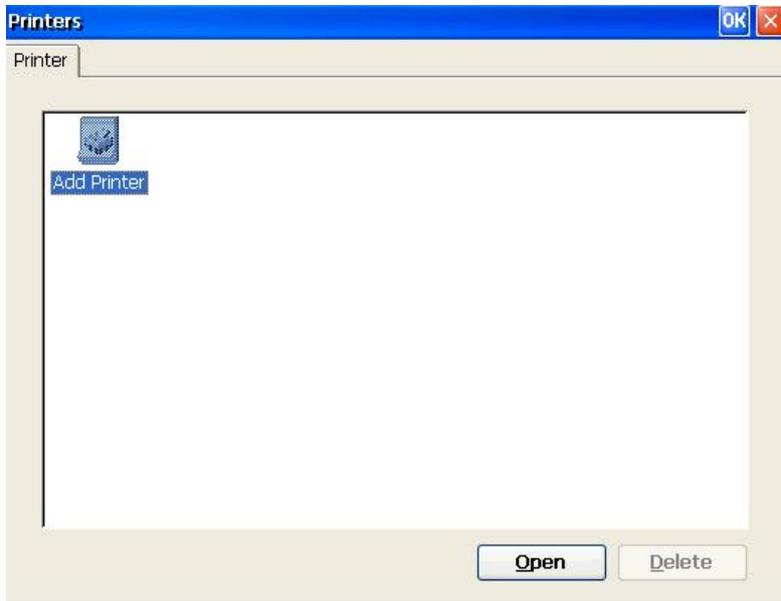
## Local 'RDP' Printer Setup Dialog Box



Click **Open** to setup a local printer to be used with an RDP session. Click **Next** and the Finish

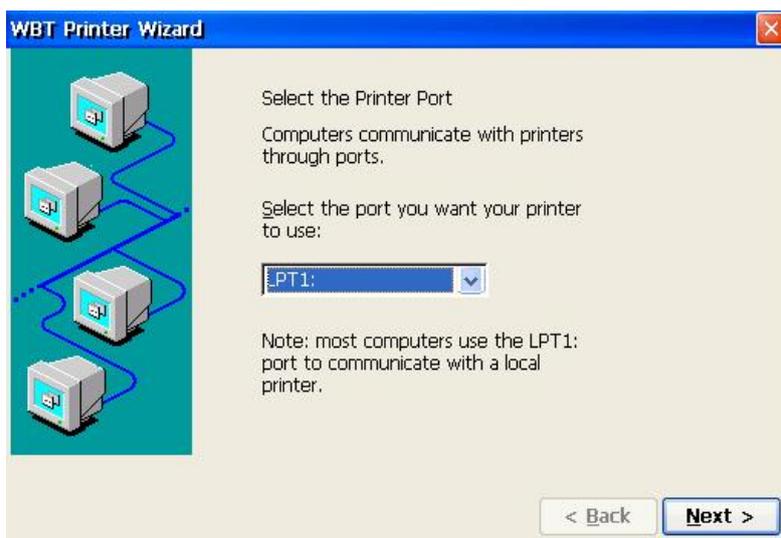
dialog box will display.

### Local Printer Configuration Dialog Box



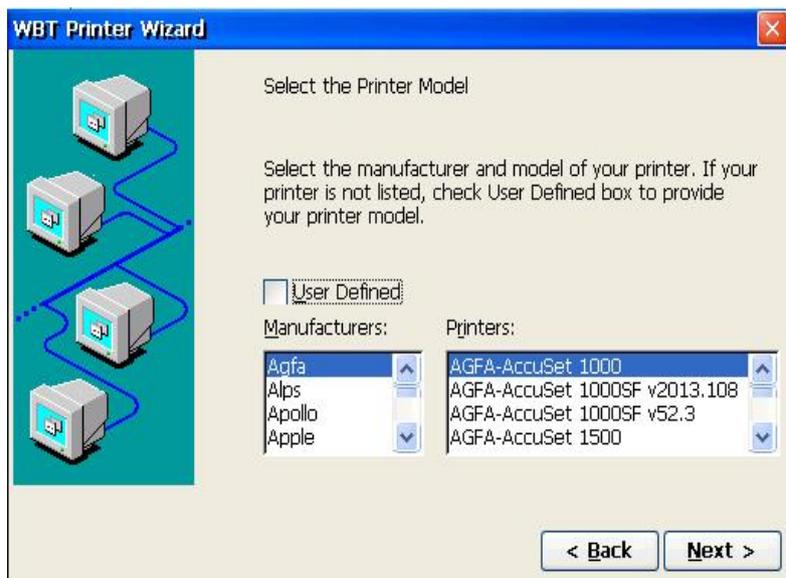
Click **Open** to setup a local printer. Click **Delete** to delete the local printer. Click **OK** to return to the Local Printer Setup dialog box.

### Select the Printer Port Message Box



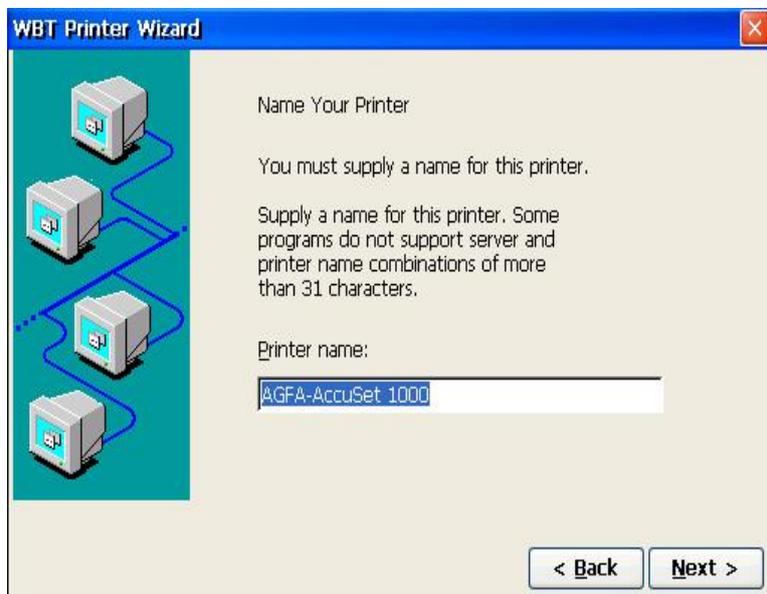
Select the port you want your printer to use. Most users select LPT1 port for a local printer. LPT2, if listed, represents a USB attached printer. COM1/COM2, if listed, refer to a serial attached printer.

## Select the Printer Model Message Box



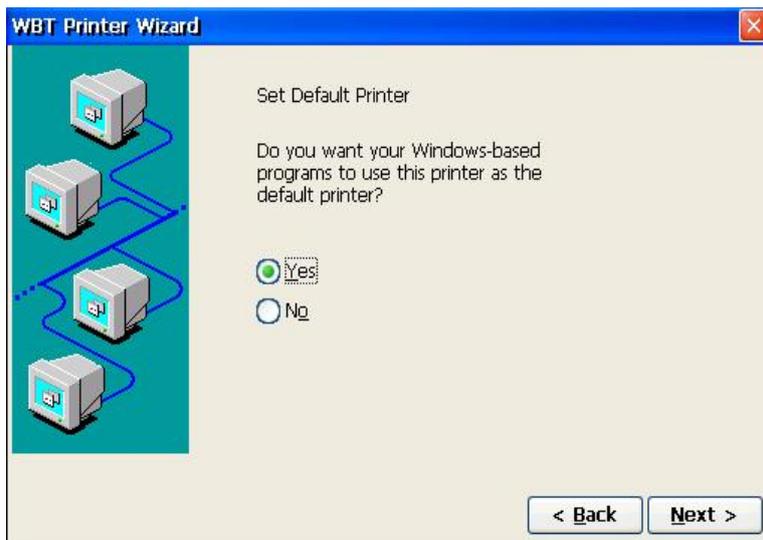
Select the manufacturer of your printer from the Manufacturers list. Then, choose the correct printer model from the Printers list.

## Name your Printer Dialog Box



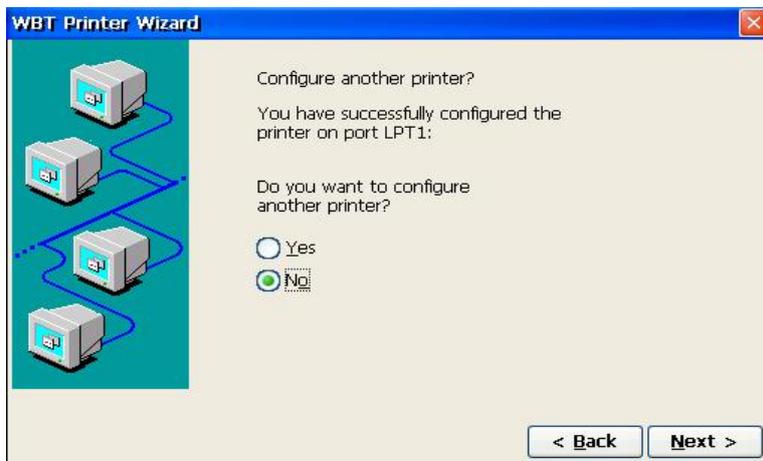
Specify the name of your printer. The printer name can be entered as no more than **31** characters.

## Set Default Printer Dialog Box



This dialog box allows you to set the local printer as the default printer. The default selection is **YES**.

## Configure Another Printer Dialog Box



If you need to set up the second printer, select **YES** then click **Next** to repeat the prior screens to setup another printer.

The default selection is **NO**. Click **Next** to finish.

## Finish Dialog Box



Click ***Finish*** to apply your specified setting and quit the Setup Wizard.

## Terminal Settings Change



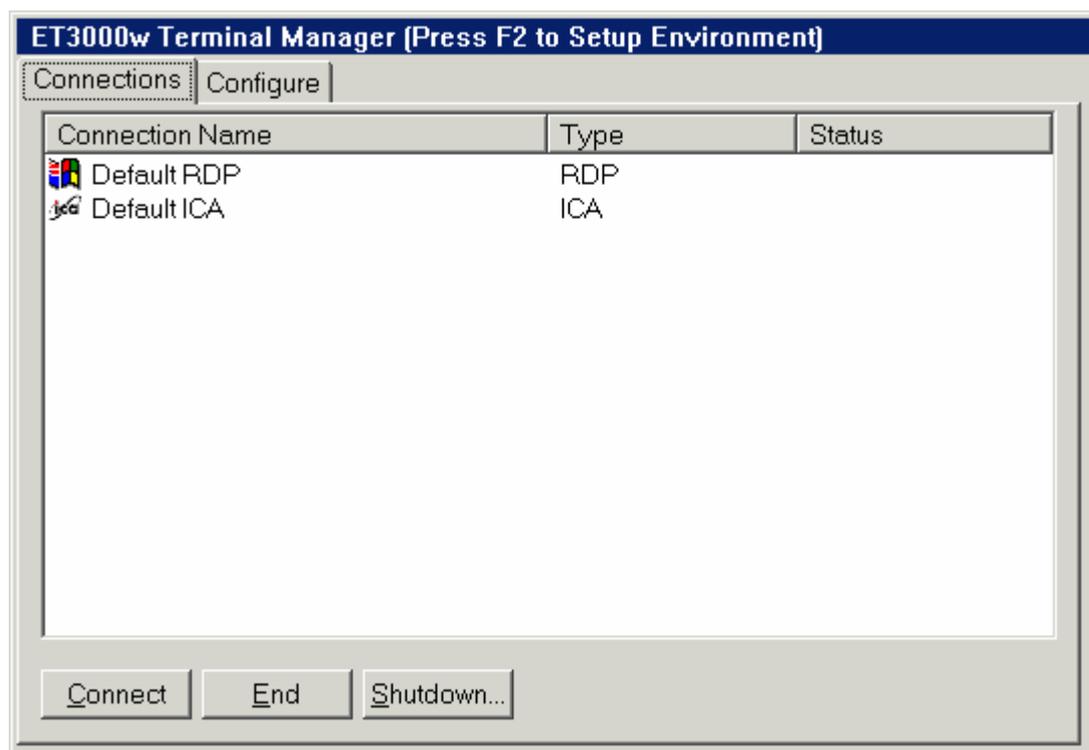
The terminal must be restarted for changes to take effect. Click ***Restart*** to complete the initial terminal setup.

To change the setup, press **F2** from the Terminal Manager screen (see section 1.2). The Terminal Properties screens and procedures are described in Chapter 6.

## 1.2 Terminal Manager

The Terminal Manager allows you to manage your network connections. All connections are named and are referred to by that name. Multiple connections of various types can be created and active at the same time.

### Terminal Manager Dialog Box (Connections)



After you finish the initial terminal setup, the Terminal Manager dialog box will display. Unless Security is in effect, this will be the first dialog box after you power on the terminal.

If a browser is supported, the name **Web Browser** will be displayed as a Connection Name. Connection names are listed in alphabetic order.

From an active connection display, press **Ctrl+Alt+End** to return to Terminal Manager.

Press F2 to review or change the Terminal Properties. See Chapter 6 for a description of the Terminal Properties screen.

## 1.2.1 Connections

The Connections property sheet (see above) lists all your configured connections, showing their Type and Status.

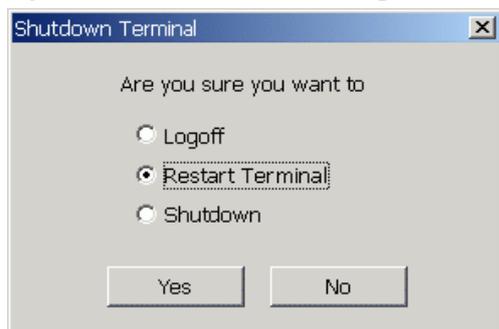
Connection Types: **RDP** (Microsoft Terminal Server), **ICA** (Citrix ICA Client), **EMU** (Terminal Emulation), **Web** (Web Browser), and **DUP** (DialUp Connection, CE 3 only).

Connection Status: **Active** if connection is active (connected). Blank if connection is not active.

You can select from this list and click **Connect** to activate that connection; or just double click the connection name to be activated. For a selected active session, you can click **End** to end the connection.

If no connections are Active you can click **Shutdown** to Logoff or Restart the terminal.

### System Shutdown Dialog Box



#### **Logoff:**

This function is available when **Security** feature is enabled.

#### **Restart Terminal:**

This function is the default value.

#### **Shutdown:**

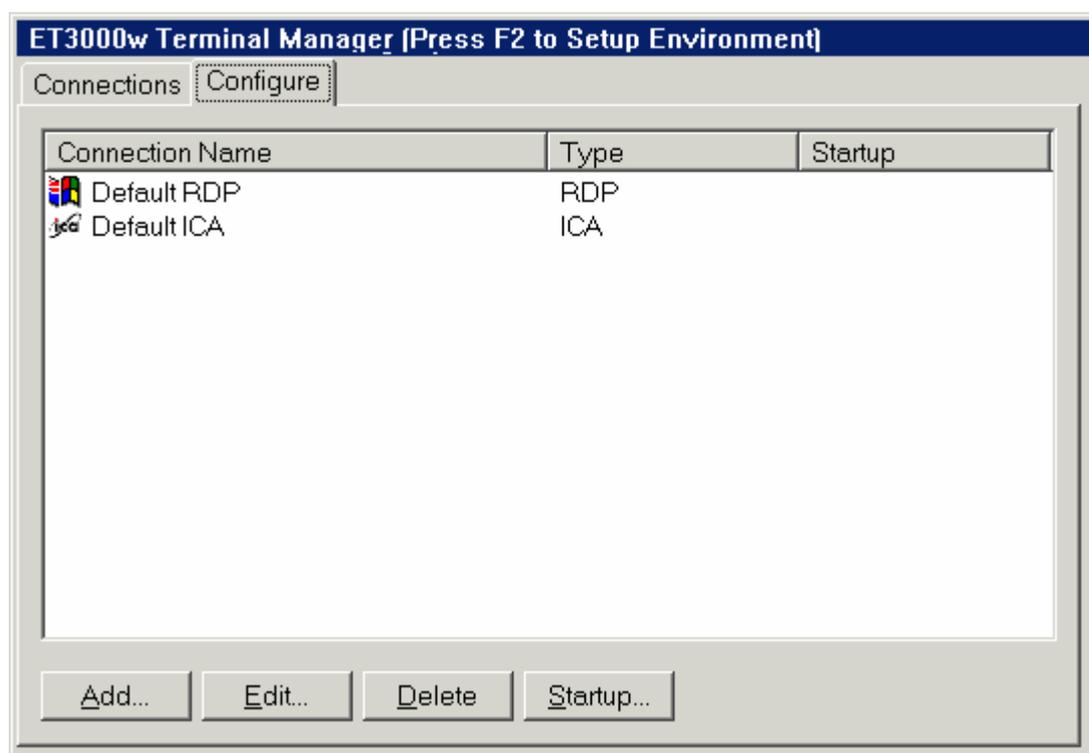
This function is not available on all CE versions.

## 1.2.2 Configure

The Configure property sheet allows you to create new connections or edit/delete existing connections. You may also specify which, if any, connections are to be automatically activated (connected) on startup.

Once the desired connections are configured, security can be set to inhibit display of the Configure Dialog Box.

### Terminal Manager Dialog Box (Configure)

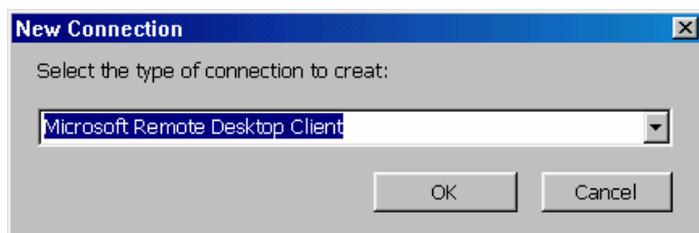


Connection Types: **RDP** (Microsoft Terminal Server), **ICA** (Citrix Server), **EMU** (Terminal Emulation), **Web** (Web Browser), and **DUP** (DialUp Connection, CE3 only).

Startup Codes: **Default** if default session, **Autostart** if Auto-startup, **Autostart(Default)** if both Default & Autostart, and Blank if no special status.

Click **Add** to configure a new connection.

### New Connection dialog Box



Select the type of connection to create:

**Citrix ICA Client** (Chapter 2)

**Dial-up Connection** (Chapter 3, CE3 only)

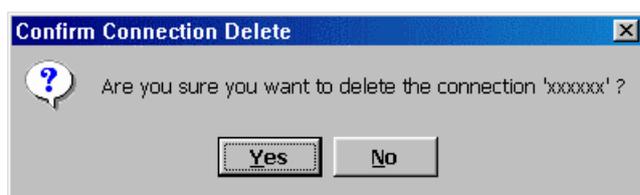
**Microsoft Remote Desktop Client** (Chapter 4)

**Terminal Emulation** (Chapter 5).

Click **Edit** to edit or review the selected item in the connection list.

Click **Delete** to delete the selected item in the connection list.

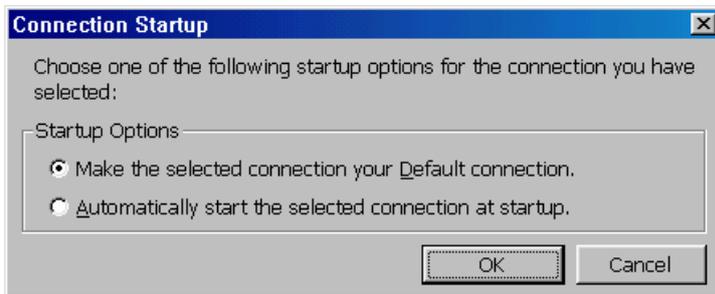
### Connection Delete Dialog Box



This dialog box asks you if you really want to delete the selected connection in the Terminal Manager dialog box.

Click **Startup** to make the selected Connection the Default and/or set it for Autostart.

### Connection Startup Dialog Box



#### **Make the selected connection your default connection:**

A default connection is the one initially displayed or selected. Only one connection can be set as the default; and setting a connection as default is not required. The status in the Startup column will show **Default**.

#### **Automatically start the selected connection at startup:**

The startup screen will automatically display the selected connection. No need to click **Connect** in Terminal Manager. The status in the Startup column will show **Autostart**. Multiple connections can be automatically started.

*To set a connection as both Startup and Default, set it to Default first then set it to Autostart. That connection will be the "home" connection; the one initially displayed after all sessions autostart.*

## 1.3 Connection Navigation/Startup

### 1.3.1 Hot Keys

The following key sequences are used to move between active connections, return to Terminal Manager, Edit/Check the Terminal Properties.

#### **Ctrl+Alt+End                    or   Setup (122key)**

Return to Terminal Manager (or Connect Button or Task Bar) from an active connection.

#### **Ctrl+Alt+UpArrow**

Switch to the previous active connection (if any).

#### **Ctrl+Alt+DownArrow or   Alt+Jump (122key)**

Switch to the next active connection (if any).

#### **Ctrl+Alt+Home**

Go to the Default connection (if any or if not already there).

Note: The right and left Alt keys function differently in emulation sessions. The left Alt key is for Windows function; e.g. Alt(left)+E shows the Edit menu options. On the 122key keyboard (122Key), certain special key sequences are supported.

#### **F2**

Press **F2** from Terminal Manager to invoke the Terminal Properties dialog box.

#### **Reset to Factory Defaults:**

- **Ctrl+Tab+Delete+F12**

Bring up a Reset to Factory Defaults dialog box – Click **Yes** to reset; or **No** to ignore Reset request. This is active only from the Terminal Manager screen or the Connect Button and then only if enabled under Security (Reset HotKey Enable, default).

- If the terminal uses CE.NET, power off/on the terminal and hold the **Backspace** key

down before the progress bar ends.

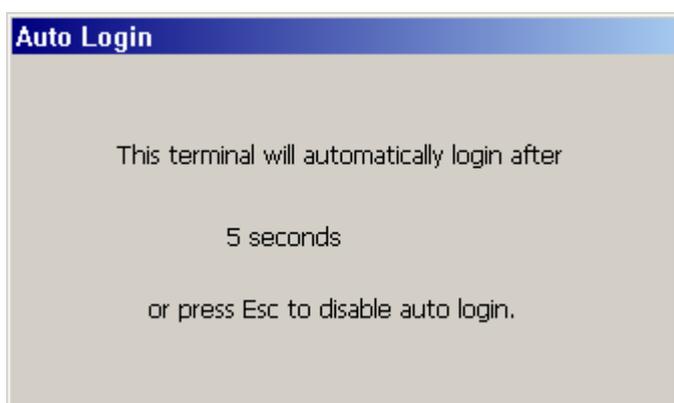
- From the Terminal Properties General tab, check **Reset to factory-defaults** then click OK to exit.
- Using the SNMPadm management tool, discover the IP address of the terminal of the terminal you wish to reset. Right click and select the Menu option to Reset to Default.

### 1.3.2 Terminal Startup Modes

Once a terminal is configured, when powered on operation starts with the Terminal Manager, a Connect Button (secure connection) or a Connection Task Bar. These startup modes are selected under the Terminal Properties Security Tab - see 7.8 in this manual.

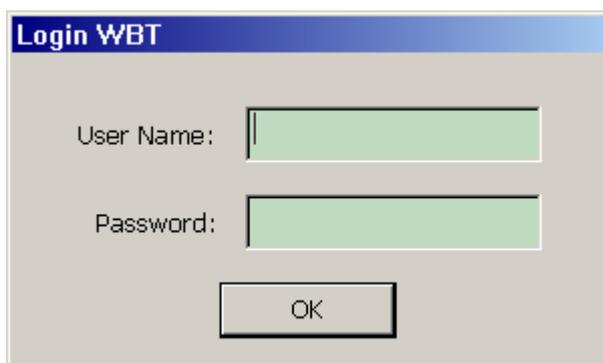
#### Security Login

If Security is enabled and Auto Login was selected, the following screen displays.



While this box is displayed, press **Esc** to allow login as the Administrator or a different user (different connections).

If Auto Login is not enabled with Security or if **Esc** was pressed at the Auto Login box. The following dialog box is used to login.



#### Terminal Manager Startup

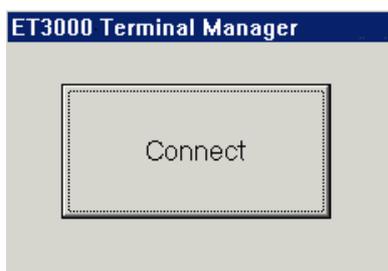
The Terminal Manager screen is displayed.

If connections are set for AutoStart, they will be started. If not, the user must start the connections desired.

From the Terminal Manager screen, press F2 to examine/change the Terminal Properties. If Security is active and not signed on as Administrator, only the tabs General, Input, Display, Devices, SysInfo, and About will be available for use.

## Connect Button

A **Connect** button may be displayed in place of the Terminal Manager screen. To start your configured connections, click **Connect** or press Enter. Pressing **Ctrl+Alt+End** from an active connection will return to the Button display.



Special Connect Button escape sequence: Repeatedly click on the Connect button border to show the Terminal Properties screen. If Security is active and not signed on as Administrator, only the tabs General, Input, Display, Devices, SysInfo, and About will be available for use.

## Connection Task Bar

The Connection Task Bar is a Windows like task bar showing all connection names and optionally the terminal name. A Start button appears on the left of the task bar from which the user may access Terminal Properties, Terminal Manager, and Task Bar settings (options), and Shutdown.

Check the Connection Task Bar checkbox in the Security Properties Tab below the Connect Button checkbox. The Connect Button and the Connection Task Bar check boxes are mutually exclusive (one or the other, not both).

The Connection Task Bar appears when the mouse cursor is moved past the bottom of the screen. When the Connection Task Bar is active it appears as shown below.



| START | connection name 1 | connection name 2 | ... | connection name n | ... | terminal name |

The connection name background indicate the connection status:

Light gray - Not Active

Dark gray - Active; but not displayed

Dark blue - Active, and currently displayed

White - Invalid connection, Edit the configuration

Click the connection name to connect/display (if not active) or to display that connection (if already active).

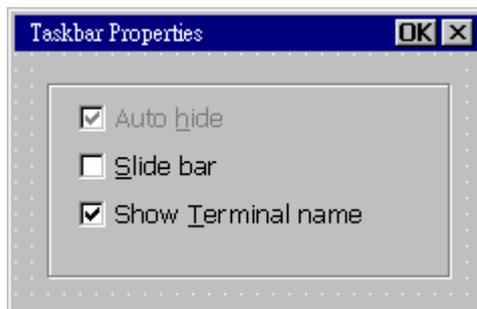
### **Start options:**

### **Setting**

Terminal Properties

Display Terminal Properties screen. Exit this screen when done.

Taskbar & Start Menu



**Auto Hide:** Task bar is only shown when mouse cursor moved over bottom of the display (default). If not checked, the Taskbar is static at the bottom of the screen. To change this setting, first close all Connections.

**Slide Bar:** Task Bar scrolls up when in autohide versus instantly appearing.

**Show Terminal Name:** Display Terminal Name on the right of the Task Bar.

### **Terminal Manager**

Click to bring up the Terminal Manager screen. Exit this screen when done.

### **Shutdown**

Log Off

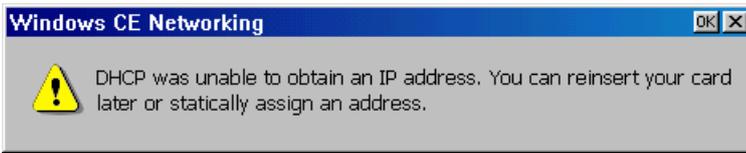
Restart Terminal

Shutdown

***Note: If Security is Active and the user is not signed on as Administrator, only Shutdown and Terminal Properties are displayed when Start is clicked.***

### 1.3.3 Startup Errors

#### DHCP Error Message Box



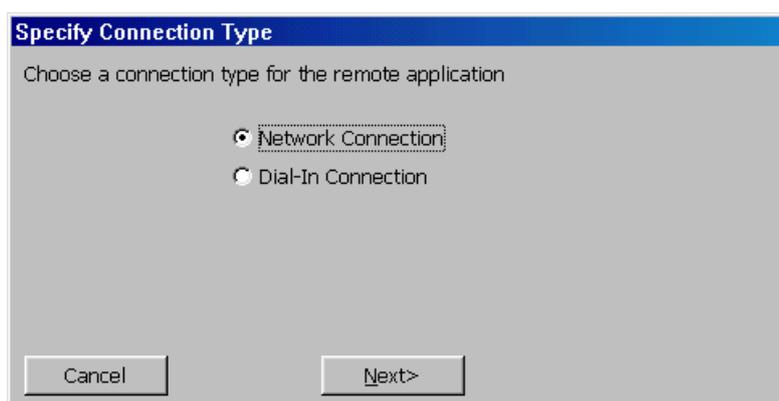
When this dialog box displays, check if the DHCP server is working properly on the network. If DHCP previously served network parameters to the terminal, they were saved and will be reused in case of a DHCP failure.

Assign a static IP address, if no DHCP server is available.

## Chapter 2 - ICA Client Settings

ICA is a network protocol used by “terminal servers” running Citrix WinFrame or MetaFrame. This chapter describes how to setup a Network or Dial-In connection to such servers. Select **Citrix ICA Client connection** from the New Connection Dialog Box and select the type of connection.

### Specify Connection Type Dialog Box (CE3 only)



This dialog box provides two choices to connect to a Citrix server. One is Network Connection to create a network ICA connection. This type of connection requires a direct line to the network. The other one is Dial-In Connection to create a serial ICA connection. This type of connection is made using a modem. Select one and click **Next** to continue.

## 2.1 Network Connection

The following message will display while a search is made for Citrix servers on the network.



Searching for Citrix servers...

All Citrix servers found on your network will be listed in the next Dialog Box. If no Citrix server is found, a message will be displayed.

### Select a Citrix Server or Published Application Dialog Box



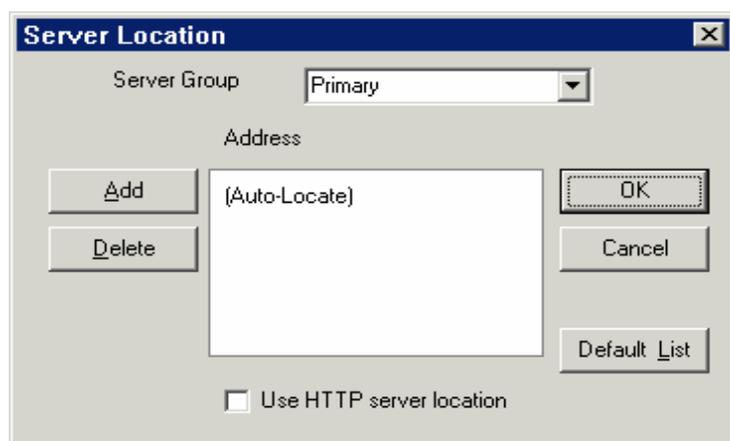
Click **Citrix Server** to connect the Windows desktop of a specific Citrix server; you can run any applications available on the desktop. Click **Published Applications** to list specific applications setup by an administrator for remote users to run. When connected, you are presented with the application itself.

Select a server or an application from the scroll list, or type an entry in the text entry field.

The **Refresh** command button refreshes the scroll list.

To connect to a server not on your local network, click **Server Location** to change your server location settings.

## Server Location Dialog Box



### Server Group:

Select the group that you want to configure.

### Add:

Click to add a server to the selected group.

### Add Server Address Dialog Box



Enter the DNS name of a new Citrix server or its IP address. Click **OK** to return to the Select dialog above.

### Delete:

Click to delete the selected name in the displayed list.

### Rename Group:

Rename the Server Group.

### Default List:

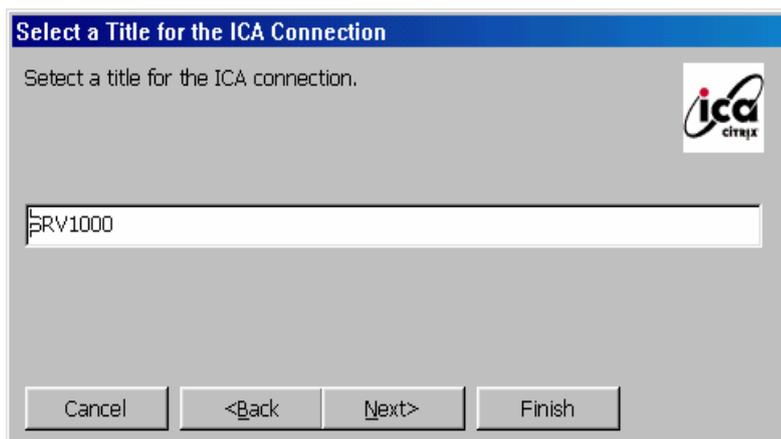
Click to recall the previous server list.

### Use HTTP server location:

Check this box if a firewall restricts UDP broadcasts. This option allows the client to retrieve a list of Citrix servers on the network and a list of published applications from a Citrix server that is behind the firewall.

Click **OK** to return to the Select dialog above. Then click **Next** to continue.

### Select a Title for the ICA Connection



Select a Title for the ICA Connection

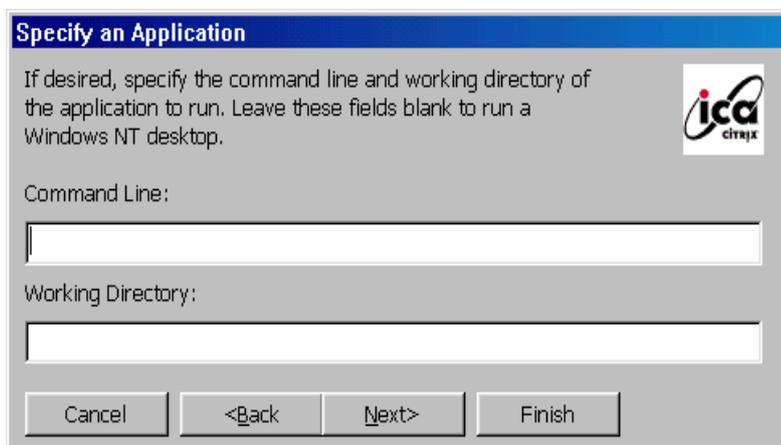
Select a title for the ICA connection.

SRV1000

Cancel <Back Next> Finish

Accept the name shown or enter a name for user to identify the ICA connection and click **Next**. The new connection name will be added to the Terminal Manager dialog box.

### Specify an Application Dialog Box



Specify an Application

If desired, specify the command line and working directory of the application to run. Leave these fields blank to run a Windows NT desktop.

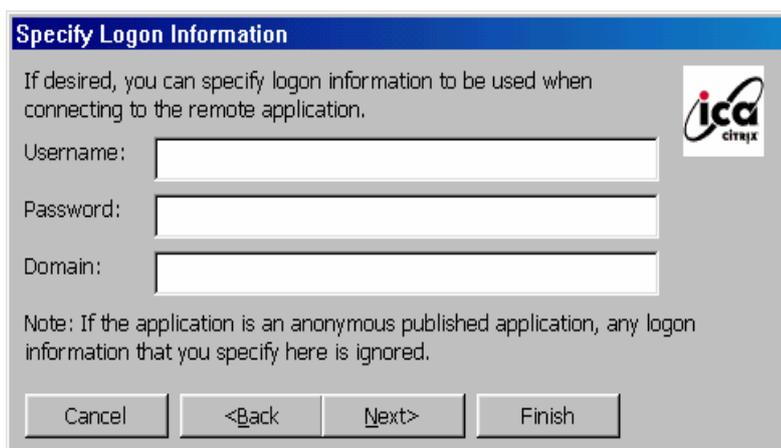
Command Line:

Working Directory:

Cancel <Back Next> Finish

Enter the command line and directory of the application you intend to use. Click **Next**.

## Specify Logon Information Dialog Box



**Specify Logon Information**

If desired, you can specify logon information to be used when connecting to the remote application.

Username:

Password:

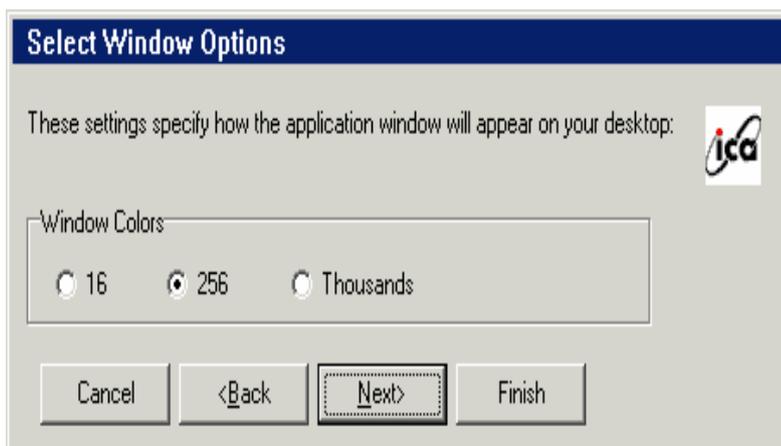
Domain:

Note: If the application is an anonymous published application, any logon information that you specify here is ignored.

Cancel <Back Next> Finish

If necessary, enter a user name, a password, and a domain name for connecting to an application. Click **Next**.

## Select Window Options Dialog Box



**Select Window Options**

These settings specify how the application window will appear on your desktop:

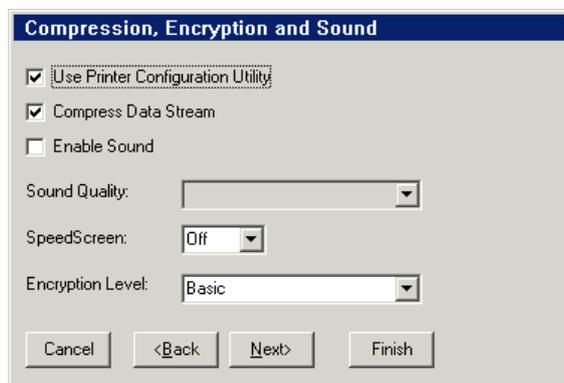
Window Colors:

16  256  Thousands

Cancel <Back Next> Finish

Click on the desired number of colors to display, either **16**, **256**, or **Thousands**. Click **Next**.

## Printing, Compression, and Sound Dialog Box (CE3 / CE4)



**Compression, Encryption and Sound**

Use Printer Configuration Utility

Compress Data Stream

Enable Sound

Sound Quality:

SpeedScreen:

Encryption Level:

Cancel <Back Next> Finish



**Compression, Encryption and Sound**

Compress Data Stream  Use Disk Cache

Enable Sound Sound Quality:

Enable Session Reliability Microphone Input:

Port:

SpeedScreen:

Encryption Level:

Cancel <Back Next > Done

Enable or disable the following functions:

### **Use Printer Configuration Utility**

Check to allow use of the printer configuration utility available on the Citrix server. Unchecking this option allows you to map printers manually.

### **Compress Data Stream**

Check to reduce the amount of data transferred between the ET5000 and the Citrix server at the cost of additional processing on the server.

### **Enable Sound**

Check to enable sound support. From the *Sound Quality* list select *High*, *Medium* or *Low*. *Low* uses the least bandwidth at the expense of sound quality. *High* provides the best sound quality; but uses the most bandwidth.

### **SpeedScreen**

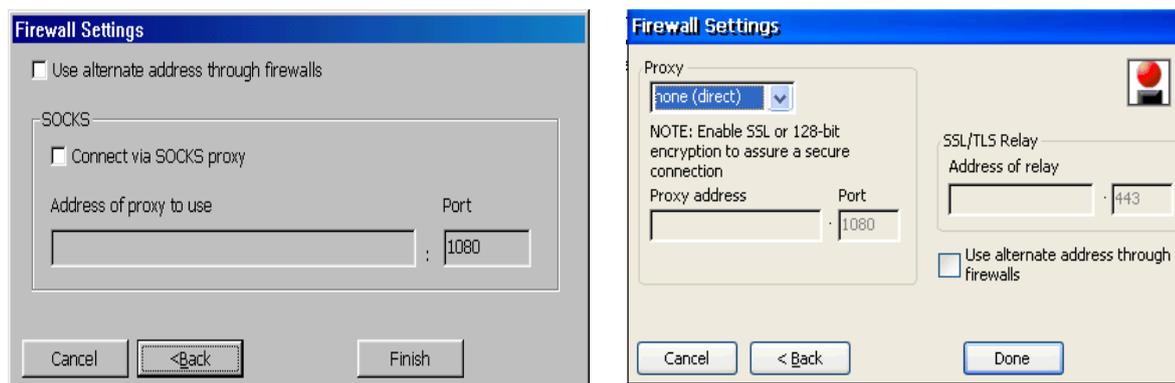
Select *On*, *Off*, or *Auto*. SpeedScreen attempts to improve user screen views on slow network connections.

### **Encryption**

Select the encryption level for the ICA connection. The default is *Basic*. Select *RC5 128-bit Login Only* to use encryption only during login. The Citrix server must be configured to allow the selected level.

Click **Next** to continue

## Firewall Settings Dialog Box (CE3 / CE4)



### Use alternate address through firewalls

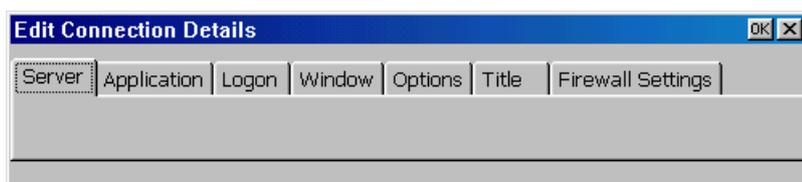
Check this box if the client is outside a firewall that uses address translation. In this case, the client must use the alternate address returned by the master ICA Browser.

### Connect via SOCKS proxy

If the network is using a SOCKS proxy server, check this box to enable **Address of proxy to use** and **Port** fields. Enter the SOCKS server's IP address or DNS name. The default SOCKS port number is 1080; but may be changed.

When an existing Connection is edited, the following Dialog is displayed.

### Edit Connection Details Dialog Box



Click the tab for the property that you intend to modify.

## 2.2 Dial-In Connection

### Dial-In Device Dialog Box

From the Dial-In Device scroll list, select one of the following:

- ◆ A Modem connection such as Hayes Compatible on Com2.
- ◆ A Serial connection such as Serial Cable on Com2.

Enter the area code, the phone number, and the country code in the appropriate fields.

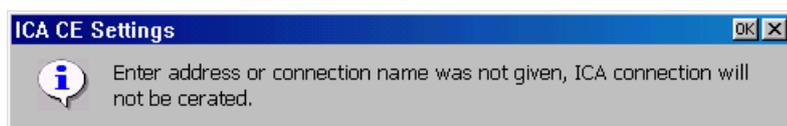
Click on **Configure** to use the Device Properties dialog box. The **Device Properties** dialog box contains two options:

- ◆ Port Settings
- ◆ Call Options

These options are discussed in Port Settings (2.2.1) and Call Options (2.2.2) sections of this manual.

Click **Next** to continue (see ICA Connection and following dialogs described in section 2.1) or **Finish** to end.

If you clicked **Finish**, and the following message displays, some setup information needs to be entered for ICA Dial-in connection. Click **OK** to continue the setup of ICA dial-in connection.

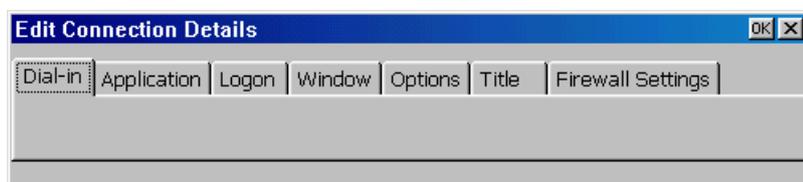


When you finish with the ICA configuration, the Terminal Manager displays the new ICA

connection name.

To make a change in the ICA connection, click the Configure tab and select the ICA connection of the Terminal Manager dialog box. Then click **Edit** to change the configuration of an ICA connection.

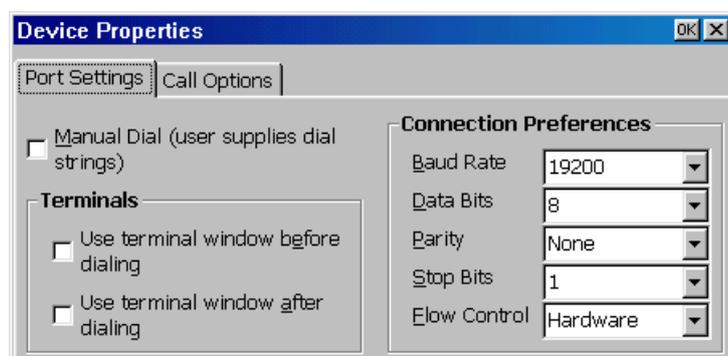
### **Edit Connection Details Dialog Box**



This dialog box displays when the Dial-In Connection type is specified. Choose the property that you intend to modify.

## 2.2.1 Port Settings

### Device Properties Dialog Box (Port Settings)



The following is the description of the functions for Port Settings properties.

#### Manual Dial

Click on this check box to set up manual dialing

#### Terminals

Use this group box to record terminal window Information:

- Use Terminal Window before dialing
- Use terminal Window after dialing

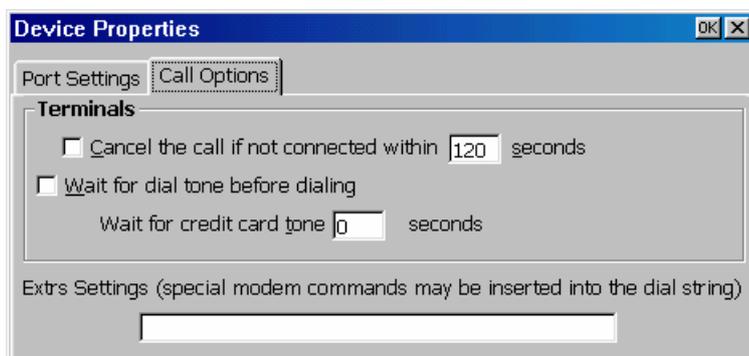
#### Connection Preferences

Use this group to set modem connection parameters.

Click **Ok** settings are complete.

## 2.2.2 Call Option

### Device Property Dialog Box (Call Options)



The following table discusses the functions of the Call Option property sheet.

#### Terminals

Use this group box to configure the following call parameters:

#### Cancel the call if Not connected within

- Enter in this field the number of seconds to wait before a call is canceled.
- The default is **120** with the function enabled.

#### Wait for Dial Tone Before Dialing

The default for this function is enabled.

#### Wait for Credit Card Tone

Enter the period (in seconds) of time to wait.

The default is 0.

#### Extra Settings

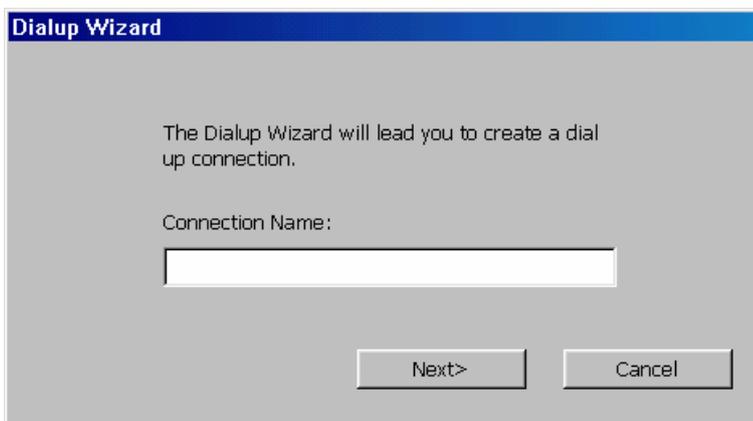
Use this field for any special modem commands that may be required by the modem manufacturer.

## Chapter 3 - Dial-Up Client Settings (CE3)

The ET3000 models using CE3 (ET3000W/B/E) select a Dial-up connection from the New Connection dialog box. The following Dialup Wizard is used to configure a **Dial-Up Connection**. Dial-up connections use a modem and PPP to connect to a server. When you are finished with the configuration, the new dial-up connection will be added to the Connection Name list in Terminal Manager.

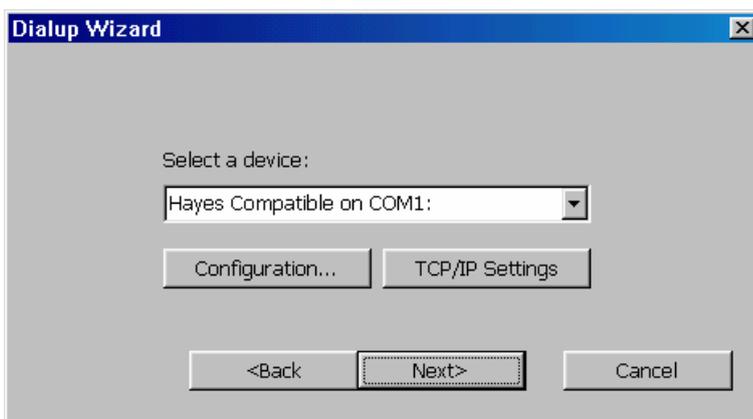
For ET models using CE.NET (CE4) refer to Chapter 7: Terminal Properties - Devices - Network - DialUp Connection.

### Dialup Wizard Dialog Box



Enter a name for the dial-up connection. Click **Next**.

### Dialup Wizard Dialog Box



Select a serial port from the scroll list. The default is Hayes Compatible on COM1.

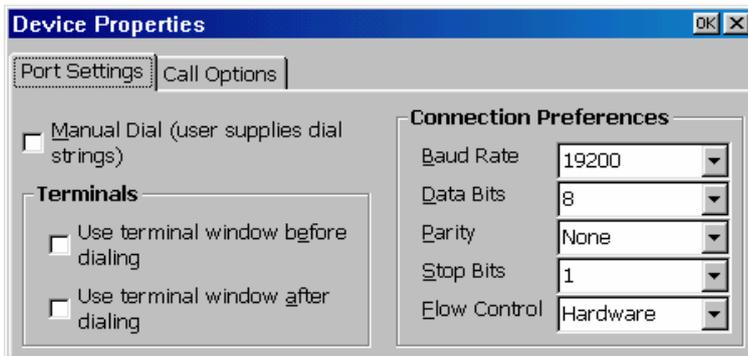
### Configuration:

Click this button to use the Port Settings and Call Options dialog boxes.

### TCP/IP Settings:

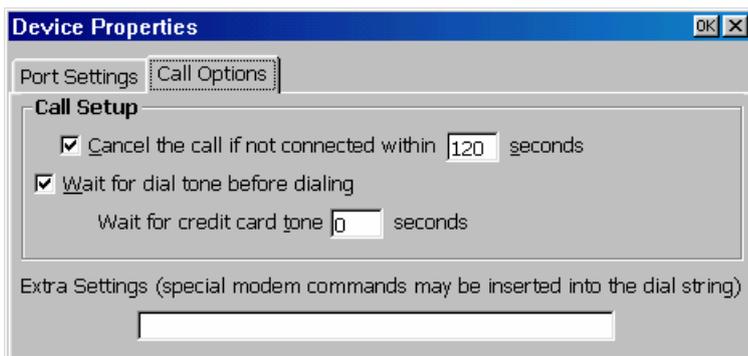
Click this button to use IP Address and Name Servers Properties.

### Port Settings Properties Sheet



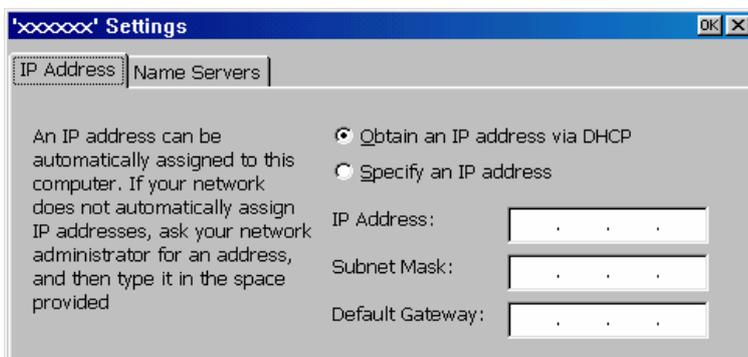
For detailed information, see the Port Settings properties instructions in Chapter 3.

### Call Options Properties Sheet



See Chapter 3.2 for detailed information to use the Call Options properties sheet.

### IP Address Properties Dialog Box



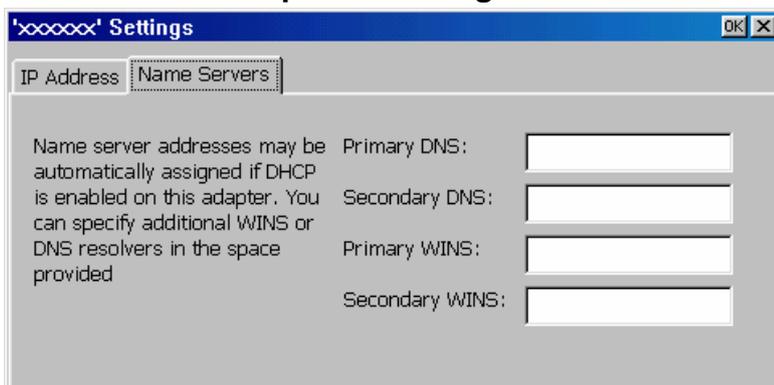
### Obtain an IP address from a DHCP server:

Click this button to enable DHCP addressing. The DHCP server will automatically assign an IP address to your terminal.

### Specify an IP address:

Enter an IP address, Subnet Mask, and the Default Gateway (if applicable)

### Name Servers Properties Dialog Box



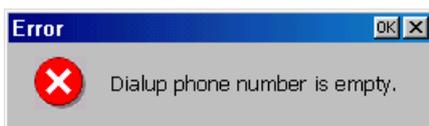
This property sheet allows you to enter IP addresses for additional **WINS** or **DNS** servers.

### Dialup Wizard Dialog Box



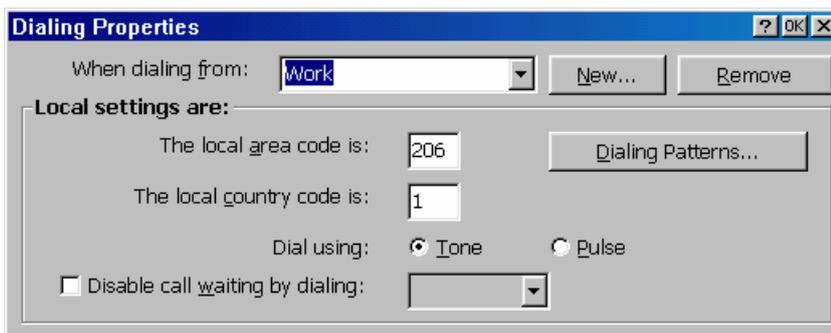
Enter information in the related fields. **Country Code** and **Area Code** will be activated if “**Use country code and area code**” is enabled. Click **Location** to use Dialing Properties dialog box.

### Error Message Box



When the Dialup phone number field is empty, this error message box displays.

## Dialing Properties dialog box



Enter a name for the location of dialing identification.

**“Local settings are:”** Set dialing local and dialing type in this group box.

### Local Area Code:

Enter the local area code that you want to use.

### Local Country Code:

Enter the local country code of the country that you are dialing.

### Disable Call waiting by dialing:

Click this check box to select one of the following:

\*70,

70#,

1170

### Dial using:

- **Tone:**

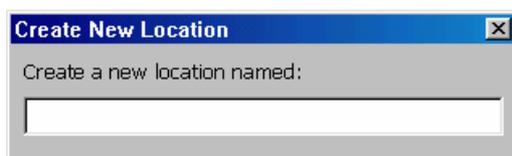
Click this button to enable tone dialing. This is the default setting.

- **Pulse:**

Click this button to enable pulse dialing.

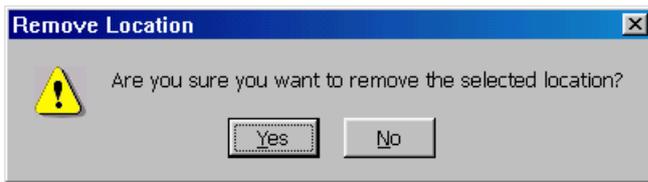
Click **New** to create a new location name.

### Create New Location dialog box

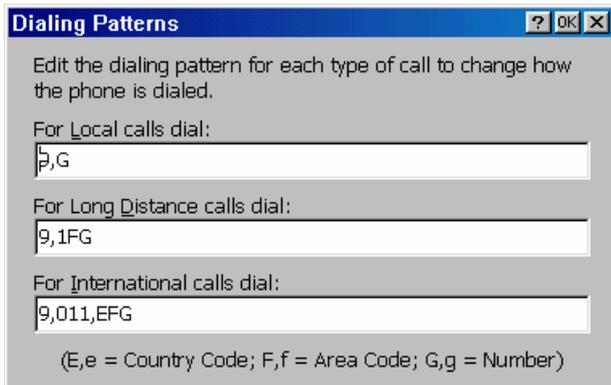


Click **Remove** to remove the selected location.

### Remove Location dialog box



### Dialing Patterns Dialog Box



Use this group box to set your modem's dialing patterns.

#### Local Calls Dialing

Enter the local call dialing pattern. The default is 9,G.

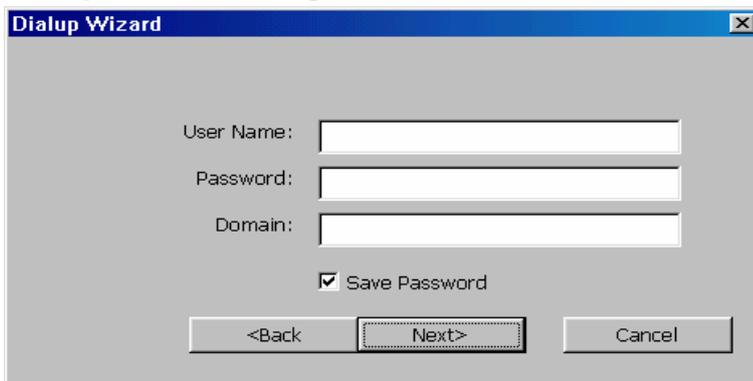
#### Local Long Distance Calls Dialing

Enter the long distance call dialing pattern. The default is 9, 1FG.

#### International Calls Dialing

Enter the international call dialing pattern. The default is 9,011,EFG.

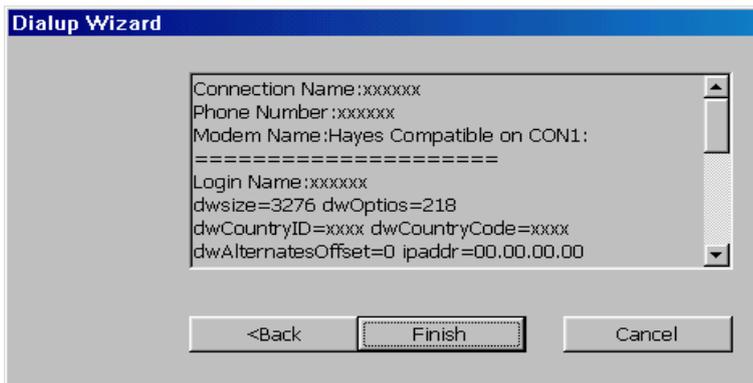
### Dialup Wizard Dialog Box



Enter the related information in **User Name**, **Password**, **Domain** fields.

Click **Save Password** check box to bypass password entering.

### Dialup Wizard Dialog Box

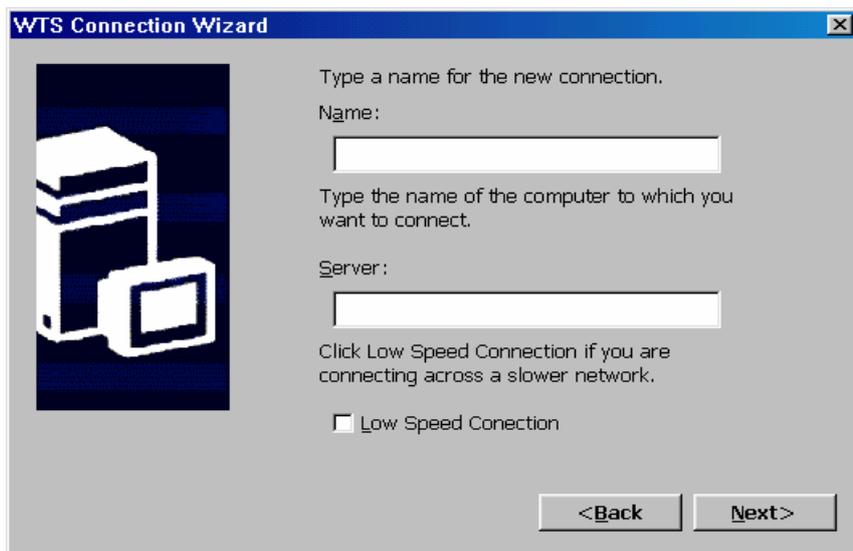


This contains setup information about dialup connection. Click **Finish** to complete the Dial-up configuration.

## Chapter 4 - RDP Client Settings

If your server is Microsoft WTS (Windows Terminal Server), select **Microsoft Remote Desktop Client** (RDP) connection in the New Connection dialog box. The following four wizard dialog boxes will display in succession to configure the RDP connection. When you are finished with the wizard, the new connection will be added to the Connection Name list in the Terminal Manager dialog box.

### WTS Connection Wizard Page 1



The screenshot shows the 'WTS Connection Wizard' dialog box. On the left is an icon of a server tower and a monitor. The main area contains the following text and fields:

Type a name for the new connection.  
Name:

Type the name of the computer to which you want to connect.  
Server:

Click Low Speed Connection if you are connecting across a slower network.  
 Low Speed Connection

At the bottom are two buttons: '<Back' and 'Next>'.

Type a name in Name field so a user can identify this RDP connection. Enter the name/IP address of the server in Server field. Check **Low Speed Connection** if using a Dialup network connection. Click **Next** to continue.

### WTS Connection Wizard Page 2



The screenshot shows the 'WTS Connection Wizard' dialog box on the second page. On the left is the same server and monitor icon. The main area contains the following text and fields:

If you want to automatically log onto the server, click Automatic Logon and enter your user name, password and domain. Otherwise, you will be prompted for this information each time you choose the connection.

Automatic Logon

Username:

Password:

Domain:

At the bottom are two buttons: '<Back' and 'Next>'.

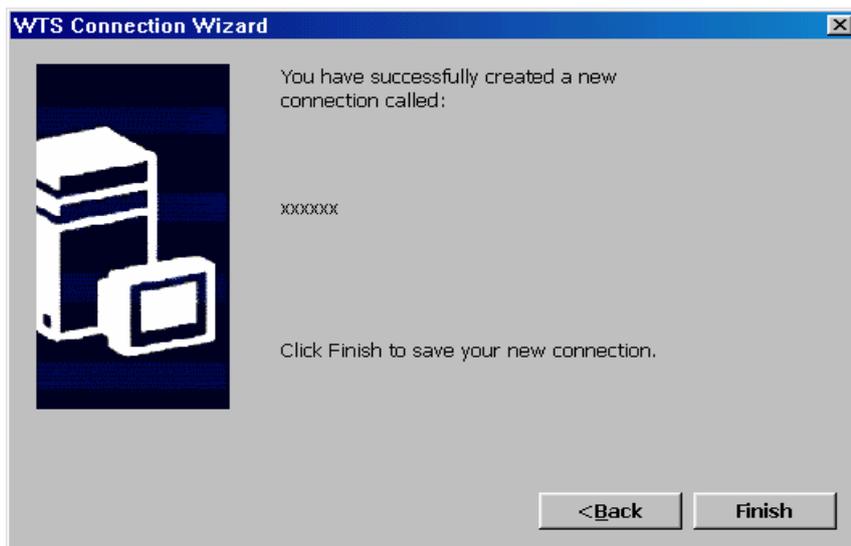
This dialog box allows you to logon to the server automatically. Check **Automatic Logon** then enter the information in all required fields. Click **Next** to continue. If this process is skipped, you will be required to enter the logon information each time that you activate the RDP connection.

### WTS Connection Wizard Page 3



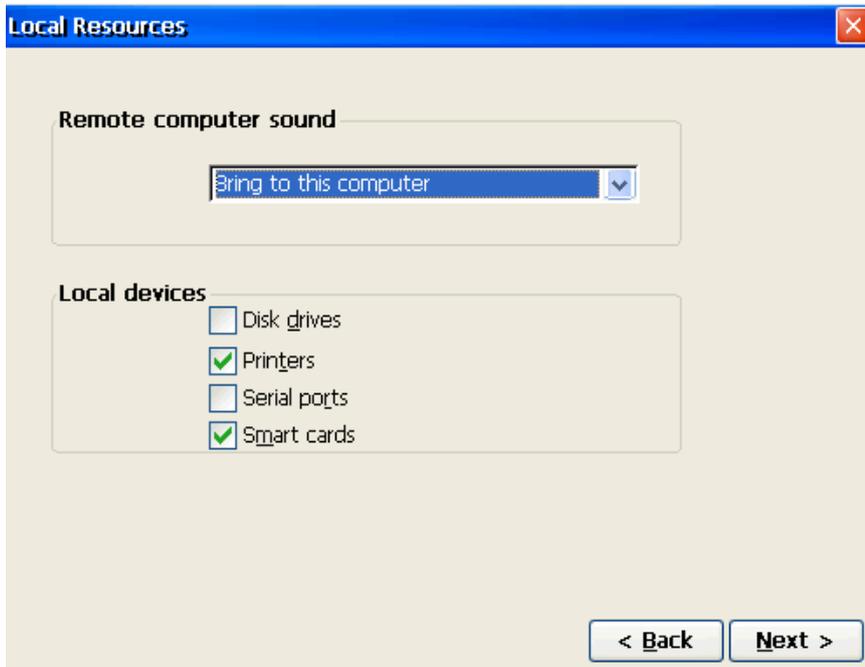
This dialog box allows you to access a desired application directly after connecting to the RDP server. The **Desktop** is the default. Click **Application File Name** to enter the name of the desired application and its working directory. Click **Next** to continue.

### WTS Connection Wizard Page 4



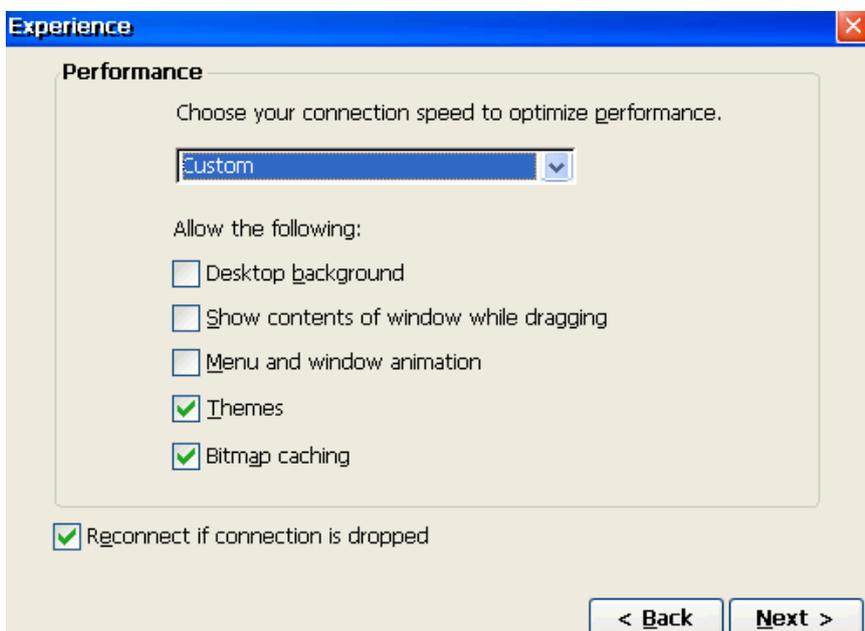
“xxxxxxx” is the given RDP connection name you specified. Click **Finish** to save the new connection. The Terminal Manager will list the new RDP connection.

Starting with CE4 (.NET) additional screens are inserted between Pages 3 and Page 4. These screens (shown below) concern the availability of local Client resources (e.g. printers) to the Terminal Server, various performance options and color settings.

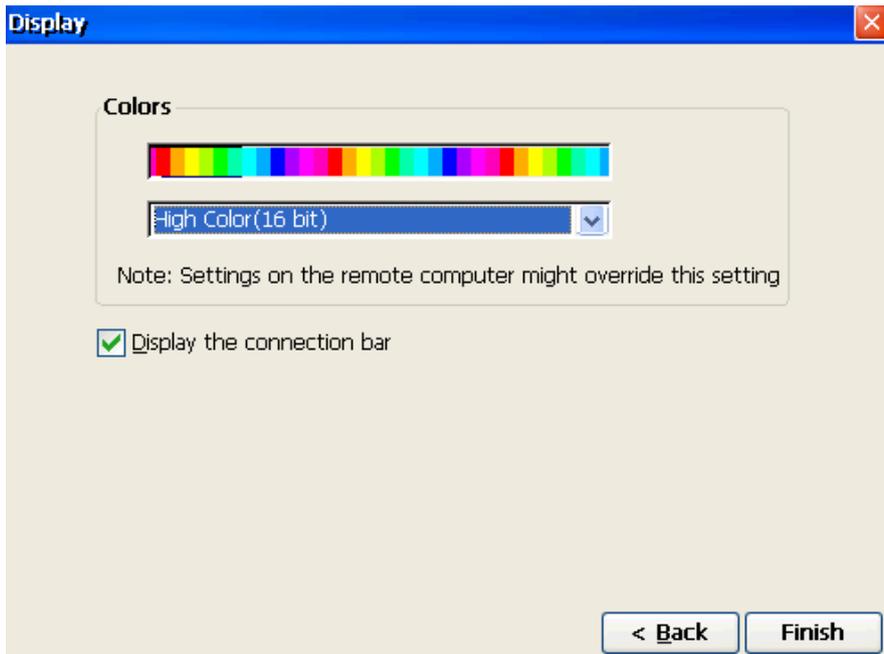


**Remote computer sound** can be brought to the Client or not.

**Local devices** on the Client are listed. Those checked are made visible to the Terminal Server.



Performance affecting options can be selected.



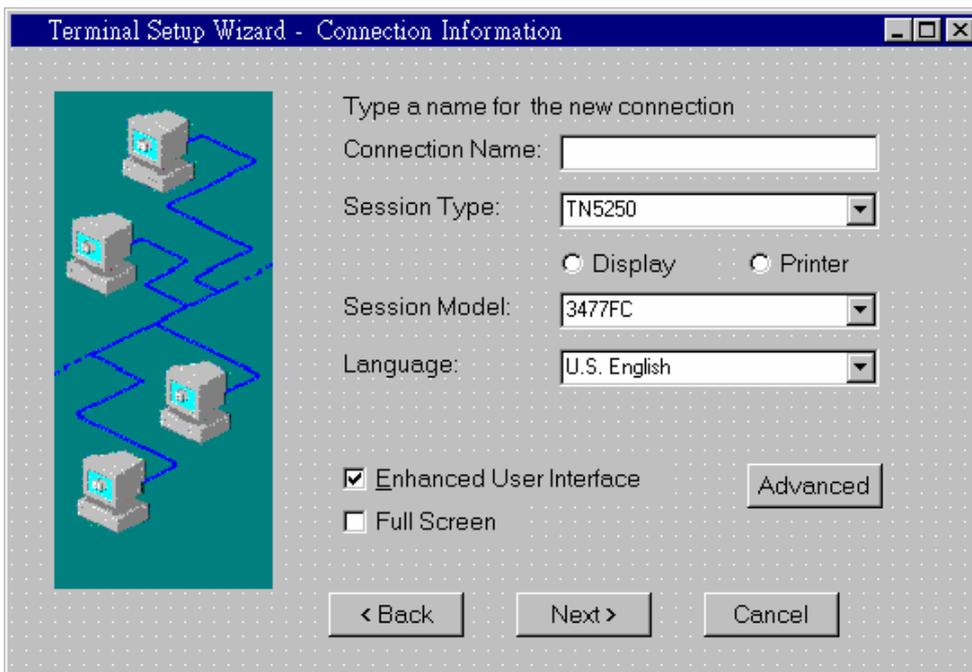
Set color mode and/or display RDP connection bar on top of session screen.

## Chapter 5 - Terminal Emulation Client Settings

If you select Terminal Emulation in the New Connection dialog box, the Terminal Setup Wizard will help you to complete the terminal emulation setup. Following are the dialog boxes of the wizard.

Note: The ET1500 supports ASCII VT100 emulation only.

### Connection Information



Terminal Setup Wizard - Connection Information

Type a name for the new connection

Connection Name:

Session Type:

Display  Printer

Session Model:

Language:

Enhanced User Interface  Full Screen

Advanced

< Back Next > Cancel

#### Connection Name:

Enter a Connection Name to identify the session. This name must be unique. It displays as the Connection Name in the Terminal Manager Dialog Box.

#### Session Type:

Select one of the Session Types (TN5250, TN3270 or ASCII).

#### Display or Printer:

Click to select either a Display or Printer session. An ASCII session type does not support a Printer session.

**Session Model:**

This item varies with Session Type and Display/Printer selected.

See the following Table.

<i>Session Type</i>	<i>Display Models</i>	<i>Printer Models</i>
TN5250	3477-FC 3477-FG 3180-2 3197-2 3196-A2 5292-2 5291-1 5251-11	3812-1
TN3270	3278-2-E 3278-3-E 3278-4-E 3278-5-E	3287-1
ASCII	VT100 VT220 VT320 VT420 7-Bit VT420 8-Bit ANSI-BBS SCO-ANSI IBM3135-31 WYSE-50/60	<NONE>

**Language:**

Select the desired language.

**Full Screen (Display only):**

Check this box to cause the emulation screen to be displayed in **Full Screen** mode. In this mode, the screen appears as a 'green screen' dumb terminal with input only from the keyboard (no mouse cursor). A windows Title Bar and Status Line are not shown.

**Enhanced User Interface (TN5250 Display only):**

The default state is checked which indicates normal support for such user interface features as scroll bars, select fields, field progression, enter field attributes word wrap, etc. On older emulations such as 3196, the enhanced interface is not supported and the application functions differently, which may be what the user desires. In this case uncheck this option.

*The following two check boxes are also displayed for a TN3270 display session.*

**Associated printer:**

Check this box if a TN3270 associated printer is to be defined.

**Number Lock in Numeric Fields:**

Check this box if TN3270 numeric fields can accept alpha data.

**Advanced:**

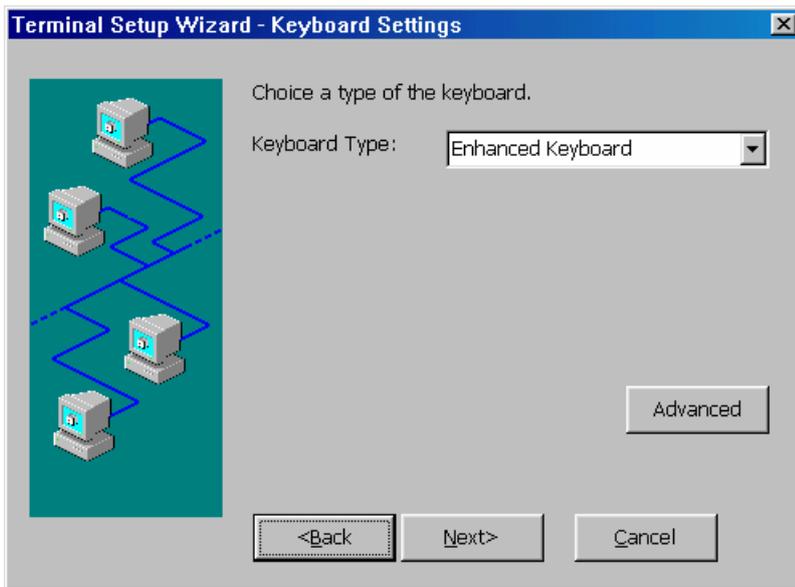
Click to show the Display or Printer EBCDIC to ASCII Translation Table. The edit procedure is to overwrite new code over old code in the Table.

**EBCDIC to ASCII Translation Table for Display**

		1st Hex Char													
		4x	5x	6x	7x	8x	9x	Ax	Bx	Cx	Dx	Ex	Fx		
2 n d  H e x  C h a r	x0	20	26	2D	F8	D8	B0	B5	A2	7B	7D	5C	30	Symbol	
	x1	20	E9	2F	C9	61	6A	7E	A3	41	4A	20	31	OK	
	x2	E2	EA	C2	CA	62	6B	73	A5	42	4B	53	32	Cancel	
	x3	E4	EB	C4	CB	63	6C	74	B7	43	4C	54	33		
	x4	E0	E8	C0	C8	64	6D	75	83	44	4D	55	34		
	x5	E1	ED	C1	CD	65	6E	76	A7	45	4E	56	35		
	x6	E3	EE	C3	CE	66	6F	77	B6	46	4F	57	36		
	x7	E5	EF	C5	CF	67	70	78	BC	47	50	58	37		
	x8	E7	EC	C7	CC	68	71	79	BD	48	51	59	38		
	x9	F1	DF	D1	60	69	72	7A	BE	49	52	5A	39		
	xA	5B	5D	A6	3A	AB	AA	A1	AC	AD	B9	B2	B3		
	xB	2E	24	2C	23	BB	BA	BF	7C	F4	FB	D4	DB		
	xC	3C	2A	25	40	F0	E6	D0	AF	F6	FC	D6	DC		
	xD	28	29	5F	27	FD	B8	DD	A8	F2	F9	D2	D9		
	xE	2B	3B	3E	3D	FE	C6	DE	B4	F3	FA	D3	DA		
	xF	21	5E	3F	22	B1	A4	AE	3D	F5	FF	D5	20		

This table controls the EBCDIC to ASCII conversion shown on the display session. You normally do not need to modify this table. To modify the table, click on the ASCII value you want to change. You simply overwrite the default value by typing the new value. To exit this screen, click on **OK**.

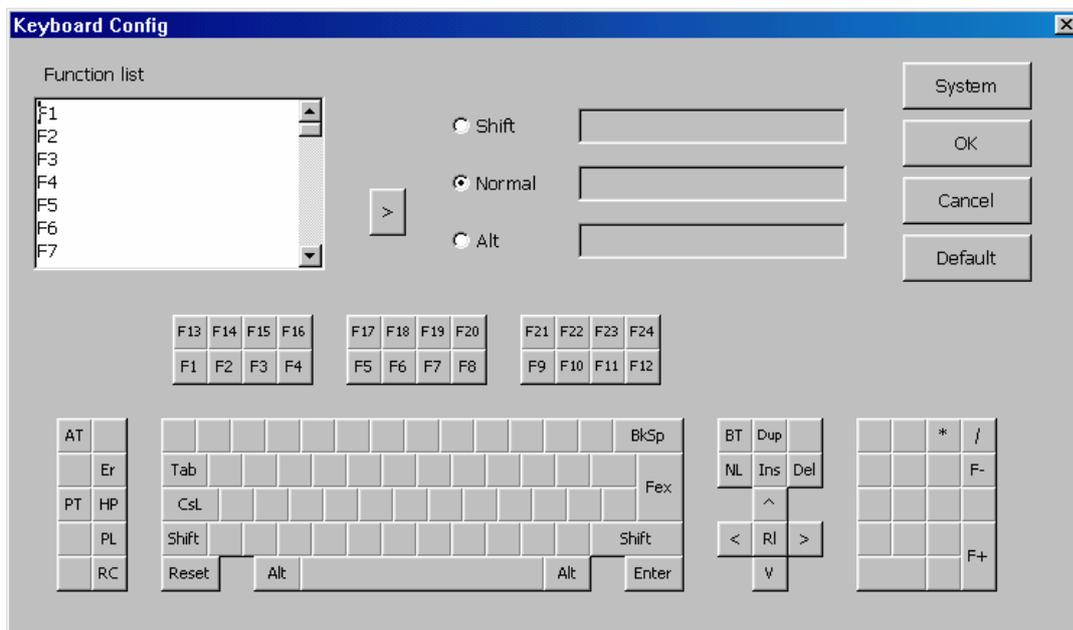
## Keyboard Type Dialog Box



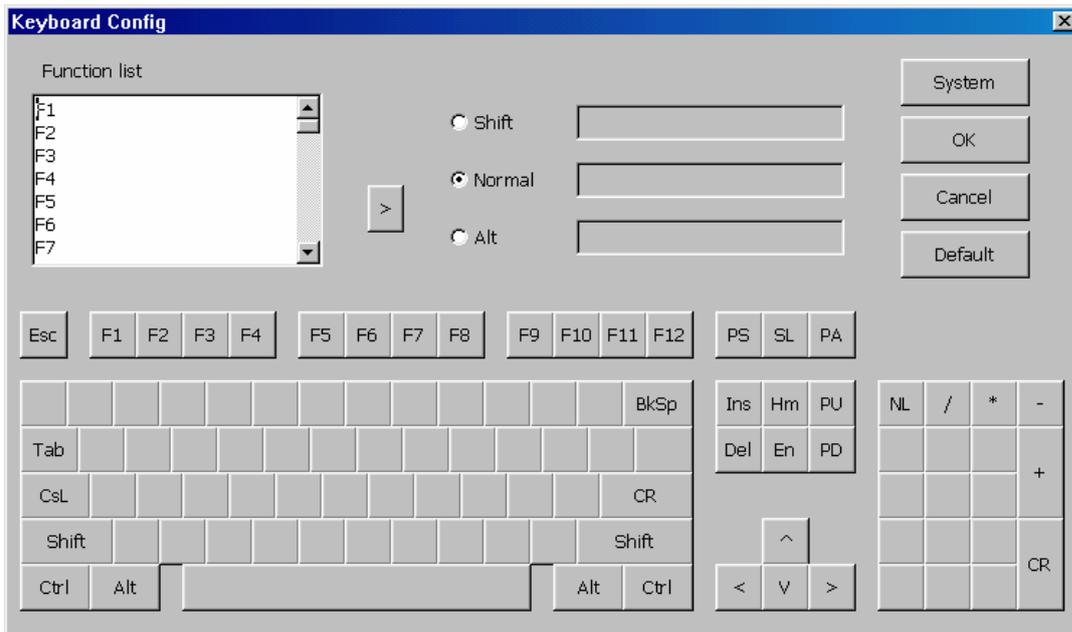
Select the Keyboard Type: Enhanced (PC style keyboard) or 122Key.

Click **Advanced** to map the keyboards as shown below. On these maps, click the key to be mapped and select/enter the desired definition. Note that these maps can also be invoked from an Emulation display screen (see Chapter 8).

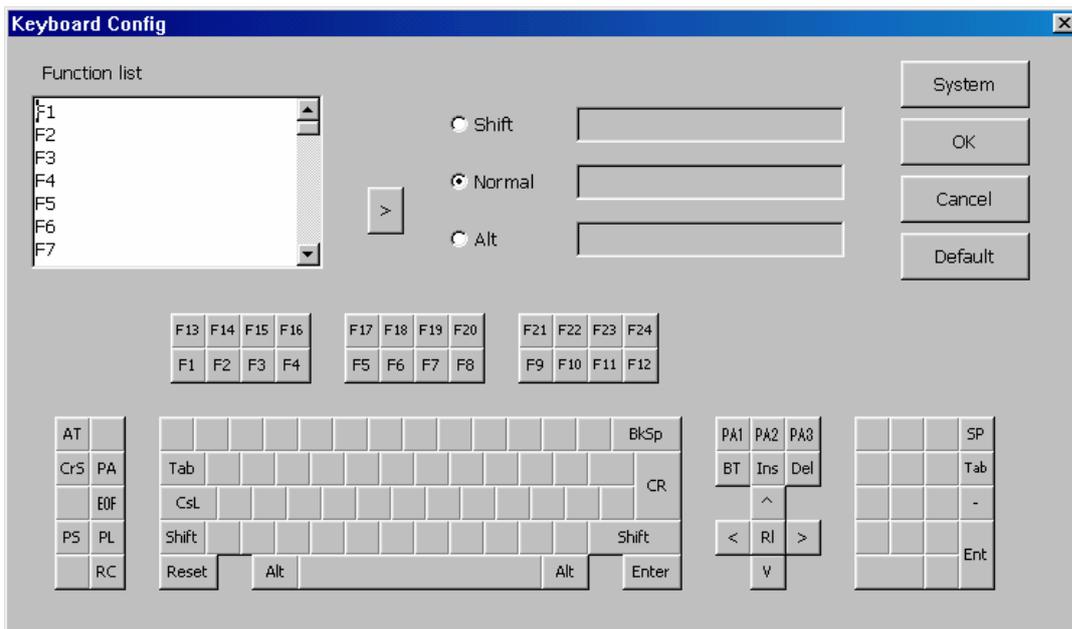
### 122-Keys Keyboard Mapping for TN5250



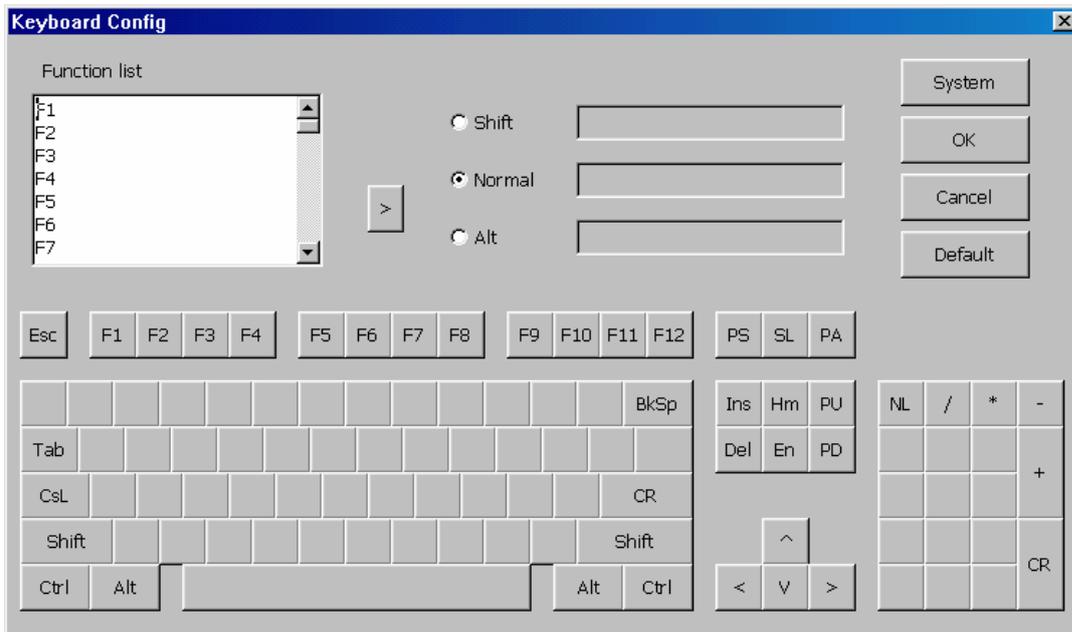
### Enhanced Keyboard Mapping for TN5250



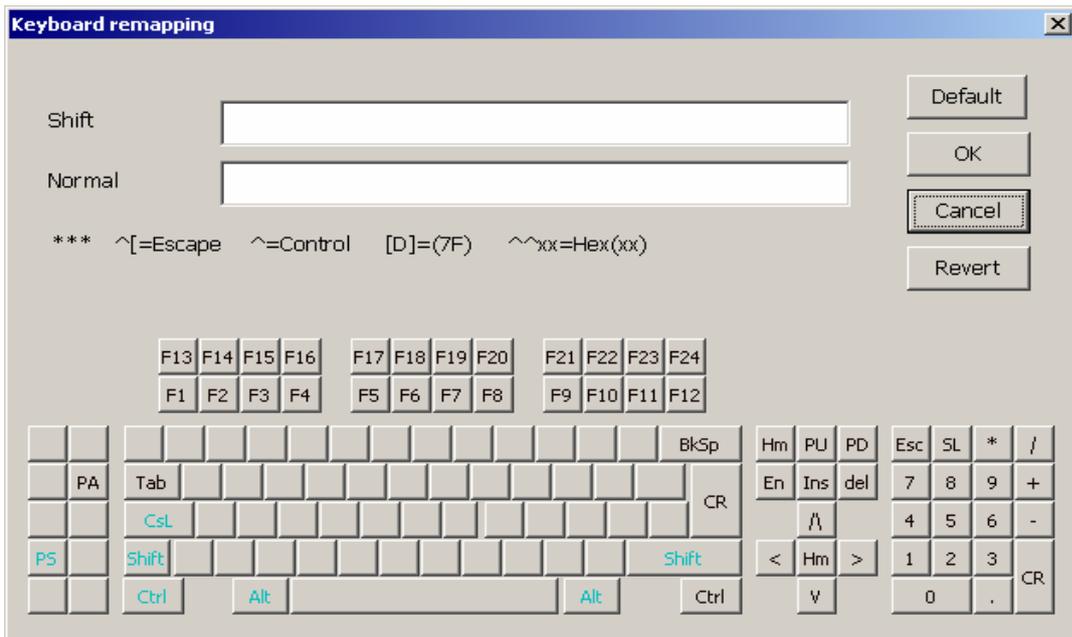
### 122-Keys Keyboard Mapping for TN3270



### Enhanced Keyboard Mapping for TN3270

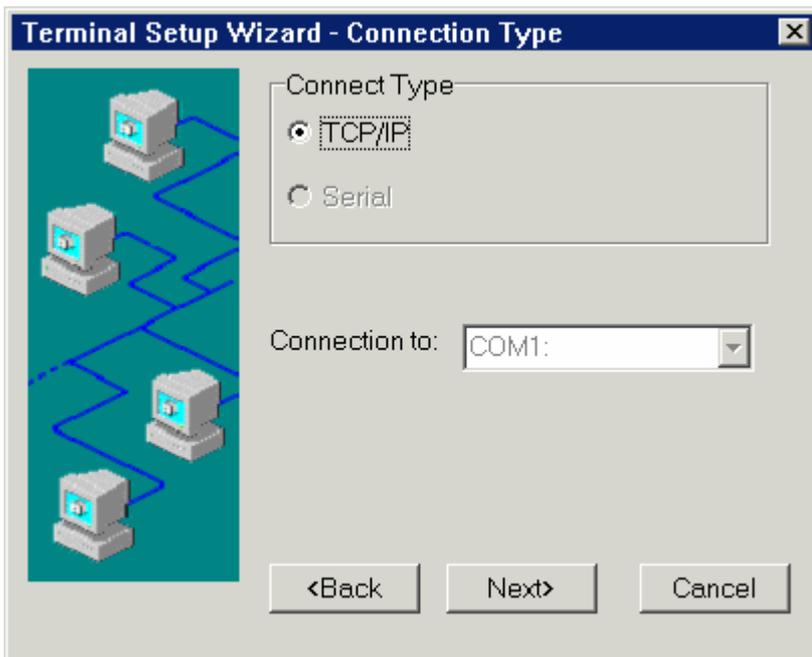


### 122-Keys Keyboard Mapping for ASCII





### Connection Type Dialog Box (ASCII session)



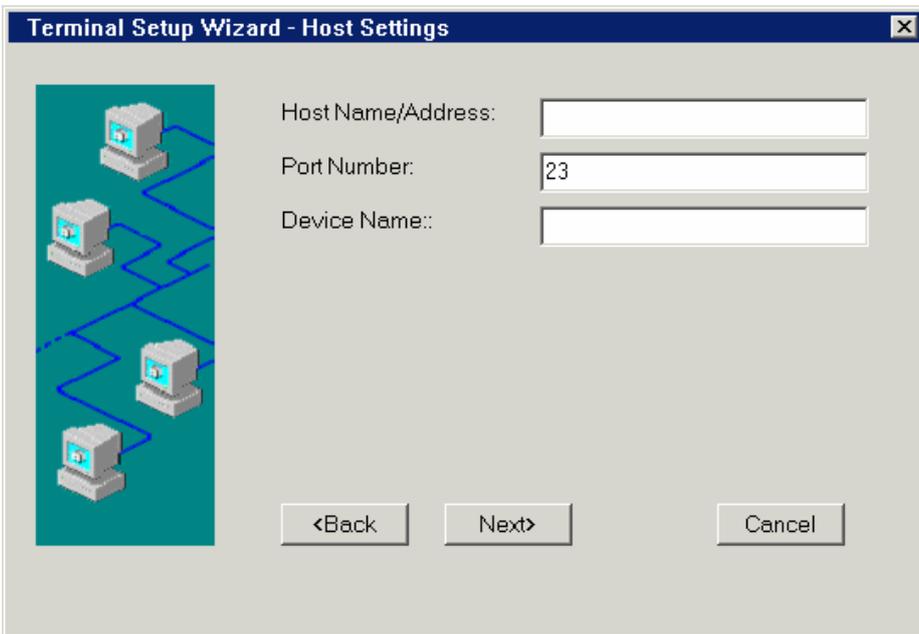
#### **TCP/IP:**

Click this button and ***Next*** to use Host Settings dialog box.

#### **Serial:**

Click this button to enable ***Connection to***. Scroll for communication port selection.

## Host Settings Dialog Box (Display Sessions)



Terminal Setup Wizard - Host Settings

Host Name/Address:

Port Number:

Device Name:

<Back    Next>    Cancel

### Host Name/Address:

Enter the fully qualified Domain name or static IP address.

### Port Number:

Enter TCP/IP port for Telnet on your host. The default value is port **23**.

### Device Name:

The host device name. A blank entry will cause the host to create a virtual device name. This name must be unique.

Multiple names may be entered using comma separators; e.g. NAME1,NAME2,NAME3. During connection, if a name is already in use, the next name in sequence is used. Up to five names may be specified.

### Local Echo (ASCII session only)

Check to enable Local Echo.

## Host Settings Dialog Box (TN5250 Printer Session)

**Terminal Setup Wizard - Host Settings**

Host Name/Address:

Port Number:

Device Name:

Message Queue:

Library:

Font:

Form Feed:

Local Echo

Host Print Transform

<Back    Next>    Cancel

### Host Name/Address:

Enter the fully qualified Domain name or static IP address.

### Port Number:

Enter TCP/IP port for Telnet on your host. The default value is port **23**.

### Device Name:

The host device name. A blank entry will cause the host to create a virtual device name. This name must be unique.

### Message Queue:

The default value is **QSYSOPR**. (Activated only in TN5250 Printer mode)

### Library:

The default value is **\*LIBL**. (Activated only in TN5250 Printer mode)

### Font:

The default value is **011**. (Activated only in TN5250 Printer mode)

### Form Feed:

The default value is **CONT**. (Activated only in TN5250 Printer mode)

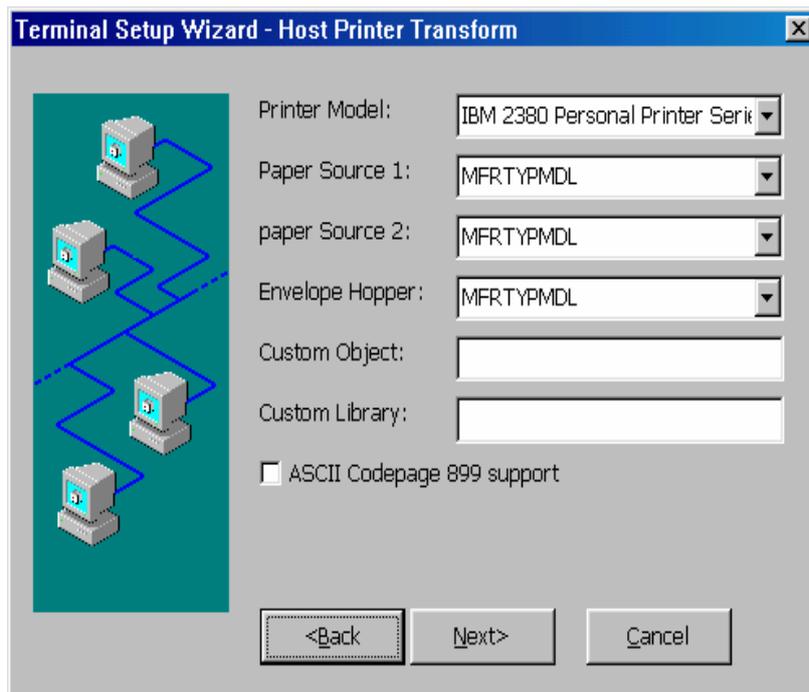
### Local Echo:

This function is activated only when ASCII session is selected in Figure 6-1.

### Host Print Transform:

Click this check box to use the Host Print Transform dialog box (See below). This function is activated only when TN5250 Printer mode is selected.

## Host Print Transform Dialog Box



### Printer Model:

Select your printer model. For a Customized printer object, select Other Printer and specify Custom Object name and Library below.

### Paper Source 1:

Select paper type in paper source 1. The default setting is **MFRTYPMDL**.

### Paper Source 2:

Select paper type in paper source 2. The default setting is **MFRTYPMDL**.

### Envelope Hopper:

Select Envelope size. The default setting is **MFRTYPMDL**.

### ASCII Codepage 899 support:

Click to enable this function (not recommended).

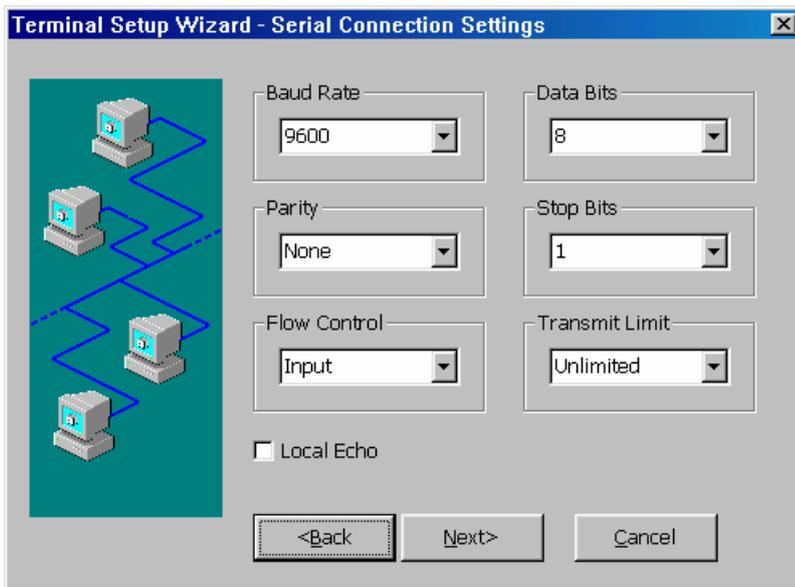
### Custom Object:

The default setting is blank.

### Custom Library:

The default setting is blank.

## Serial Connection Settings Dialog Box (ASCII)



This dialog box only displays when ASCII session in Figure 6-1 and Serial connection in Figure 6-10 are selected. Enter the specific value or the default will be used.

### **Baud Rate:**

The default value is **9600**.

### **Data bits:**

The default value is **8**.

### **Parity:**

The default value is **None**.

### **Stop Bits:**

The default value is **1**.

### **Flow Control:**

The default value is **Input**.

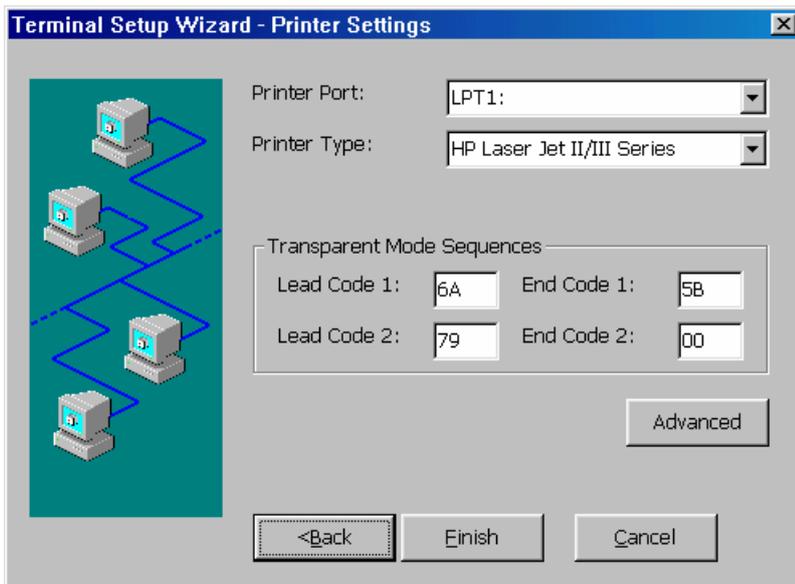
### **Transmit Limit:**

The default value is **Unlimited**.

### **Local Echo:**

Click to enable and by default this function is disabled.

## Printer Settings Dialog Box (TN5250)



### Printer Port:

The default value is **LPT1**.

### Printer Type:

Select the desired printer from the scroll list and the default is **IBM Graphics Printer**.

### Transparent Mode Sequences:

Enter the specific value or the default will be used as followed.

Lead Code1: **6A**                      End Code1: **5B**  
 Lead Code2: **79**                      End Code2: **00**

If the values of lead and end codes are '00', this feature will be disabled.

Below is an example illustrating the transparent mode feature; '|-' are the lead codes and '\$' is the end code:

Given the character string

| - 1B410C\$ (Hex 6A 5F F1H C2H F4H F1H F0H C3H 5BH)

The printer emulation program will automatically remove the

Lead codes | - and End code \$

And pack every two bytes of the remaining characters into one byte

Remaining characters 1B410C (Hex F1 C2 F4 F1 F0 C3)

Packed Hex 1B 41 0C

And then send those bytes (Hex 1B 41 0C) to the printer.

**Advanced:**

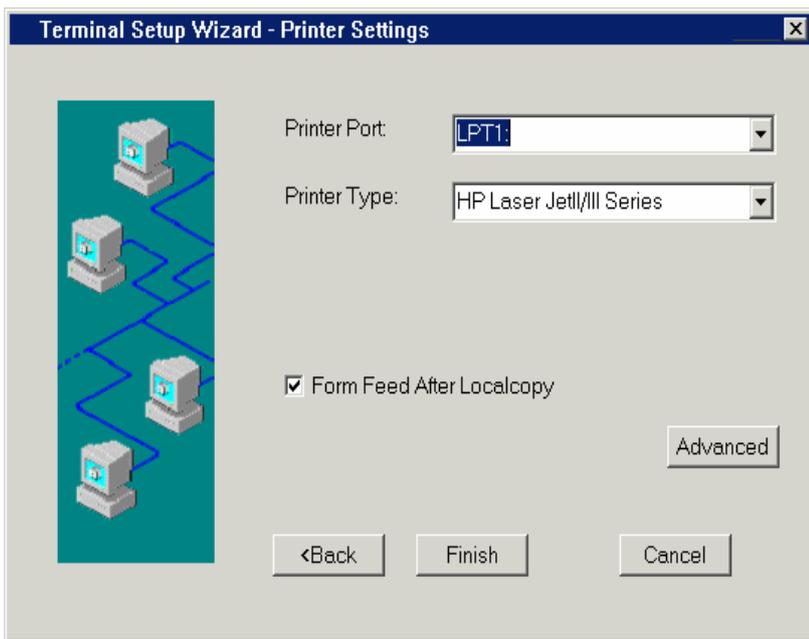
Click Advanced to display/Edit the printer EDCDIC-ASCII table.

**EBCDIC to ASCII Translation Table for Printer**

		1st Hex Char															
		4x	5x	6x	7x	8x	9x	Ax	Bx	Cx	Dx	Ex	Fx				
2 n d  H e x  C h a r	x0	20	26	2D	ED	ED	F8	E6	9B	7B	7D	5C	30				
	x1	20	82	2F	90	61	6A	7E	9C	41	4A	20	31				
	x2	83	88	83	88	62	6B	73	9D	42	4B	53	32				
	x3	84	89	8E	89	63	6C	74	9E	43	4C	54	33				
	x4	85	8A	85	8A	64	6D	75	9F	44	4D	55	34				
	x5	A0	A1	A0	A1	65	6E	76	20	45	4E	56	35				
	x6	A6	8C	A6	8C	66	6F	77	20	46	4F	57	36				
	x7	86	8B	8F	8B	67	70	78	AC	47	50	58	37				
	x8	87	8D	80	8D	68	71	79	AB	48	51	59	38				
	x9	A4	E1	A5	60	69	72	7A	DB	49	52	5A	39				
	xA	5B	5D	7C	3A	AE	A6	AD	AA	2D	F2	FD	DB				
	xB	2E	24	2C	23	AF	A7	A8	B3	93	96	93	96				
	xC	3C	2A	25	40	EB	91	DB	DB	94	81	99	9A				
	xD	28	29	5F	27	F3	20	20	DB	95	97	95	97				
	xE	2B	3B	3E	3D	DB	92	DB	27	A2	A3	A2	A3				
	xF	21	5E	3F	22	F1	20	DB	CD	A7	98	A7	20				

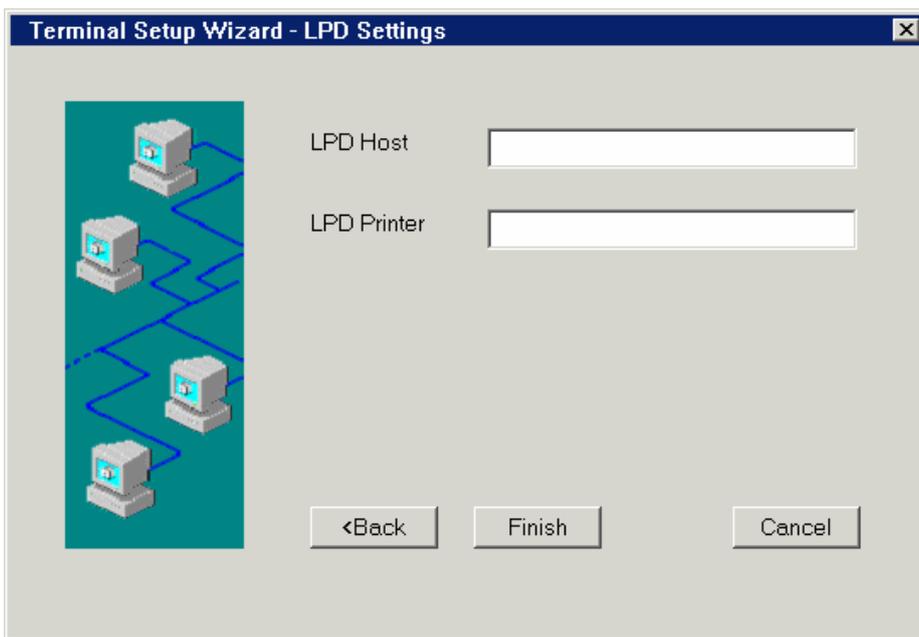
This table controls the EBCDIC to ASCII conversion for your printer session. You normally do not need to modify this table. If a character is printing on your printer with the wrong ASCII value, use the printer manual to determine the ASCII HEX value of this character and that of the value you want in its place. Find the incorrect value in the table, click on the value and type in the correct value. To exit this screen, click **OK**.

### Printer Settings Dialog Box (TN3270 or ASCII)



**Note: For TN3270, Next instead of Finish to LPD screen.**

## LPD Settings Dialog Box (TN3270)



This dialog box is valid for TN3270 screen copy only. To enable this feature, enter LPD (Line Printer Daemon) Host IP address and queue name of the LPD printer in required fields.

### LPD Host

This field is for the IP address of an existing printer server.

### LPD Printer

This field is for the queue name of the LPD. The name is case sensitive.

**Note:** If either of "LPD Host" and "LPD Printer" field is null, the WBT will cause screen copy to its attached printer.

## Chapter 6 - Terminal Properties

Pressing the F2 key from the Terminal Manager dialog box allows you to examine and/or modify the terminal properties. The dialog screen is composed of a number of Tabs (property sheets). The tabs displayed may vary with the ET model or with the Security selected. Click the desired Tab to display it.

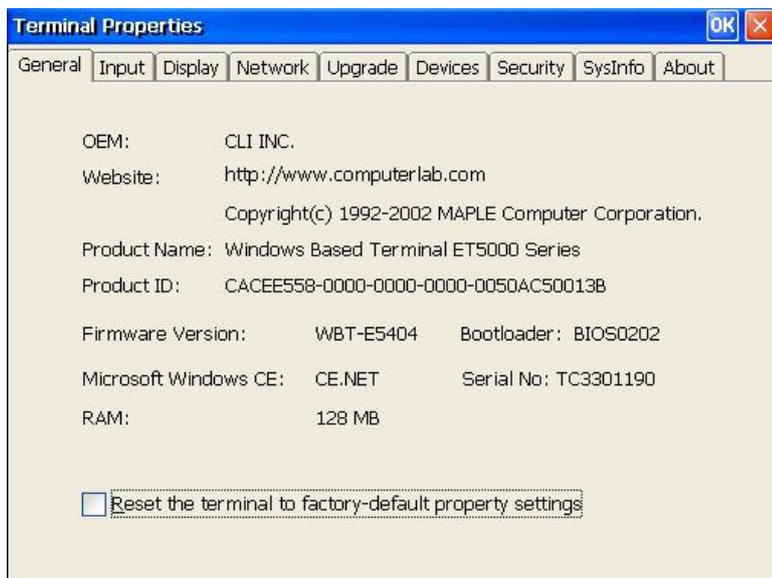
The property tabs are described in the following sections.

After clicking **OK** in the Terminal Properties dialog box, the following message box will display if any changes made require a restart of the terminal in order to take effect. Click **Restart** to restart the terminal for changes to take effect.



*Note: Press the Left Arrow key to skip the Restart.*

## 6.1 General Tab



This **General** property sheet displays information that includes the name of the product and information about the current software.

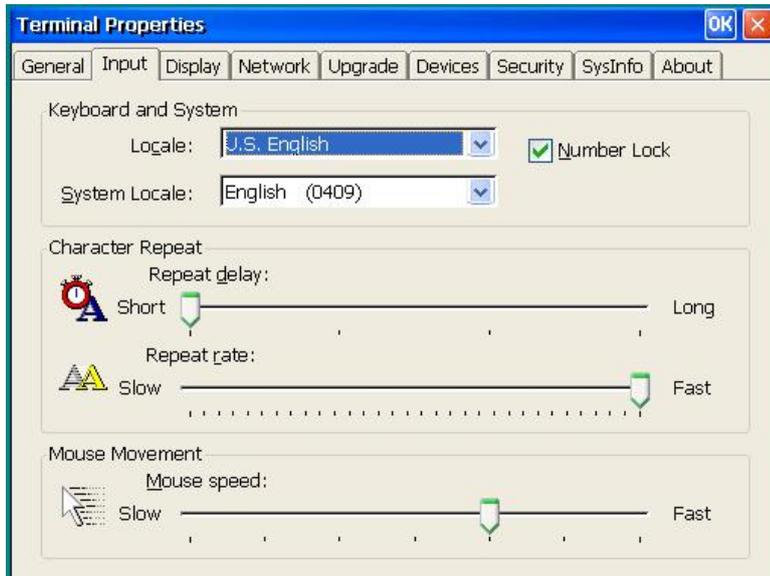
To reset the terminal properties to their factory-default settings, click the check box and press Enter. The second time in sequence this is done, all connection settings (if any) will be cleared and the initial Terminal Setup sequence will be invoked (see Chapter 2).

A Serial Number may be displayed below the Bootloader display. Serial No. is displayed when that value was manually entered or loaded at the factory (units shipped 3<sup>rd</sup> Quarter of 2002 or later). The serial number along with other asset related information is displayed and stored in SNMPADM management software V2.0B1.81 or later.

*Note: The Serial Number can be manually added/edited from this screen:*

- Press **Alt+Ctrl+Shift(left)+Space** keys.
- Dialogue Box requests entry of a Serial Number
- Serial Number will display in General Tab

## 6.2 Input Tab

**Locale:**

Scroll list and select the keyboard type.

**System Locale:**

Scroll through and select the System language.

**Number Lock:**

Check to enable keyboard Num Lock on system startup.

**Repeat delay:**

Use this slider control to determine how quickly a key will start to repeat when held down.

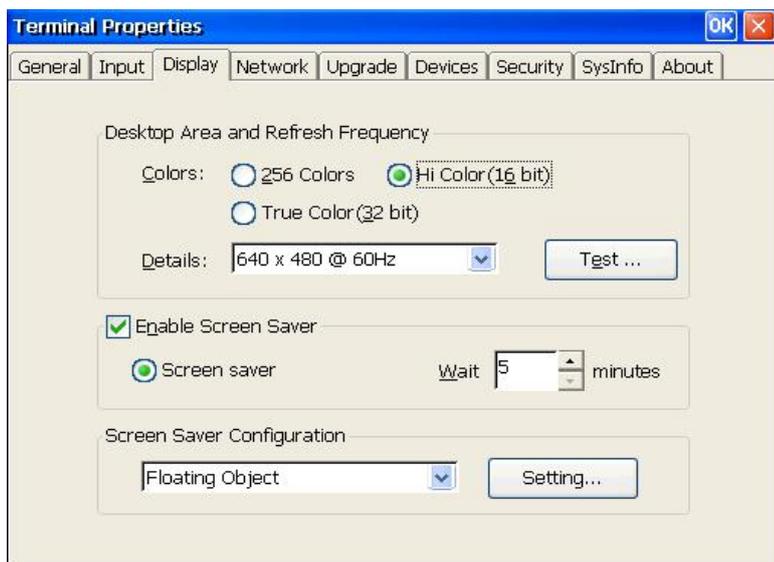
**Repeat Rate:**

Use this slider control to determine how quickly the same character will appear when the associated key is held down.

**Mouse Movement:**

Use this slider control to determine how quickly the mouse moves on screen.

## 6.3 Display Tab



### Desktop Area and Refresh Frequency:

- **Color:**  
Select desired ICA color depth.
- **Details:**  
The scroll list displays the current terminal display resolution. Scroll and click on a selection to change resolution. The default is **640 x 480 @ 60Hz**. Always click **TEST** to verify that the resolution selected works with your monitor - a test screen is displayed for 5 seconds using the setting selected.

### Enable Screen Saver:

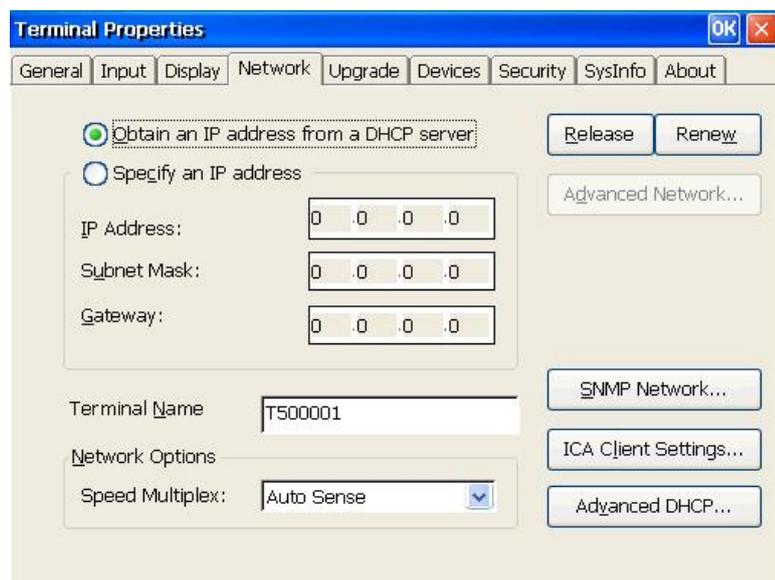
Click on the Screen Saver check box to make the three functions in the group box activated.

- **Screen Saver:**  
Click this button to enable the screen saver.
- **Wait:**  
Adjust the time (in minutes) that passes before the screen saver starts. You can enter your own number or use the scrolling list.

### Screen Saver Configuration:

Select the desired screen saver from the list. Click **Settings** to tailor the desired selection. For example, the 'Floating Object' can be set to be any text string of desired size.

## 6.4 Network Tab



### Obtain an IP address from a DHCP server:

Click this option to enable DHCP addressing. The DHCP server will automatically assign (lease) an IP address to your terminal plus other parameters to configure the terminal. The **Release** and **Renew** buttons can be used to Release this IP address and to Renew (acquire a new) the IP address - use only when physically moving the ET to another subnet or when the IP scheme for the current subnet has changed.

### Specify an IP address:

Enter a static IP address in IP Address field. Enter the subnet mask and gateway of the IP address in Subnet Mask and Gateway fields.

### Terminal Name:

Name used by RDP connections and/or SNMP administration.

Used by DHCP (send Option 12) for Device (Client) identification.

The name automatically generated is 'T' plus the last 6 characters from the terminal's MAC address; e.g. For MAC=0050AC104712, Name=T104712.

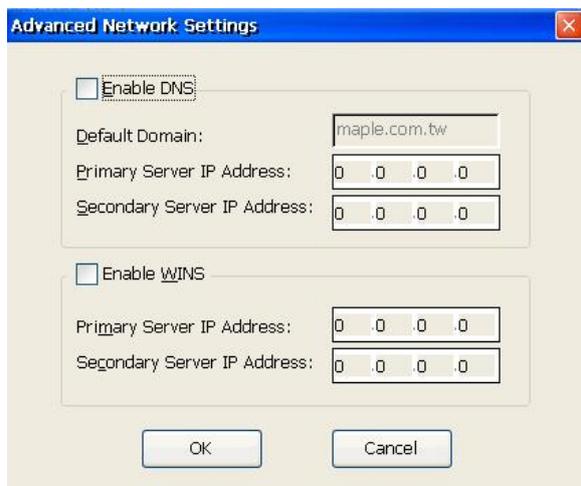
### Network Option:

Select an appropriate communication speed from Speed Multiplex scrolling list. The default is Auto Sense, which automatically detects Network speed. Other options include 10 MBps Half Duplex, 10 MBps Full Duplex, 100 MBps Half Duplex and 100 MBps Full Duplex.



**Advanced Network:**

This dialog box is active only when **Specify an IP Address** is enabled.

**Enable DNS:**

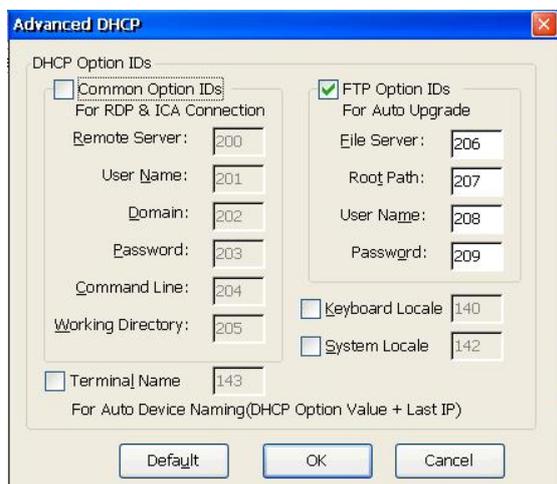
Use this group box to set domain, primary, and secondary IP addresses for DNS.

**Enable WINS:**

Use this group box to set the primary and secondary IP addresses of a WINS server.

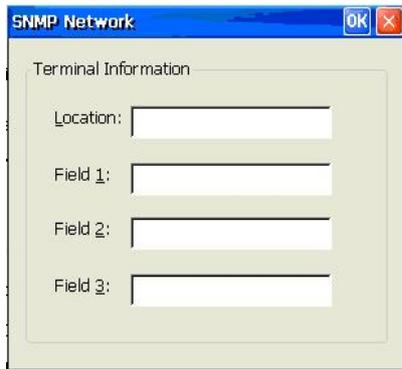
**Advanced DHCP:**

This dialog box is not provided with the ET1500 models.



See Appendix B for Auto Update/Configuration DHCP options. Check both boxes to support AutoUpdate/AutoConfiguration.

**SNMP Network:**



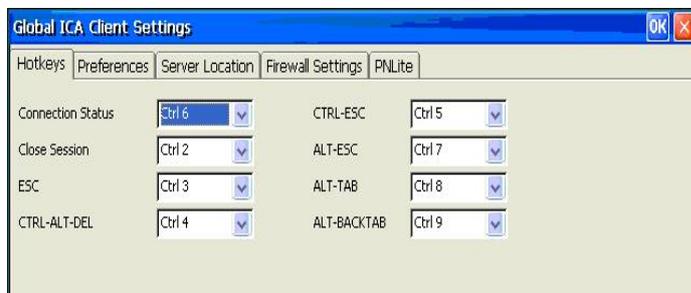
The image shows a dialog box titled "SNMP Network" with a blue header bar containing "OK" and "X" buttons. The main area is titled "Terminal Information" and contains four text input fields. The first field is labeled "Location:" and the following three are labeled "Field 1:", "Field 2:", and "Field 3:".

Enter custom fields that can be viewed with SNMPadm (v2.0b1.81 or higher).  
Typically used for ID processes.

## ICA Client Settings

Set ICA (Citrix) settings.

### ICA Client Settings – Hotkeys Dialog Box



This dialog box is invoked through the **ICA Client Settings** tab found in the **Terminal Properties** dialog box. It is the default hotkeys properties sheet. To customize default hotkey key sequences, use the pull-down scroll boxes on the Hotkey properties. The following describes the function of Hotkeys.

#### Status Dialog:

Displays the ICA connection status.

#### Close Session:

Disconnects an ICA client from the server and closes the client window on the local desktop.

#### Toggle Title Bar:

Alternately hides and displays the client window title bar:

Use the title bar to drag the client window to different positions on the local desktop.

Remove the title bar to maximize your workspace.

#### CTRL-ALT-DEL:

Displays the Windows NT Security dialog box.

#### CTRL-ESC:

On WinFrame servers, pressing this key sequence displays the Remote Task List.

On MetaFrame servers, pressing this key sequence displays the Windows NT Start menu.

#### ALT-ESC:

This hotkey cycles the focus through your minimized icons and opens the associated applications.

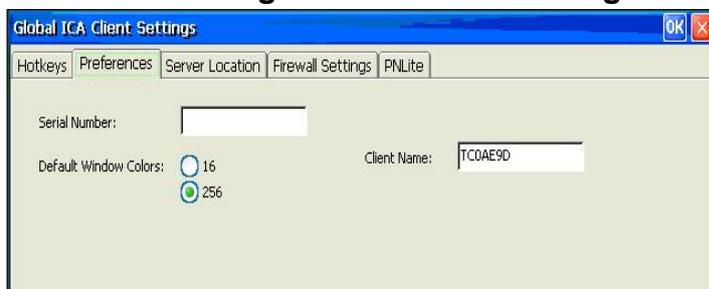
#### ALT-TAB:

This hotkey cycles through applications that have been opened. A window appears, displaying the programs as you cycle through them.

#### ALT-BACKTAB:

This hotkey sequence cycles through applications that have been opened in a session, but in the opposite direction.

### ICA Client Settings – Preferences Dialog Box



#### Serial Number:

This is the serial number of your ICA Client software. This field is only necessary when you are using the ICA Windows CE Client with a product such as WinFrame Host/Terminal, which requires each client to have a Citrix PC Client Pack serial number in order to connect to the server. If a serial number is required, you must enter it exactly as it appears on the serial number card. MetaFrame servers do not use the Serial number field.

#### Default Window Colors:

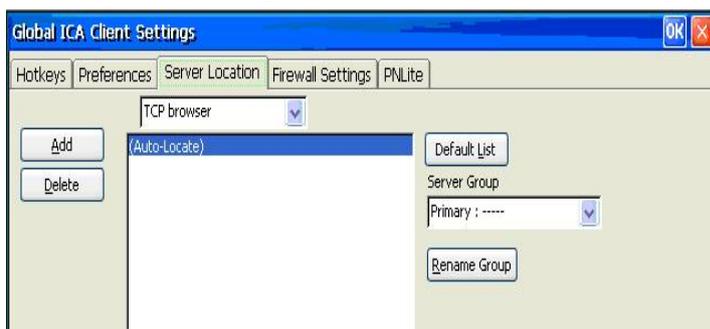
In the Window Colors field, select 16, 256, or Thousands colors. When using a PPP connection, 16 colors mode may provide better performance. If the window options specified exceed the capabilities of the client hardware, the maximum size and color depth supported by the CE operation system are used.

#### Client Name:

This text box allows you to change the client name of your device. The Citrix server uses 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 computer running a copy of a Citrix ICA Client. If you do not use unique client names, device mapping and application publishing may not operate correctly.

*Note: The default ET client name is the letters WBT suffixed with the devices hexadecimal MAC address.*

## ICA Client Settings – Server Location Dialog Box



Use this dialog box to locate available Citrix (ICA) servers and published applications.

### Browser selection:

Select the desired browser type: TCP Browser, TCP+HTTP Browser, or SSL/TLS+HTTPS Browser.

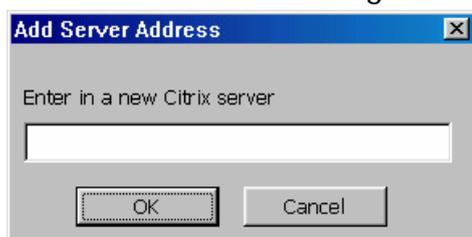
### Server Group:

Select the group that you want to configure.

### Add:

Click to add a server to the selected group.

### Add Server Address Dialog Box



Enter the name of a new Citrix server or its IP address. Click **OK** to return to the Select dialog above.

### Delete:

Click to delete the selected name in the displayed list.

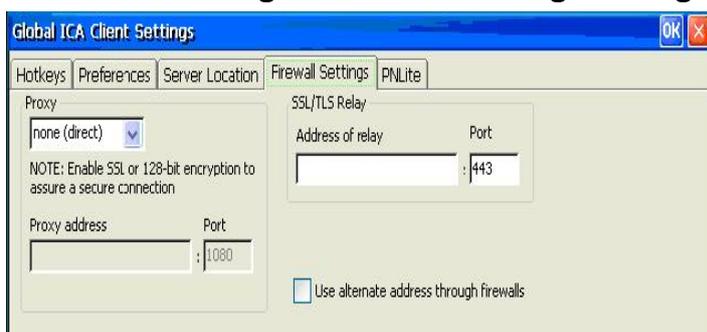
### Rename Group:

Rename the Server Group.

### Default List:

Click to recall the previous server list.

## ICA Client Settings – Firewall Settings Dialog Box



### **Proxy:**

Select Proxy type from the list.

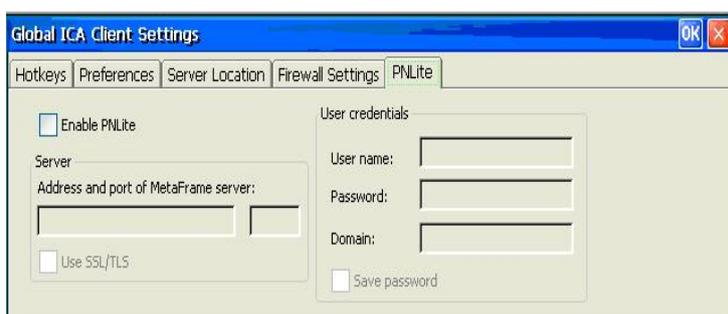
### **Use alternate address through firewall**

If the ICA client is outside a firewall that uses address translation, you must configure the client to use the alternate address returned by the master ICA server.

### **Addresses:**

Enter IP addresses as needed.

## ICA Client Settings - PNLite Dialog Box



PNLite is an ICA connection mode that lets clients running CE 3 connect to Citrix server applications without having to configure connections for published applications. The names of such applications are added to the Terminal Manager Connection name list.

### **Enable PNLite:**

Check this box to enable the PNLite mode.

### **Server:**

Enter the address and port number of the Nfuse server.

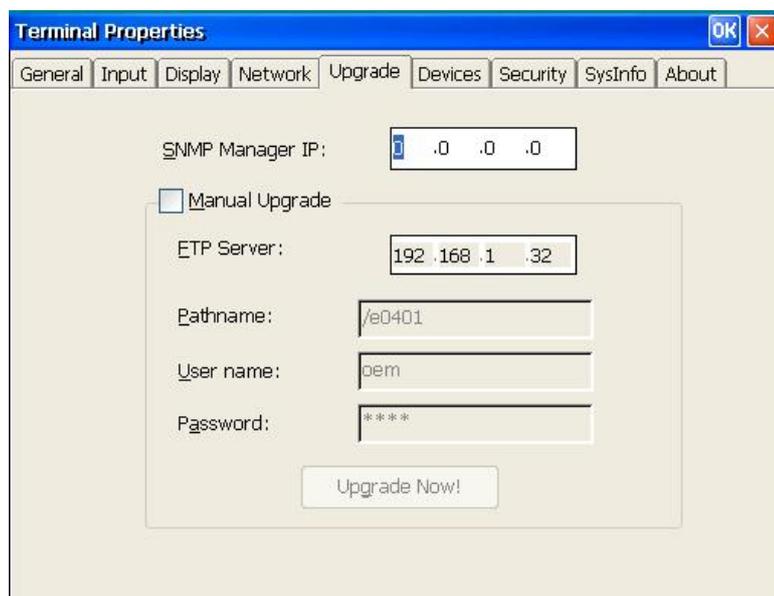
### **Use SSL/TLS:**

Check to use Secure Socket Layer protocol.

### **User Credentials:**

Enter your user name, password, and domain name. Check **Save password** if you want your password to be remembered.

## 6.5 Upgrade Tab



The screenshot shows the 'Terminal Properties' dialog box with the 'Upgrade' tab selected. The 'SNMP Manager IP' field is set to '.0 .0 .0'. The 'Manual Upgrade' checkbox is checked. The 'ETP Server' field is set to '192.168.1.32', the 'Pathname' field is set to '/e0401', the 'User name' field is set to 'dem', and the 'Password' field is masked with '\*\*\*\*'. An 'Upgrade Now!' button is located at the bottom of the 'Manual Upgrade' section.

See Chapter 9 for detailed procedures.

### Manual Upgrade:

Click to setup and start a manual update of the ET firmware from an FTP server.

Enter FTP server IP address and the path to the file containing the new firmware files.

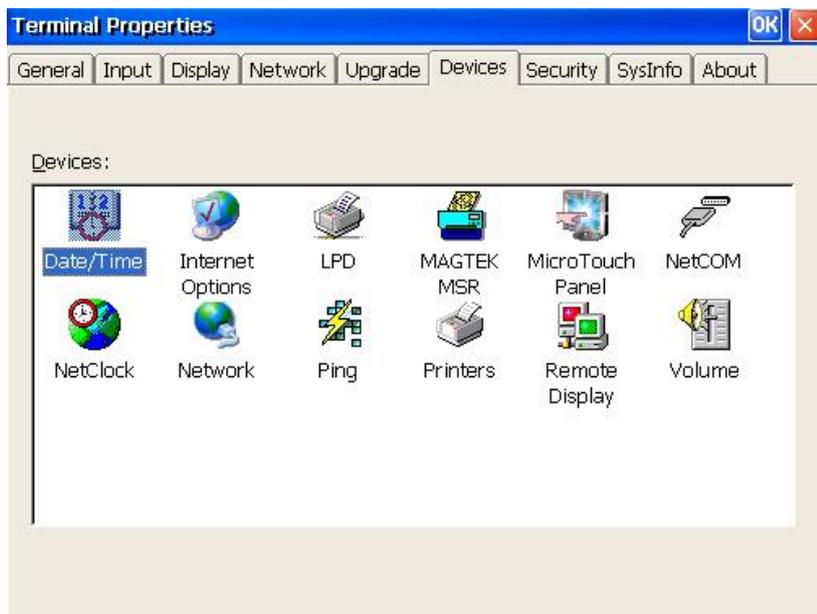
If the FTP server requires a User ID and Password, enter it.

Click **Upgrade Now!** to start the update.

### SNMP Manager IP:

If the terminal will be upgraded remotely using the SNMP Administrator, setting this IP address will feedback upgrade status to the administrator. This is not required.

## 6.6 Devices Tab



Special devices are supported by special modules referenced by this Tab. Double click the desired device setup icon. New device support may be added - check our home page ([www.computerlab.com](http://www.computerlab.com)) for a description of any such devices.

**Date/Time:** Adjust the current time and your country time zone.

**Netclock:** Get/synchronize time from SNTP servers.

**LPD:** Setup the attached printer as a network printer.

**Ping:** Ping Host by name or IP address.

**MAGTEK MSR:** Setup Magtek Magnetic Strip Reader with keyboard.

**MicroTouch Panel:** Setup a MicroTouch touch screen panel.

**NetCOM:** Setup attached serial device for access on the network.

**Printers:** Setup a local RDP printer.

**Remote Display:** Allow SNMPadm to shadow/control this terminal.

**Volume:** Set volume on terminal speakers.

**Internet Options (Browser configuration):** Configure Browser options.

**Network:** Configure network connections - Dial-Up, Direct, VPN, or PPP.

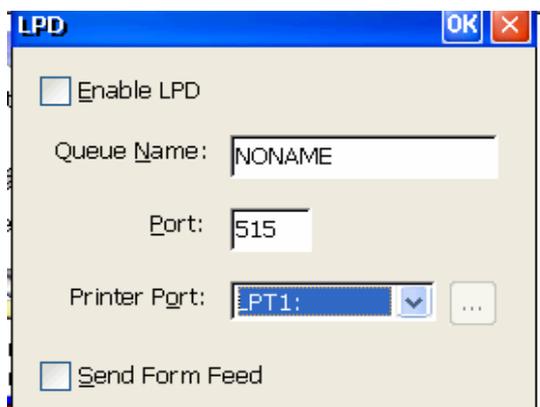


### LPD Print Server:



If you have a printer attached to the parallel printer port, you can make this printer a network printer. In this case, given the IP address of the WBT (see SysInfo) and the Queue Name, devices on the network can print to your attached printer.

To create an LPD printer, check Enable LPD and enter a printer queue name. Port 515 is standard for LPD printing. Check Send Form Feed to cause a Form Feed between print jobs. The WBT now becomes a network print server. It can also serve itself.



Expanded LPD Screen:

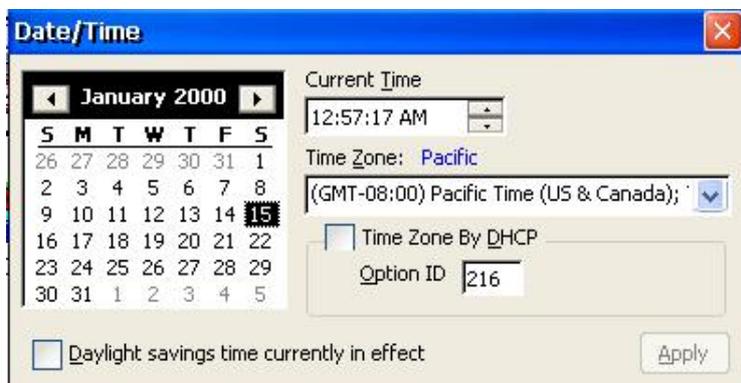
#### Printer Port:

- LPT1: - Parallel printer port
- LPT2: - If USB printer connected
- COM1: - Serial printer on COM1
- COM2: - Serial printer on COM2





### Date/Time:



This screen allows you to set the current time and your country time zone.

You can check ***Time Zone by DHCP*** to have DHCP set the Time Zone using the specified DHCP option number. This option is of type 'string'. The values are listed in the ***Time Zone*** list; e.g. "(GMT-08:00) Pacific Time (US & Canada)"



### NetClock:

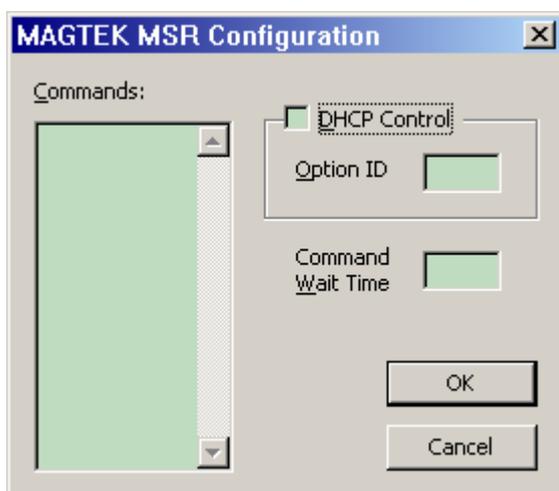


Get time from SNTP servers. You can add a new SNTP server or modify/remove any of the original SNTP servers.

Check ***Synchronize Time On Boot*** to automatically synchronize time when unit booted. To synchronize time NOW, click ***Synchronize***.



## MAGTEK MSR:



If you use a Magtek Magnetic Strip Reader with keyboard, you may set the configuration of that Reader from this screen. Refer to MAGTEK MSR manual for the complete set of configuration commands.

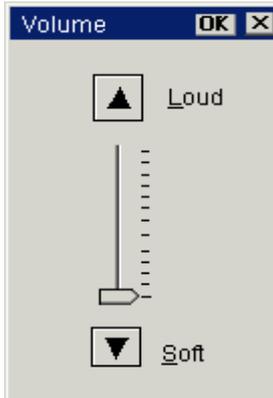
To setup specific tracks to be read, input the following commands:

Track 1 data only:	01381
Track 2 data only:	01384
Track 3 data only:	01390
Track 1 and 2 data:	01385
Track 1 and 3 data:	01391
Track 2 and 3 data:	01394
Track 1, 2 and 3 data:	01395 (default)

Input the command, then click OK to close the driver screen and execute the command. Open up the driver screen again, place the cursor after the command, and swipe the credit card to make sure the correct track data is coming up on the screen.



## Volume Control



Use this control to set the volume on the terminal speakers. Click the Up or Down arrows to position pointer to desired volume level from Soft to Loud.



### MicroTouch Panel:

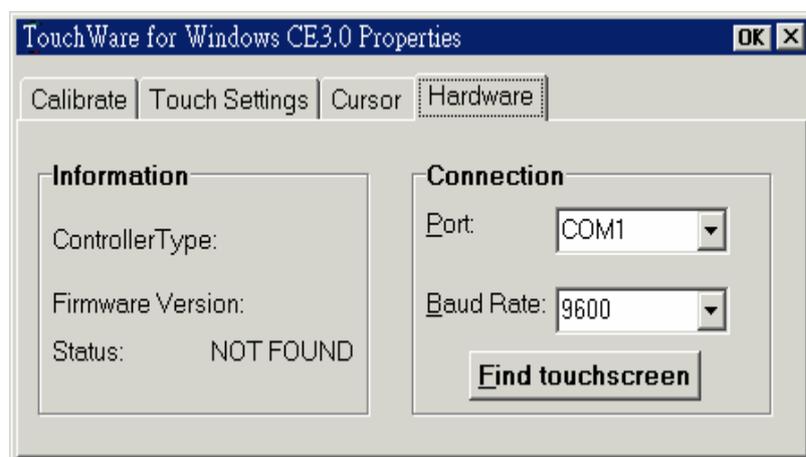
This device is used to setup a Touchscreen panel (Micro Touch only).

Note: All connections should be done while power is off on the base and monitor.

The Micro Touch Panel monitor you received should have had three cable connections. One for line voltage, one SVGA video connection and a DB9 female serial connection. The serial cable should be connected to the DB9 male COM port on the back of the ET5000 terminal.

To configure, from the terminal manager screen press F2, click on the "Devices" Tab then Double click on the Micro Touch icon.

### Hardware:



### Information

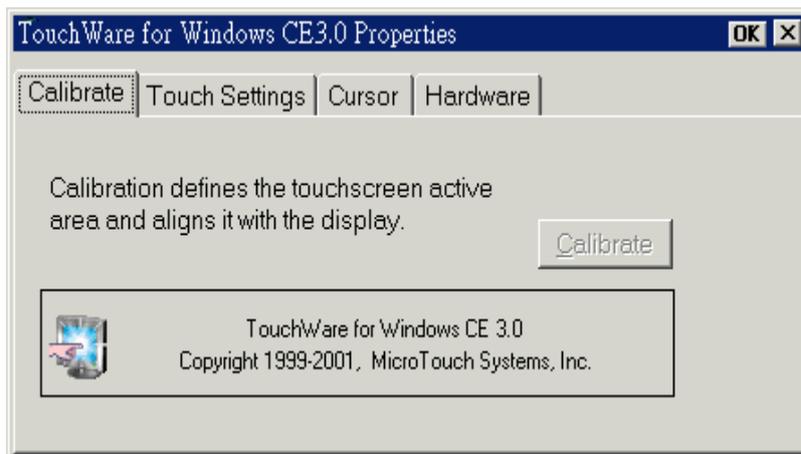
Status should be OK. If Status = NOT FOUND, press ***Find touchscreen*** .

### Connection

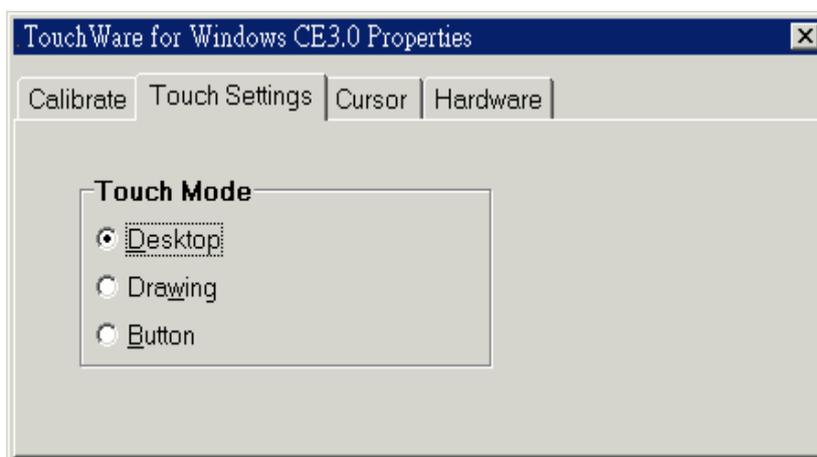
Set serial port and Baud Rate. (This is normally not necessary)

Press ***Find touchscreen*** if Status = NOT FOUND.

If NOT FOUND status persists, the Serial cable may not be connected or there is a problem with the MicroTouch panel.

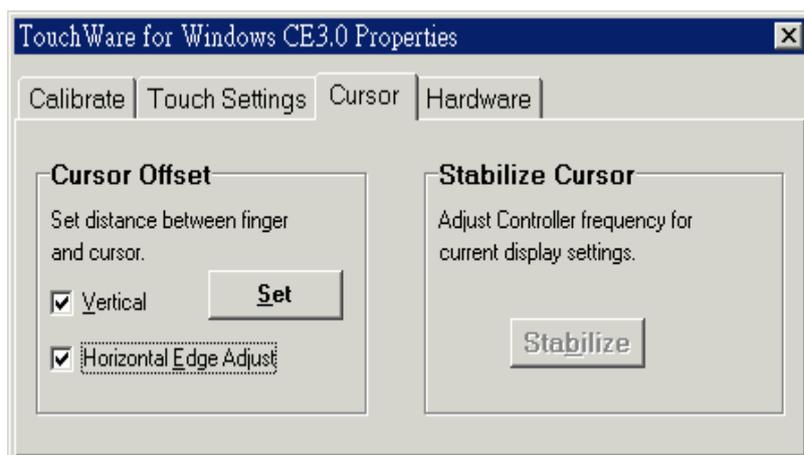
**Calibrate:**

When the **Calibrate** button is active you can click it to calibrate the touch sensitivity and screen extent. You will get a screen with crosshairs in the lower left that you will touch for calibration, then touch the crosshairs in the upper right. After you are finished touch the "Done" button that appears in the Calibrate Complete screen.

**Touch Settings:****Touch Mode**

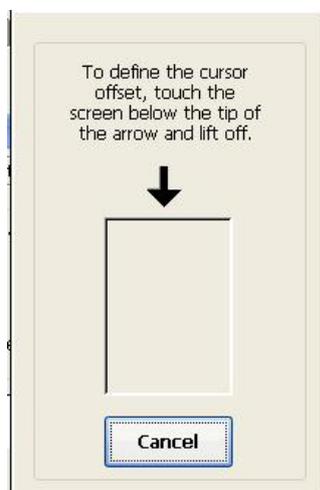
- Desktop** - Button press and Drag & Drop enabled (Default)
- Drawing** - Disable Button Press; enable Drag & Drop

**Button** - Enable Button Press; disable Drag & Drop

**Cursor:****Cursor Offset**

You can set the distance between your fingertip and the pointer tip.

Select ***Vertical*** and/or ***Horizontal Edge Adjust*** then press ***Set***. The following graphic allows you to select Vertical Offset (Top = None, Bottom = Maximum) and Horizontal Adjust (Center = none).

**Stabilize Cursor (Not used)**

**Ping:**

Enter Host name or IP address to ping. Click **Start** to ping the Host.  
A series of Pings will be sent to the Host.  
Click **Stop** button to end the process.

**Remote Display:**

The Remote Display applet allows you enable or disable remote shadowing via the SNMPAdm Management tool. The refresh time (in milliseconds) affects the responsiveness and bandwidth utilization of the shadowing function. The lower the number, the faster the response and the more bandwidth used.





When enabled, another device on the network (using TELNET) can talk to a serial device (e.g. HyperTerminal) attached (null modem cable) to the ET com port. The SerialID type device is addressed on the network by the ET's IP address and Port 6515; e.g. OPEN 192.168.2.219 6515. Set mode to send CRLF (Carriage Return & Line Feed) when Enter is pressed (e.g. SET CRLF).

SerialID commands OPEN, WRITE, READ and CLOSE are described below.

### 1. OPEN **comport,baudrate,parity,databits,stopbits,handshake**

Comport: COM1, COM2

Baudrate: 2400, 4800, 9600, 19200, 38400, 57600

Parity: N(none), O(odd), E(even), M(mark), S(space)

Data bits: 5,6,7,8

Stop bits: 1,1.5,2

Handshake: N(none, default), X(Xon/Xoff), H(RTS/CTS)

Example: OPEN COM1,9600,N,8,1,N

### 2. WRITE **number of chars<CRLF>n chars**

Example: WRITE 5<Enter>12345

### 3. READ

Return  $\geq 0$  if data available

Example: READ / ret 0 (no data)

READ / receive 5 / receive 12345

#### **4. CLOSE**

Close open port

All function will receive a return value:

if value  $\geq 0$ , successful

If value  $< 0$ , an error occurred

Error number list

Open:

-1 -> open port failed

-2 -> server busy

-3 -> parameter error

0 -> OK

Close:

-4 -> port not open

0 -> OK

Write:

-4 -> port not open

-6 -> timeout

0 -> OK

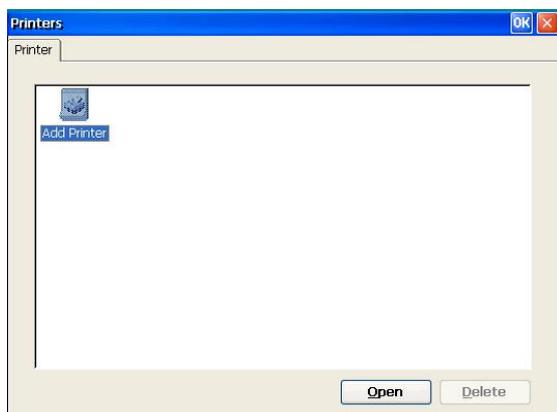
Read:

-4 -> port not open

n -> n characters read



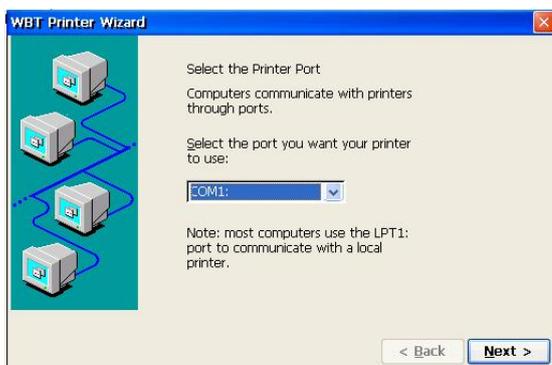
## Printers (RDP printer):



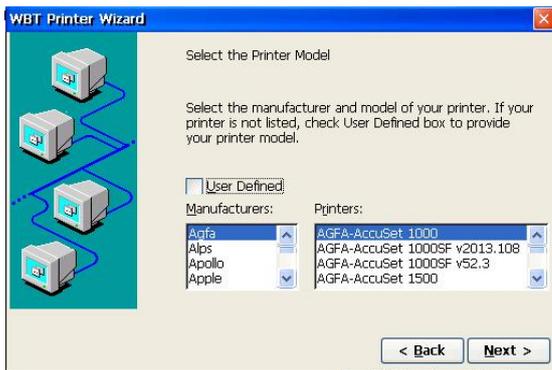
The Printers applet is used to define ICA and RDP printers. This user interface DOES NOT load a printer driver or in any way control local printers connected to the terminal. The only purpose for this applet is to “define” the local printer for a terminal server.

To delete an existing printer definition, click that icon to highlight and click the **Delete** button. To setup a new local printer, double click the **Add Printer** icon or click **Open**.

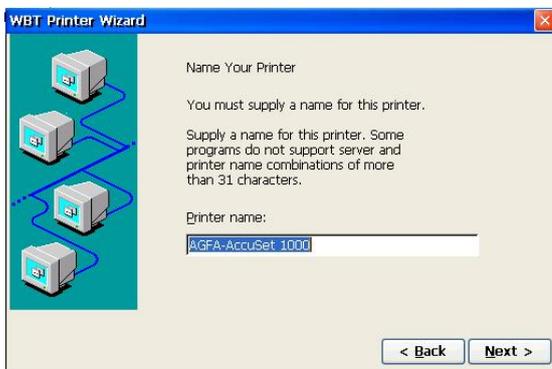
### Add Printer:



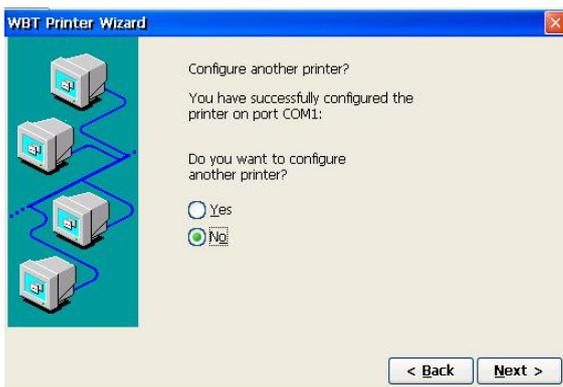
Select printer port: **LPT1**, **COM1**, or **Network**. Click **Next** to continue.



Select the manufacturer of your printer from the **Manufacturers** list. Then, choose the desired printer model from the **Printers** list.



Enter a 'friendly' name for the printer.







## Internet Options:

### General:



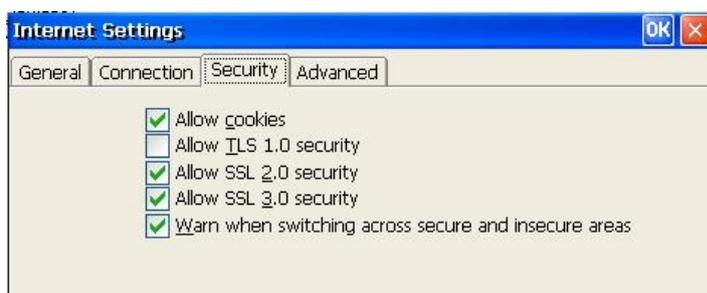
Define **Start** and **Search** pages. If desired, **Clear Cache** memory and or **Clear History** (saved entered addresses). You can also change **Cache Size**.

### Connection:



If your internet connection uses a proxy server, set its address (name or IP) and the port number used.

### Security:



Select security options.

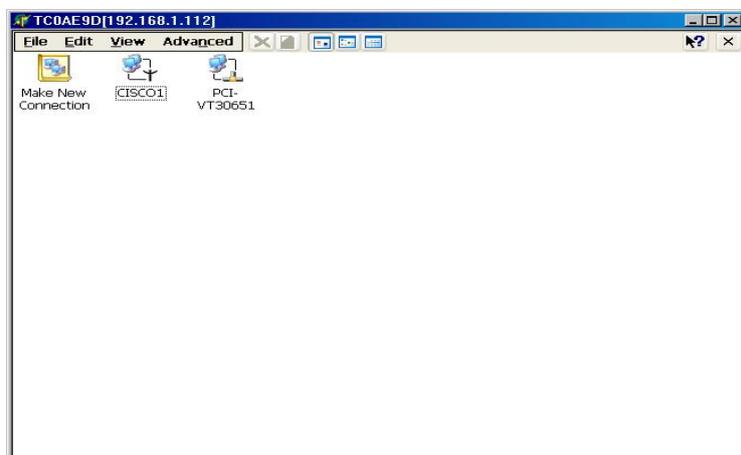
### Advanced:



Set page display options.



## Network:



To configure a wireless connection on an ET5000, double click CISCO and refer to Chapter 11 for detailed procedures.

To review/change the built in Ethernet network settings, double click the icon labeled PCI-xxxxxxx. To start other connections, double click the appropriate icon.

When multiple connections exist, you can use the Advanced Settings under the Advanced menu to set the order in which the connections are accessed by network services.



To create a new network connection, double click **Make New Connection**.

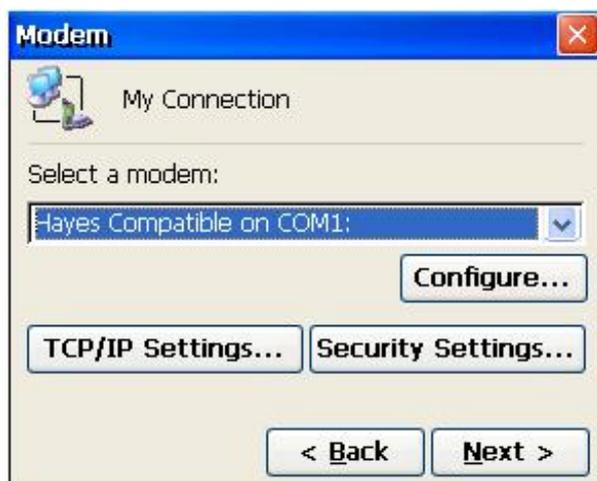
### Make New Connection Properties Sheet



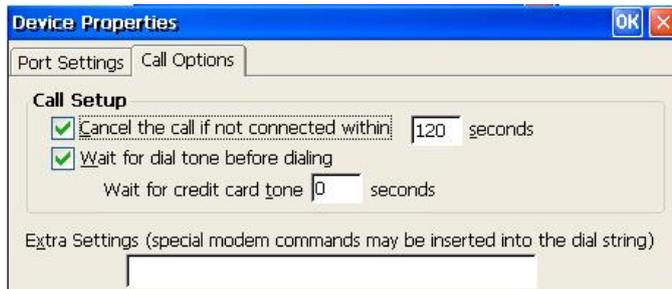
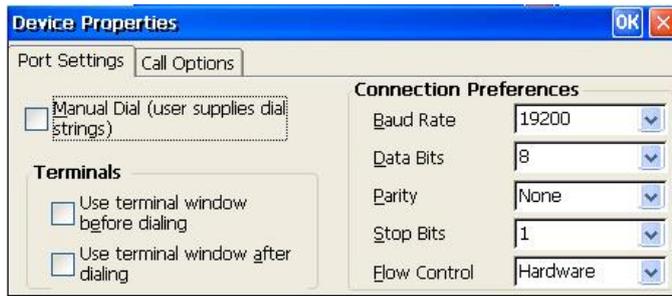
Name and select connection type.

### Dial-Up Connection:

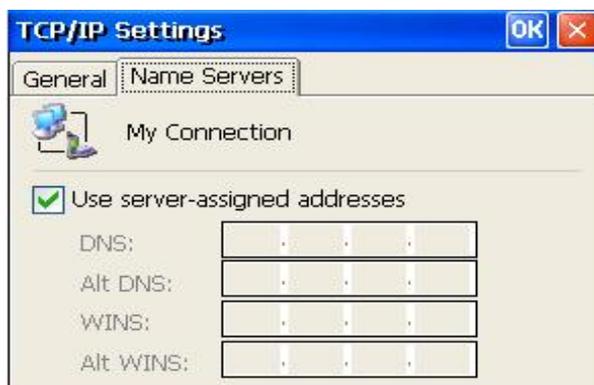
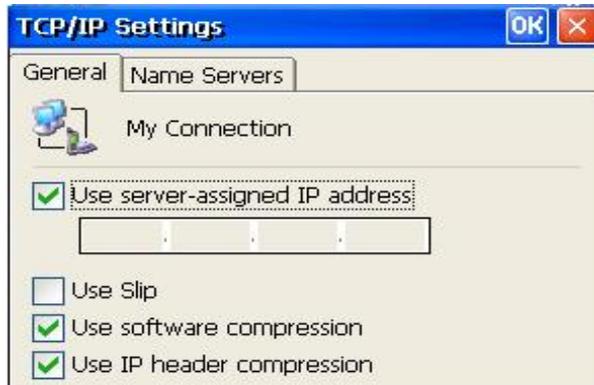
Establish Dial-Up connection to RAS (Remote Access Server) using PPP (Point to Point protocol).

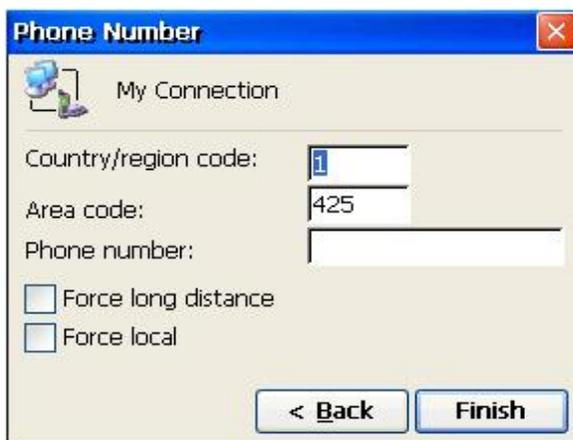


### Configure...



### TCP/IP Settings ...



**Security Settings ...****Next >**

Enter a phone number. Click **Finish** to create the connection.

Double click the created icon to enter sign on data and start the connection.

**Direct Connection:**



See **Dial-Up Connection** for Configure, TCP/IP, and Security screens.

## Virtual Private Network:



Enter name or IP address of the VPN server for the network to which you want to connect.

### TCP/IP Settings ...



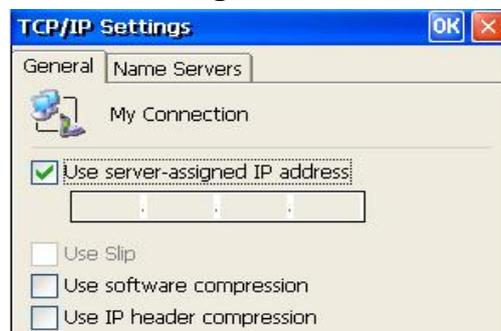
### Security Settings ...



### PPP over Ethernet (PPPoE):



### TCP/IP Settings ...

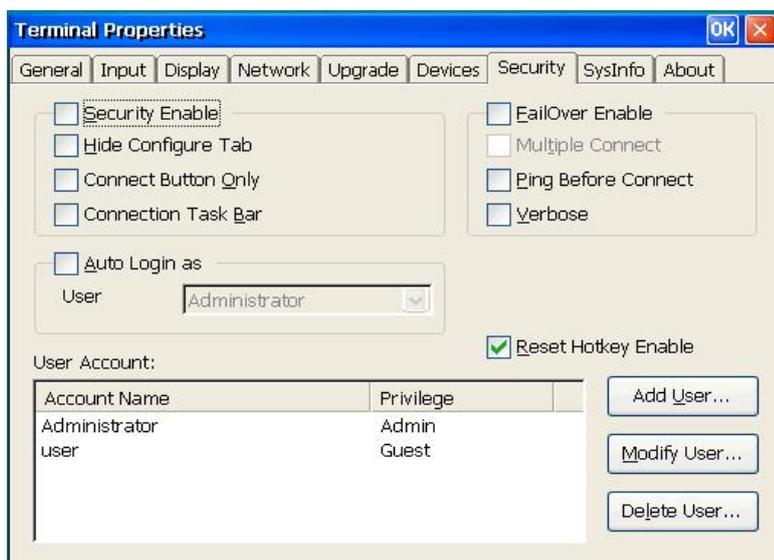




### Security Settings ...



## 6.7 Security Tab



With first time security setup, there is always an Administrator in the User Account field. This Administrator account is of Admin privilege and cannot be removed.

### Security Enable:

Click to enable security function. This makes the WBT a multiple user version based on authorized privileges. A user login will be requested, unless **Auto Login** is also specified (see below). Disabling security makes the WBT accessible without a login.

### Hide Configure Tab:

Hide the Configure Tab in Terminal Manager Dialog Box. If Security is enabled, this checkbox is disabled - the Configure Tab will be hidden unless signed on as Administrator.

### Connect Button only:

A Connect Button (see chapter 2.3) is displayed after terminal power on instead of the Terminal Manager screen. The user will not have direct access to the Terminal Manager or Properties screens. All connections (not just those set for AutoStart) will be started for the user when the button is clicked. If Security is enabled and user is not the Administrator, only those connections set to start will be started.

### Connection Task Bar:

Use the Connection Task Bar (see chapter 2.3) in place of the Terminal Manager Screen. The checkbox is mutually exclusive with that for the Connect Button.

**Auto Login as:**

Click to enable WBT automatic login as the selected user account in the User Name list.

**Security Enable** should also be checked or Auto Login will be ignored.

**Add User:**

Add a new user account and setup the user's privilege, password and accessible connections.

**Modify User:**

Modify the selected user's properties, including password, privilege, and accessible connections.

**Delete User:**

Delete the selected user account. It will show a delete confirmation message box.

**User Properties – Administrator Dialog Box**

**User Properties**

Enable Password Change

User Name:

Password:

Confirm Password:

Account Privilege

Administrator

User

Guest

Available Connections:

Available Connections	Type
maple	RDP
Default RDP	RDP
Web1	Web
Default ICA	ICA
xcvxcv	ICA
NT2000	ICA
maple	EMU

Assigned Connections:

Users of Administrator privilege can use all connections.

Assign >

< Unassign

Toggle AutoStart >

OK Cancel

WBT Administrators can add/modify user accounts with this dialog box:

**Enable Password Change:**

This group enables Administrator to add new User Name and Password; or modify current User Name and Password.

**Account Privilege:**

Administrator can set privilege of the user to be Administrator, User, or Guest.

**Available Connections:**

The currently available connections of WBT will automatically display in this Available Connections item for Administrator's assignment.

**Assign:**

Click it to assign selected connections from the list of Available Connections group.

**Unassign:**

Click it to unassign selected connections from the list of Assigned Connections group.

**Assigned Connections:**

The usable connections will display in this item.

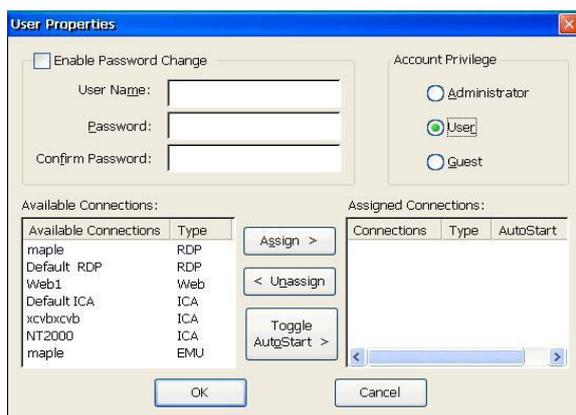
**Toggle AutoStart:**

Set selected Assigned Connections to automatically startup after successful login.

There are three privilege levels for users of WBT: Administrator, User and Guest. According to the privilege, WBT setup provides different functions:

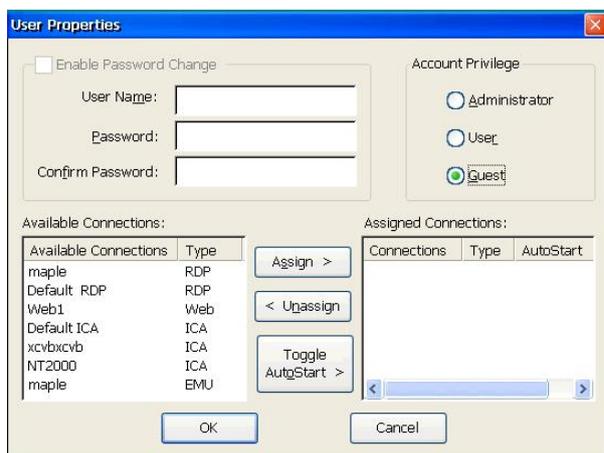
<b>Account Privilege</b>	<b>Administrator</b>	<b>User</b>	<b>Guest</b>
Hide/Show Configure in Terminal Manager	Hide/Show	Hide	Hide
<b>Tab in Terminal Properties</b>			
General	V	V/(Disable Reset)	V(Disable Reset)
Input	V	V	
Display	V	V	
Network	V		
Printers	V	V	
Upgrade	V		
Devices	V	V	
Security	V		
SysInfo	V	V	V
About	V	V	

## User Properties – User Dialog Box



When **User** is selected in Account Privilege group, this dialogue will display. See Table above for the available functions with User privilege.

## User Properties – Guest Dialog Box



When **Guest** is selected in Account Privilege group, this dialogue will display. See Table above for the available functions with Guest privilege.

### Reset HotKey Enable:

Click to enable the **Ctrl+Tab+Delete+F12** key sequence at the Terminal Manager or Connect Button screens. This key sequence displays a "Reset to factory default" message box - Click Yes to reset or No to cancel the reset.

**FailOver Enable:**

Failover is an attempt to provide continuous availability of network application by automatically switching to another server when the primary server fails or cannot be started. For example: If enabled and the primary RDP/ICA server fails, the connection will be ended; then on reconnect, connection to another configured RDP/ICA server is automatically attempted to provide continuous availability to the user.

If a connection cannot be started (manual or automatic), an attempt is made to start the next non-active connection. Next is in alphabetic order by connection name. Already active connections are skipped.

When FailOver is started because of a connection failure, the message *Please Wait While Failover Works* will display.

**Multiple Connect: (FailOver)**

Check to enable failover to multiple servers. If primary connection fails, try the next server and so on until a successful connection is made or no other server is available. If not enabled, only one new connection is attempted.

**Ping Before Connect: (Not FailOver)**

Check this box to display a FailOver Log window (see below) if connection start fails.

**Verbose: (FailOver)**

Check this box to cause messages to be displayed about Failover function failure and success in a Failover Log Window.

FailOver Log Window: List FailOver actions and responses.

## 6.8 SysInfo Tab

This Tab shows the configuration of your ET5000.



### Network card:

Shows the Ethernet MAC address of the selected Network card.

### TCP/IP Settings:

This will show the network status, about following: IP Address, Subnet Mask, Gateway, Domain, DNS (enable or not), Primary DNS IP Address, Secondary DNS IP Address, WINS (enable or not), Primary WINS IP Address, Secondary WINS IP Address.

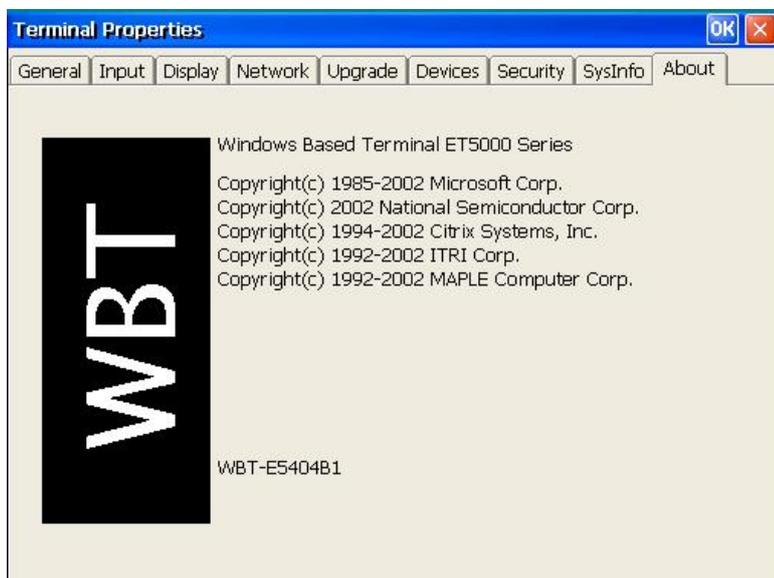
### DHCP Settings:

There will show information about DHCP: Enabled or Disabled. If enabled, the IP lease time and elapsed time are shown.

### Memory Usage:

This option is only meaningful for the Browser version of the ET5000. Higher rate of Program memory allows you to execute more sessions. Higher rate of Storage memory allows for a larger virtual disk size.

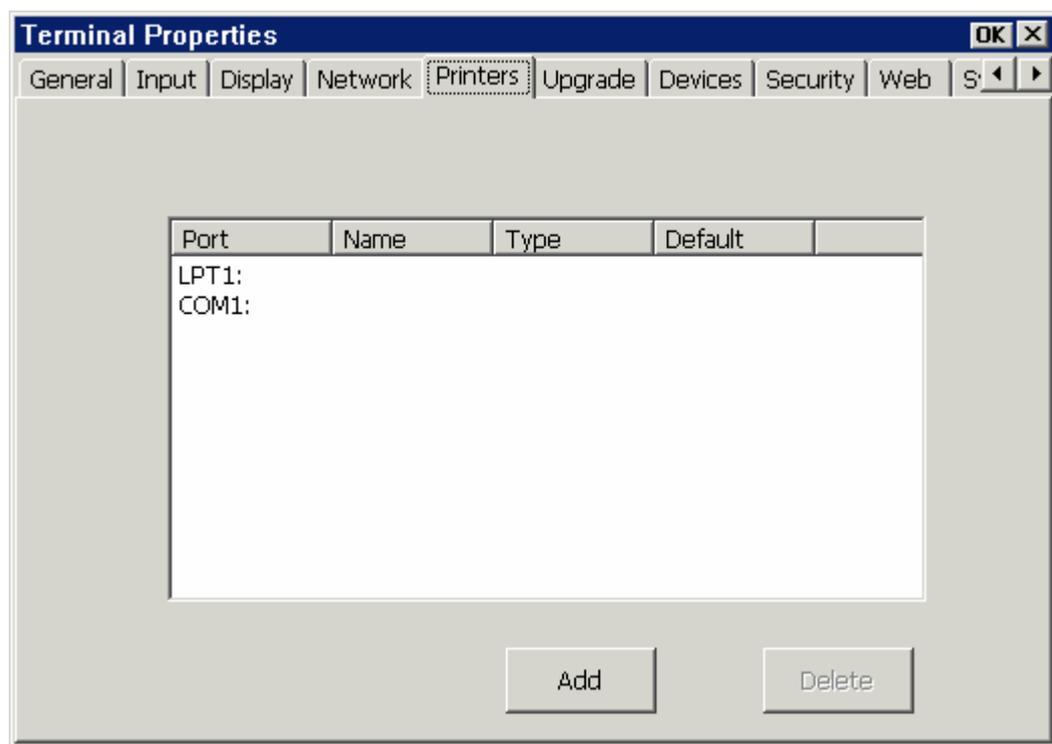
## 6.9 About Tab



The About properties sheet contains copyright information about the terminal as well as the WBT version ID (e.g. E5404B1). This properties sheet is informational. No user interaction is required.

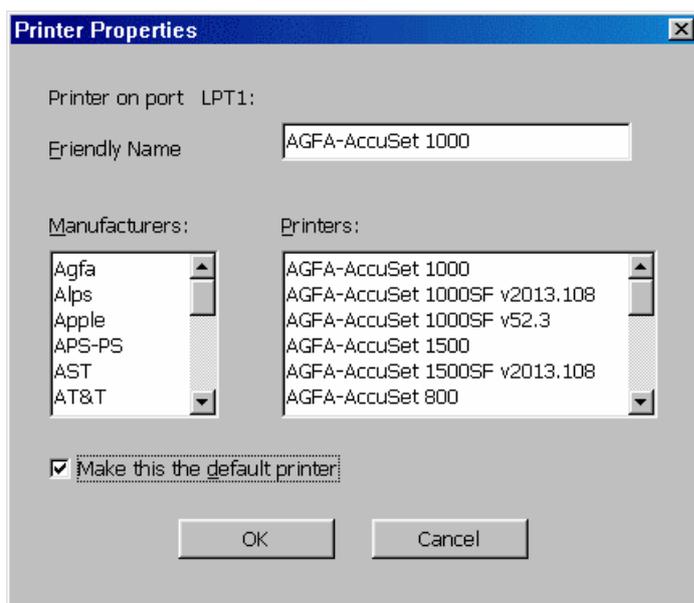
## 6.10 Printers Tab (CE3)

This Tab is present only on CE3 based terminals. For CE.NET products see Terminal Properties/Devices/Printers.



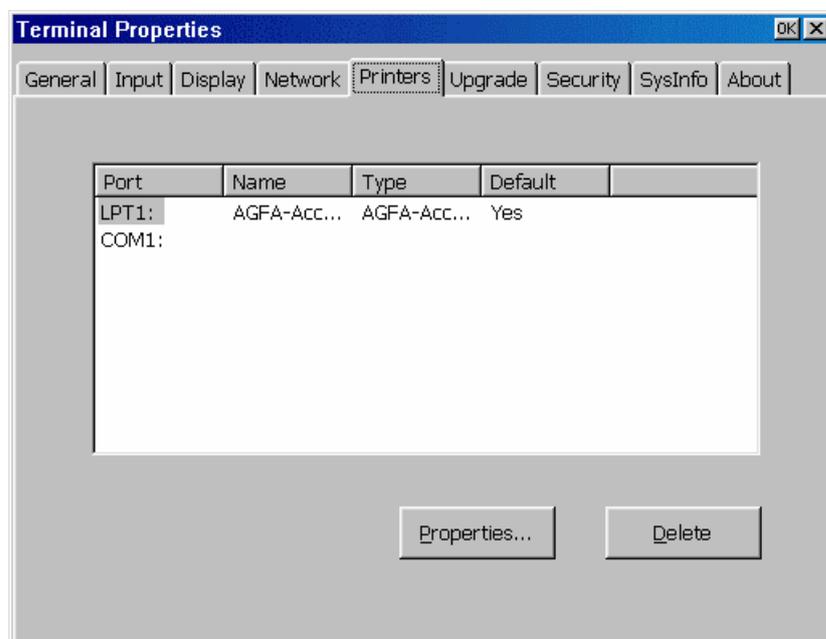
This dialog box allows you to setup a local printer for use by RDP connections. Select the Port to be used. Click **Add** to create a new local RDP printer. Click **Delete** to delete the current local printer.

**Add:**



Select the manufacturer of your printer from **Manufacturers** list. Then, choose the desired printer model from **Printers** list. Give a specified name in Friendly Name field for the selected printer. Click check box of **“Make this the default printer”** to allow the selected one as default printer.

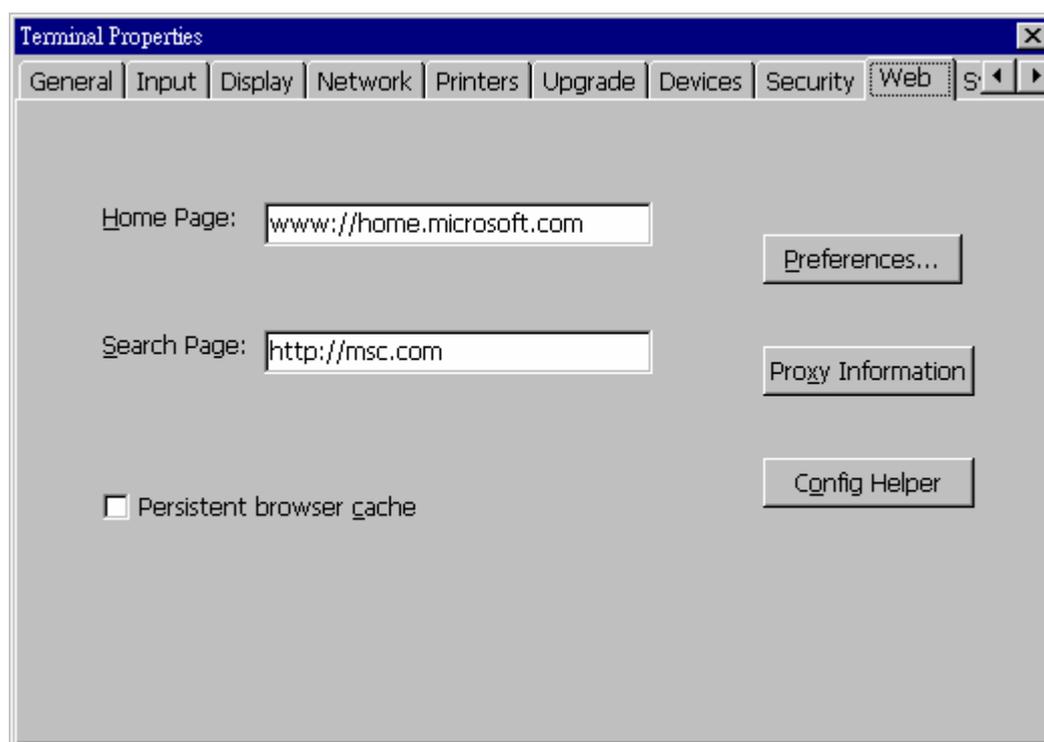
### Printers Properties Sheet (Printer Defined)



Click **Properties** to modify the properties of the current local printer.

## 6.11 Web Tab (CE3, Browser version)

This Tab is present only on CE3 based terminals. For CE.NET based devices see Terminal Properties/Devices/Internet Options.



### Home Page:

The Home page (URL) to display when the browser starts or when you hit the browser Home button.

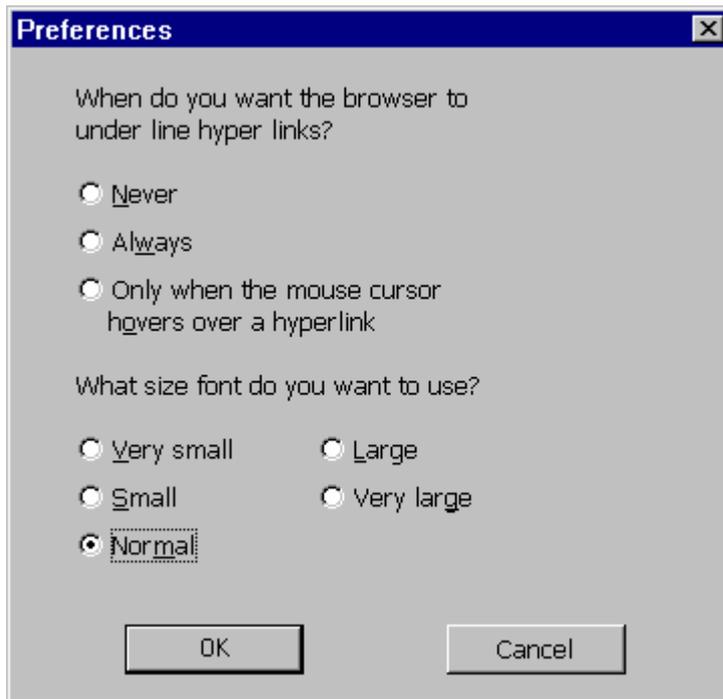
### Search Page:

The Search page (URL) to use when you hit the browser Search button.

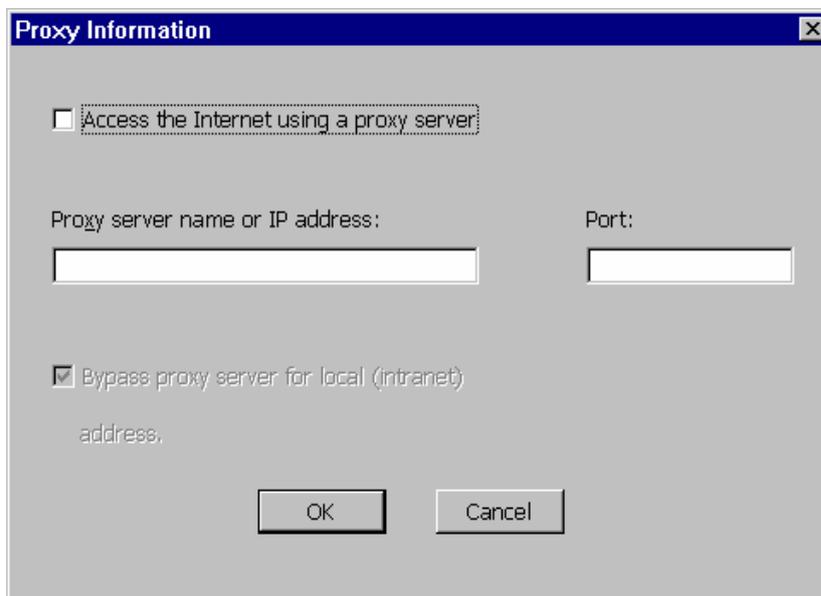
### Persistent browser cache:

Check this option to save information about the pages you have visited. This information can be used to speed up loading when these pages are visited again.

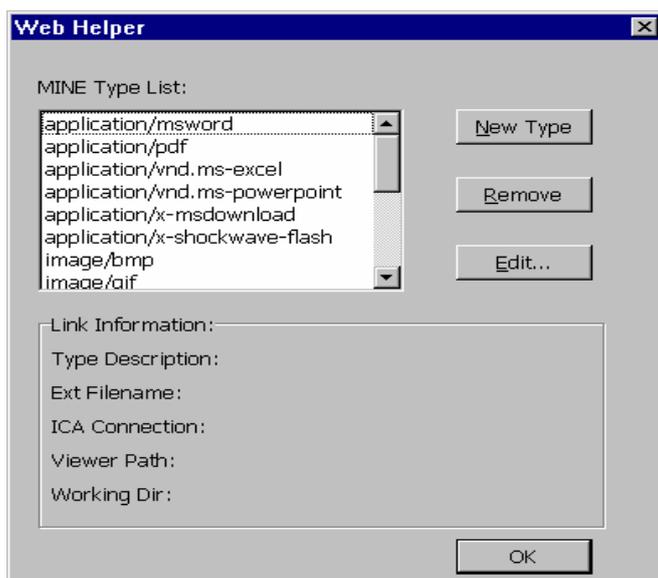
**Preferences:**



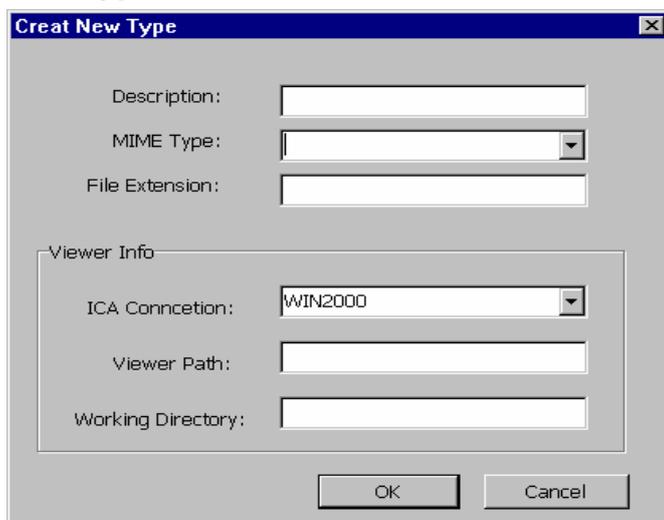
**Proxy Information:**



If your internet connection uses a proxy server, check the Access box and specify the Proxy server name or IP address and the Port number used.

**Config Helper:**

If you have a Citrix (ICA) connection on your network, you can configure how to view various file types. A Citrix session is used.

**New Type:**

Enter descriptive name and file extension. Specify the ICA server name and the path plus working directory to use for the viewer for the specified file type.

See following example (Adobe Reader, .PDF file):

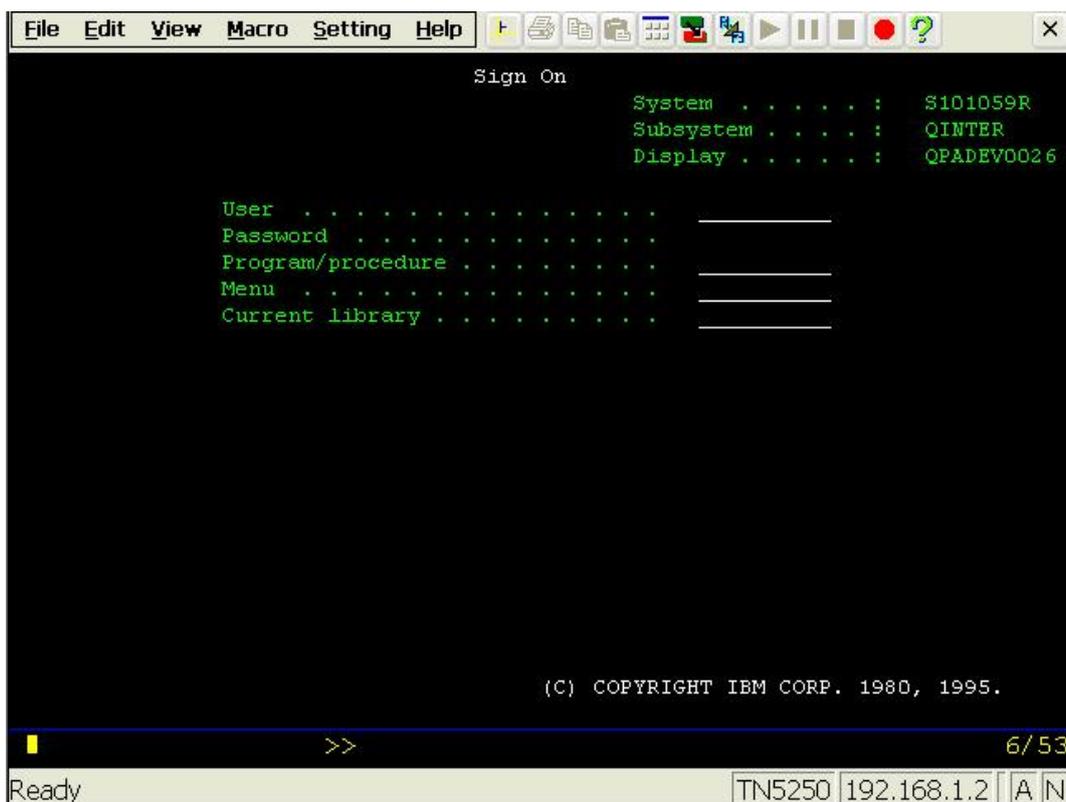
Description = Adobe Reader  
 MIME Type = application/pdf  
 File Extension = .pdf  
 ICA Connection = CITRIX1  
 Viewer Path = acro32.exe

Working Directory = c:\program files\adobe\acrobat 4.0\reader

# Chapter 7 - Terminal Emulation Sessions

## 7.1 Display Session

### Display Screen (TN5250 example)



#### Control bar:

The bar at the top of each display session consists of two sections:

- **Menu bar** has six options: File, Edit, View, Macro, Setting and Help.

The menu options are described in sections 7.1.1-7.1.5.

- **Tool bar** has Icons for (left to right): Ruler, Print, Copy, Paste, Keypad, Color Map, Keyboard Map, Macro Play/Pause/Stop/Record, and Help.

A description of the icons follows.

	Ruler	Click to toggle ruler On/Off. See 7.1.5 for choice of ruler types.
	Associated Printer	When an Associated Printer is selected with TN3270 session setup, this icon will be active. Click it to switch to the associated printer control windows.
	Copy	Copy selected area. See 7.1.2 for use.
	Paste	Paste copied area. See 7.1.2 for use.
	Key Pad	Display Key Pad. See 7.1.1 for use and 7.1.5 for Key Pad configuration.
	Color Remapping	Change colors. See 7.1.5 for its use.
	Keyboard Remapping	See Chapter 6 for different types of keyboard remapping.
	Play	Play Macro - See 7.1.4 for use.
	Pause	Pause Macro - See 7.1.4 for use.
	Stop	Stop Macro recording - See 7.1.4 for use.
	Record	Record Macro - See 7.1.4 for use.
	Help	Display basic information about terminal.

- **X box** - Click to Exit (End Connection).

### Tool Bar Icons:

### Status bar:

There are two status bars displaying at the bottom of each display session.

- **First status bar:**

The right area identifies the cursor position, row (R) and column (C) in the format R/C. The left area consists of status indicators and special indicators (not always displayed). Each of them shows information about your current session and status of the host system.

### Status Indicators:

	The host system is available.
	Keyboard input is inhibited. For TN3270, see TN3270 Input Inhibit
	The keyboard is in insert mode.
	The SHIFT key is down.
	A message is waiting on the host system for the session. (TN5250)

**Special Indicators:**

<b>đ</b>	Diacritic Mode	The terminal is in diacritic mode. Hit the space bar to see the character.
<b>&gt;&gt;</b>	Type Ahead	You can continue to key even if the keyboard is input inhibited. (TN5250 only)
<b>Num</b>	Numeric	Numeric field (TN3270 only)

**TN3270 Input Inhibit Status**

X-system	System lock. The application program locked the keyboard.
X ⌚	Time(Terminal wait). The host needs more time to response to your request.
X ⌚ NUM	Numeric data only
X-f	Minus function
X-s	Minus symbol
X ⌚ >	Too much entered
X ←⌚→	Go elsewhere
X ⌚+?	An invalid diacritical-mark key error
XPROG nnn	Program check. The symbol may appear because the data received is not correct. Please refer to 'IBM 3174 Establishment controller customer problem Determination' for the definition of nnn.

- **The second status line:**

The left side shows Ready or Macros function status. The right side includes five status areas:

1. The session type – TN5250, TN3270, or ASCII
2. Host Address
3. Device name
4. **A** : Caps Lock key is on
5. **N** : Num Lock key is on

The display of this line can be disabled via a View menu option.

**Cursors and Cursor Functions:**

There are generally two cursors - Emulation cursor (Caret) and the Windows mouse cursor. By default, the **right mouse button** can be used to click on various '**Hot Spots**' to select and execute menu number options, execute system function keys listed on the screen, or type a selected word at the Emulation cursor position.

**Local Screen Print:**

TN5250: Key ***Shift+Print*** to print to local attached printer.

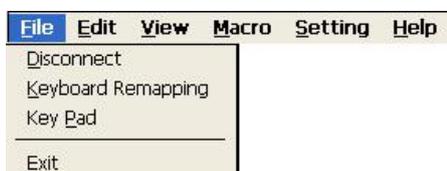
TN3270: Key ***Print*** to print to local attached printer.

ASCII: No local print function is supported.

**Full Screen Mode:**

The session can be configured as ***Full Screen***. This mode may also be set from the View menu. In this mode, the Title Bar and Second Status line are not displayed and the mouse cursor is not displayed. The screen appears as if it was a 'green screen' dumb terminal with input only from the keyboard.

In this mode you will need to use the Windows key sequences to access the Menu options - Alt+<1st letter of menu name>+<underlined letter of option>. For example key Alt+F+x to take the Exit option in the File menu. You can also double click the left mouse button to return to normal screen mode from Full Screen mode.

**7.1.1 File Menu****Disconnect / Connect:**

Choose ***Disconnect*** to disconnect the session from the host. The connection remains active and ***Connect*** replaces ***Disconnect***.

*Keyboard procedure: ALT+SHIFT+DELETE or ALT+F+D*

**Disconnect Confirm Dialog Box**

*Keyboard procedure: ALT+Y for Yes or ALT+N for No*

**Keyboard Remapping:**

See Chapter 6 for the **Keyboard Remapping** screens.

*Keyboard procedure: ALT+F+K*

**Key Pad:****Key Pad Dialog Box**

Attn	SysReq	Home	ErInp	ErEOF	Roll Up
Roll Dn	Test	Clear	Help	Dup	Fld Exit
Field +	Field -	New Ln	Reset	Enter	F1

The **Key PAD** allows you to access frequently used keyboard functions or macros from a convenient pop-up KeyPAD. You can position and size the display. Click top left X to remove this display. To edit the KeyPad, see Settings Menu (Key Pad).

*Keyboard procedure: ALT+F+P*

**Exit:**

Click **Exit** to end the connection. Screen will show the next active session or the Terminal Manager dialog box.

*Keyboard procedure: ALT+F+X*

**7.1.2 Edit Menu****Copy:**

You can use this function to copy data from one session or screen into another. First select the area to be copied.

To select the area to be copied using the mouse, press the left mouse button at a corner

of the area to be copied and drag the mouse cursor to highlight the area.

To select the area to be copied using the keyboard use: ALT+SHIFT+(Arrow keys)

*Keyboard procedure: ALT+E+C*

**Paste:**

This option can place the data that has been copied to the current cursor position.

*Keyboard procedure: ALT+E+P*

**Select All:**

This option is used to select all data so you can copy the entire screen. The second status bar will not be selected.

*Keyboard procedure: ALT+E+A*

### 7.1.3 View Menu



#### **Status Bar:**

Use this option to toggle (on/off) display of the status of the current session in the bottom line of the screen.

*Keyboard procedure: ALT+V+S*

#### **Full Screen:**

Use this option to toggle between Full Screen and Normal Screen mode.

*Keyboard procedure: ALT+V+F*

## 7.1.4 Macro Menu



Macros are used to record and play back frequently used keystrokes.

A macro can also be specified to automatically run after the connection is started.

Macros are stored by name under session type (5250/3270/ASCII); and all sessions of the same type have access to macros created by other sessions of that type.

### Record:

To record a macro, place the cursor in the desired position on the screen, then click the **Record** button, start typing the characters, command keys, action keys, etc, when finished, click the **Stop** button.

*Keyboard procedure: ALT+M+R or  
Record (122key keyboard) or  
ALT+F4 (Enhanced keyboard)*

### Pause:

Pause is used to allow user input during a playback sequence or to insert a second time delay. While recording a macro, select Pause to allow non-recorded user input. The name Pause changes to Continue. Select Continue to resume recording the macro.

*Keyboard procedure: ALT+M+U or press the PAUSE key*

*To Continue, press: ALT+M+C or the PAUSE key*

When Pause is active, you may specify a 1 to 9 second delay by typing *CTRL+ALT+[1-9 on number pad]*. Pause is then set inactive. This is useful primarily in TN3270 emulation to allow for screen transition (unbind state). If keystrokes are lost during screen transition, then a delay must be used.

**Stop:**

Stop ends the Record sequence. After selecting Stop, you will be prompted to enter a file name or cancel the record process.

*Keyboard procedure: ALT+M+S or  
Record (122key keyboard) or  
ALT+F4 (Enhanced keyboard)*

**Save Macro Dialog Box**

Enter the file name you want the macro saved as. Type the description of the macro for future reference. Assign the macro to a function key - required if keyboard used to Play back the macro.

**Macros:**

Click **Macros** to display a list of all macros and their description. This option allows you to open a pre-recorded macro for use when you hit the **Play** button. Note that the default is to run the macro after you open the file so be sure that you are ready to play the macro you are selecting. If you are not ready, click "**Run after opened**" so the macro is ready to be played, but will not play immediately.

**Open Macro Dialog Box**



To automatically run a macro after the connection is started, select a macro from the list and check "**Run after connected**".

### Play:

Play is only active after you have selected a macro from the Macro list. This option plays back the pre-recorded key sequences in the macro file previously selected.

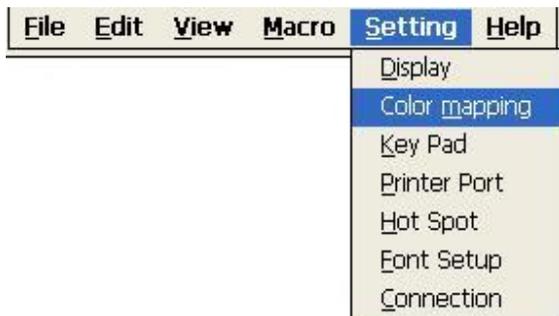
*Keyboard procedure: ALT+M+P or  
PLAY (122key keyboard), Fn or  
ALT+F5 (Enhanced keyboard), Fn*

### Quit:

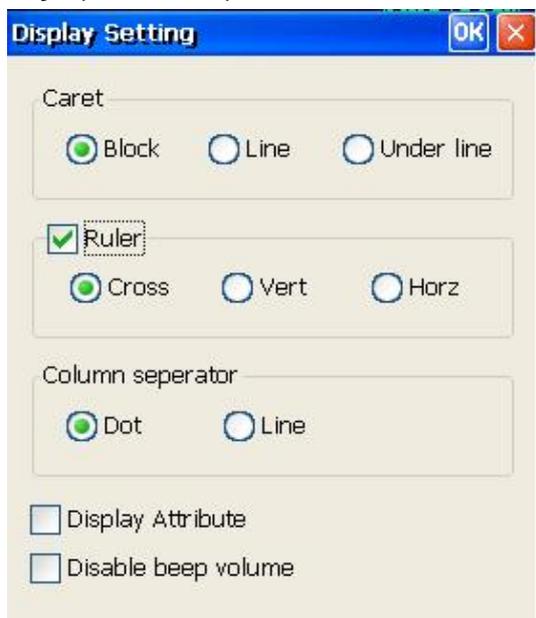
This option is used to terminate a macro, which is playing. This option is only available if a macro is currently being played back.

*Keyboard procedure: ALT+M+Q*

## 7.1.5 Setting Menu



### Display: (ALT+S+D)



Display controls the cursor type and whether there is a ruler line on the caret.

#### Caret:

Caret (Cursor) type defaults to Block. The other two selections are Line and Under Line.

#### Ruler:

If you select Ruler you can select one of three ruler lines: Cross, Vertical and Horizontal

*Note: To toggle ruler on/off key Rule (122key keyboard) or ALT+PageDown (Enhanced keyboard).*

#### Column separator:

This option defaults to Dot and the other type is Line separator.

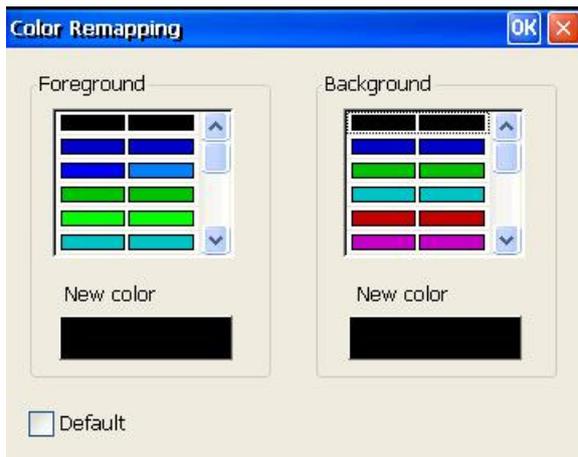
**Display Attribute:**

If selected, you can see each attribute code on the current session screen.

**Disable Beep Volume:**

Select to disable Beep.

**Color Mapping: (ALT+S+m)**



**Foreground:**

This box allows you to modify the foreground color.

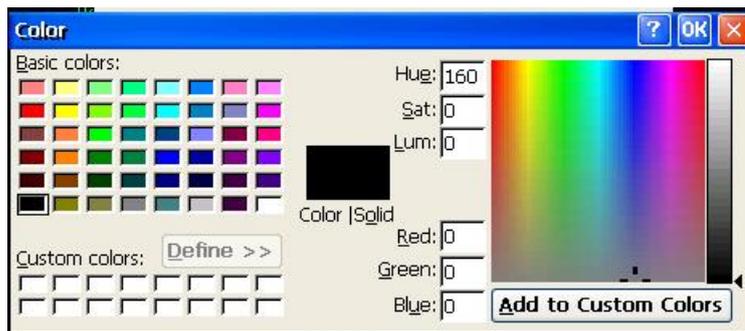
1. Select the old color in the left color list.
2. Click **New color** button to select desired color in the Color Panel shown below.
3. If you need different color from the basic colors, click **Define** to create a new color using the Define Advanced Color Panel.
4. Click OK. The new color will display on the screen.

**Background:** Follow the Foreground procedure to modify the Background color.

### Color Panel Dialog Box



## Define Advanced Color Panel Dialog Box



## Key Pad: (ALT+S+P)

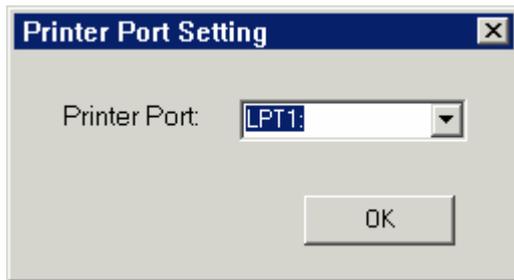


This option allows you to access frequently used keyboard functions or macros from a convenient pop-up Key Pad.

Select the **KeyPad Size** in terms of the number of Columns x Rows. Values range from 1x1 to 9x4.

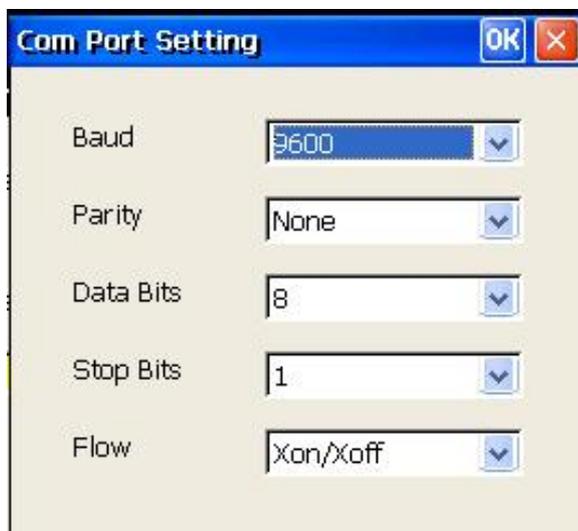
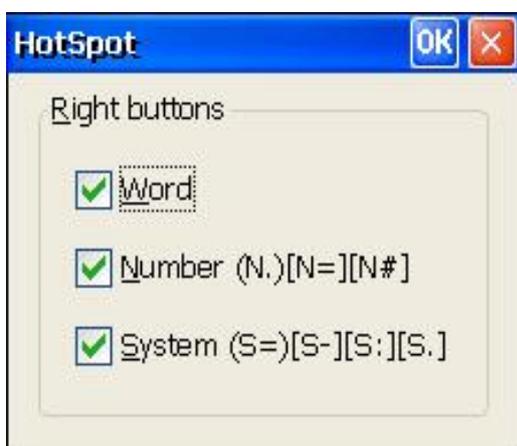
Click on a cell in the matrix displayed. The Name, if any, will display in the **KeyPad** field.

Select the **Key Type**; either **System** key or **Macro** name. The list of system keys or defined macro names will be displayed. Double click the desired entry for the specified cell.

**Printer Port:** *(ALT+S+P)*

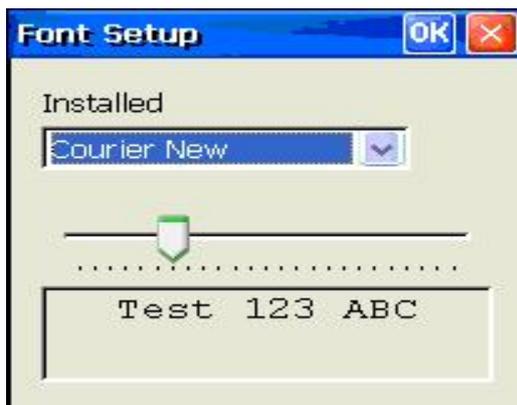
Select printer port: **LPT1:** (default) or **COM1:**

If **COM1** is selected, a **Port Setting** button is displayed in the above dialog. Clicking this button will display the **Com Port Setting** dialog as shown below.

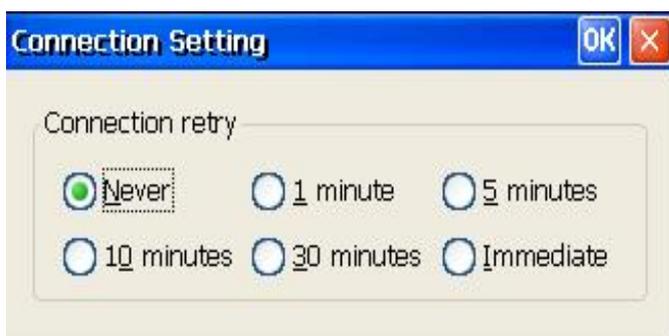
**Hot Spot:** *(ALT+S+H)*

By default, the **right mouse button** can be used to click on various 'Hot Spots' to select

and execute menu number options, execute system function keys listed on the screen, or type a selected word at the Emulation cursor position.

**Font Setup:** (ALT+S+F)

Select desired font. Courier New is the default. Other fonts may be loaded as described in Appendix C.

**Connection:** (ALT+S+C)

When an emulation session is disconnected from the Host, an attempt can be made to automatically reconnect that session after a specified period of time. The default setting is **Never** to disable this feature. Retry time periods of **1**, **5**, **10**, or **30** minutes can be set. If **Immediate** is selected, an attempt is made to immediately reconnect the session.

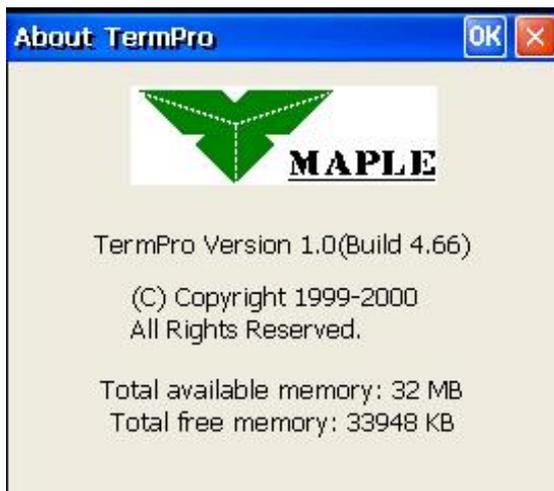
A TN5250 session, manually disconnected by the user (e.g. File-Disconnect) will not be retried. The TN3270 and ASCII sessions, if so disconnected, will be retried.

### 7.1.6 Help Menu



Click **Help** then **About** to display basic information about the terminal.

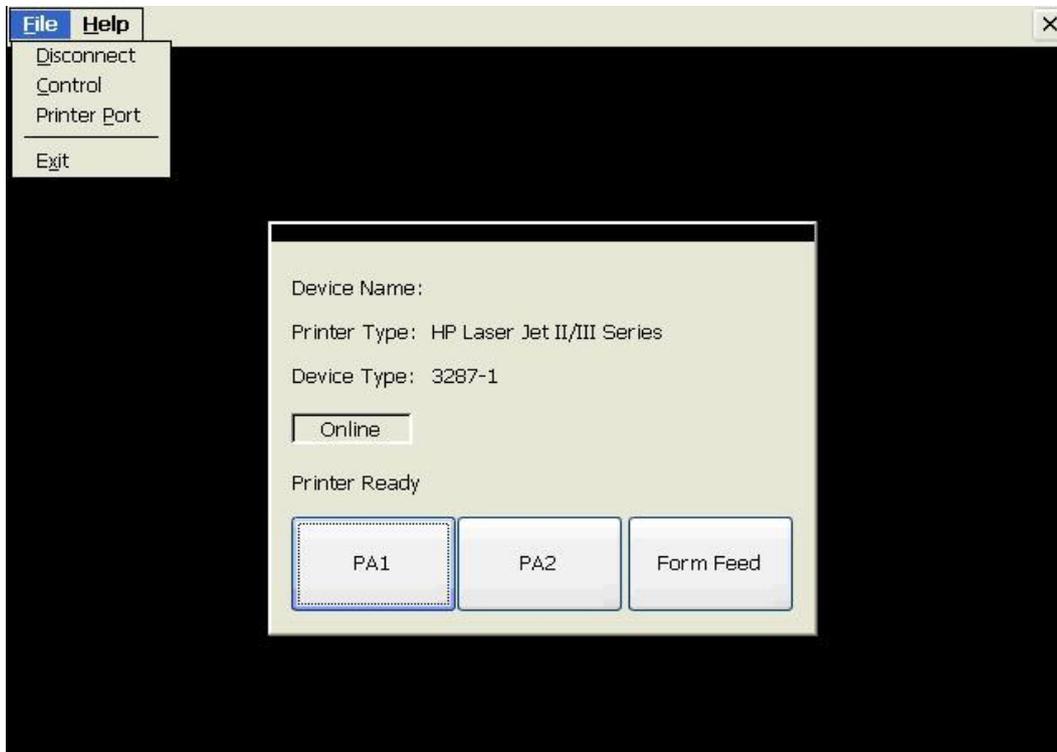
*Keyboard Procedure: ALT+H+A*



Click **OK** (or press ENTER) to continue.

## 7.2 Printer Session

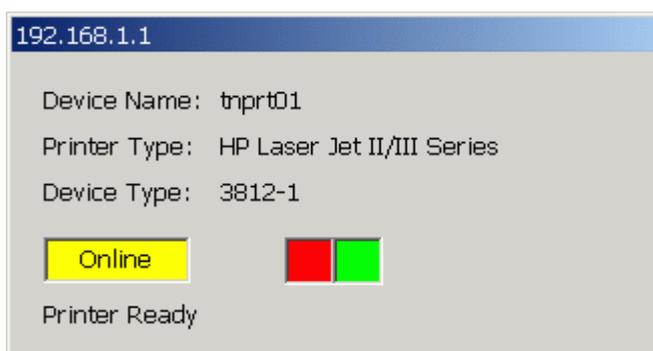
### Printer Session Screen (TN3270 Printer example)



This dialog box means that the printer is in the ready status to connect to the host.

- **Online:**  
When the printer session is active, the 'Online' button will become yellow.
- **PA1/PA2/Form Feed: (TN3270 only)**  
Click the button to send the named code to the server.  
Using the keyboard, Tab to desired Button and press Enter.

### TN5250 Printer Session Status Example



Online and printing (Red/Green boxes alternate).

## 7.2.1 File Menu

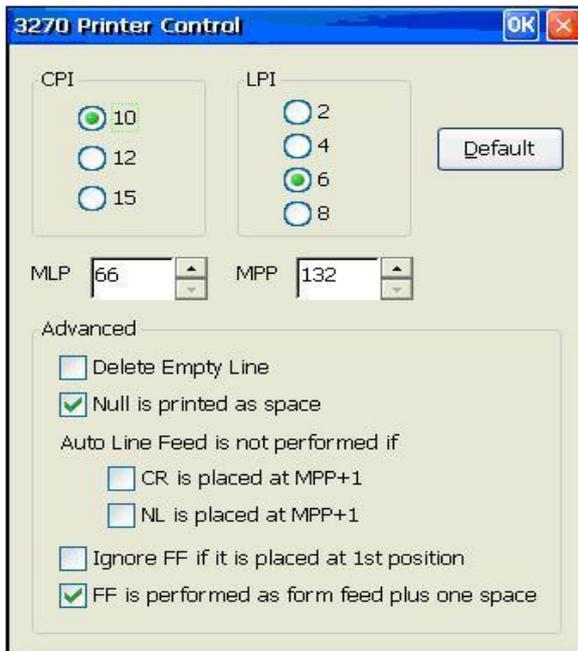


**Disconnect:** (*ALT+SHIFT+DELETE or ALT+F+D*)

Select **Disconnect** to disable the printer session from the host. The connection remains active and **Connect** replaces **Disconnect**.



**Control:** (TN3270 only) (*ALT+F+C*)

**CPI:**

Characters Per Inch. The default is 10 CPI.

**LPI:**

Lines Per Inch. The default is 6 LPI.

**MPL:**

Maximum Print Lines per page. The range is from 1 to 255. The default is 66.

**MPP:**

Maximum Print Position. The range is from 1 to 255. The default is 132.

**Delete Empty Line:**

Selecting this function will delete the whole line if it includes only unprintable characters. Unprintable characters include null, control codes. But space (X'40) is printable character. By default this function is disabled. This function is valid only for DSC (LU3 with 2 and 3 bit of WCC is not '00').

**Null is printed as space:**

This function is valid only for screen print DSC(LU3).

**Auto Line Feed is not performed if****1. CR is placed at MPP+1:**

If this item is selected and MPP+1 has CR, the Auto Line Feed will not be performed. This function is valid only for DSC (LU3 with WCC's '00' in 2<sup>nd</sup> and 3<sup>rd</sup> bit).

**2. NL is placed at MPP+1:**

Selecting this item will cause NL on MPP+1, the Auto Line Feed will not be performed. This function is valid only for DSC (LU3 with WCC's '00' in 2<sup>nd</sup> and

3<sup>rd</sup> bit).

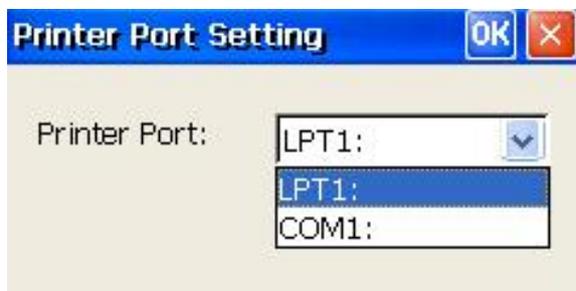
**Ignore FF if it is placed at 1<sup>st</sup> position:**

Selecting this item in LU3, the system will ignore FF at 1<sup>st</sup> position in first line.

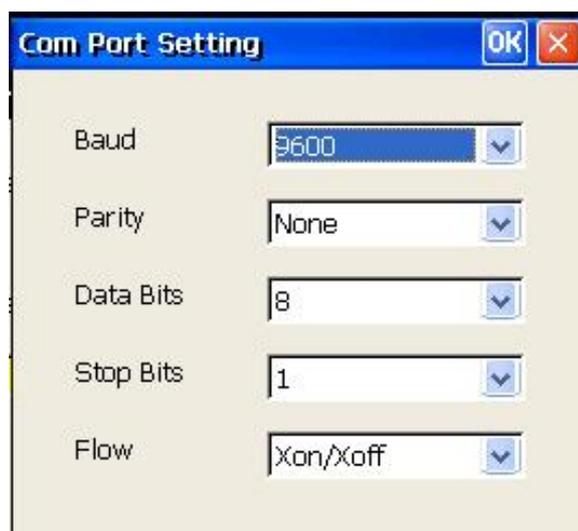
**FF is performed as form feed plus one space:**

When this item is selected, a FF code will cause form feed be performed. The 1<sup>st</sup> line of the next page will be a space and printing starts at the 2<sup>nd</sup> position of the 1<sup>st</sup> line. Clear this item and printing starts at the 1<sup>st</sup> position of the 1<sup>st</sup> line of the next page. This function is valid only for screen print and LU3. By default this function is enabled.

**Printer Port: (ALT+F+P)**



If **COM1** is selected, a **Port Setting** button is displayed in the above dialog. Clicking this button will display the **Com Port Setting** dialog as shown below.



## 7.2.2 Help Menu



Click **Help** then **About** to display basic information about the terminal.

*Keyboard Procedure: ALT+H+A*



Click **OK** (or press ENTER) to continue.

# Chapter 8 - Terminal Firmware Upgrade

The CE Client uses the FTP protocol to access and download new firmware on to the flash memory of the terminal. The update can be started manually via the Upgrade panel of the Terminal Properties screen, via the SNMP Administrator software or automatically upon boot if the proper DHCP parameters were set.

## 8.1 Prepare FTP Server

The files for the flash update must be located on an FTP server on your network. The single file is a compressed file which must be expanded then placed in a known location on your FTP server.

An FTP server is provided with Microsoft Internet Information Server. If you have IIS running on a server, check if the FTP service is started and identify your "FTP Root". Place the files in the FTP root or a folder under the FTP Root.

*Note: To check if your FTP server is configured properly, open a browser and type **http://<FTP server IP address>** to see the list of folders under the FTP root.*

The IBM AS/400 FTP server is supported. Please refer to Appendix A for configuration instructions.

Unix, Linux and other (RFC compliant) FTP servers are supported as well. Refer to your system documentation on configuring your specific FTP server.

## 8.2 Update Procedure

Press **F2** and click the **Upgrade** tab to display the Upgrade Properties Sheet.

### Upgrade Properties Sheet

The screenshot shows a window titled "Terminal Properties" with a tabbed interface. The "Upgrade" tab is selected. The main area contains the following elements:

- SNMP Manager IP: A text box containing "0 .0 .0 .0".
- Manually Upgrade
- FTP Server: A text box containing "0 .0 .0 .0".
- Pathname: An empty text box.
- User Name: An empty text box.
- Password: An empty text box.
- Upgrade Now!: A button at the bottom of the sub-dialog.

#### SNMP Manager IP:

If specified, upgrade status information is transmitted to the device at the IP address that is running the MAPLE WBT SNMP Administrator (see 8.3)

#### Manual Upgrade:

The default is *Manually upgrade*. Enter the update information in the four fields required.

#### FTP Server:

FTP server IP address

#### Pathname:

Enter the directory of the update files under the FTP server root.

For example: /et5000/e0317

#### Username:

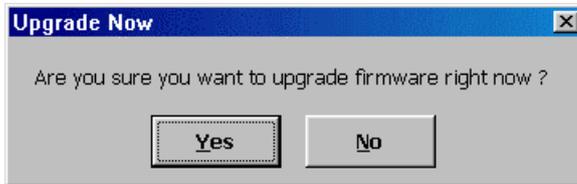
Enter the valid username (if FTP security requires); otherwise leave blank

#### Password:

Enter the valid password (if FTP security requires); otherwise leave blank

Click ***Upgrade Now!*** To start update

### Upgrade Now Dialog Box



When you Click ***Upgrade Now!*** button, the confirm dialog box will display.

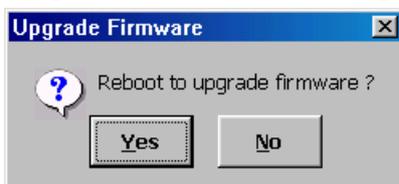
When the upgrade procedure is finished, the system will ask to be restarted, click Yes.

To complete update of the Windows CE Registry, press F2 at the Session Manager screen, select the **General** Tab, check **Reset the terminal to factory-default settings**, then press Enter. The terminal will re-boot. You can begin to use the terminal; or reset to defaults again (required when going from CE2.0 to CE3.0).

### Auto Upgrade/Configuration initiated via custom DHCP tags (See Appendix B):

The CLIENT may be automatically updated/configured if you configure DHCP to pass custom tags to the client. When powered on, this will occur when a newer version is detected. To use this feature, in **Network Properties** insure that ***Obtain an IP address from a DHCP server*** is enabled and that all FTP options are enabled under ***Advanced DHCP***. The DHCP options must be setup as described in Appendix B.

### Upgrade Firmware Dialog Box



Click **Yes** to reboot WBT for upgrade or wait for timeout.

## 8.3 SNMP Manager Procedure

The CE firmware can be updated from a centrally located PC/Server running the Maple WBT SNMP Manager.

Please see the SNMPadmin manual for complete operating functions/details for updating CE Thin Clients.

## Chapter 9 - Web Browser

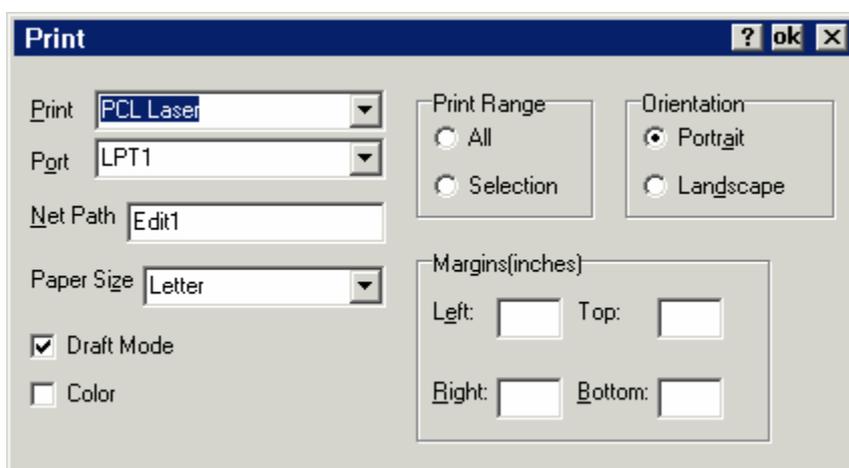
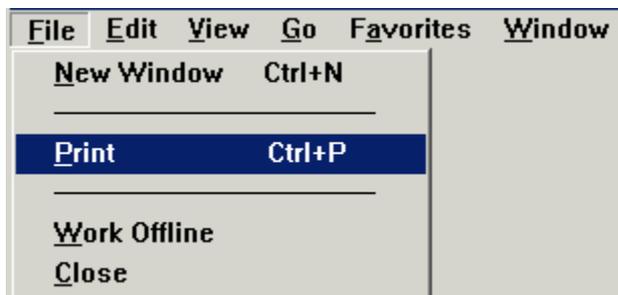
An example browser screen is shown below.



Operation is essentially the same as running an IE browser on a Windows PC. Refer to chapter 6.6 (Internet Options, CE.NET) or 6.11 (CE3) for configuration details.

The Menus are similar; but some are significantly different. The Menus are shown below with differences highlighted.

## 9.1 File Menu



### Port:

LPT1: (parallel printer port)  
 LPT2: (USB printer if attached)  
 COM1:57600  
 COM1:9600  
 IRDA  
 Network

### Net Path:

If **Port = Network**, specify the network printer path (UNC of printer):

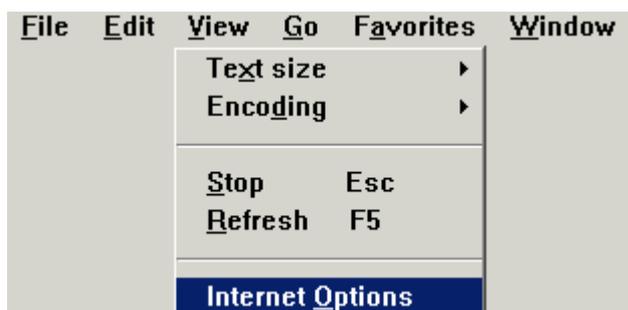
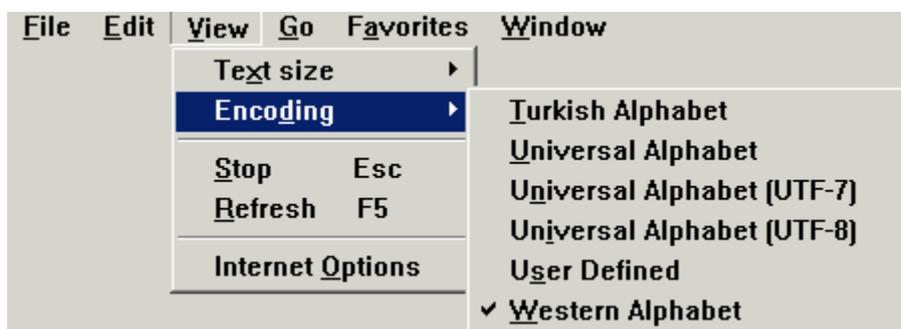
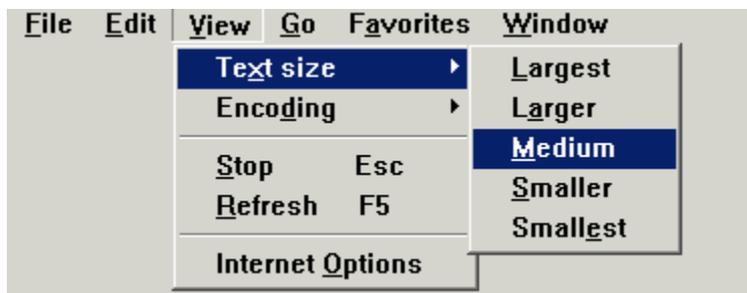
[\\YOURSERVER\YOURPRINTER](#); e.g. \\wrsrasserver\hplj2200

Note: IP address is not supported in place of server name.

## 9.2 Edit Menu



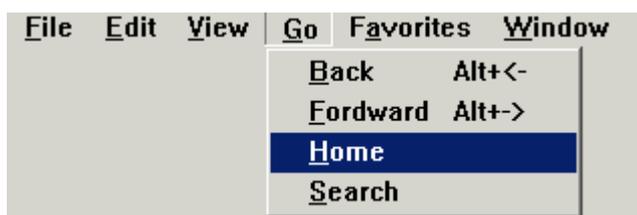
### 9.3 View Menu



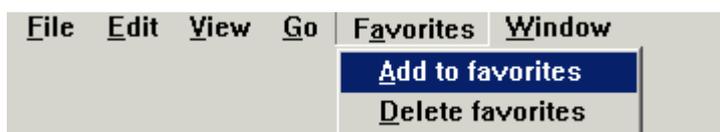


See section 6.9 for configuration details. The Internet Options menu option will not be displayed if Security is enabled and the user is not the Administrator.

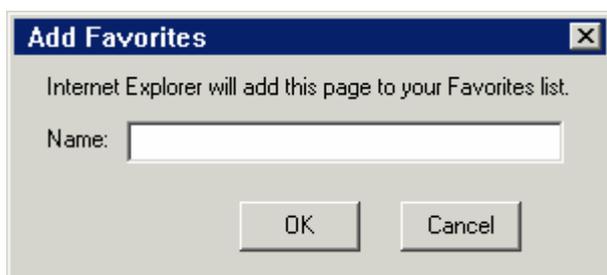
## 9.4 Go Menu



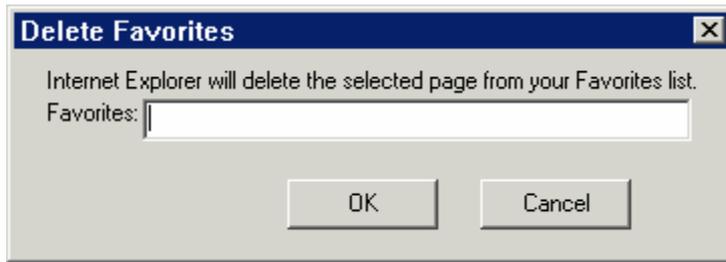
## 9.5 Favorites Menu



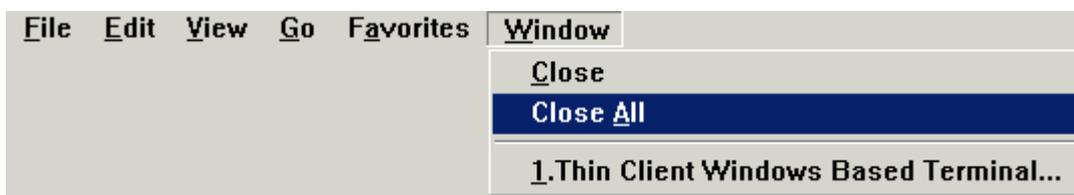
The list of favorites is shown.



The **Name** shown may be edited.



## 9.6 Window Menu



# Chapter 10 - Wireless Network Configuration

**IMPORTANT NOTE:** *This chapter refers to the wireless configuration for the ET5000n CE4 based thin client. For information on the MT series thin clients using CE5, refer to Appendix D.*

## 10.1 Wireless Networking Concepts

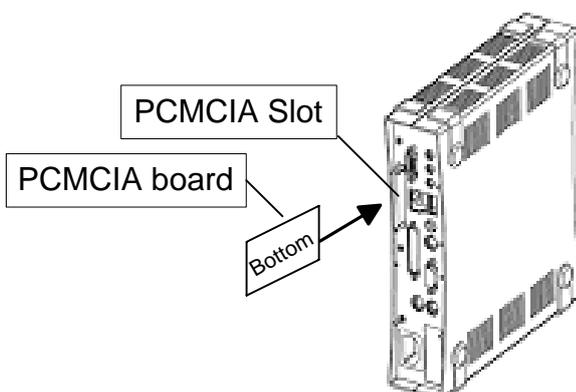
The ET5000n (example) supports 802.11b wireless networking using Cisco 350 series PCMCIA adapters. Additional 802.11b vendor support will be added to the terminal as drivers become available.

When using the wireless adapter, the ET5000n can connect to your wireless infrastructure and participate in you LAN. The wireless standard 802.11b supports up to 11Mbit data rate that provides performance equal to most wired implementations.

**IMPORTANT NOTE:** *Wired and wireless Ethernet connections should NEVER be connected simultaneously. Do not connect both wired Ethernet and have the 802.11b wireless PCMCIA card inserted at the same time.*

## 10.2 Install Wireless PCMCIA Card

After turning off the terminal, insert the wireless PCMCIA card into the PCMCIA slot in the back of the ET5000n. The card must be inserted with the bottom of the PCMCIA card facing the Ethernet port and the top of the PCMCIA card facing the plastic bezel of the terminal.



## 10.3 Configure Wireless Settings

The wireless settings are configured via the **Network** program located in the **Devices** Tab of the **Terminal Properties** panel. SSID, WEP and other wireless security settings are set within the configuration screens that follow.

If your organization broadcasts the SSID and does not have WEP enabled (no security enabled on your network), there is nothing to configure. The terminal will auto-detect the network and does not require configuration.

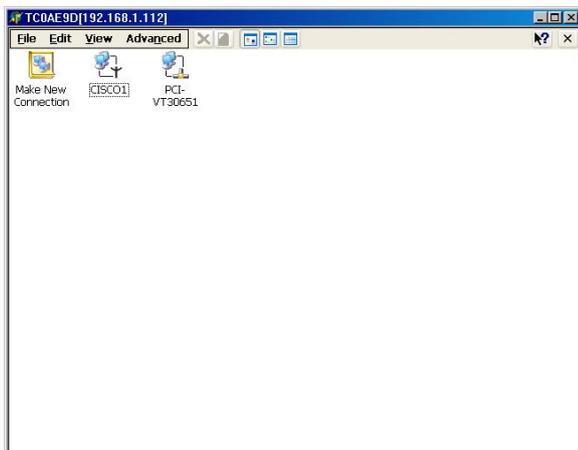
To configure your wireless settings, start at the **Terminal Manager** screen, then press F2 to go to the **Terminal Properties** panel. Click the **Devices** tab then double click the **Network** icon.

### Terminal Properties "Devices" Panel



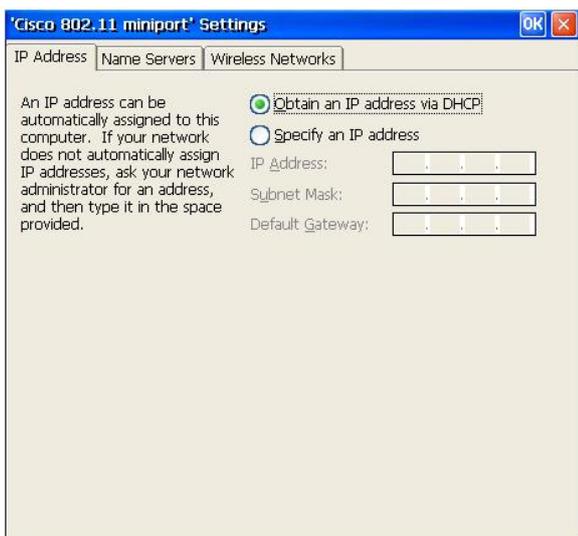
After you double click the Network icon, you will be presented with the Network Connections Panel. If the wireless card has been detected, it will be listed among available network connections. Double click the icon labeled **"Cisco1"**.

## Network Connections Panel



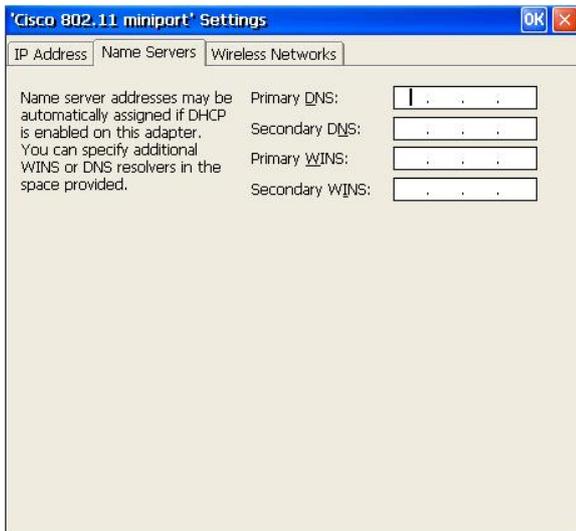
From within the "**Cisco 802.11 miniport Settings**" **IP Address** tab, you can manually set the IP address the wireless card will use or use DHCP

## IP Address tab



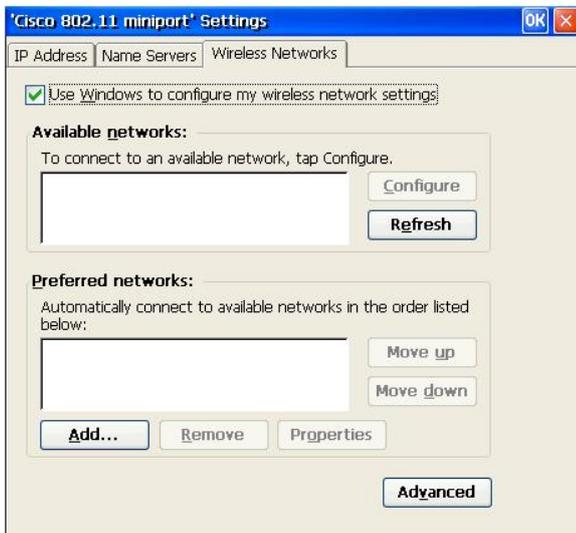
From within the **Name Servers** tab, you can manually specify your DNS and Wins servers if you are not using DHCP.

## Name Servers tab



From within the **Wireless Network** tab, you can select an access point to associate with, if the SSID broadcast is enabled on your Access Points. If SSID broadcast is not enabled, click the **Add** button under the **Preferred Networks** section.

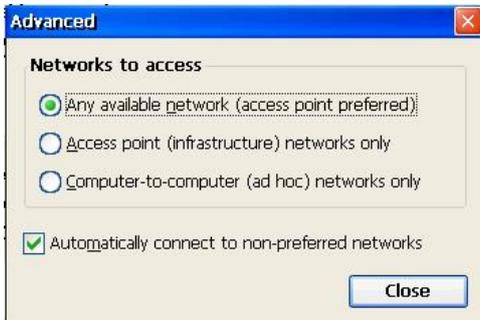
## Wireless Networks tab



From within the **Wireless Network** tab, you can specify the type of wireless network in your environment. Businesses normally only use Access Point based networks. The default setting "Any available network (access point preferred)" is sufficient for most applications. You can specify "Access point (infrastructure) networks only" to add a layer of additional security if desired. The option "Automatically connect to non-preferred networks" is only

used in a roaming application with all Access Point security disabled. When complete, click the **Close** button to save your settings.

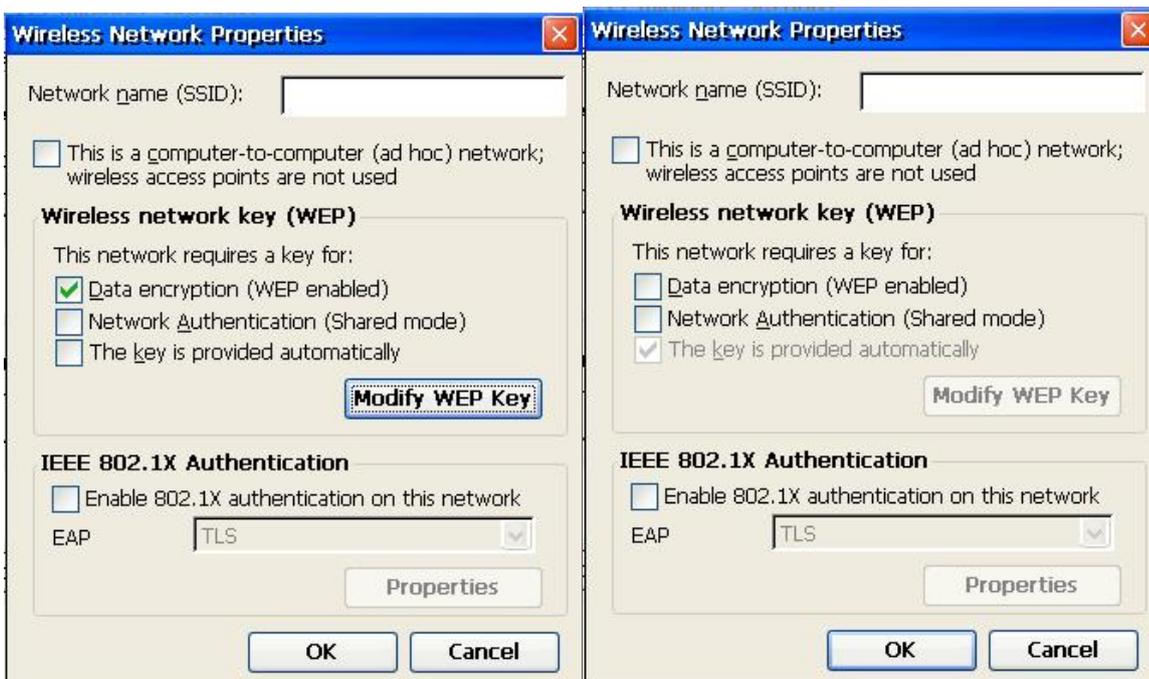
### Advanced Network Panel



From within the **Wireless Network Properties** screen you can specify your SSID, WEP and 802.1x settings. If you use WEP and specify your WEP settings manually, un-select the check box **"The key is provided automatically"** then click the **Modify WEP Key** button.

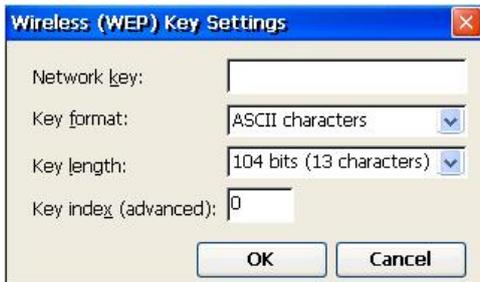
The **WEP Enabled** setting on this panel is set automatically based on the WEP setting detected on your Access Point. If WEP is enabled on your access point, the **WEP Enabled** option is checked, and is not checked if it is disabled.

### Wireless Network Properties



At the **Wireless (WEP) Key Settings** panel, enter the WEP key(s) used within your network. The key settings can be entered as hex or ASCII characters and accept values of 40 or 104 bits.

### Wireless (WEP) Key settings

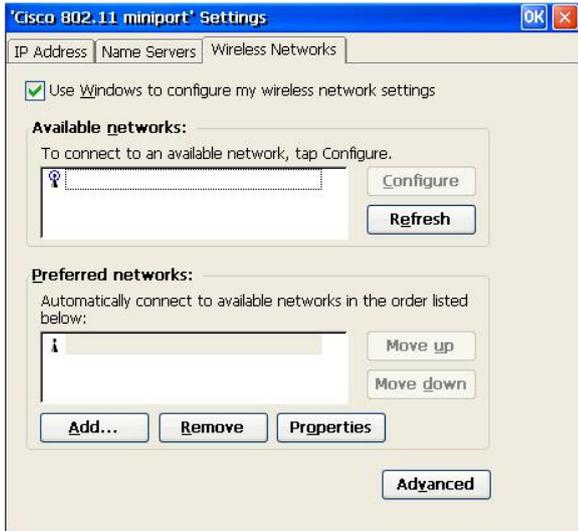


After all configuration settings have been entered, click **OK** in the top right corner of the "**Cisco 802.11 miniport Settings**" panel to save your settings and close the panel. Restart the terminal to initialize the settings that were just saved.

## 10.4 Wireless Communication Problems

If you are unable to connect to the network and receive the error message "Access point could not be found" restart terminal to try again", this indicates that the settings entered did not allow the terminal to associate with an access point or there is no access point within radio range.

- If the settings are known to be correct and access points are functioning normally, accept the option to restart the terminal and allow the terminal to attempt to associate again.
- Confirm the wireless security settings for your network, re-enter the settings in the network tab
- Verify the signal strength within the area the terminal is being used
- Attempt to place the terminal (PCMCIA antenna) in an area which would not obscure the signal
- Select the Refresh button from within the "**Cisco 802.11 miniport Settings**" panel and determine if an antenna icon appears in the "Available Networks" or in the "Preferred Networks" window. If there is a blue ring around the top of the antenna icon, the connection is established



## Appendix A - AS/400 FTP Setup

The following instructions will assist you in setting up the AS/400 FTP server so it can be used for "Flash Update" of the ET. You must have CA/400 (or equivalent software) running on a PC and Security Officer authority to complete these steps.

### Please Note:

*There are a number of changes, which will be made to your current AS/400 FTP server, which may have security consequences and are entirely your responsibility. Please be sure you are familiar with any security risks these changes may create.*

The update file is a "self extracting zip file". When you execute this file, it will expand into multiple files. Put the self-extracting zip file in a working directory on a PC with client access and execute the file. The file will expand into multiple files. The file names are:

<b>MANIFEST.DUB</b>	Version control file and manifest of BIN files
<b>FILE_XXX.BIN</b>	<b>xxx</b> = file sequence number for flash image firmware

**CAUTION:** All files are controlled as a group! When you are updating or changing the files in the created directory in the AS/400 IFS, be certain that all files are replaced as a group.

1. On a terminal or emulated terminal session, create a directory (e.g. E5420 for the version number) in the AS/400 IFS by entering the following command :  
====> CRTDIR DIR('E5420')
2. On a PC running CA/400, copy the Flash Update files (which you obtained from Maple) to the AS/400 directory: e.g. **/E5420**
  - a) Open two copies of Windows Explorer
  - b) Select the directory which contains the new Flash Update files in the first frame
  - c) Select the directory on the AS/400 in the second frame
  - d) Drag each of the Flash Update files to the directory on the AS/400

**NOTE:** When specifying the directory in the Update section on the Client be sure to use the forward slash (/) character in front of the directory name. DO NOT USE the back slash (\) character. For example, the path should be entered as: /E5420

Please refer to Chapter 8 and follow the "Manual Upgrade" procedure to perform the flash update for the Client.

## Appendix B - AutoUpdate/AutoConfiguration

### AutoUpdate / AutoConfiguration Setup & Use

The ET, with access to a DHCP server and an FTP server, can power on and automatically update its firmware version and/or its configuration if newer objects are available on the FTP server. In addition, DHCP can provide various RDP/ICA connection parameters.

*Note: See SNMP User Guide for more information on building and preparing a configuration image.*

### DHCP Extended Options

Options 206 through 209 are defined as FTP AutoUpdate/Config options.

The ET firmware files are can be retrieved from the WEB or accessed via E-mail. The Configuration files are generated using the *WBT SNMP Administrator* program

---

**Important Note:**

All values are defined as "**string**" type values!

---

**206** *FTP Server:* The IP address or Name of the FTP server to be used for Auto setup.

**207** *FTP Path:* Path name (e.g. /etauto) to the Auto setup directory containing the firmware version update files (manifest.dub & associated '.bin' files; some 6MB) plus the configuration files (SnmpAutoConfig.sac & associated

'.bin' file; some 240KB).

**208** *FTP User Name:* User sign on name (if required)

**209** *FTP Password:* Sign on password (if required)

Options 200 through 205 are Terminal Server connection options (RDP & ICA):

**200** Remote servers: Enter host name or IP address for the terminal servers. The entry format is as follows:

<RDP:name1,name2\host;ICA:name1,name2\host address>

-or-

<RDP:\* \host;ICA:\* \host address>

*where:*

- "host" can be the IP address or host name.
- "name" is the session name in the Terminal Manager of the Client
- "RDP:" and "ICA:" identify the connection type

*Examples:*

1. 192.168.1.1

- all ICA and RDP session will connect to 192.168.1.1

2. <RDP:\*;ICA:\*>192.168.1.1

- all ICA/RDP sessions connect to 192.168.1.1

3. <RDP:rdp1,rdp2\192.168.1.1;ICA:ica1,ica2\192.168.1.3>

- RDP session rdp1,rdp2 connect to 192.168.1.1, ICA session ica1, ica2 connect to 192.168.1.3

4. <RDP:\*;ICA:\* \192.168.1.3>192.168.1.1

- all RDP session connect to 192.168.1.1 and all ICA session connect to 192.168.1.3

5. <ICA:\*>192.168.1.3

- all ICA session connect to 192.168.1.3

**201** *User Name:* Automatic Logon user name.

**202** *Domain:* Automatic Logon domain name.

**203** *Password:* Automatic Logon password.

**204** *Command Line:* Application to run

**205** *Working Directory*: The working directory for the application.

---

**Important Note:**

The extended option numbers described above may be redefined in the *Terminal Properties* screen, *Network* tab, using the *Advanced DHCP* button. This is not recommended for options 206-209 because it will disable autoconfig of default devices.

---

## Appendix C - Advanced Terminal Customization

### C.1 Emulation Font Upload

The CE Client terminal emulation program (*TermPro*) comes with a default font, which supports all languages, the terminal is designed to support. This font may not be desirable to some users. To address this issue, a feature was added to allow the Administrator to install fonts onto the terminal for use with the local emulation program.

Many fonts are available for free download or purchase on the Internet and other medium. Maple provides for the "Andale32". This font is similar to fonts available on many legacy terminals. Andale32 is a font which looks similar to "Tahoma" and is a san serif, monospace, truetype font.

Additional fonts are available from multiple sources on the Internet. One site, which has a number of fonts available, is SourceForge.net (<http://prdownloads.sourceforge.net/corefonts>)

**Important Note:** *THE ONLY FONTS SUPPORTED are fonts with "Monospace" and "Truetype" attributes.*

You are responsible to ensure the font you select has the necessary language support for your locale and that you have the legal right to use the font. Most available fonts support US English.

#### Font Install Prerequisites

- ❑ Minimum version requirements: CE3, CE4(.NET), or above
- ❑ True Type, Mono Space font file with TTF extension
- ❑ *SNMPAdm* Management software (version 1.83.7 or above) installed on a PC or server
- ❑ FTP server on your network
- ❑ TTF file installed on your FTP server



## Verify FTP Location, Path and Security Requirements

It is recommended that you verify the location, path and security requirements of your FTP server by using Internet Explorer to browse to your FTP server. Browse to your FTP server using Internet Explorer using following example:

- Using the IE navigation bar, browse to your FTP server (example: <ftp://192.168.1.2>)
- If you are prompted for User ID / Password, take note of the ID and Password for use in a subsequent step (example: ID = Mike, Password = Smith). Please note that if you are not prompted for a password, then it is likely that “anonymous” access is supported and no user ID or password is required.
- Browse the folders in your FTP server until you find the font you intend on loading onto the client. (example: andalemo.ttf)
- When you locate the desired font file, note the location in the navigation bar (example: <ftp://192.168.1.2/fonts>)
- For the above example, the following would be set in *SNMPAdm*:
  - **FTP Server:** 192.168.1.2
  - **Path:** /fonts
  - **User Name:** Mike
  - **Password:** Smith

## Font Install Procedure

1. Set upgrade server and path in the *SNMPAdm* management tool:
  - Click **File, Options**
  - Click the **FTP Server** tab
  - Set the FTP options where the TTF file is located and the security settings if required by your FTP server:
    - **FTP Server:** The IP address or Name of the FTP server.
    - **Path:** Path name (e.g. /font) containing the TTF file
    - **User Name:** User sign on name (if required)
    - **Password:** Sign on password (if required)
  - Click the **OK** box to save your settings

2. Force terminal to download TTF font file using the *SNMPAdm* management tool:

- Discover the terminal to which the font is to be uploaded
- Right click on the IP address(s) of the terminal
- Select the menu item "Messages"
- Enter the following string into the message box. The font file "andalemo.ttf" will be used for this example:

**\$INSTALL FONT\$ andalemo.ttf**

Important Notes:

- Enter the font name of your TTF file in place of the example file name above (andalemo.ttf)
- The command must be in all capital letters
- The file name is case sensitive and must match the case of the file on your FTP server
- Press the **Send** button to send the command to the terminal(s)
- The command instructs the terminal to download the font from the specified FTP server and Path
- No message confirming the upload is displayed. An error message is displayed on the terminal if the font upload failed because of FTP path or security issues.

### Using The Installed Font

The font can now be accessed by the user from within the *TermPro* emulation program. To select the font used by *TermPro*:

- Start the emulation program
- Click the menu item: **Setting**
- Click the menu option: **Font Setup**
- Select the font from the pull down list

**Related Messages:**

**\$UNINSTALL FONT\$ fontname**

Example: **\$UNINSTALL FONT\$ andalemo.ttf**

Reboot by user is required after the font is uninstalled.

### **\$LIST INSTALL FONTS\$**

The *SNMPAdm* "Message History" lists the installed fonts.

This function is only active if the **SNMP Manager IP** is set on the client. To force the **SNMP Manager IP** address to be set to the PC currently managing the client, reboot the client by right clicking on the IP address of the client and selecting the **Reboot** option.

## C.2 Boot-up Splash Screen Upload

The initial splash screen, that is seen just after power up and shows the progress bar during boot can be changed. For instance, some customers prefer to have the splash screen of their company logo.

The Splash Screen file is named **cli.bmp** and is a 640x480, 256 color bitmap file (302KB, 72x72 DPI).

### Install Prerequisites

- ❑ Minimum version requirements: CE4(.NET) and above
- ❑ *SNMPAdm* Management software installed on a PC or server, version 1.83.10 or above
- ❑ New Splash Screen file named **cli.bmp** installed on your FTP server on the network.
- ❑ DHCP options 206 – 209 served (**optional**)
  - 206** *FTP Server*: The IP address or Name of the FTP server.
  - 207** *FTP Path*: Path name (e.g. /font) containing the TTF file
  - 208** *FTP User Name*: User sign on name (if required)
  - 209** *FTP Password*: Sign on password (if required)

### Install Procedure

If DHCP options 206 – 208 are served, start at step 2.

1. Set upgrade server and path on the ET3000/ET5000:
  - Press F2 at the **Terminal Manger** panel
  - At the **Terminal Properties** panel, click the **Upgrade** tab
  - Select the check box: **Manual Upgrade**
  - Enter the **FTP Server**, **IP address** and **Path** where the bitmap file is located
  - Enter the **User name** and **Password** only if required
  - Click OK on the **Terminal Properties** panel when finished
  - Accept the option to restart the terminal

2. Force terminal to download the bitmap file using the *SNMPAdm* management tool:
  - Discover the terminal you wish to upload the font to
  - Right click on the IP address(s) of the terminal
  - Select the menu item "Messages" and enter the following string into the message box. The command must be in all capital letters and the image file name is case sensitive.

**\$FLASH BOOTLOGO\$ cli.bmp**

- Press the ***Send*** button to send the command to the terminal(s)
- The command instructs the terminal to download the font from the specified FTP server and Path

### **C.3 Remote Serial Number Update**

The serial number is loaded into the flash by the factory for all Maple terminals, which were shipped with version x0350 or above. If the terminal you are using does not have the serial number loaded, it can be entered manually on the terminal (see section 6.1) or via a special command

Use *SNMPAdm* 1.83.10 or above, to send a command to update the serial number:

- discover the terminal you wish to update serial number
- right click on the IP address of the terminal
- select the menu item Messages
- enter the following string into the message box. The number TBB512345 will be used for this example:

**\$SET SERIALNO\$ TBB512345**

## C.4 Put New Screensaver

The following command can be used to install a new screen saver Floating Object (add to OEM Logo list).

Use *SNMPAdm* 1.83.10 or above, to send a command to install a new 'Floating Object' bitmap (.bmp) file:

- discover the terminal you wish to update.
- right click on the IP address of the terminal
- select the menu item Messages
- enter the following string in the message box.

**\$PUT SCRSAVER LOGO\$ xxxx.bmp**

where xxxx.bmp is the bitmap file from the FTP server.

## C.5 FTP Put File

Use *SNMPAdm* 1.83.10 or above, to send a command to put a file to the selected Client 'Hard Disk' folder

- discover the terminal you wish to update.
- right click on the IP address of the terminal
- select the menu item Messages
- enter the following string in the message box.

**\$FTP PUTFILE\$ filename**

## C.6 Registry Edits

The configuration of a windows based terminal is held in the 'Registry'. This registry can be edited to change certain operating characteristics. Use *SNMPAdm* version 1.83.7 or above to edit the registry.

### C.6.1 Disable Browser Address Bar

Terminal versions: CE4(.NET). Note: CE5 and above clients have User Interface option.

For some applications, it may be desirable to limit the user's access to the address bar. This may be useful in a kiosks or intranet application. To disable the address bar, the registry must be modified. A **dword** value "Disable AddressBar" must be added as follows:

**'HKEY\_CURRENT\_USER\Software\Microsoft\Internet Explorer\Main\Disable AddressBar'**

0 = disabled

1 = enabled

A simple way to implement this change would be to use the following procedure:

- set SNMP File/Option to 'Append'
- create a new, empty registry by pressing the "New Setting" icon in the Remote Setting tab
- create the tree:  
HKEY\_CURRENT\_USER\Software\Microsoft\Internet Explorer\Main
- create the **dword**: Disable AddressBar
- enter the value of "0" or "1"
- click the SaveAll icon
- rename the file from "NewSetting" to "disable addressbar"
- click the SaveAll icon

- drag/drop this change on to any terminal

## C.6.2 Autostart Delay Feature

Terminal versions: CE4 (.NET) or above.

The Autostart Delay feature was added to allow for circumstances where the network connection was not established by the time the sessions would be autostarted. For example, when using wireless networking, it is possible that the terminal will not authenticate to the Access Point by the time the session has started. This would result in the session failing to connect to the host. A delay can be inserted before Autostart begins which resolves this issue.

The Autostart Delay feature must be enabled via a registry change. The **dword** value is:

**'HKEY\_LOCAL\_MACHINE\Software\Microsoft\WBT\Shell\AutoStartDelay'**

The value is in seconds and can be up to 99. A recommended value is 10, if required at all.

A simple way to implement this change would be to use the following procedure:

- set SNMP File/Option to 'Append'
- create a new, empty registry by pressing the "New Setting" icon in the Remote Setting tab
- create the tree:  
HKEY\_LOCAL\_MACHINE\Software\Microsoft\WBT\Shell\
- create the **dword**: AutoStartDelay
- enter the value of "10"
- click the SaveAll icon
- rename the file from "NewSetting" to "autostart delay"
- click the SaveAll icon
- drag/drop this change on to any terminal

## C.6.3 Disable USB or Serial ports or drivers on Clients

Terminal versions: CE4 (.NET) or above.

For data security it may be desired to disable USB and/or Serial ports on the Client. The Client hardware determines whether USB and Serial ports are supported and how many ports are available.

Modify the registry on the thin client using the Maple SNMP management software. (See the SNMP manual for methods of editing the registry either "live" or drag/drop to multiple clients).

There are two ways to "disable" the USB port, you can completely turn it off, or just remove the driver configuration. If you only disable driver support for a USB device (not USB port), then plug in a USB device, a notify dialog will show up on the screen. If you disable the USB port instead, you will not see any message when USB device is plugged in.

### **To disable the Serial Ports...**

-remove the CE registry key

'HKEY\_LOCAL\_MACHINE\Drivers\BuiltIn\Serial' and 'Serial2'

('Serial', if only one serial port)

### **To disable USB ports...**

-Remove the registry keys

'HKEY\_LOCAL\_MACHINE\Drivers\BuiltIn\PC\Template\ehci'

and, if found

'HKEY\_LOCAL\_MACHINE\Drivers\BuiltIn\PC\Instance\ehci1'

### **To keep USB port enabled, but disable all USB device drivers...**

To disable driver for USB Flash disk...

-Remove registry key 'Mass\_Storage\_Class' on

'HKEY\_LOCAL\_MACHINE\Drivers\USB\ClientDrivers'

To disable driver for USB printer...

-Remove registry key 'Printer\_Class' on  
'HKEY\_LOCAL\_MACHINE\Drivers\USB\ClientDrivers'

To disable driver for USB keyboard and mouse, and other HID devices...

-Remove registry key 'Hid' on  
'HKEY\_LOCAL\_MACHINE\Drivers\USB\ClientDrivers'

To disable driver for USB wireless card...

-Remove registry key 'VNUWLC5' on  
'HKEY\_LOCAL\_MACHINE\Drivers\USB\ClientDrivers'

## C.6.4 5250 Beep with Wave file and audio speakers

If the 5250 message beep is not loud enough (or unique enough) from the built in speaker on the Client, add registry entry to utilize .WAV file for Message Beep. The selected .WAV file will then play on external speaker port when message is received to the 5250 session.

Edit the registry using the SNMP software, and add the following STRING value to this location:

```
HKEY_LOCAL_MACHINE\Software\MAPLE\WinTerm\%session name%\Display Setting
```

```
NEW STRING = "Beep Wave File"
```

```
STRING VALUE = "/windows/beep.wav"
```

(Note: quotes are not part of values)

There are other .WAV files pre-loaded in the windows folder on the terminal. You can choose any of the following:

beep.wav

close.wav

critical.wav

default.wav

empty.wav

exclam.wav

infbeg.wav

infend.wav

infintr.wav

menupop.wav

menusel.wav

openprog.wav

question.wav

recend.wav

recstart.wav

startup.wav

CE5 ONLY:

windmax.wav

windmin.wav

You can add your own .WAV file using the SNMPADM management tool FTP PUTFILE command (see C.5) or drag/drop using RDP or CITRIX session to the Client file system folder:

CE4 ET3000: /DiskOnChip

CE4 ET4000/5000: /Hard Disk

CE5 MTxxxx: /Hard Disk

CE5 ET45xx/55xx: /Hard Disk

## Appendix D - CE5 New/Revised Features

This document describes the enhancements made to the CE Thin Clients supporting CE5.

Under Terminal Properties the following topics are discussed:

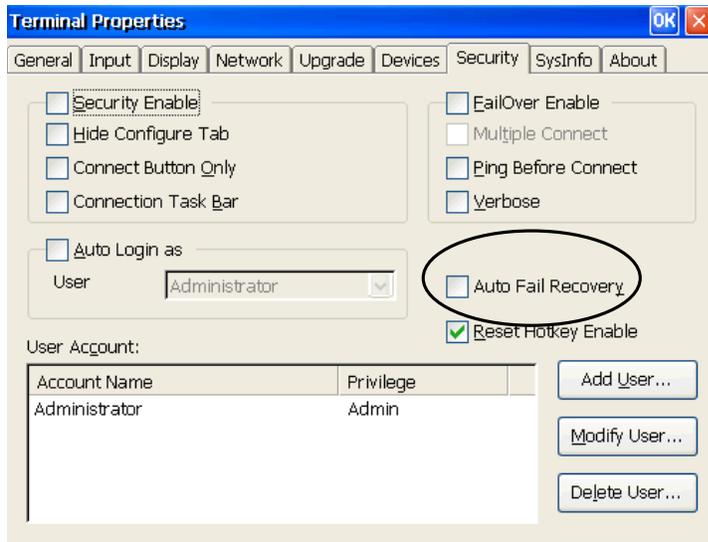
- **Auto Fail Recovery** used to stop users from exiting a connection
- **On Resume Password Protect** to require password entry on resuming from the screen saver.
- New and revised **Devices** support.
  - Aironet
  - Certificates
  - Dialing
  - Internet Options
  - Network and Dial-up Connections
  - Terminal Server Client Licenses
  - ThinPrint
  - Touch Screen
  - Volume & Sounds
  - WinCE VNC
  - Wireless Network
  - Egalax TouchKit

Under Terminal Manager are described:

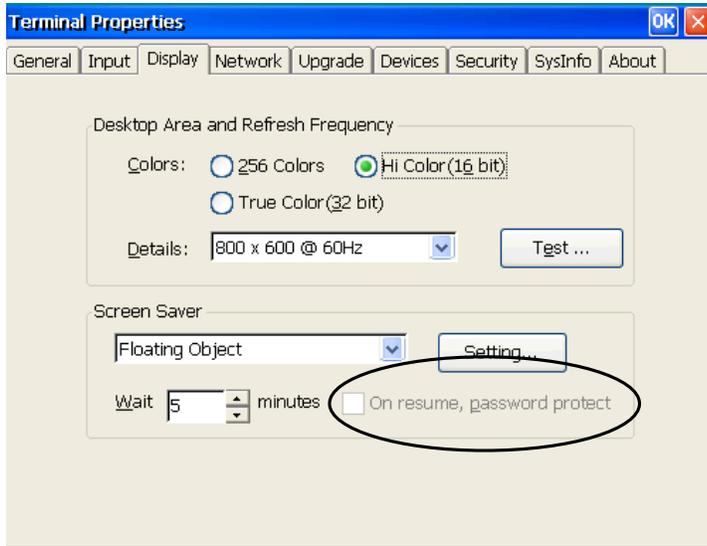
- New Terminal emulation features:
  - Full Screen mode/ Toggle and Lock
  - Disable Macro RECORD
  - Key Pad display status preserved on connection exit
  - Revised Window menu option
  - Under keyboard remapping, the Ctrl key is added as a 3<sup>rd</sup> shift condition
  - Configure: Advanced option to allows specification of multiple hosts
- Web Connections:
  - Create/Edit connections
  - Kiosk mode / Navigation bar
- RDP/ICA new versions

## D.1 Terminal Properties

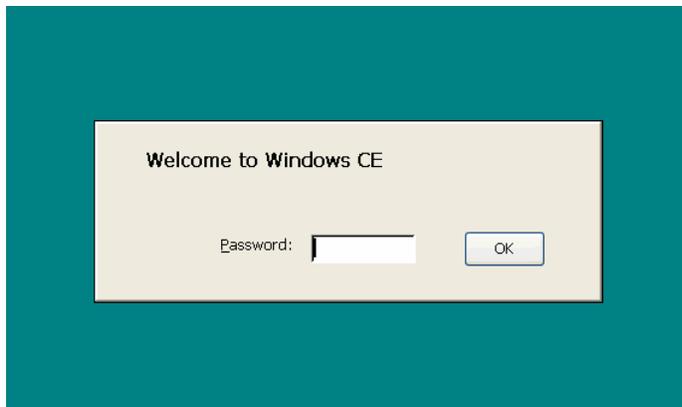
**Security / Auto Fail Recovery:** Exit session and session automatically restarts. User cannot exit session – session is automatically recovered. With Connection Retry setting set to Immediate, disconnect condition automatically tries to reconnect – Auto Fail Recovery does not retry.



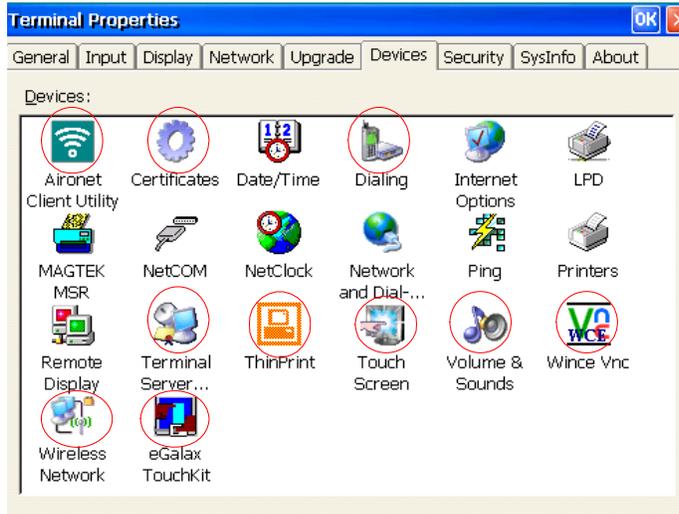
**Display / On resume, password protect** is enabled only if Security is enabled under the Security Tab.



If enabled and checked when screen saver screen is exited, the user's password is requested as shown below.

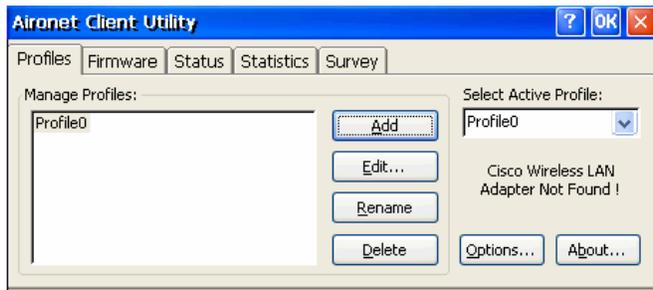


**Devices:** The device icons (circled) have been expanded and revised.



### Aironet

The Aironet Client Utility is used to configure the Aironet 350 series PCMCIA cards when used with the ET4520 (formerly ET5500) model terminal.



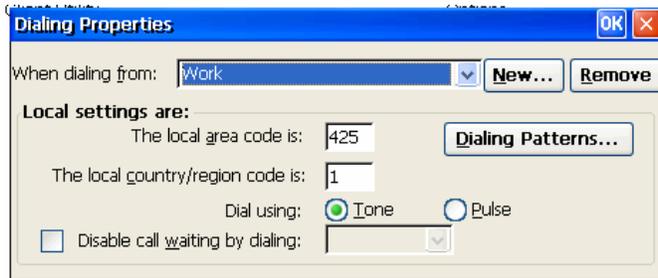
### Certificates

Certificates, which are issued by a certificate authority (such as Verisign), can be imported into the terminal flash drive. Certificates are typically used for authentication purposes with browser or wireless applications.



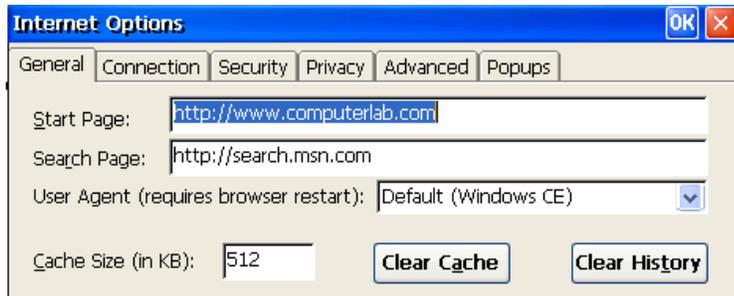
## Dialing

The Dialing applet is used to configure dial-up parameters for configured modem dial-up connections.



## Internet Options

The Internet Options applet is used to configure browser parameters such as start page, proxy settings, browser security, cookie handling and pop-ups.



## Network and Dial-up Connections

The Network and Dial-up Connections applet supplements the Network tab in the Terminal Properties screen.

The Network tab in the Terminal Properties screen controls the behavior of the Ethernet interface. Other interface TCP/IP connections can be created, configured, enabled and disabled via the Network and Dial-up Connections applet.

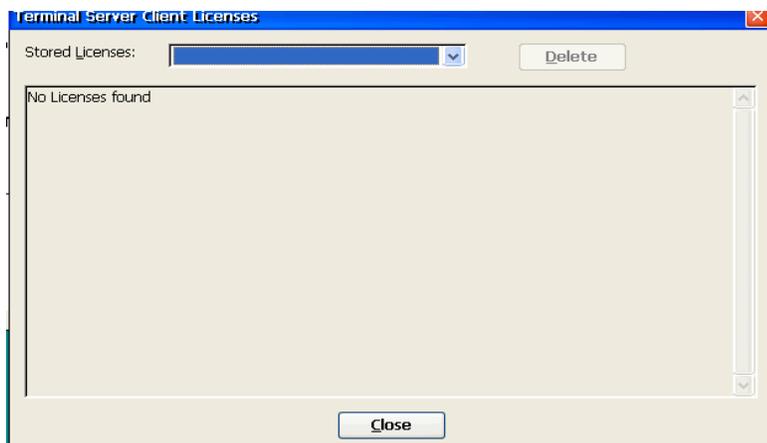
Common tasks include:

- disable Ethernet interface when using wireless or dial-up
- configure static IP address for wireless interface
- create dial-up connection



## Terminal Server Client Licenses

The Terminal Server Client Licenses applet displays any terminal services client access licenses that are stored on the terminal. The Delete option should be used when the license that is stored on the client is no longer valid. For example, if the terminal is moved from one terminal server domain to another, you may wish to delete the license from the previous farm.



## ThinPrint

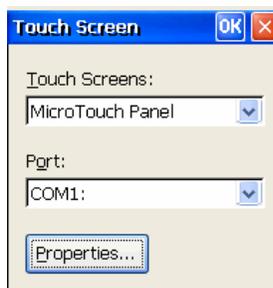
The ThinPrint applet is the *.print* client for ThinPrint. Please refer to your ThinPrint documentation to configure this printer client application.



## Touch Screen

The Touch Screen applet allows you to detect, configure and calibrate a touch screen monitor for use with the terminal. The following touch screen controller types are supported:

- Microtouch Panel (serial port only)
- ELO (serial and USB ports)
- None-no port selection

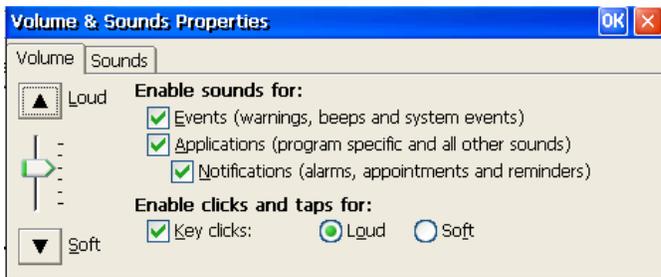


Click **Properties** for setup notes.

**IMPORTANT NOTE:** After you select the correct touch screen type and port, **DO NOT** click the Properties button. After you select the correct touch screen type and port, click **OK**, and then reboot. After the reboot, you can select the Properties button to detect and calibrate your touch screen monitor. If you select Properties before a reboot, the user interface may hang.

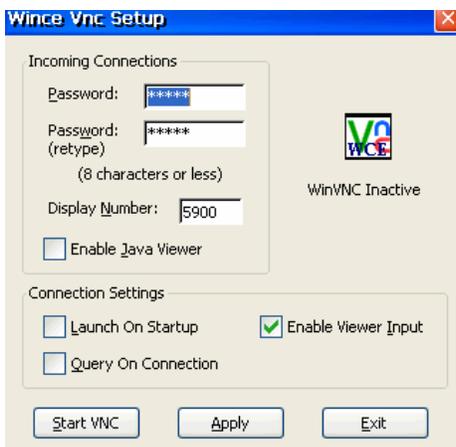
## Volume & Sounds

The Volume & Sounds applet controls the speaker volume, sound events and to specify sounds for events.



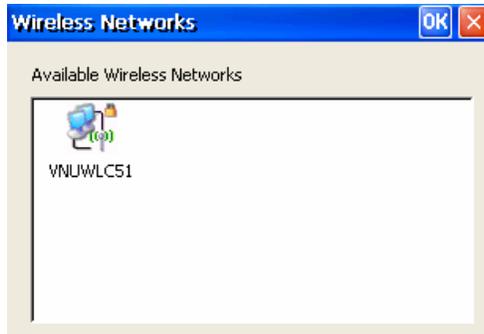
## WinCE VNC

The WinCE VNC applet allows you to enable the VNC server on the CE client. If the VNC server is enabled, standard VNC viewers such as RealVNC or other VNC viewers can be used to remotely shadow the device. To enable this feature, set a password, select "Launch On Startup" then click the Apply and Exit buttons.



## Wireless Network

The wireless network Icon allows you to configure the internal or external VNUWLC51 Wireless 802.11b/g adapter available from Maple. The user interface is the standard Windows wireless configuration program.



The following guidelines should be followed when configuring the wireless connection:

- When you initially power on the terminal, do not use the WBT Setup Wizard. Allow the automatic configuration countdown window to time out.
- A DHCP connection message will display at the top of the screen, then eventually show the Terminal Manager screen
- Within a few seconds, you will be presented with the VNUWLC51 wireless configuration menu
- Configure your wireless settings as needed
- When you are connected to your wireless network, the SSID you defined will display with an icon that appears as an antenna with a blue halo and the Status indicator will read: "Connected to your-SSID"
- Un-check the option "Notify me when new wireless networks are available". This will prevent end users from being presented with this menu in the event your wireless network goes down.
- Click OK to close the VNUWLC51 wireless configuration menu
- Press the F2 key to go to the Terminal Properties screen
- Click on the Network tab
- Select the radio button next to "Specify an IP address". This is only used for the wired connection and will substantially reduce boot time
- Click on the Devices tab
- Open the Network and Dial-up Connections applet
- Right click on the PCI-RTL81391 icon and select "Disable". This will prevent the computer from attempting to use the wired connection and increase wireless performance.
- If you want to use a static IP address for your wireless connection, double click the VNUWLC51 and set the IP address and other settings using this window
- Select File/Close to exit the Network and Dial-up Connections applet

- Click the OK button in the top right of the Terminal Properties window to return to the Terminal Manager screen
- Configure the terminal connections as required. You may return to the Terminal Properties screen to change screen resolution, set security and other options.

Note: if you wish to use the wired Ethernet connection, reset the terminal to default or reverse the above instructions. If you made an error you don't know how to recover from, or used the setup wizard prior to reading this notice, reset the terminal to default. (To reset to default: at the Terminal Manager screen, press and hold CTRL+TAB+DEL+F12.)

### **EGalax TouchKit**

The EGalax TouchKit applet allows you to configure touch screen monitors that use the EGalax TouchKit controller.



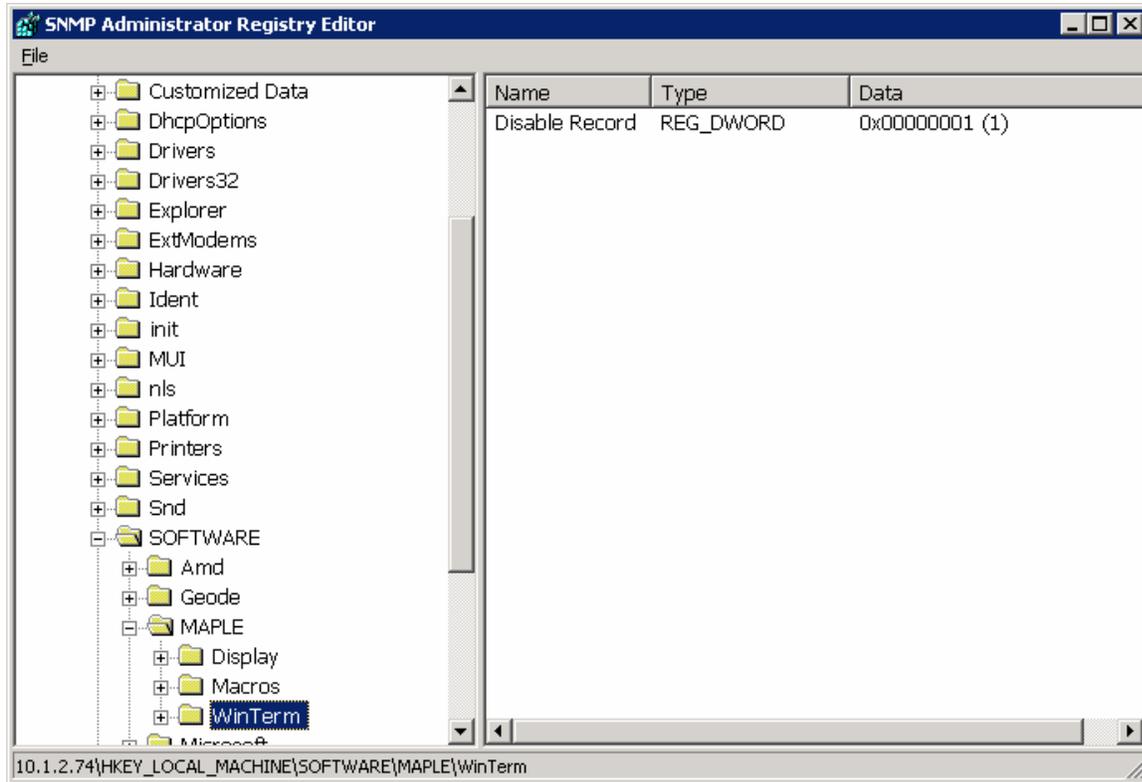
**IMPORTANT NOTE:** After you select the desired port, DO NOT click the Properties button. After you select the port, click OK, then reboot. After the reboot, you can select the Properties button to detect and calibrate your touch screen monitor. If you select Properties before a reboot, the user interface may hang.

## D.2 Terminal Manager Connections

### Terminal Emulation (TermPro)

**Disable Macro Record for all emulation sessions:** Prevent users from capturing secure data or for saving their own secure data (passwords, etc.)

Add dword value “Disable Record”:dword=1 on key  
“HKEY\_LOCAL\_MACHINE\SOFTWARE\MAPLE\WinTerm”



For all configured sessions, “Record” is disabled under the Macro menu options.



In addition the keying procedure to enter Macro Record is ignored. Pre-recorded macros can still be played.

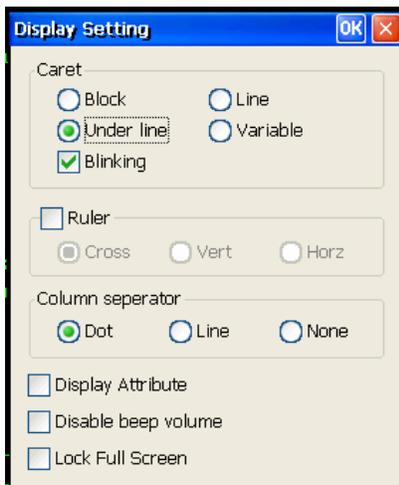
## Full Screen Mode

View / **Alt+Shift+F** to toggle Full Screen mode (fixed with E5502.2)



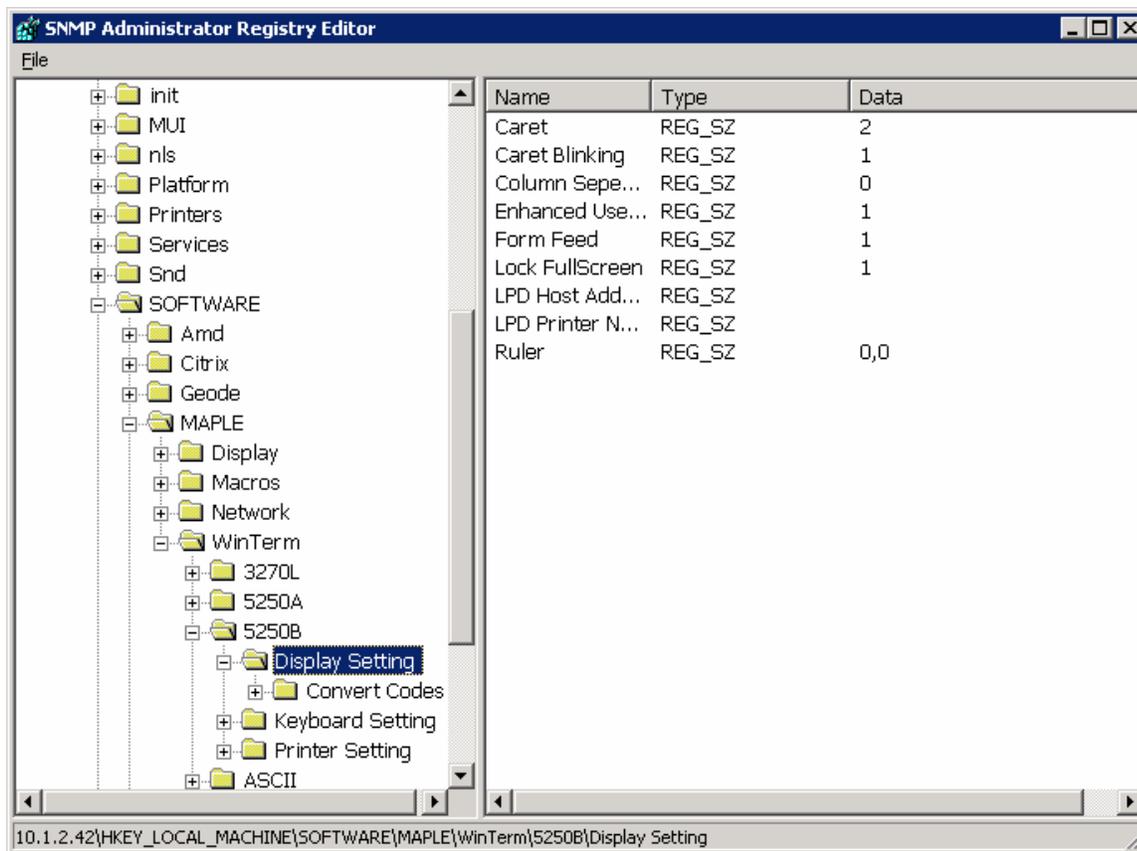
Note: If toggle to Full Screen mode, the Full Screen check box is checked in the Configuration screen and reset if toggle back.

**Lock Full Screen** – Disable Double-Click , Alt+F and Shift+Alt+F used to exit Full Screen mode.



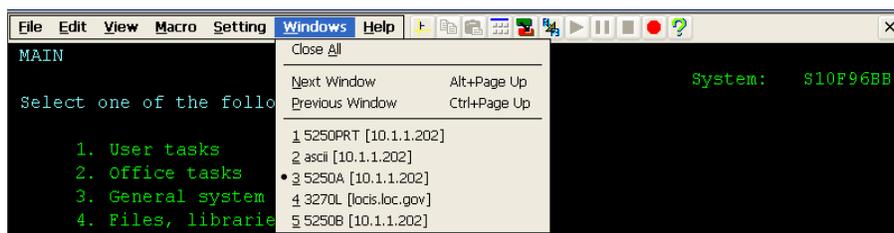
To unlock, End session and Edit (Configure); or Edit registry. (End Session first else error when editing) - see following screen!

**Lock FullScreen** = 1 (locked), 0 (not locked)



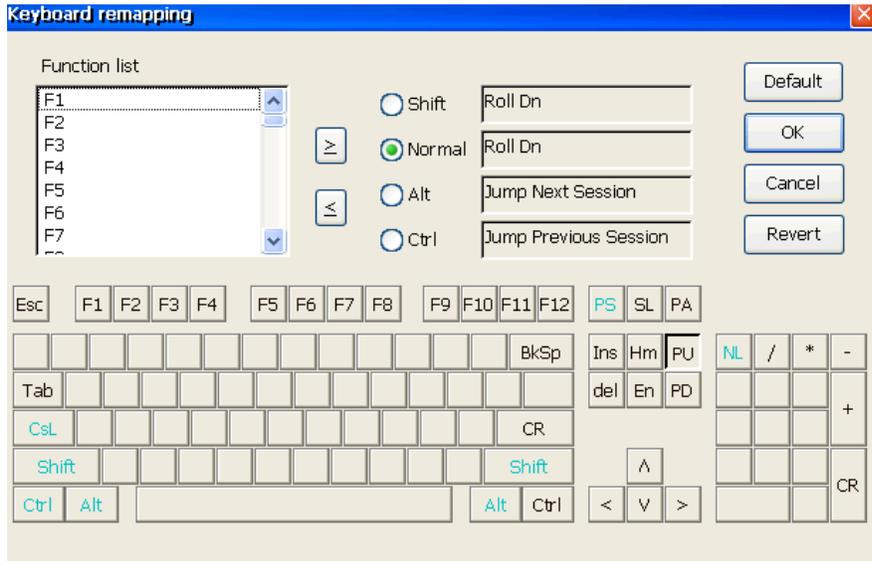
**KeyPad** display status saved with Settings: Sign off & exit session and restart will show KeyPad as previously displayed.

Revised **Windows** options:



**Close All:** Close all active emulation sessions.

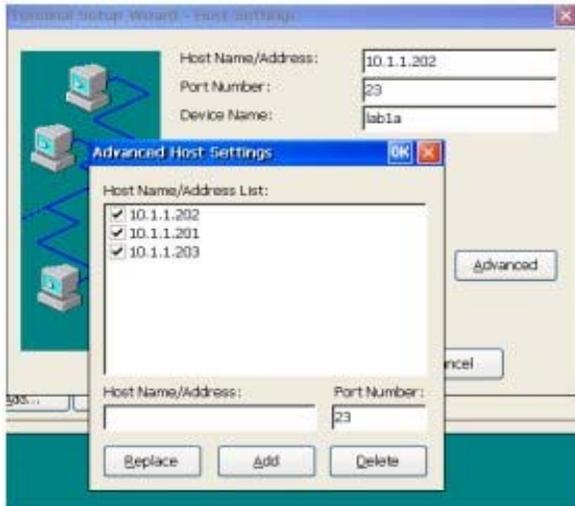
**Keyboard Remapping:** The **Ctrl** key was added as an additional shift type for 5250 and 3270 emulation.



## Host Setting Configuration - Support Multiple Hosts

Using the **Advanced** button on the Host Settings screen allows you to specify connections to multiple Hosts of the same session type.

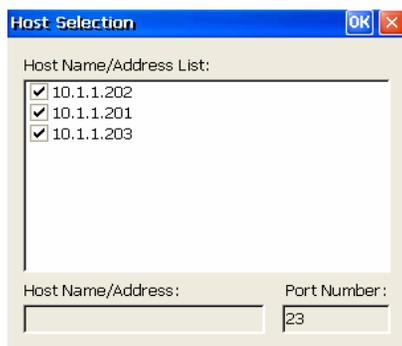
Below is an example screen showing multiple hosts.



Initially this screen displays the Host Name/Address entered from the main Host Settings screen with a check in the check box indicating execution is desired. The Name/Address of other hosts can be **Added**. Existing entries can be **Deleted** or **Replaced**. Uncheck entries that are not to be started when the session is started.

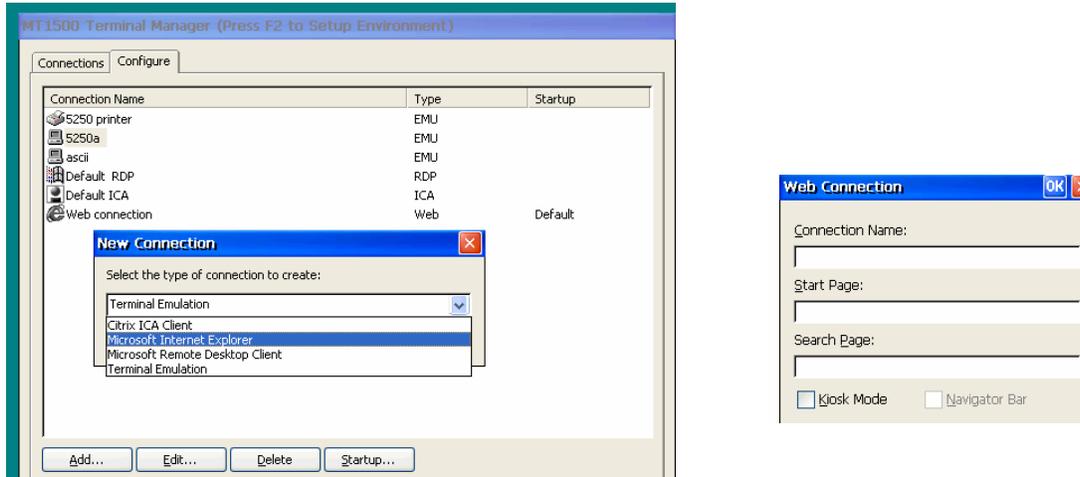
Duplicate Host Name/Address entries are ignored – hosts must be unique. All host sessions inherit Device Name plus any Setting Options set after the session is started (e.g. Connection Retry, Color Mapping, etc.).

If more than one host is specified, the user is presented with a screen when the session starts. At this time entries may be unchecked so as not to run or checked to be started when OK is clicked.

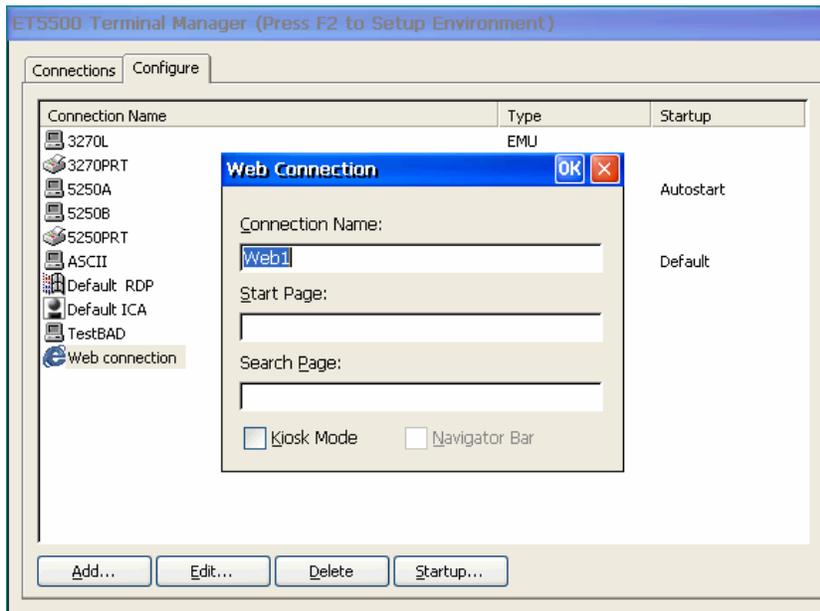


## Web Connection Configure

Microsoft Internet Explorer is added to the new Connection dialog to allow creation of multiple Web connections.



Double click Web connection to edit existing web connection.



**Kiosk Mode** if checked disables Menu line, address line, etc. so user cannot exit.

**Navigator Bar:** If Kiosk Mode is checked, this option can be checked to display the Navigation Bar.

IE Kiosk Display....



**MAPLE**

- 中文首頁
- Home
- News
- About Maple
- Product
- Service
- Support
- Contact

**Natural Touch of Networking Communica**



With Navigation Bar....



**MAPLE**

**Natural Touch of Networking Communica**

## RDP Session Configuration (RDP version 5.1 or above)

**Edit Connection** [OK] [X]

General | Display | Local Resources | Programs | Experience

**Connection**

Name:

Server:

Automatic Logon

Username:

Password:

Domain:

Don't save username when logoff

**Don't save username when logoff:** If checked, entry of user name will be required for login.

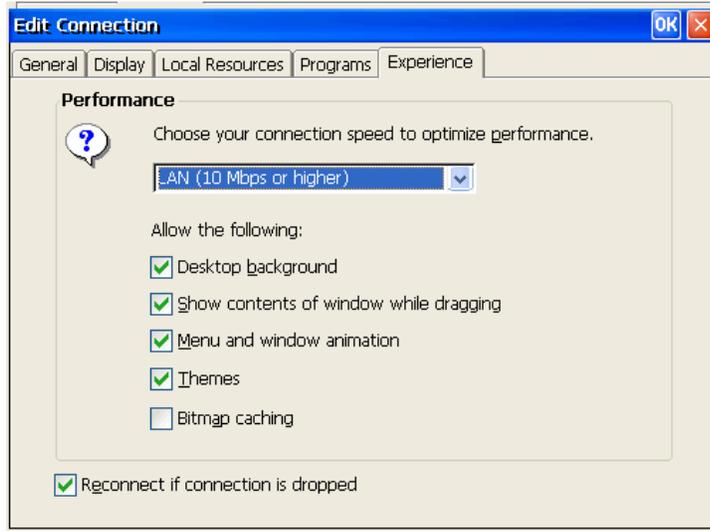
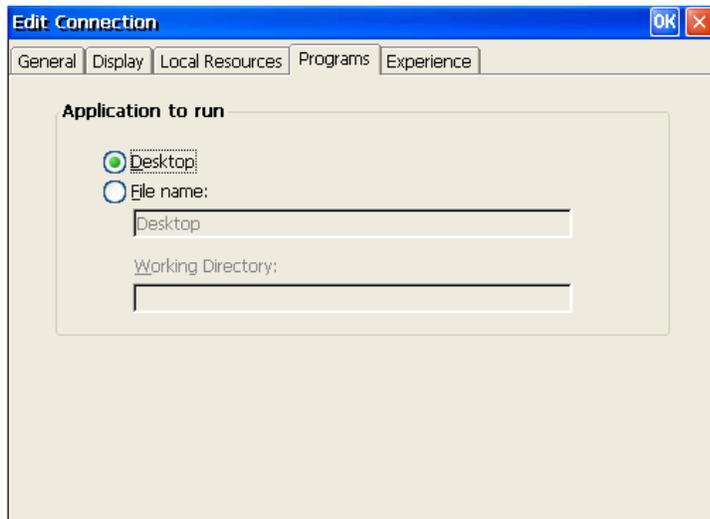
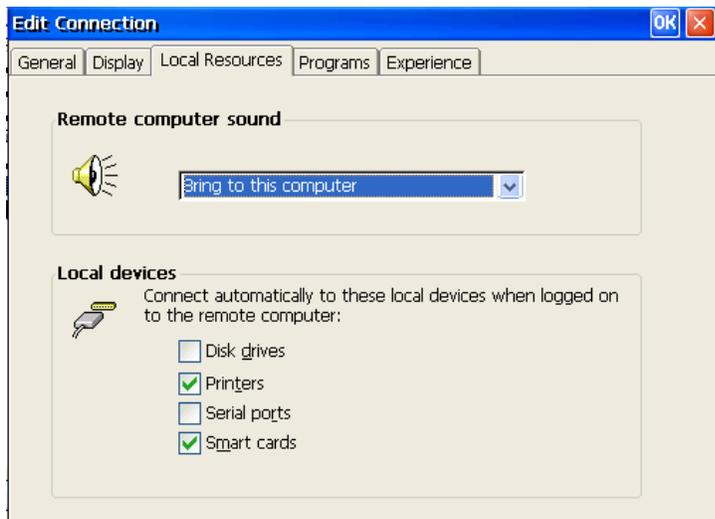
**Edit Connection** [OK] [X]

General | Display | Local Resources | Programs | Experience

**Colors**

Note: Settings on the remote computer might override this setting

Display the connection bar



# ICA Configuration (version 9.04 or above)

**Select a Server or Published Application**

Select a server from the list or enter a server name

Server  Published Application

CITRIX1

Refresh

You can change your server location settings by clicking Server Location.  
Primary server: (Auto-Locate) Server\_Location...

Cancel Next > Done

...

**Specify Logon Information**

If desired, you can specify logon information to be used when connecting to the remote application.

Username: \_\_\_\_\_

Password: \_\_\_\_\_

Domain: \_\_\_\_\_

Allow Smart Card logon

Cancel < Back Next > Done

**Allow Smart Card logon** option is new.

...

**Options**

Compress Data Stream  Use Disk Cache

Sound Quality: Low

Microphone Input: Disabled

Port: 2598

Enable Sound

Enable Session Reliability

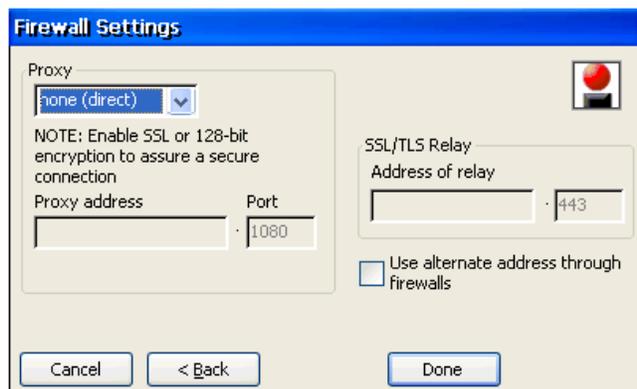
Enable SpeedScreen Multimedia Acceleration

SpeedScreen: Auto Encryption Level: Basic

Apply Windows key combinations (e.g. Alt + Tab): In full screen desktops only

Cancel < Back Next > Done

Expanded options.



Expanded Firewall settings.