



10ZiG Technology Limited

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RBT/TBT

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Configuration Guide

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# RBT/TBT Configuration Guide

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## 10ZiG Technology Limited

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# PRODUCT DESCRIPTION

The RBT Series and TBT-1000 thin clients provides a powerful, simple, and affordable solution to desktop computing. The RBT series and the TBT-1000 Ethernet terminals offer the very best TN5250e and TN3270e emulation available for a LAN environment in a Windows-enabled text-based terminal.

10ZiG thin clients and terminals are simple to configure either locally or remotely using the 10ZiG Manager, which enables the following tasks:

- Complete terminal configuration from a central location, including terminal emulation settings
- User lock-out from configuration changes, keeping the cost of ownership down
- Shadowing of the user's desktop
- Cloning of user environments
- Control over which applications can be run on a particular terminal

# INTRODUCTION TO CONFIGURATION

RBT/TBT thin clients support five modes of operation:

- TBT Mode – Text Based Terminal
- Desktop – Windows XP look & feel (recommended!)
- WBT – Windows Based Terminal (supporting full-screen only)
- KIOSK – Restricted desktop that limits access to a specific connection.
- XDM - X Windows System

# CONFIGURING THE RBT/TBT

## - Text Based Mode

Upon first boot the unit will display a progress bar with *Press Spacebar To Enter Text Based Terminal Mode* displayed above it. If the spacebar is pressed at this time you will be taken to the **QUICK SETUP** screen in TBT mode. The TBT-1000 will by default boot in Text Based Terminal mode.

**QUICK SETUP:** To navigate between fields on this screen you will use the TAB key. To change a value in a field use the Page Up and Page Down keys on your keyboard.

RB

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**QUICK SETUP**

**NETWORK**

Use DHCP .....	Yes
IP Address: .....	172.16.6.22
Subnet Mask: .....	255.255.255.0
Default Gateway: .....	172.16.6.1
Primary DNS Server IP address: .....	172.16.6.174

**I-SERIES/AS400**

# of Display Sessions .....	2
Device Name Prefix .....	
Keyboard Type .....	Terminal
Keyboard Language .....	English USA
Host name/IP .....	

**Printer** .....

Device Name .....	
Driver .....	HP PCL (Letter Paper Format)

F3 - Save & Exit      F12 - Cancel      Space Bar - Change Option

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## NETWORK:

**Use DHCP:** If you answer YES, the thin client will pull a DHCP address. If you answer NO, the four fields below will need to be completed.

**IP Address:** If you answered NO to use DHCP, you will need to enter the IP address for this unit in this field. If you answered YES to use DHCP, the IP address the unit has been assigned by the DHCP server will be displayed.

**Subnet Mask:** If you answered NO to use DHCP, you will need to enter the Subnet Mask in this field. If you answered Yes to use DHCP, the Subnet Mask the unit has been assigned by the DHCP server will be displayed.

**Default Gateway:** If you answered NO to use DHCP, you will need to enter the IP address of your default gateway. If you answered Yes to use DHCP, the default gateway the unit has been assigned by the DHCP server will be displayed.

**Primary DNS Server IP Address:** If you answered NO to use DHCP, you will need to enter a Primary DNS Server IP address if used. If you answered Yes to use DHCP, the Primary DNS Server IP Address the unit has been assigned by the DHCP server will be displayed.

## iSeries/AS400:

In this section you will enter information for your iSeries/AS/400 5250 sessions.

**Sessions:** This is where you can specify the number of display sessions needed. The RBT and TBT support 8 5250 sessions in desktop mode. In TBT mode they support 4 display sessions and 1 printer session.

**Device Name Prefix:** This is the prefix that will be given to your 5250 sessions when created on the iSeries/AS/400. The maximum number of characters is five. To complete the logical device name, a *sequence number* is appended to the prefix name. This sequence number is unique among all defined device instances using the same prefix name.

**Keyboard Type:** You can choose PC for a standard 101/104 key keyboard or Terminal for a 101/104 key keyboard. Terminal will map the ENTER key to Field Exit and the Right CTRL key to ENTER.

**Keyboard Language:** Used to set your keyboard language.

**Host Name/IP:** Enter the IP address of the iSeries/AS/400 or the DNS name of the iSeries/AS/400. If entering a DNS name, the Primary DNS Server information is used.

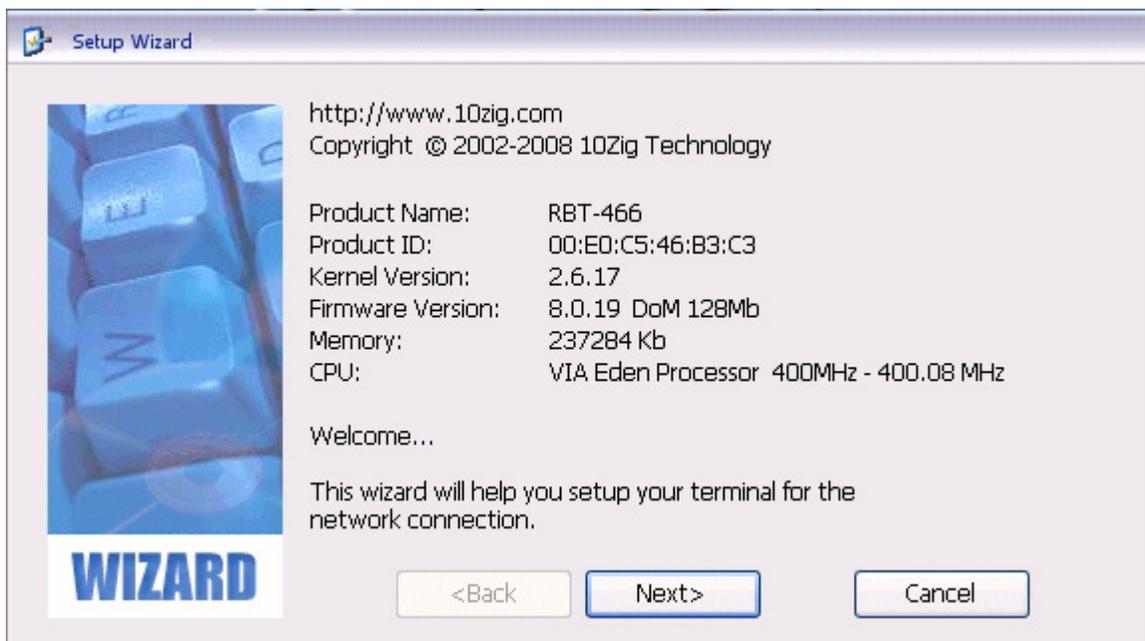
**Printer:** If there is a locally attached printer that will be used as a 5250 printer session, enter YES and enter the printer name. Select the closest match printer driver listed.

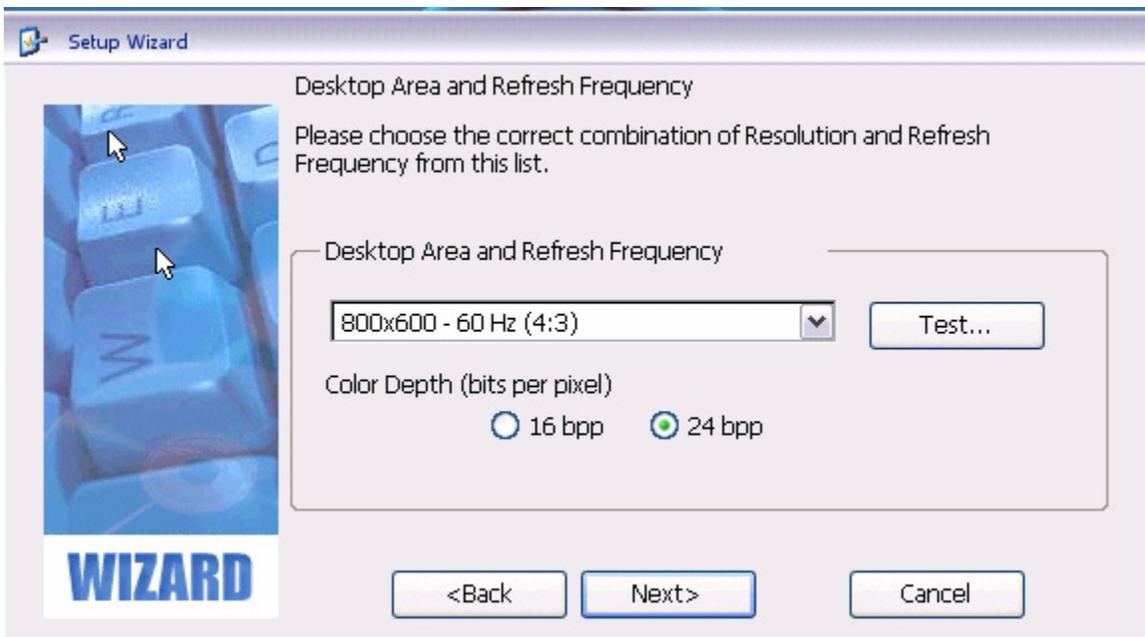
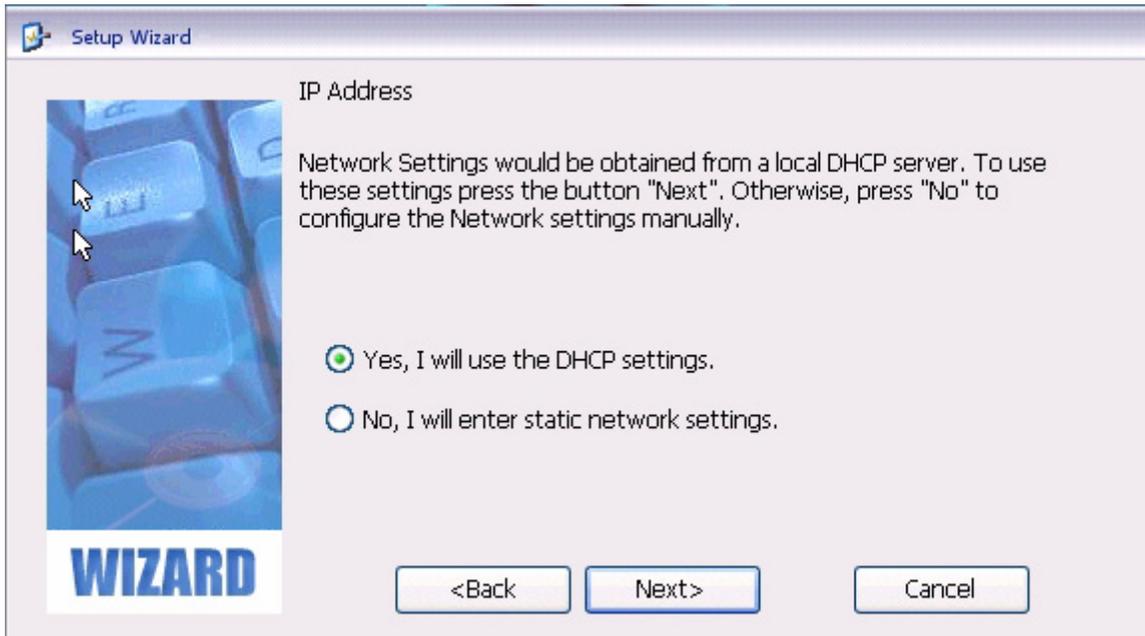
**To SAVE the changes in the QUICK SETUP screen press F3.**

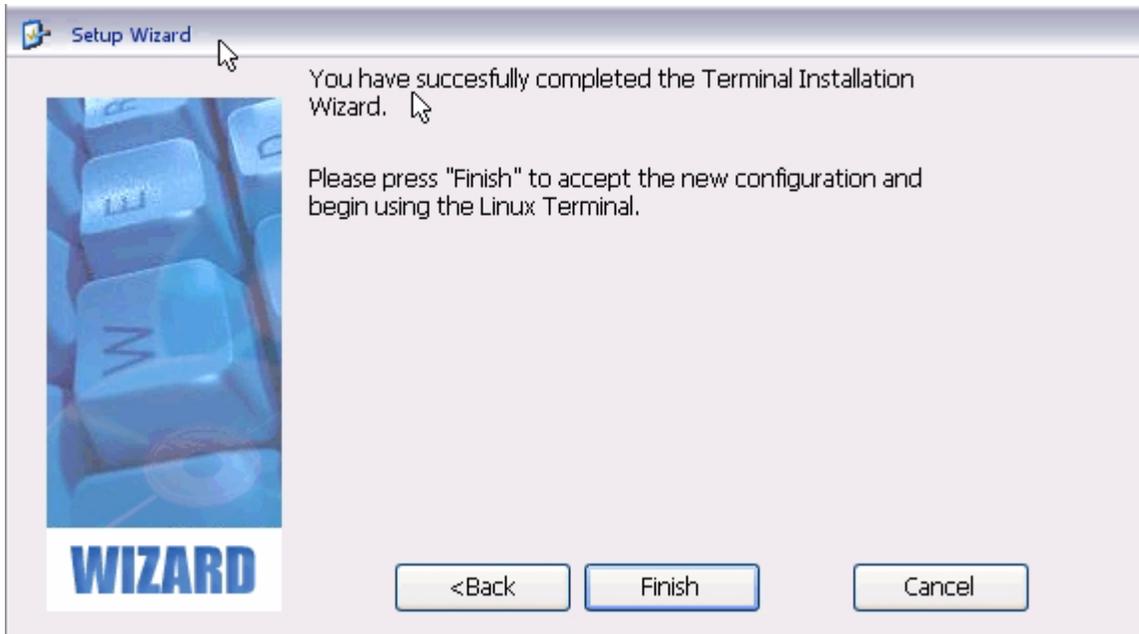
# CONFIGURING THE RBT

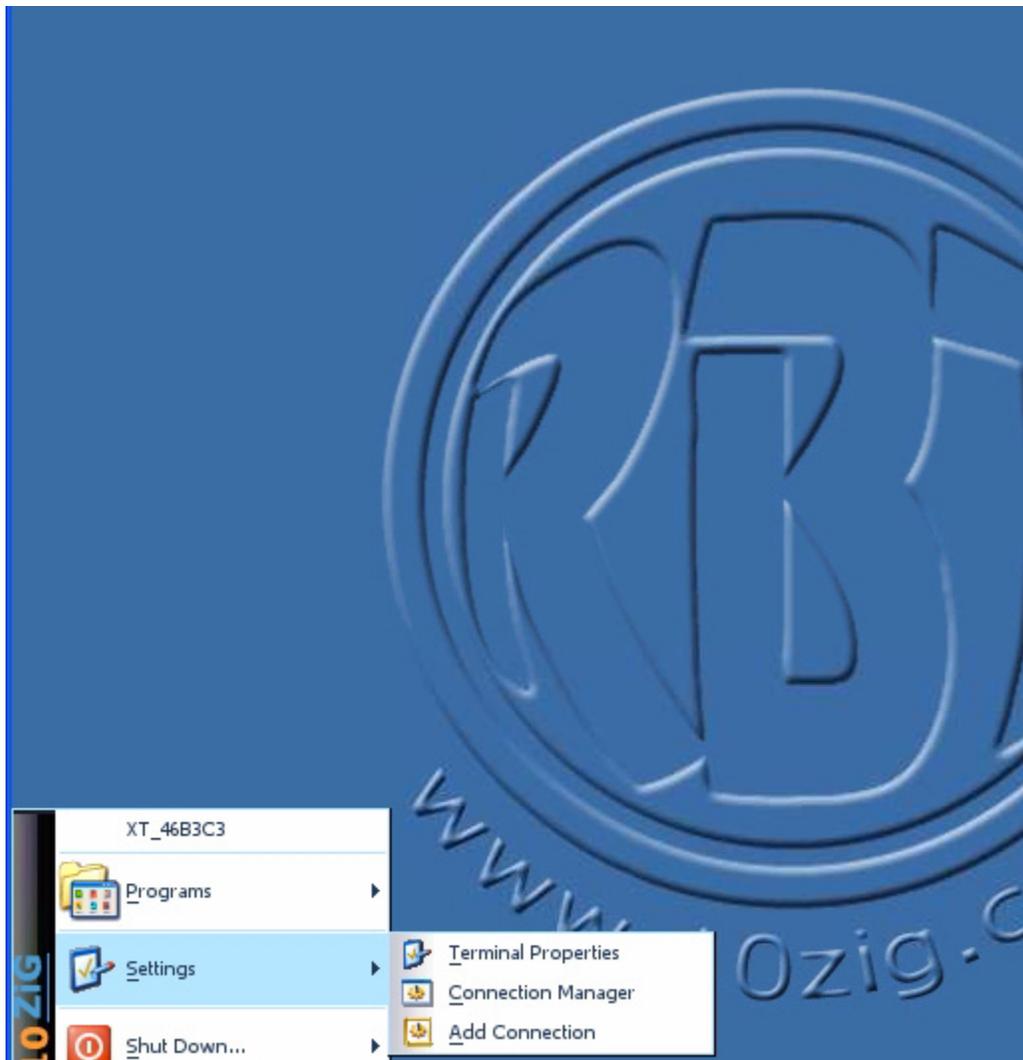
## Setup Wizard in desktop mode

If the spacebar is not pressed during the bootup, the **Setup Wizard** will run.









Once the configuration wizard has finished, configuration of Thin Client Linux terminal is accomplished by launching the Terminal Configuration Utility from the main toolbar by selecting

(START) -Settings - Terminal Properties or by right clicking on the desktop and selecting Terminal Properties..

The Terminal Configuration Utility is divided into a number of functionally distinct tab pages as described in the following pages.

# Terminal Properties – General Tab

The **General** page displays the firmware revision as well as the Thin Client hardware configuration.

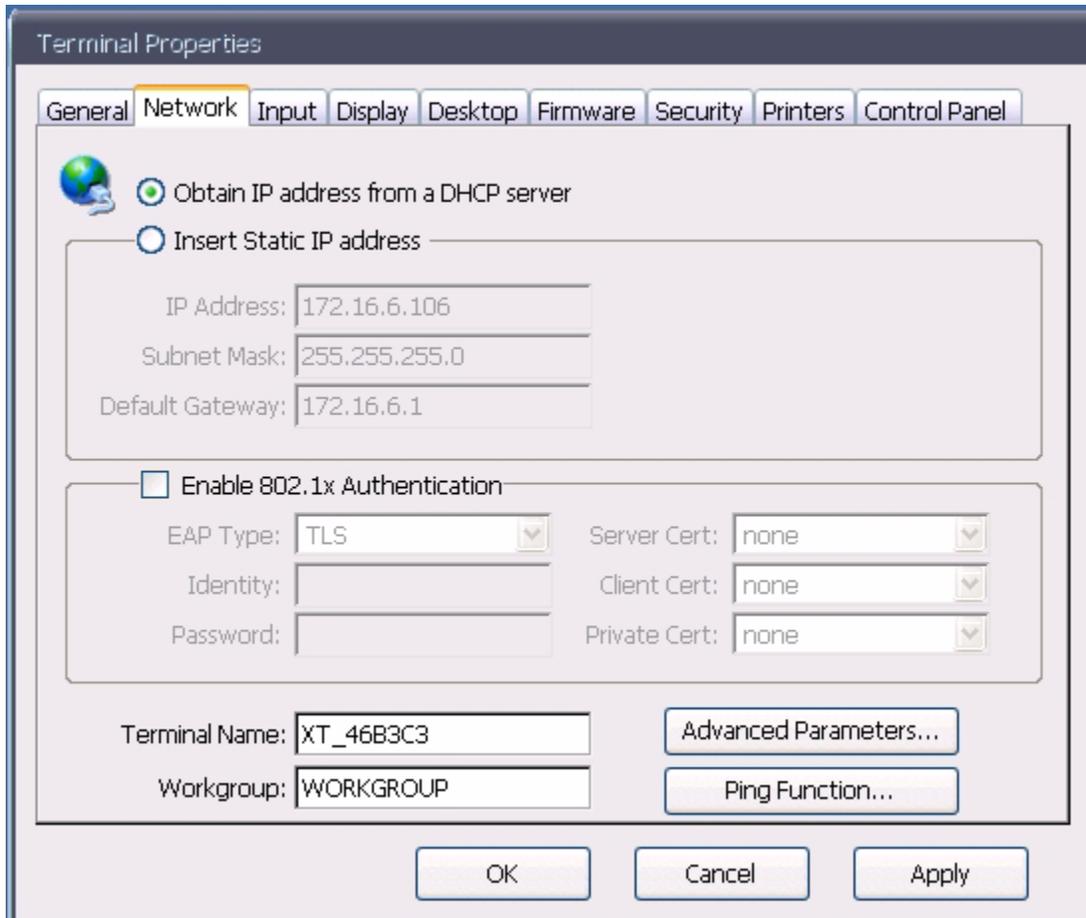


Checking the **Restore the terminal parameters to factory default** will reset all terminal parameters to the default state. Upon rebooting the terminal the Terminal Configuration Setup Wizard will appear. Factory defaults can also be reset from the terminal itself by pressing SHIFT-CTL-ALT F or from the remote terminal manager by right clicking on the unit and selecting Special Functions - Factory Default.

Enable Fast Boot/Desktop Restore is enabled by default on the TBT-1000. This option causes the TBT-1000 to suspend rather than turn off when the power button is pressed allowing quick recovery of desktop.

# Terminal Properties – NetworkTab

The Network Configuration page allows the user to set the network specific parameters of the Thin Client. If you have a DHCP server on your network, select the **Obtain IP address from a DHCP server** option; this allows the network configuration to be performed automatically by a DHCP server resident on your LAN. The information typically provided by the DHCP server includes the IP address and gateway.



The terminal name can be changed by modifying the Terminal Name field.

If you do not have a DHCP server on the network, the IP address and gateway must be set manually.

The image shows a screenshot of the 'Terminal Properties' dialog box, specifically the 'Network' tab. The dialog has several tabs: General, Network (selected), Input, Display, Desktop, Firmware, Security, Printers, and Control Panel. In the Network tab, there are two radio buttons: 'Obtain IP address from a DHCP server' (unselected) and 'Insert Static IP address' (selected). Below these are three text input fields: 'IP Address' with the value '172.16.6.106', 'Subnet Mask' with '255.255.255.0', and 'Default Gateway' with '172.16.6.1'. There is also an unchecked checkbox for 'Enable 802.1x Authentication'. Below this checkbox are several fields: 'EAP Type' (set to 'TLS'), 'Identity', 'Password', 'Server Cert' (set to 'none'), 'Client Cert' (set to 'none'), and 'Private Cert' (set to 'none'). At the bottom of the dialog, there are two text input fields: 'Terminal Name' (set to 'RBT466-1') and 'Workgroup' (set to 'WORKGROUP'). To the right of these fields are two buttons: 'Advanced Parameters...' and 'Ping Function...'. At the very bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

Access Advanced Parameters by clicking on the Advanced Parameters option.

Advanced Parameters page allows for setting the DNS server to enable the browser to resolve host addresses. This most likely would be used only when you set the IP address manually.

Advanced Network parameters

Enable DNS

Default Domain: bosanova.net

DNS 1 Address: 172.16.6.170

DNS 2 Address: 172.16.6.169

Advanced parameters

Network:

Broadcast:

MTU: 1208

Hosts Table... DHCP Log File... DHCP Leases...

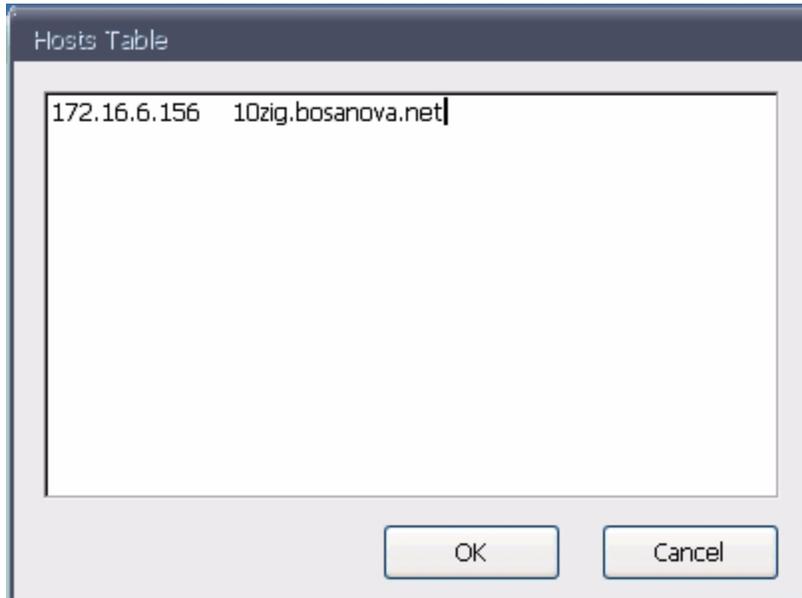
Disable WiFi DHCP Renew

OK Cancel

If Insert Static IP address is selected you will not see the DHCP Log File and DHCP Leases options.

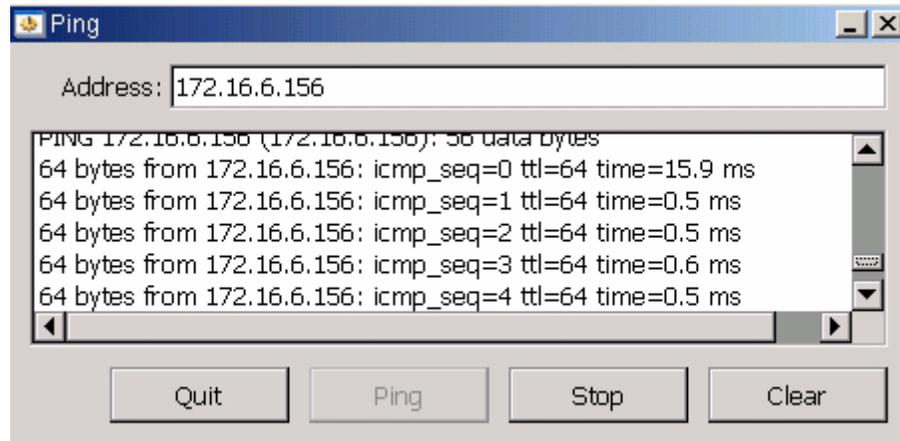
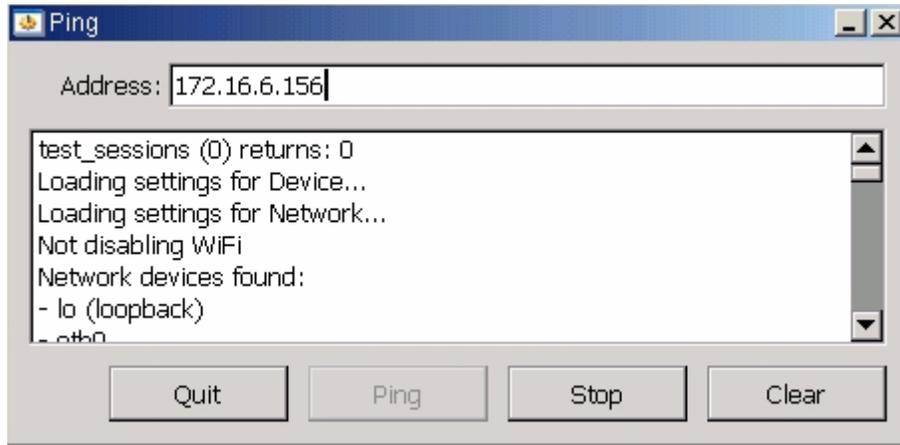
The Host Table may be used to set the host table; this table associates IP addresses with logical names.

A Hosts Table entry might be used for example to access a web page by domain name when a DNS server is not accessible.



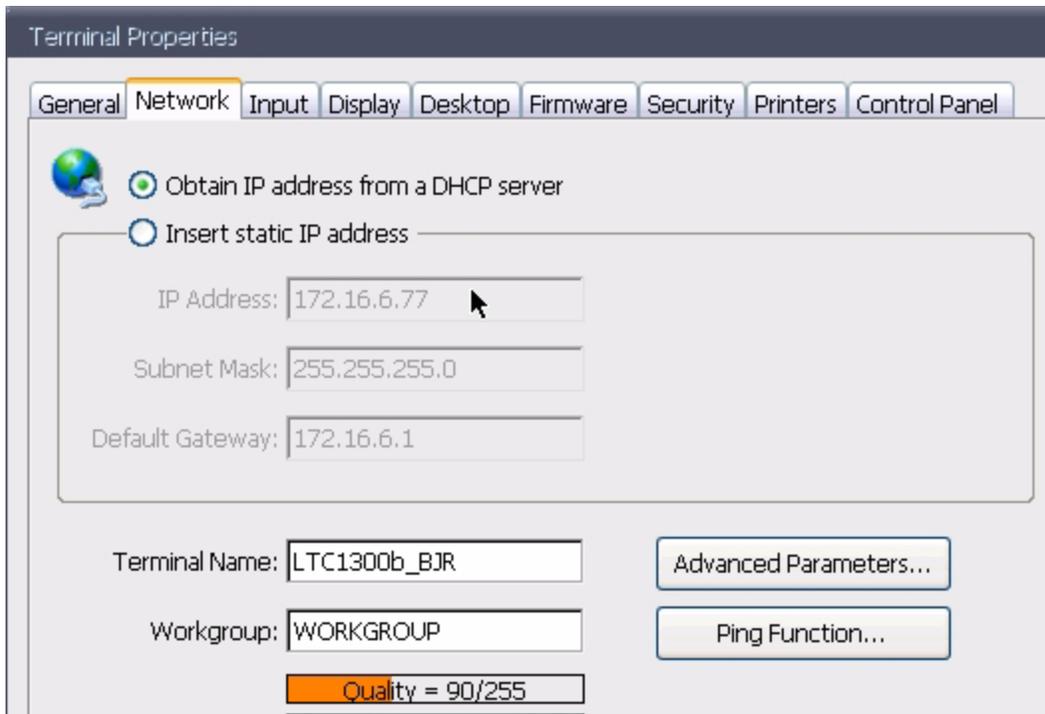
The Ping Function may be used to ping other terminals or servers on the network to verify the network connection.





## Configure Wireless NIC

From the Terminal Properties Network tab select Advanced Parameters.



The Wireless Parameters option does not appear unless the unit recognizes it has a wireless NIC.

Select Wireless Parameters

Advanced Network parameters

Enable DNS

Default Domain: bosanova.net

DNS 1 Address: 172.16.6.171

DNS 2 Address:

Advanced parameters

Network:

Broadcast:

Wireless Parameters...

Hosts Table...    DHCP Log File...    DHCP Leases...

Disable WiFi    DHCP Renew

OK    Cancel

Enter the Network Name (SSID)

To use WEP:

Check to Enable Crypting and select the WEP Encryption. Enter the Hex or ASCII Key configured in the wireless router.

Wireless Network: Parameters

MAC address: 00:05:7B:23:06:24

SSID:  Refresh

Enable Crypting

Security Mode:

WPA Algorithm:

Passphrase:

SSID Mode:

Wireless Status

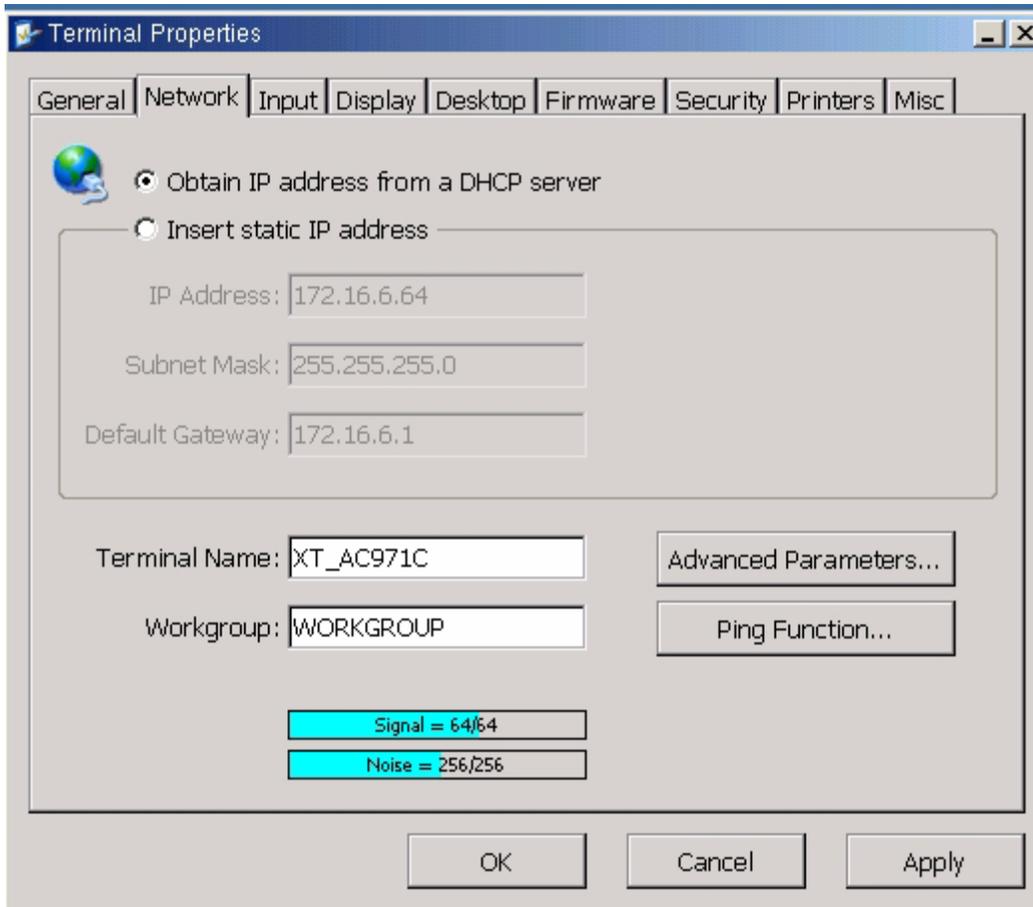
Refresh

Quality = 100/100

Signal = 50/48

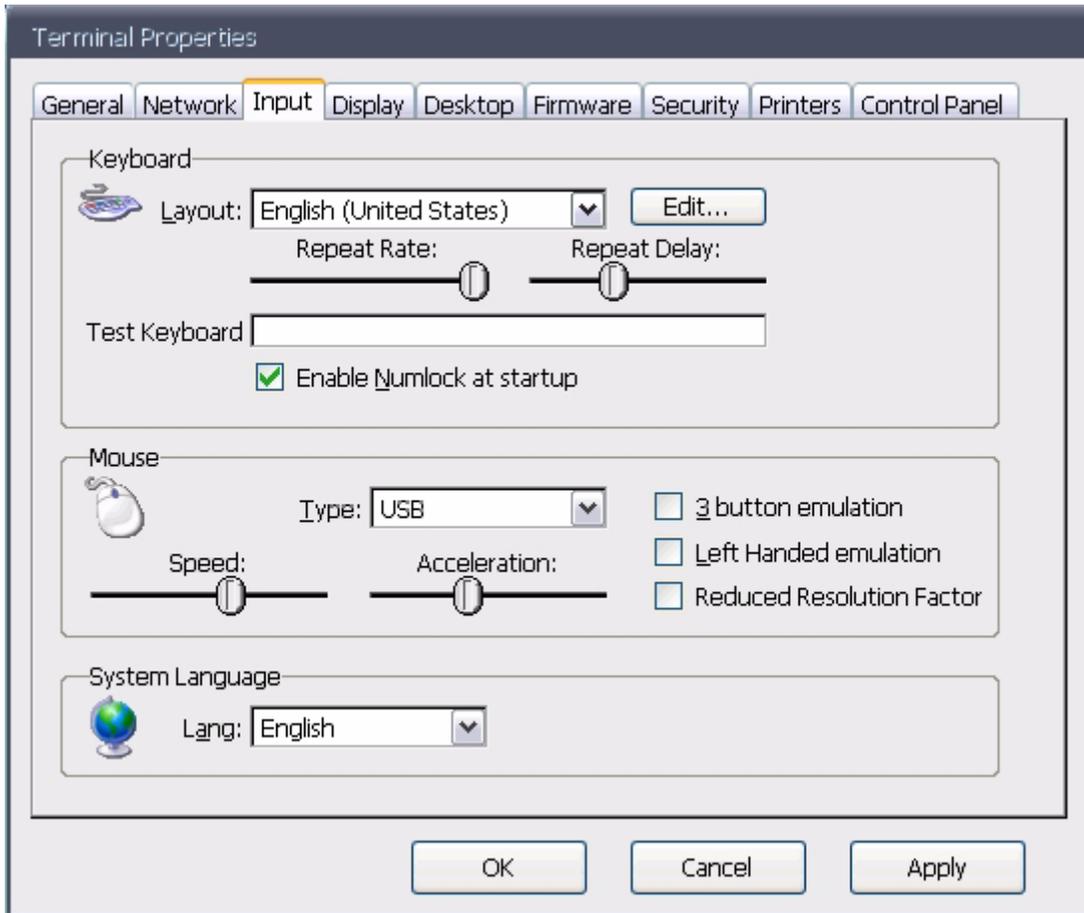
Noise = 256/256

Once configured correctly and connected to the network the signal strength will show on the network tab.

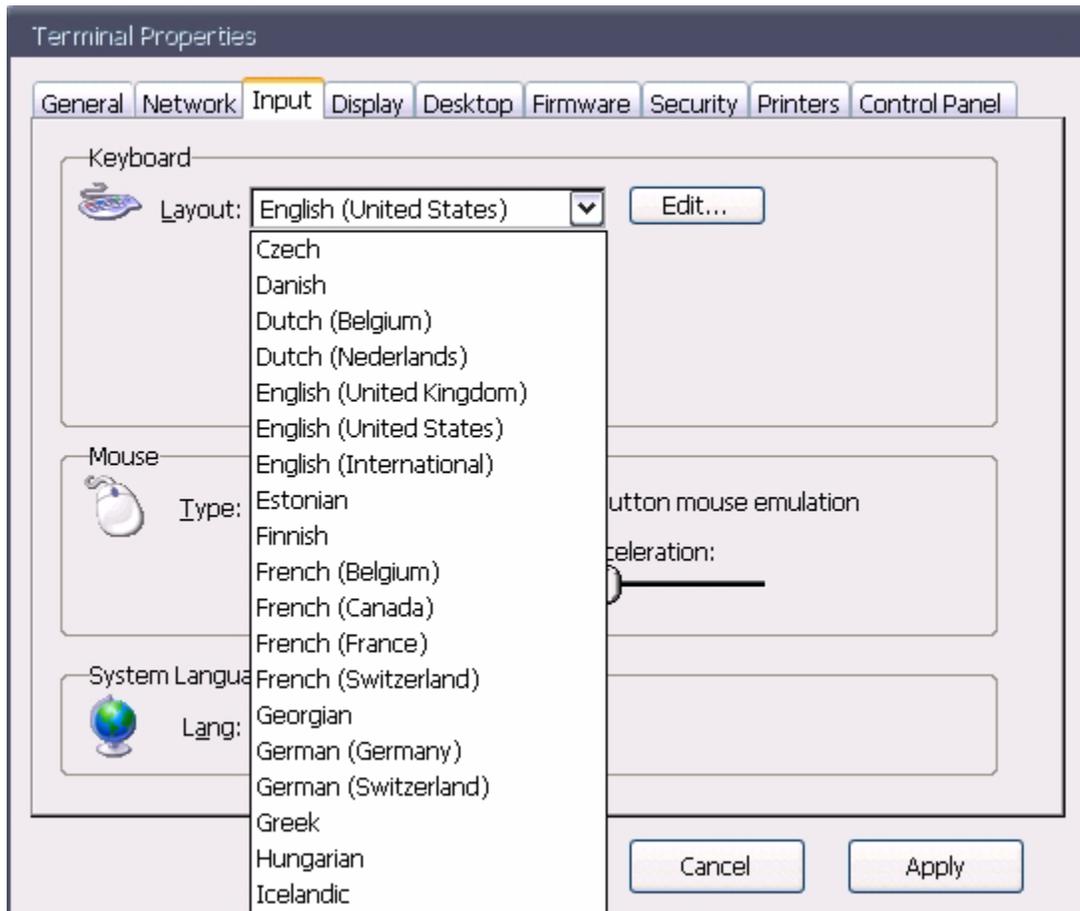


# Terminal Properties – Input Tab

The Input configuration page allows the user to set the default keyboard layout, the mouse type, and the default language for the terminal as shown in images below.

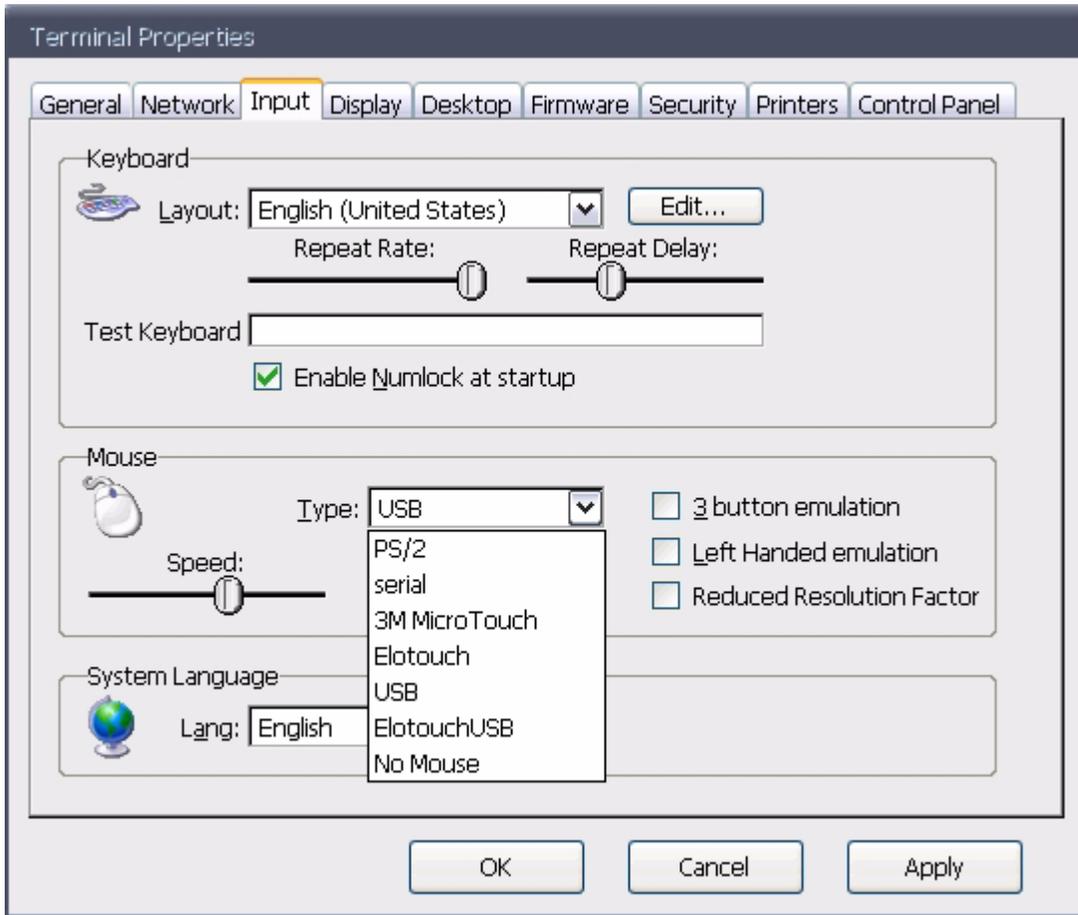


Options for Keyboard Layout:



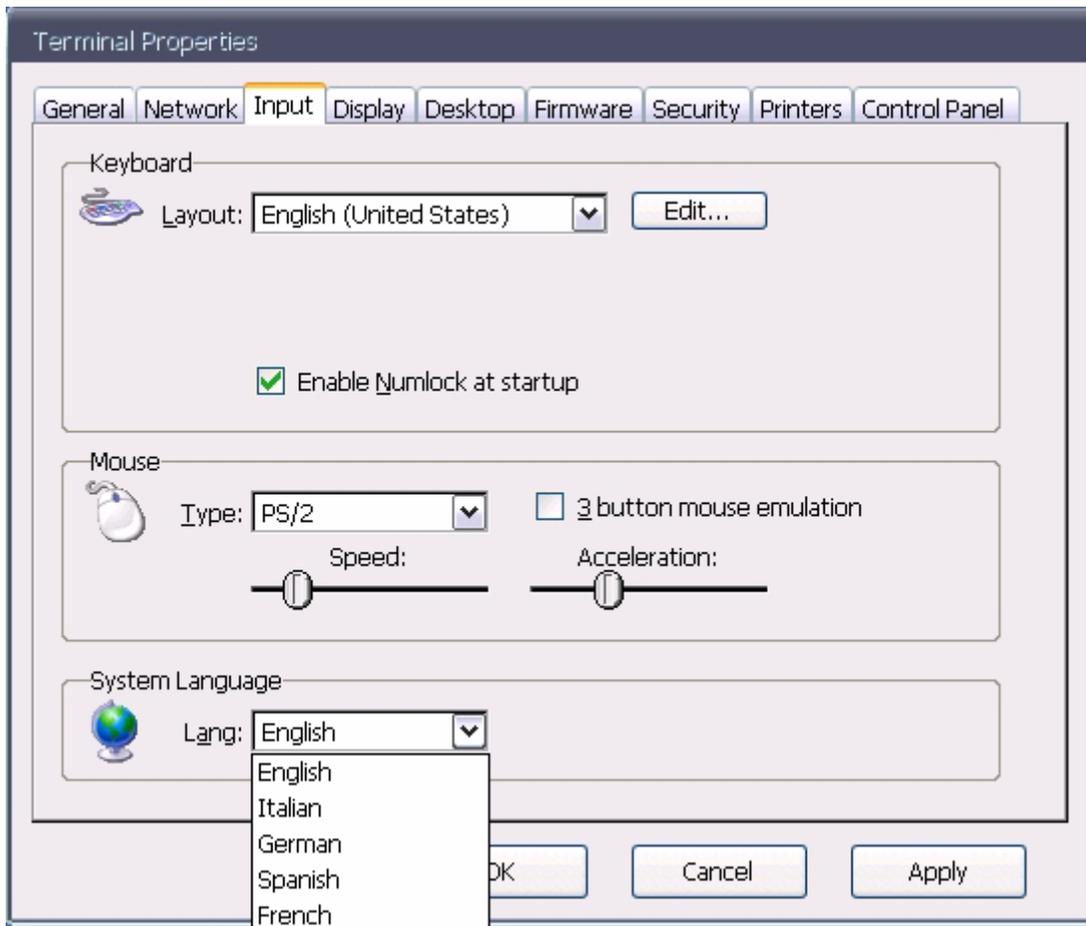
**Enable numlock at startup** is checked by default, to disable, uncheck.

Mouse Type options below:



Mouse type must be selected correctly or the keyboard may not respond as expected. The default is type PS/2. If no mouse is to be used, the **No Mouse** type must be selected by either using the remote terminal manager to configure or by using a mouse, applying the change and then removing the mouse.

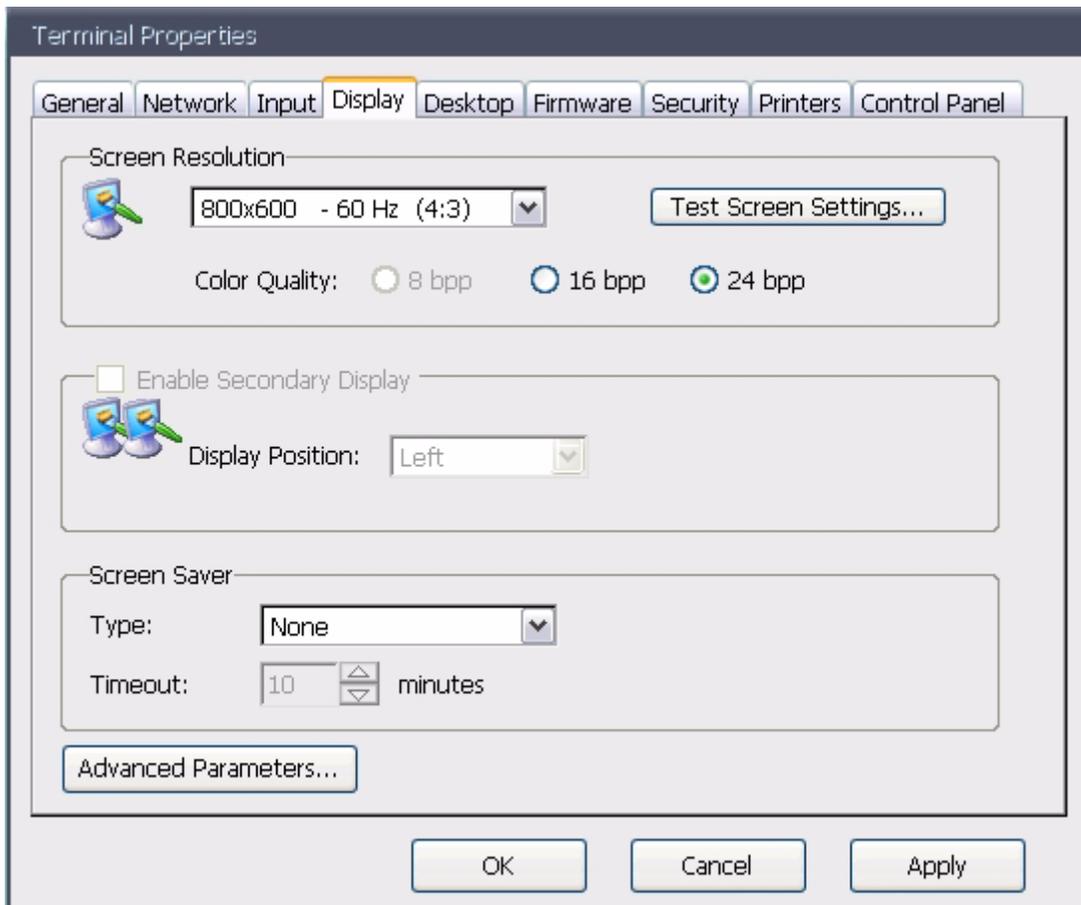
System Language options below:



## Terminal Properties – DisplayTab

The Display configuration page allows the user to control the parameters of the video display. The Video Resolution drop down box displays the available resolutions and frequencies for the video adapter. Whenever choosing a resolution / display frequency make sure to use the Test Video Settings option to make sure this setting is viewable on your monitor.

The Screen Saver option controls the mode of the screen saver.

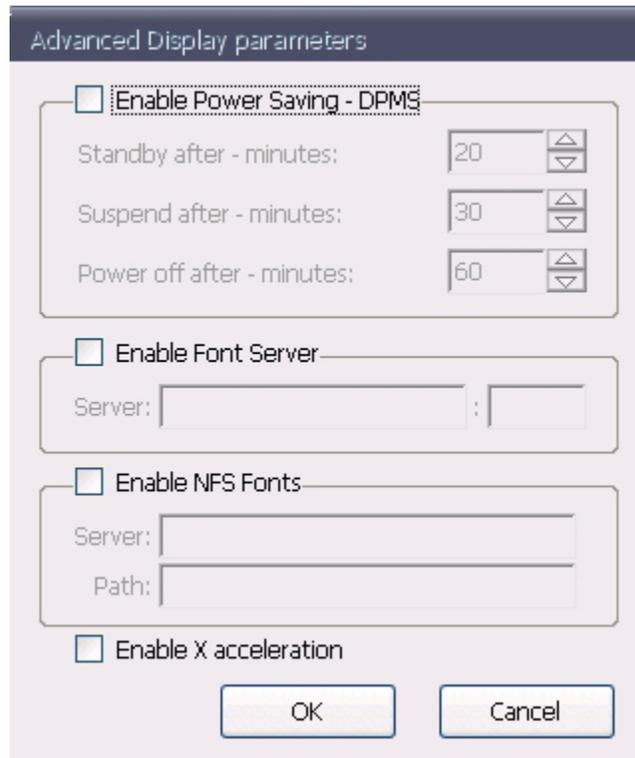


### NOTE:

It is possible to set the thin client's video resolution out of range for the monitor. A good indication of this issue would be, after making the change, the unit boots to a blank black screen yet can be seen and configured from the remote terminal manager. To resolve this issue, reset the factory defaults and set the resolution to a frequency the monitor can support or change the resolution using the remote terminal manager.

For additional parameters select the **Advanced Parameters** option.

Enable Power Saving - DPMS is not supported in the RBT or TBT models.



The image shows a dialog box titled "Advanced Display parameters". It contains several settings:

- Enable Power Saving - DPMS: This section is disabled. It includes three spinners: "Standby after - minutes:" (20), "Suspend after - minutes:" (30), and "Power off after - minutes:" (60).
- Enable Font Server: Includes a "Server:" field with a colon separator.
- Enable NFS Fonts: Includes "Server:" and "Path:" fields.
- Enable X acceleration

At the bottom are "OK" and "Cancel" buttons.

To supply additional fonts to the unit, check the Enable Font Server box and enter the server IP and port of the font server.

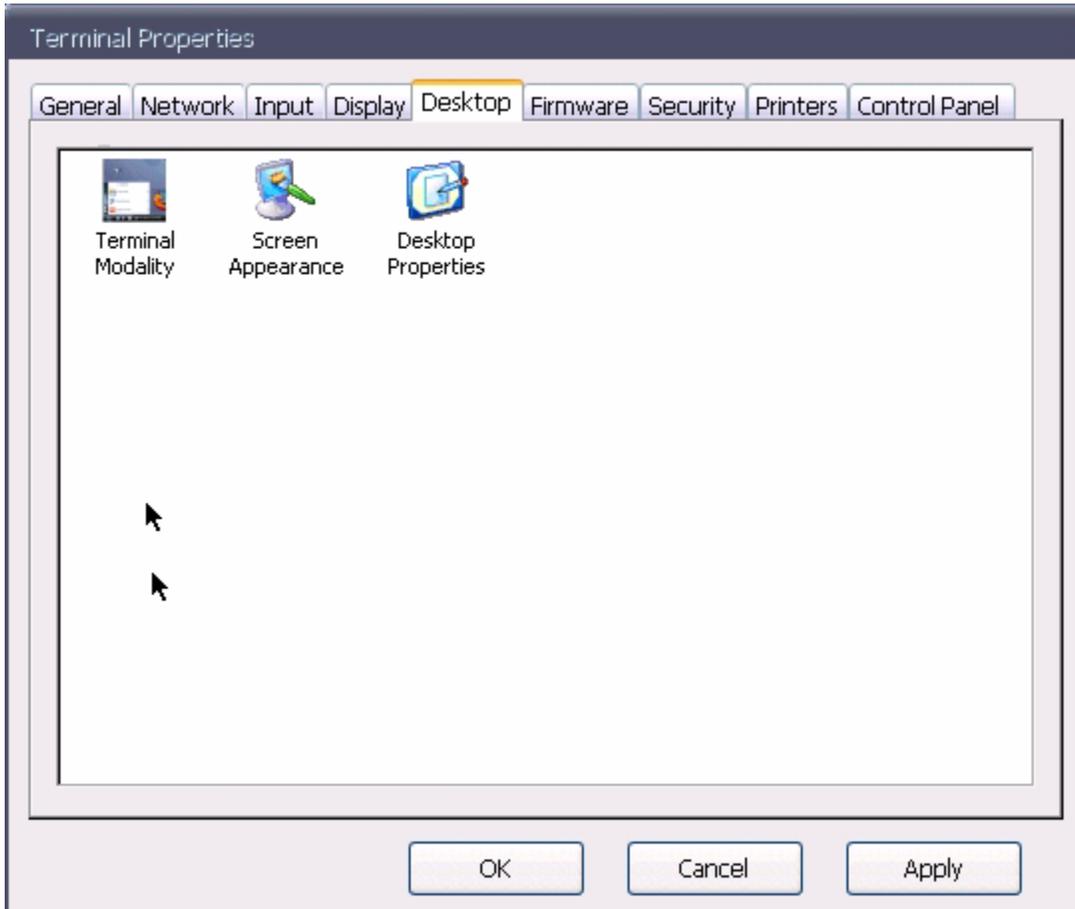
To access fonts available on an NFS font server, check the Enable NFS Fonts box and enter the server IP and path information to access the NFS fonts.

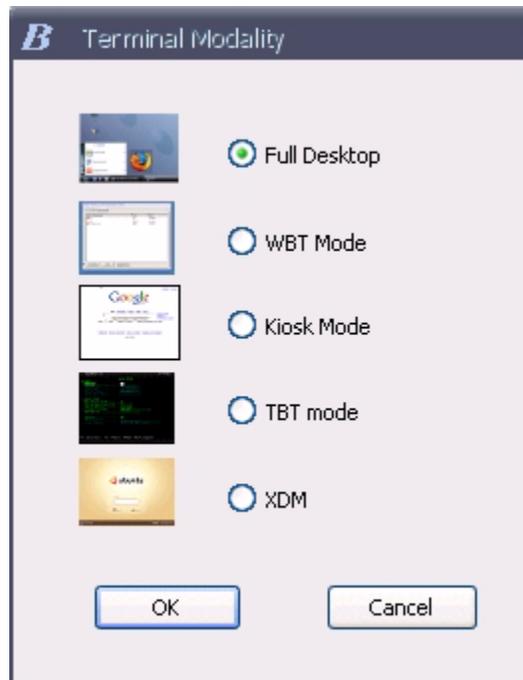
# Terminal Properties – Desktop Tab

The Desktop configuration controls the layout and scheme for the users desktop.

## Terminal Modality

There are five modes for the Window Manager, the WBT mode, the KIOSK mode, the Desktop mode, the TBT Mode and the XDM mode. The WBT, or Windows Based Terminal mode, only allows the user to launch predefined applications; these applications may include RDP, ICA, or emulation sessions. The Desktop mode is similar to a traditional desktop on a Windows based system; this mode provides a task bar, and a start menu similar to Windows 2000. The TBT mode is text based only (dumb terminal). The XDM mode is used with an X Windows System. All available programs loaded on the terminal are present on the start menu in this mode. Once the configuration is complete, the Terminal Properties can be hidden using the Security Tab.





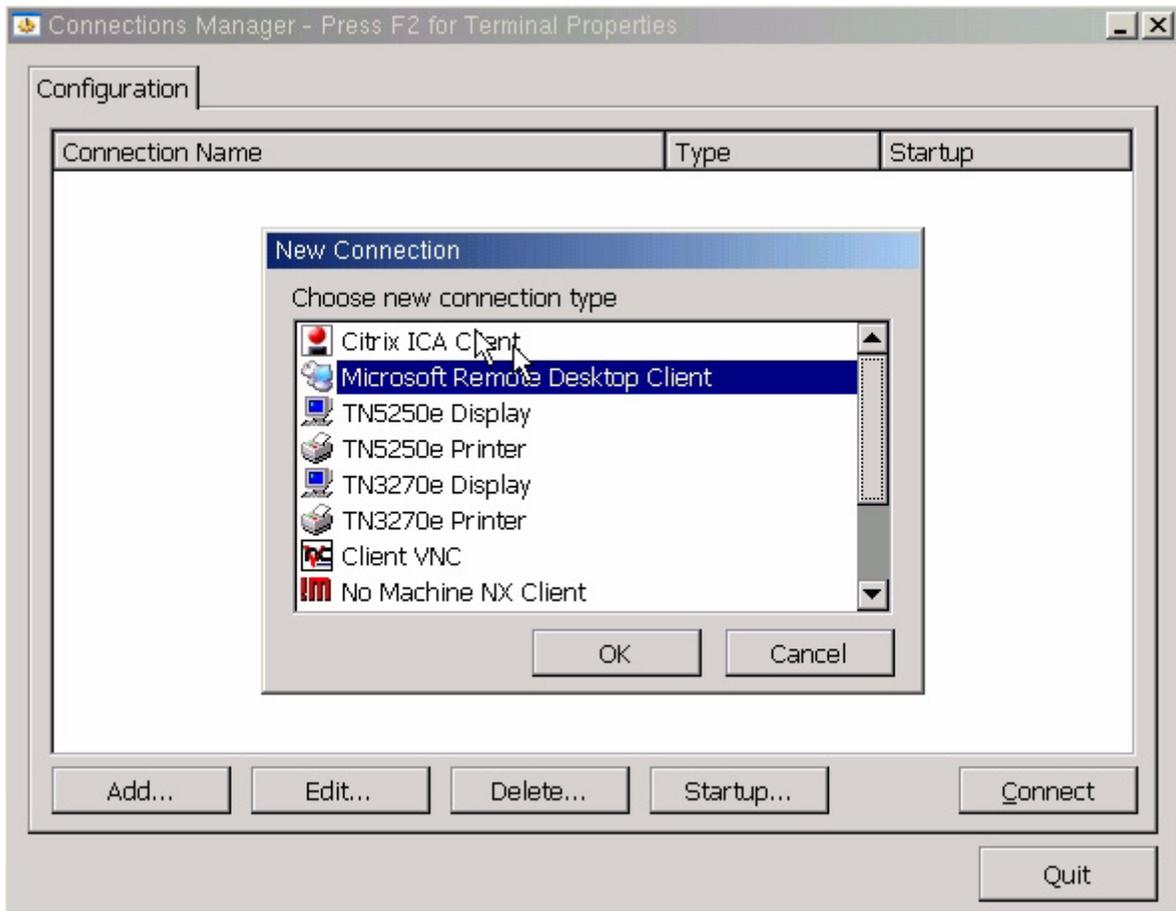
Full **Desktop** mode, there are a number of features shown on the task bar which may be enabled or disabled. These include the clock, the CPU load, the network load, and the virtual desktop. Additionally the taskbar position may be at the bottom or right. The taskbar also has an auto hide feature.

The **WBT** mode is suited for environments where administrators need to limit the flexibility of the user interface.

**KIOSK** mode is a user restricted mode.

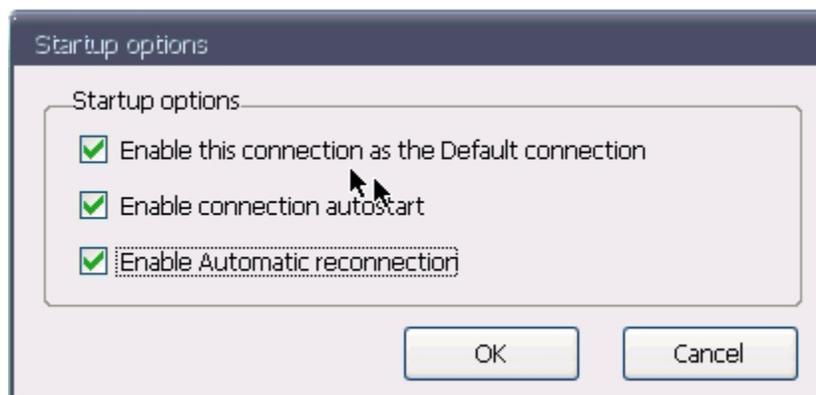
KIOSK Mode will limit the users access to a specific program. Example of kiosk mode using an RDP session below:

Add a new Microsoft Remote Desktop Client

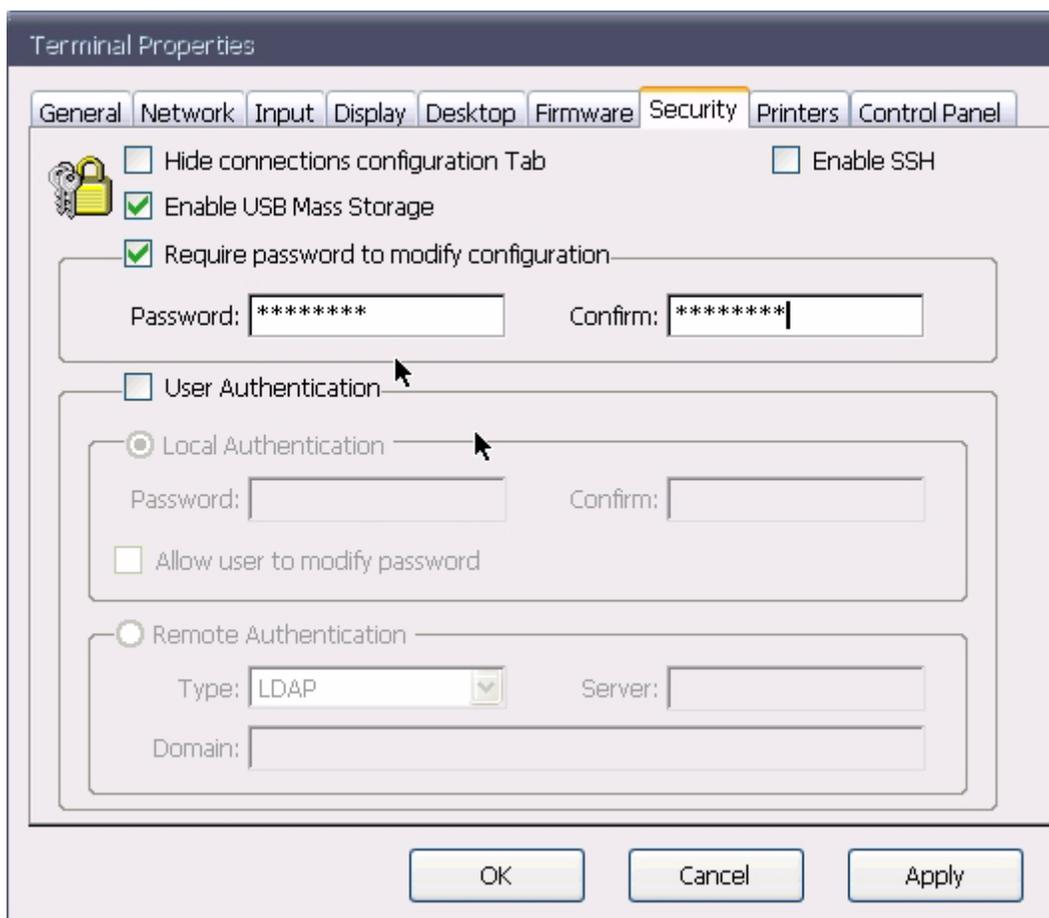


From the connections manager highlight the RDP session and select startup.

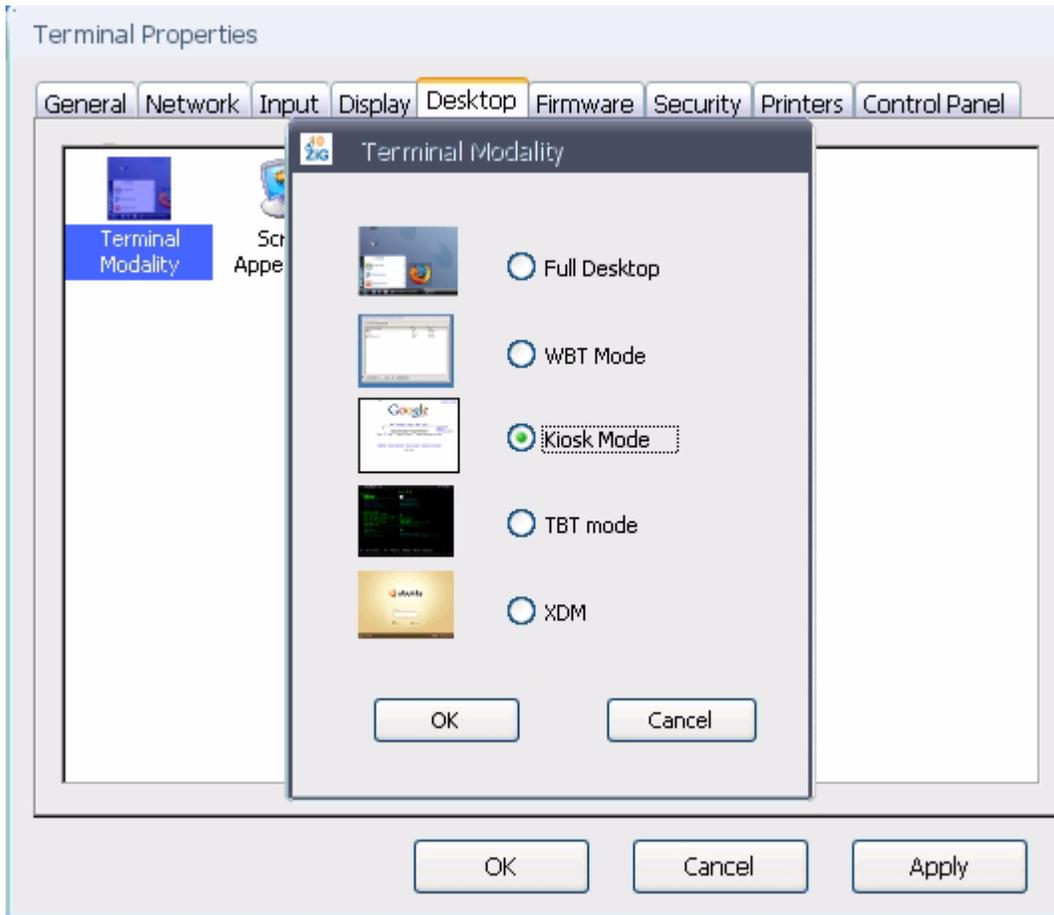
Check Enable this connection as the Default connection and check Enable connection autostart. You can also check Enable Automatic Reconnection which will automatically reconnect the browser session if for any reason it should disconnect.



In the Terminal Properties Security Tab, check to Hide the Connections Configuration Tab, check to Require Password to Modify Configuration.



From the Terminal Properties Desktop Tab, check KIOSK mode.



Terminal will reboot and immediately execute the RDP session.

**TBT** mode is for text based terminal - more like a dumb terminal.

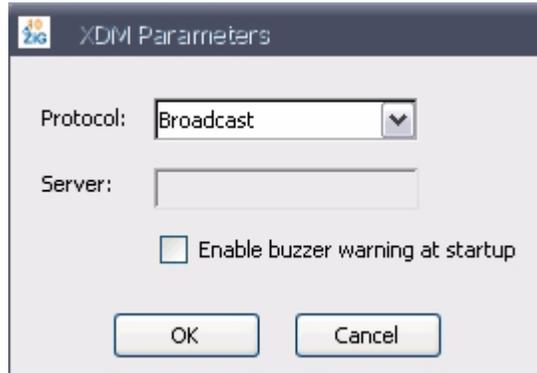
**XDM** mode (in full, the X Window Display Manager) is the default display manager for the X Window System. The Remote Window Manager-XDM allows the terminal to obtain the desktop remotely from another Unix or Linux system. This mode is essentially the Unix equivalent of RDP or ICA. The IP address of the remote Unix system must be entered.

XDM would typically run on an application server, to permit users to logon and run applications from that server. An XDM terminal is a machine with a network connection, keyboard, mouse and monitor, configured to run the X Windows System to connect to an application server somewhere on the network.

To use the XDM client, check Remote Window Manager - XDM - select the protocol and enter the IP of the XDM server

Full Desktop mode, there are a number of features shown on the task bar which may be enabled or disabled. These include the clock, the CPU load, the network load, and the virtual desktop. Additionally the taskbar position may be at the bottom or right. The taskbar also has an auto hide feature.

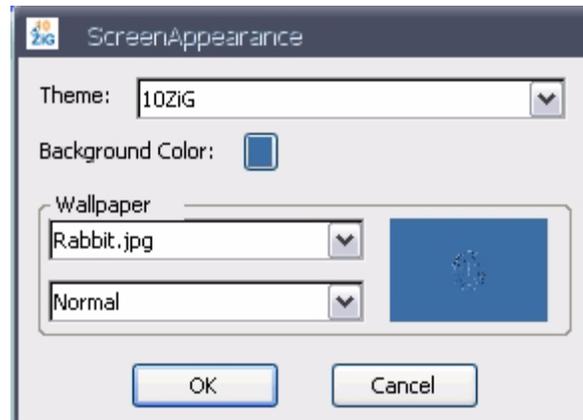
When you select the Remote Window Manager - XDM Parameters are presented:



When you select the Remote Window Manager - XDM a warning is presented:

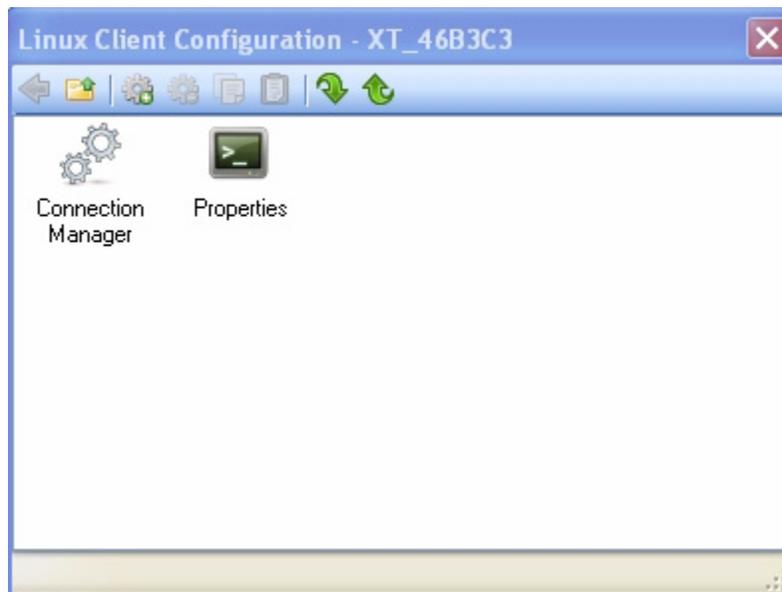


## Screen Appearance

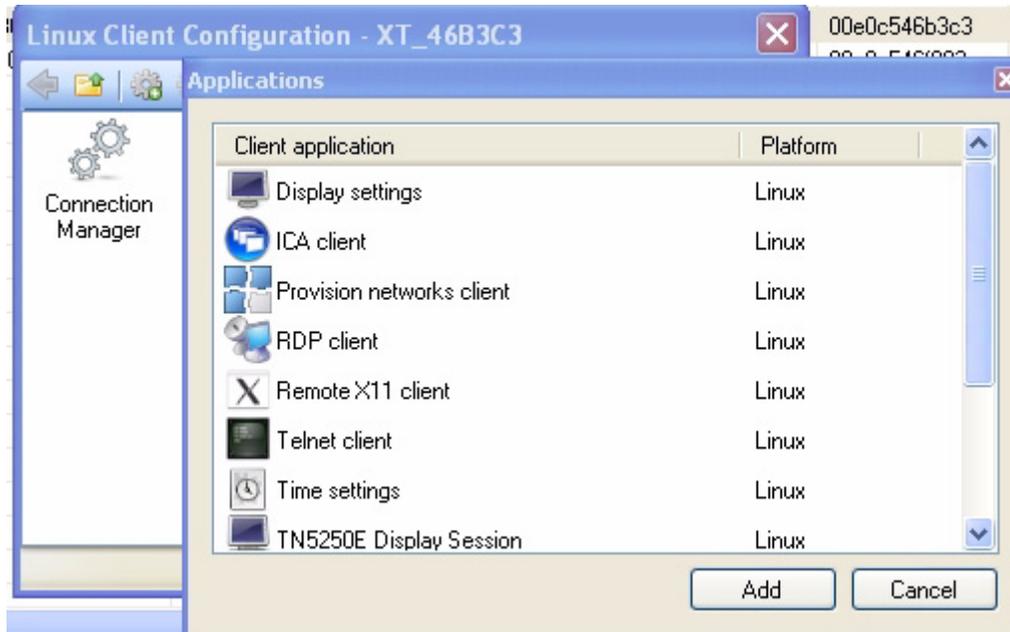


### For a custom wallpaper:

From the 10ZiG Manager, right click on the thin client and select Configuration - Edit.

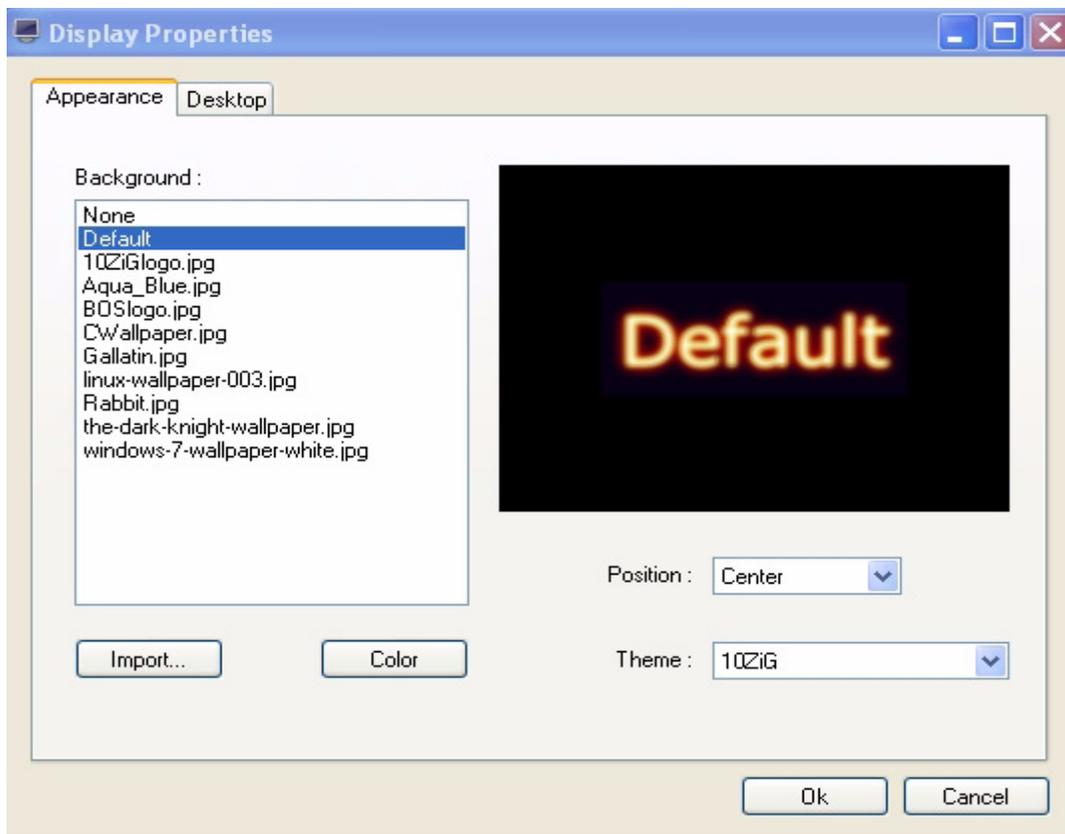


Click on the Add Configuration Icon.



Click on Display Settings and Select Add

You can import an image or use of the the standard images on the thin client.



**only JPEG format is supported and file size must be < 50K.**

Once you set the background on one terminal, you can "clone" it using the 10ZiG Manager.

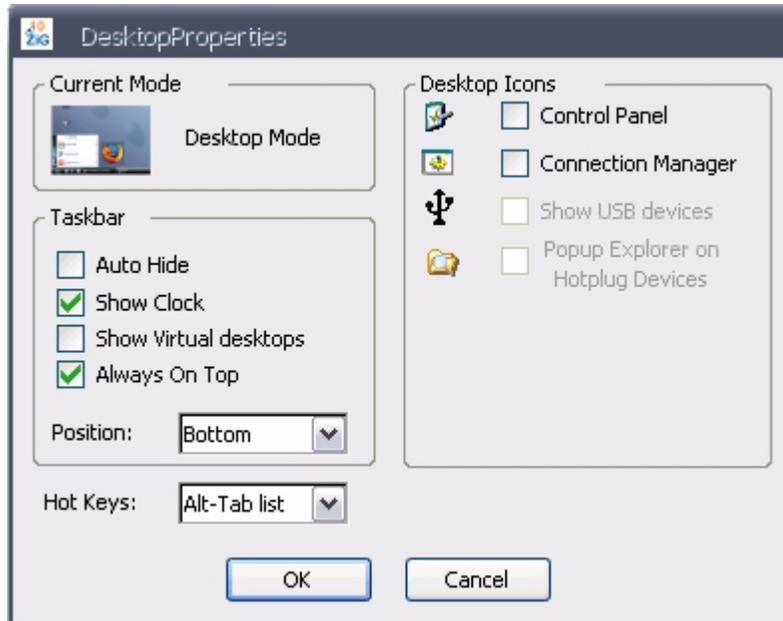
### **Background Color:**



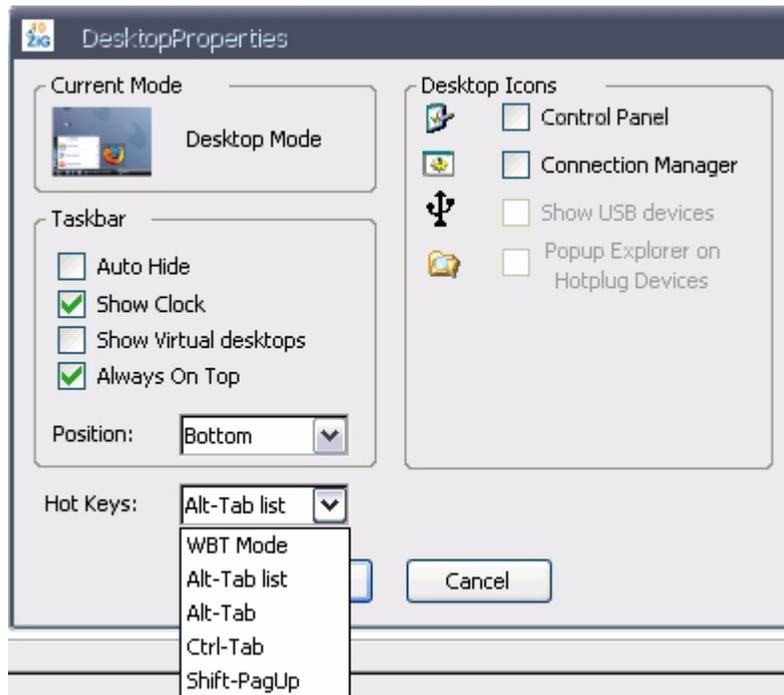
The Desktop color option controls the color of the desktop background, the theme and wallpaper. To change the desktop color, click on the color box and a grid of colors is presented. Click on the desired color change.

### **Desktop Properties**

IDesktop mode will give the most control in the look and feel of your desktop. To automatically hide the taskbar, check Auto Hide under taskbar. Uncheck Show clock to keep the clock from displaying on the taskbar. When a USB CD or USB Floppy is attached, check to show USB devices on the desktop for the corresponding peripheral device.



Hotkeys filter through opened sessions.



For example with the HotKeys set to Alt-Tab list the key function would filter through the 5250 sessions.

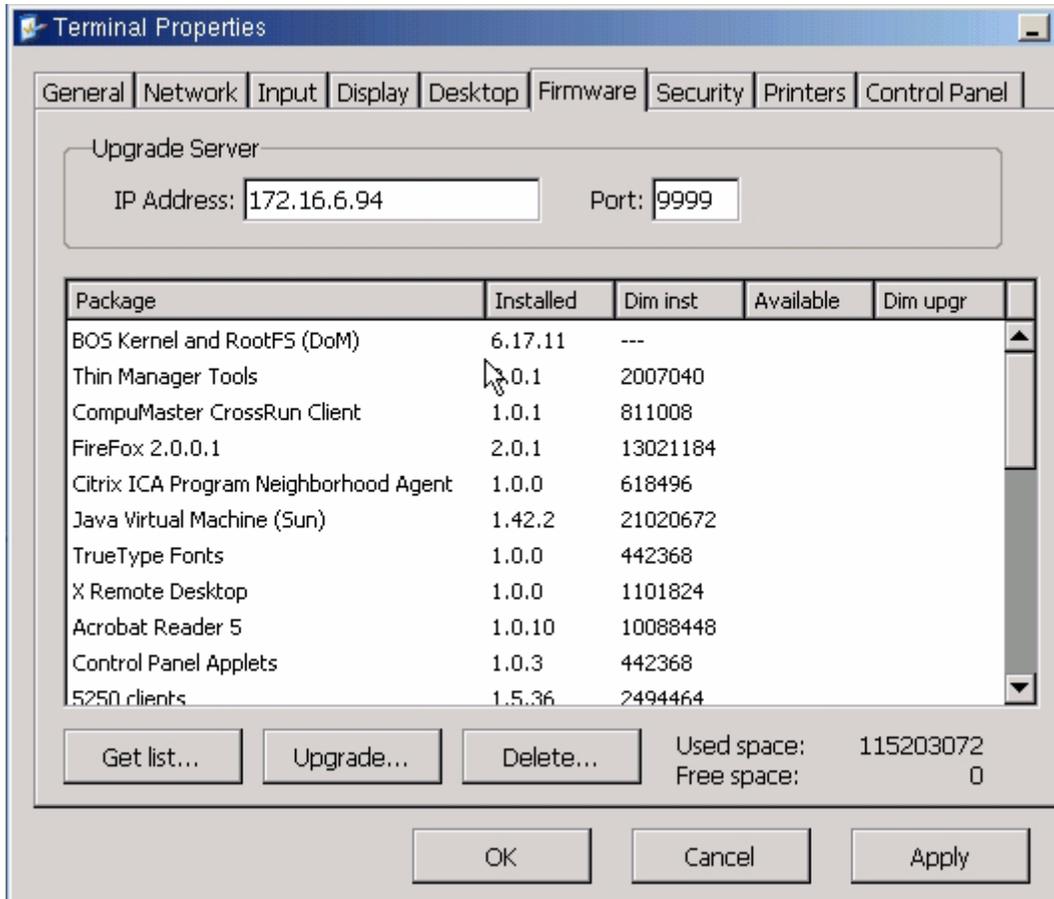
## Terminal Properties - Firmware Tab

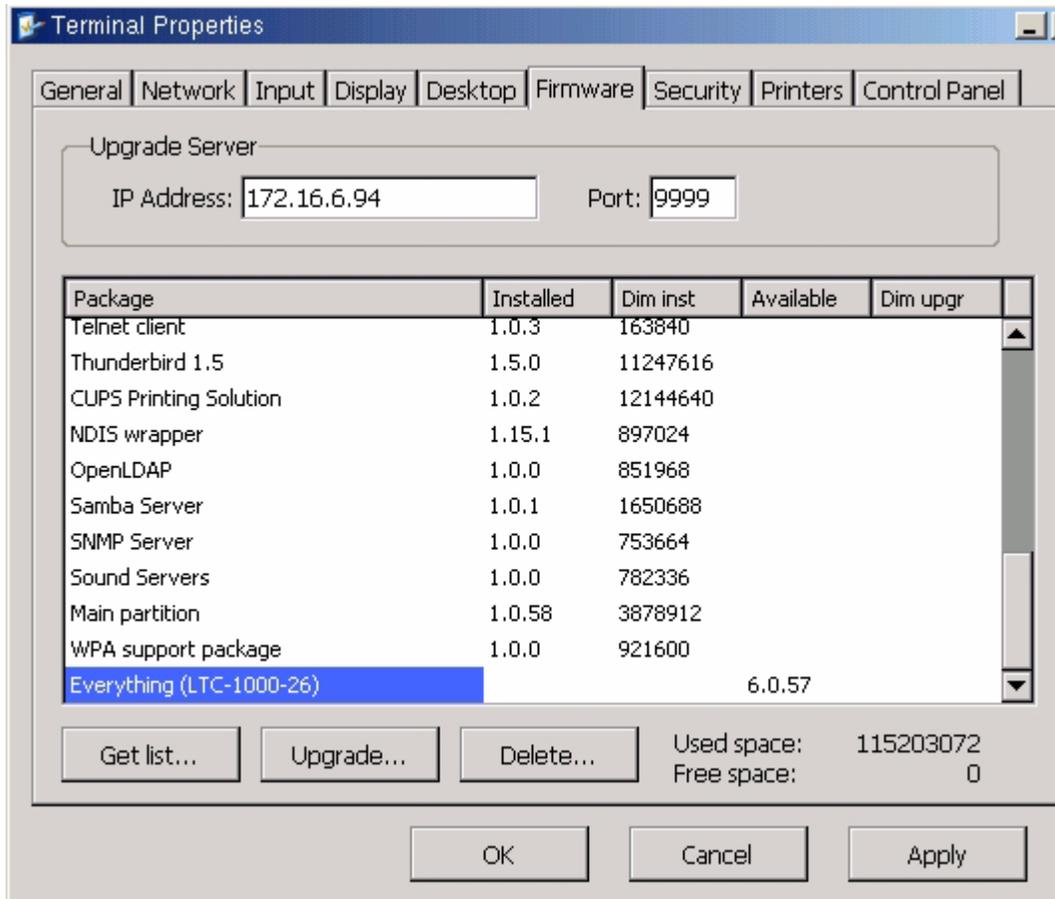
The Firmware configuration allows the user to upgrade the Thin Client firmware from a Windows machine on the LAN running the 10ZiG Manager. The IP address field should contain the IP address of the Windows machine on the LAN running the remote terminal manager. The Port number should be **8001 (port is 9999 when using the older BOSmanager)**. To list the available firmware packages for upgrade, click the Get List button. If the terminal can contact the Windows machine running the remote terminal manager, a list of packages will appear in the list box. You may upgrade a single package by selecting the package in the list box and clicking the Upgrade button. Selecting the **Everything** option in the list box will upgrade all packages.

The screenshot shows the 'Terminal Properties' dialog box with the 'Firmware' tab selected. The 'Upgrade Server' section contains an 'IP Address' field and a 'Port' field with the value '9999'. Below this is a table with columns for 'Package', 'Installed', 'Dim inst', 'Available', and 'Dim upgr'. At the bottom, there are buttons for 'Get list...', 'Upgrade...', and 'Delete...', along with space usage information: 'Used space: 324861952' and 'Free space: 105039872'. The dialog also has 'OK', 'Cancel', and 'Apply' buttons at the very bottom.

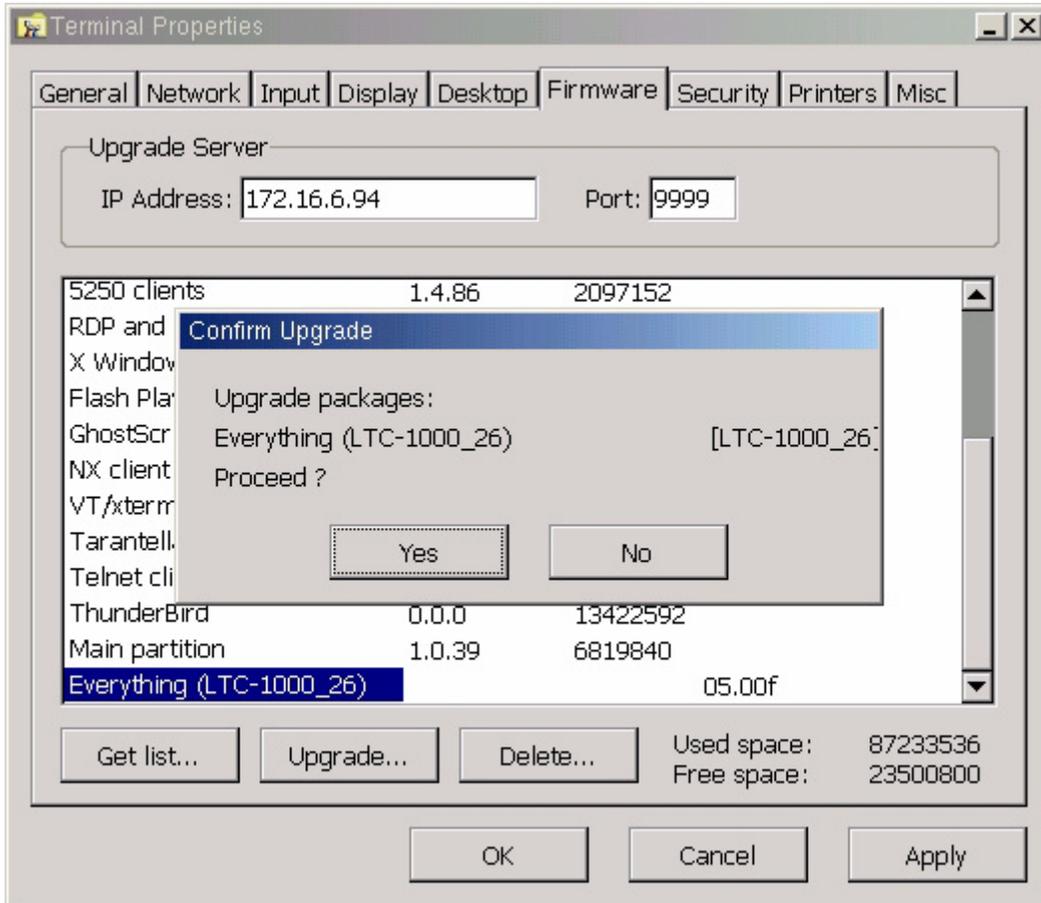
Package	Installed	Dim inst	Available	Dim upgr
---------	-----------	----------	-----------	----------

Used space: 324861952  
Free space: 105039872





Note: Unless information is displayed in the **Available** column, it is not available to install.



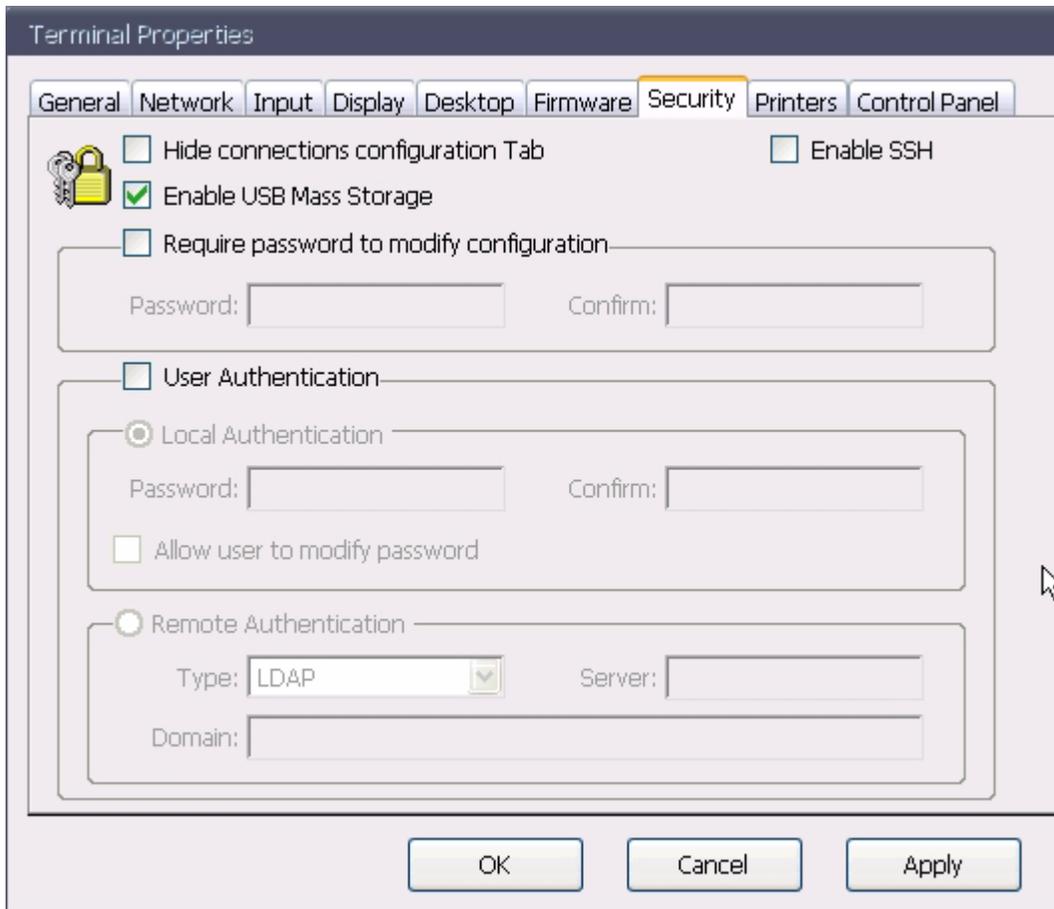
# Terminal Properties - Security Tab

The Security configuration allows the administrator to control access to the various terminal functions and configurations.

Selecting the **Hide connections configuration Tab** will hide the Terminal Connection Configuration utility from the user.

The **Allow Shadowing View Only** and **Allow Shadowing Full Control** allows the administrator to enable shadowing from the remote terminal manager - running on another Windows machine on the LAN. Shadowing uses VNC client from the remote terminal manager to view or control the terminal. This is useful if the administrator needs to remotely monitor the terminal activity, or take full control of the terminal from a remote location.

The **Require password to modify configuration** allows the administrator to specify a password in order to reconfigure the terminal. If this password has been set and then lost, a factory default reset using **SHIFT-CTL-ALT and F** is the only option to clear it

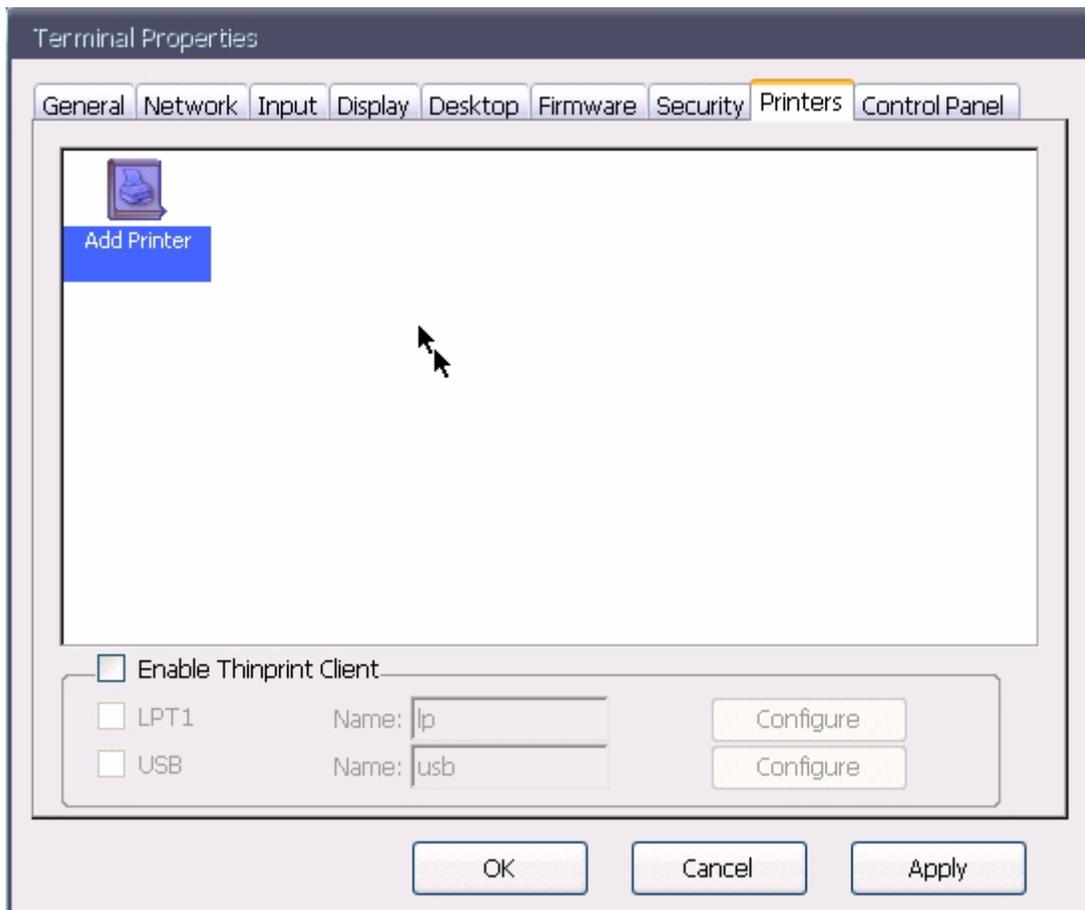


User Authentication is used to force a user to logon to the thin client locally with a password - the option also allows for the user to modify the local password if selected. Remote Authentication through Configuration Server is used for LDAP Windows domain login.

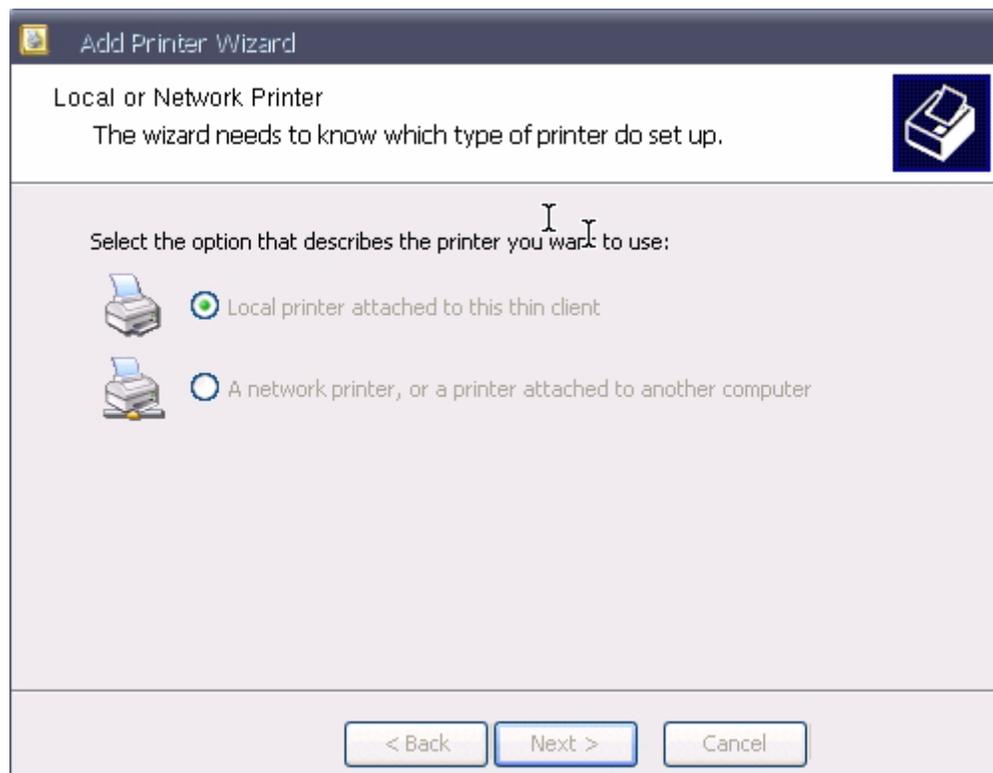
# Terminal Properties - Printers Tab

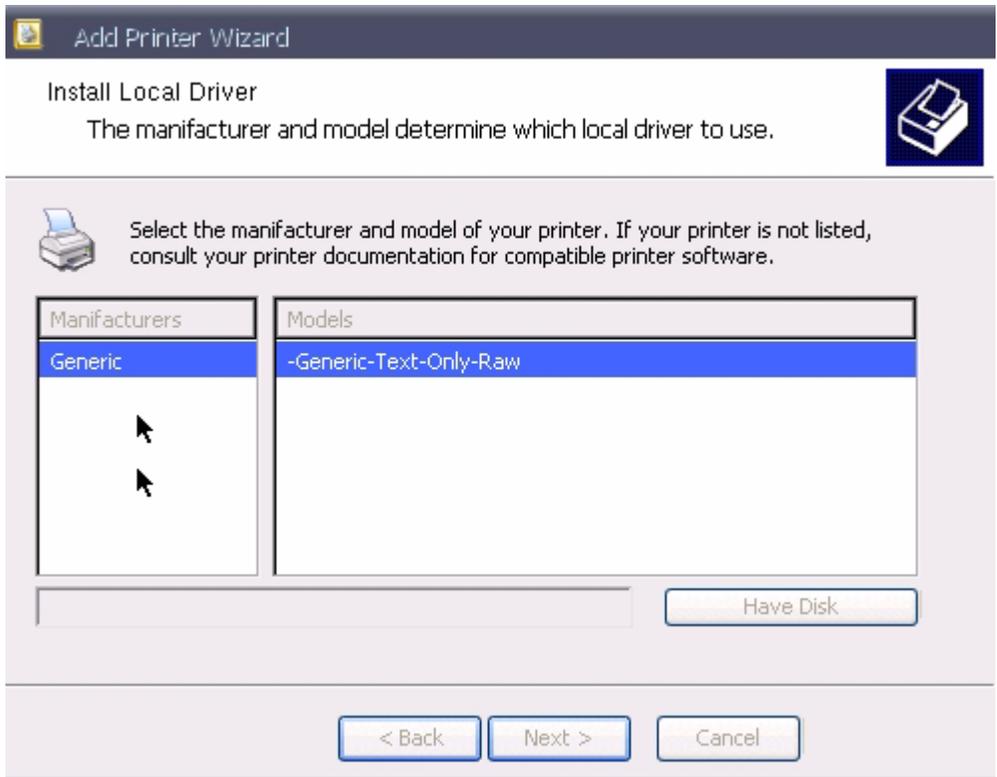
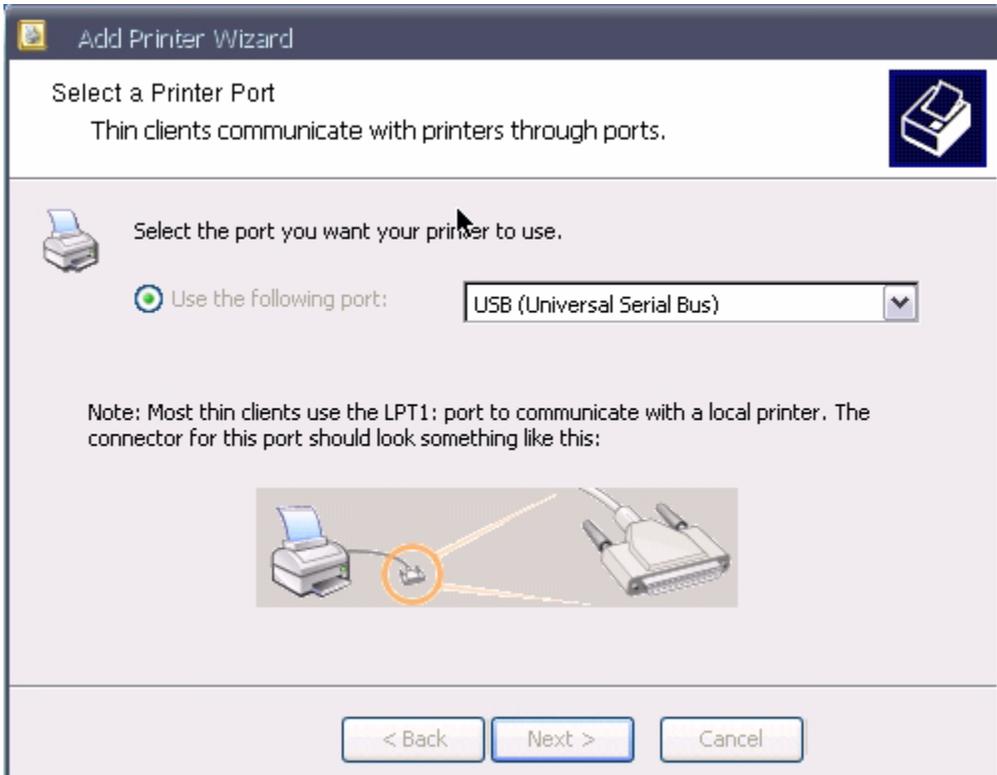
A local or network printer can be added for use in Citirx or RDP

**NOTE:** 5250 and 3270 Printer sessions are configured totally separate from the printer configuration in Terminal Properties. Terminal Properties - Misc Tab



## Add a local printer:





**Add Printer Wizard**

### Name Your Printer

You must assign a name to this printer.

Type a name for this printer. Keep the name as short as possible.

Printer name:

CUPS name:

Do you want to use this printer as the default printer?

Yes

No

< Back    Next >    Cancel

**Add Printer Wizard**

### Printer Sharing

You can share this printer with other network users.

If you want to share this printer, you must provide a share name (for SMB), queue name (for LPD/LPR) or port number (for RAW).

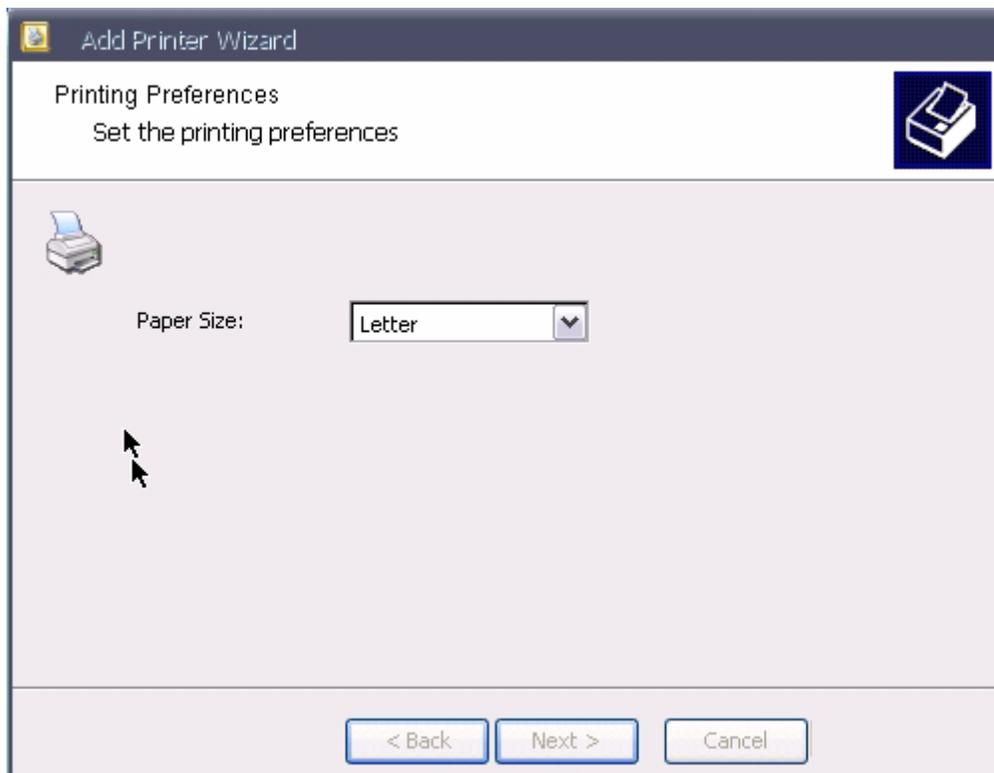
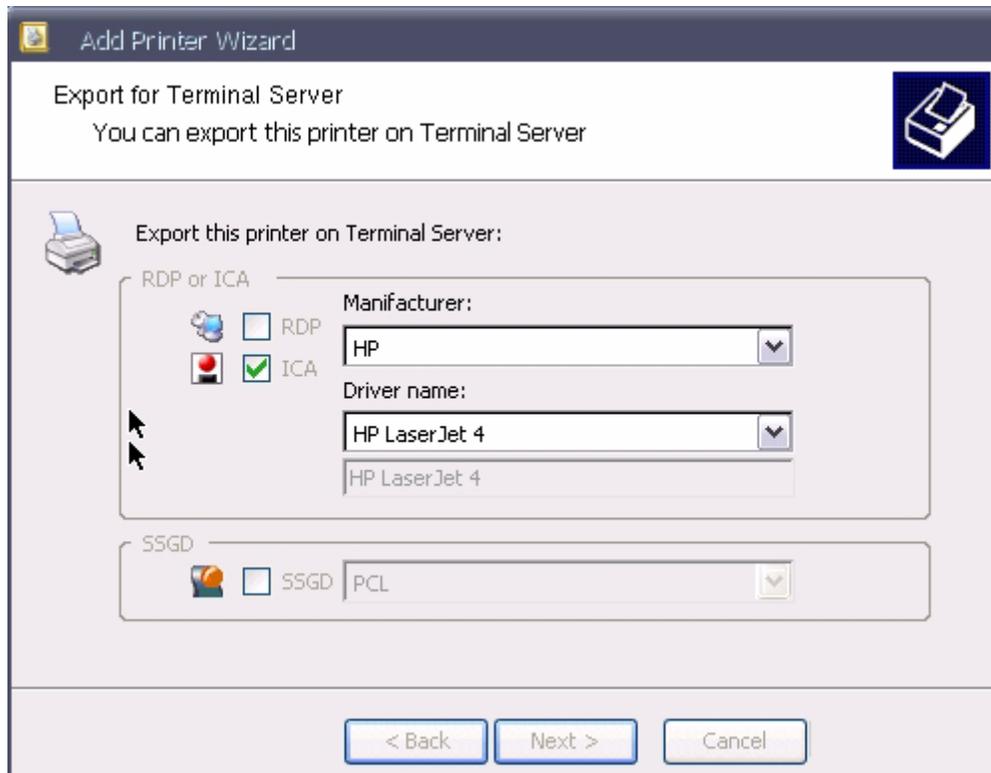
Do not share this printer

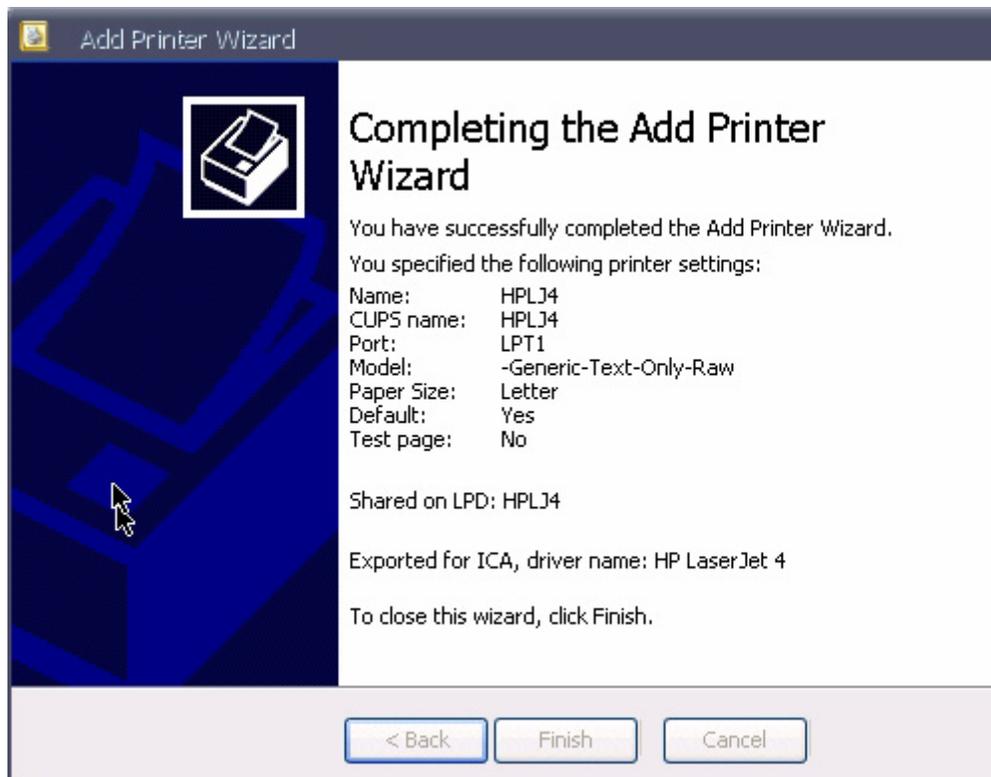
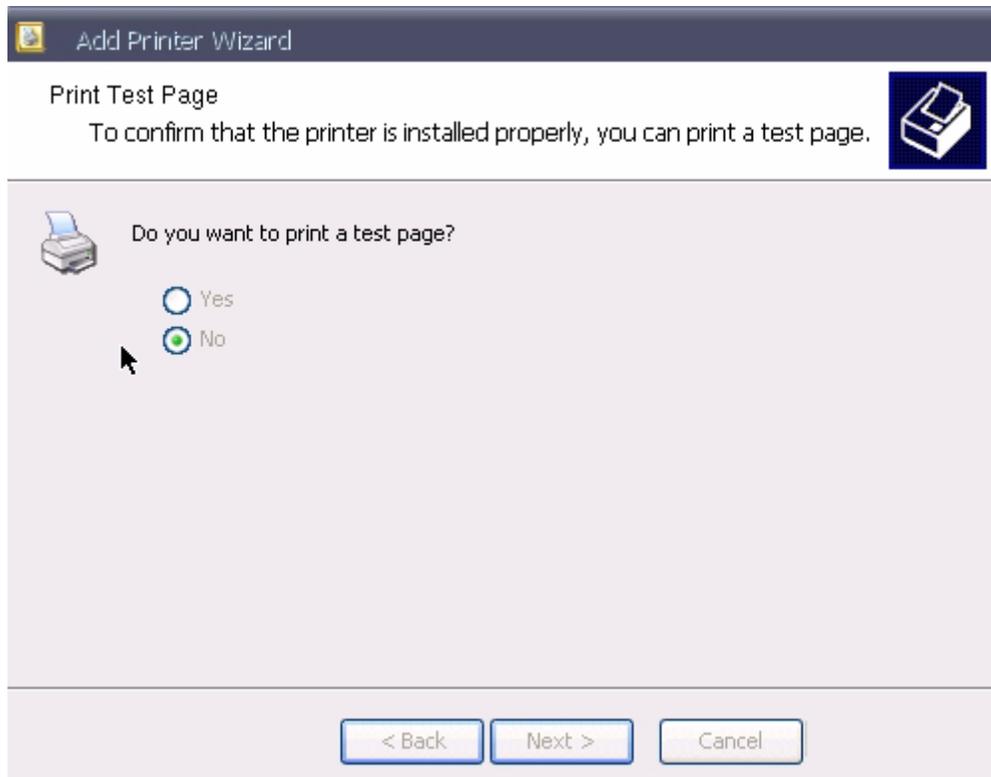
Share with SMB protocol:      Samba name:

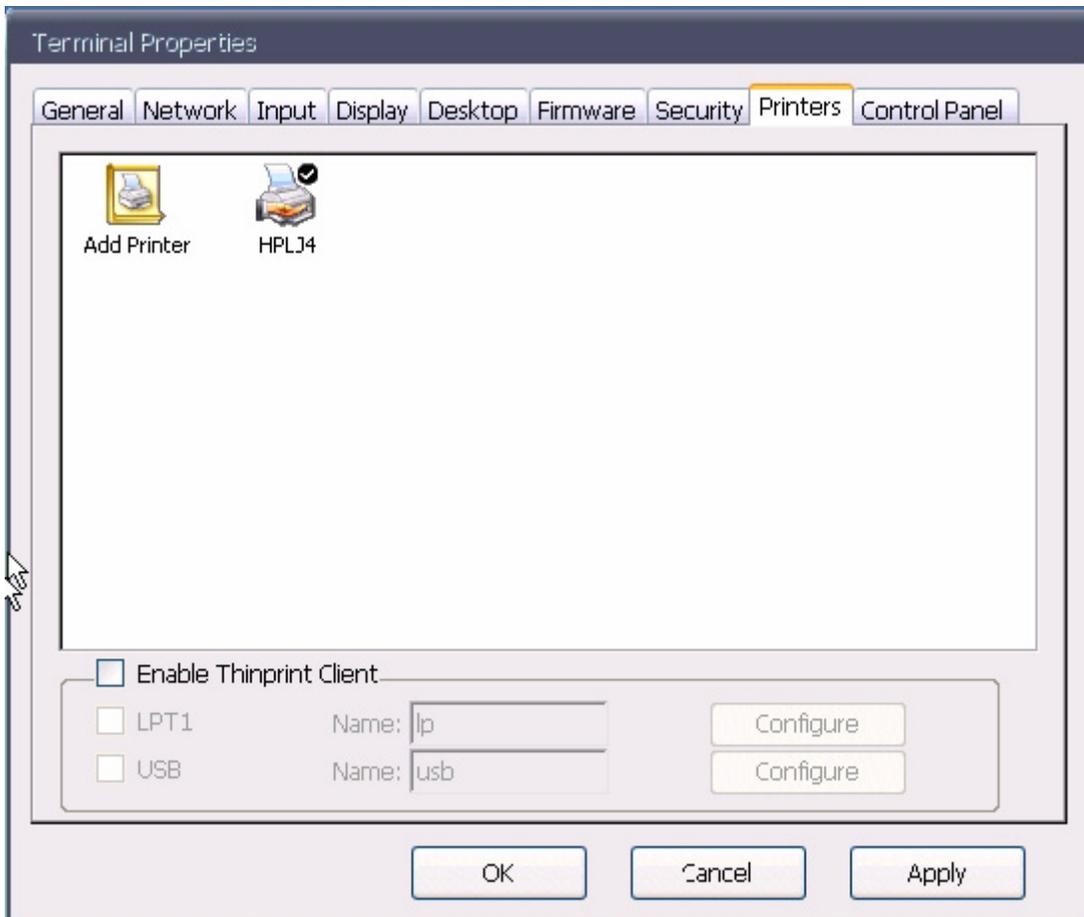
Share with LPD/LPR protocol:      Queue name:

Share with RAW protocol:      Port:

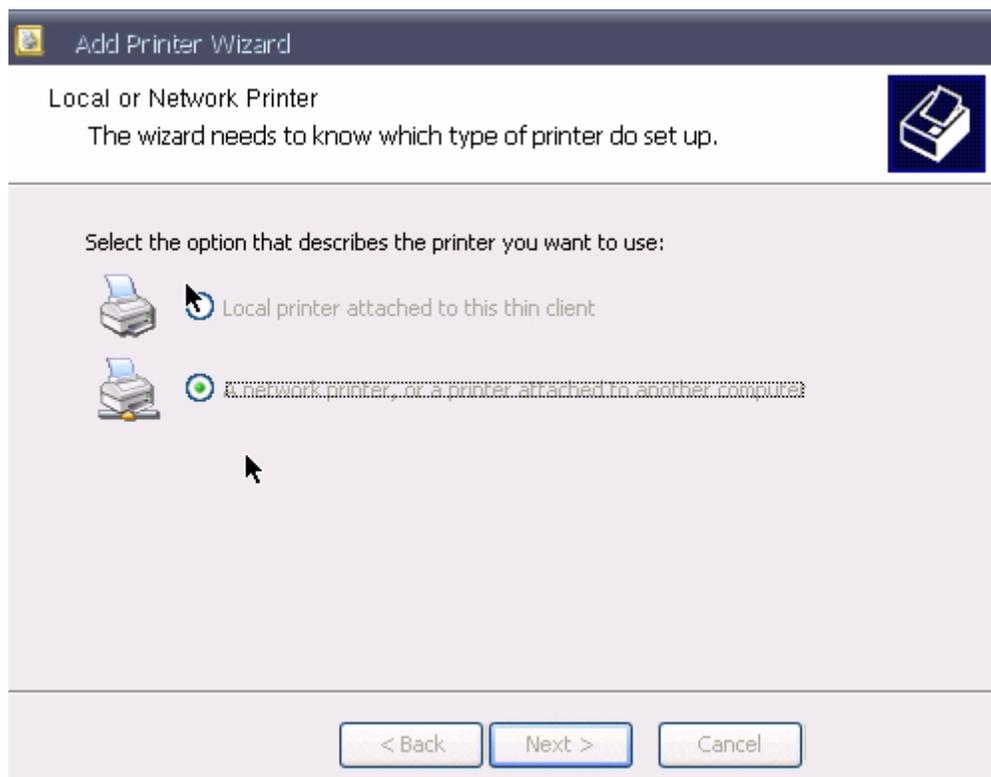
< Back    Next >    Cancel







## Add a Network Printer



**Add Printer Wizard**

### Specify a Printer

If you don't know the name or address of the printer, you can search for a printer that meets your needs.

What printer do you want to connect to?

Connect to this printer (SMB protocol):  
 IP/Name:  Printer name:   
 Connect to this printer (LPD/LPR protocol):  
 IP/Name:  Queue name:

Connect to this printer (RAW protocol):  
 IP/Name:  Port:

**Add Printer Wizard**

### Install Local Driver

The manufacturer and model determine which local driver to use.

Select the manufacturer and model of your printer. If your printer is not listed, consult your printer documentation for compatible printer software.

Manufacturers	Models
Generic	-Generic-Text-Only-Raw

**Add Printer Wizard**

### Name Your Printer

You must assign a name to this printer.

Type a name for this printer. Keep the name as short as possible.

Printer name:

CUPS name:

Do you want to use this printer as the default printer?

Yes

No

< Back   Next >   Cancel

**Add Printer Wizard**

### Printer Sharing

You can share this printer with other network users.

If you want to share this printer, you must provide a share name (for SMB), queue name (for LPD/LPR) or port number (for RAW).

Do not share this printer

Share with SMB protocol: Samba name:

Share with LPD/LPR protocol: Queue name:

Share with RAW protocol: Port:

< Back   Next >   Cancel

**Add Printer Wizard**

**Export for Terminal Server**  
You can export this printer on Terminal Server

**Export this printer on Terminal Server:**

**RDP or ICA**

RDP  
 ICA

**Manufacturer:**  
Epson

**Driver name:**  
Epson ActionLaser II  
Epson ActionLaser II

**SSGD**

SSGD PCL

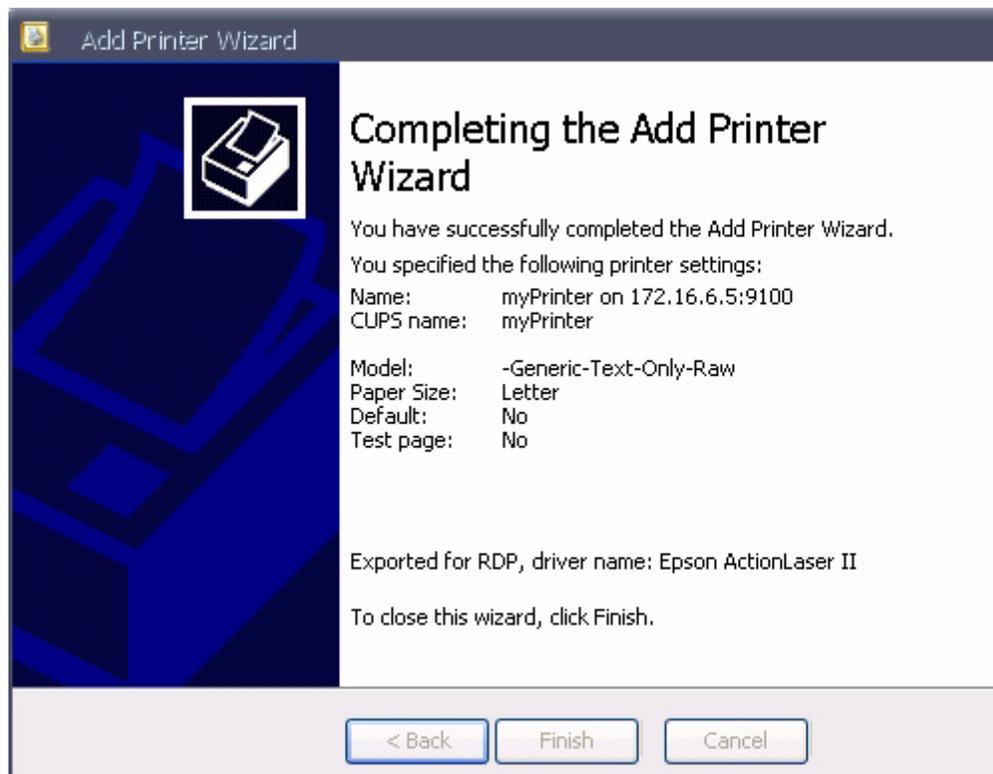
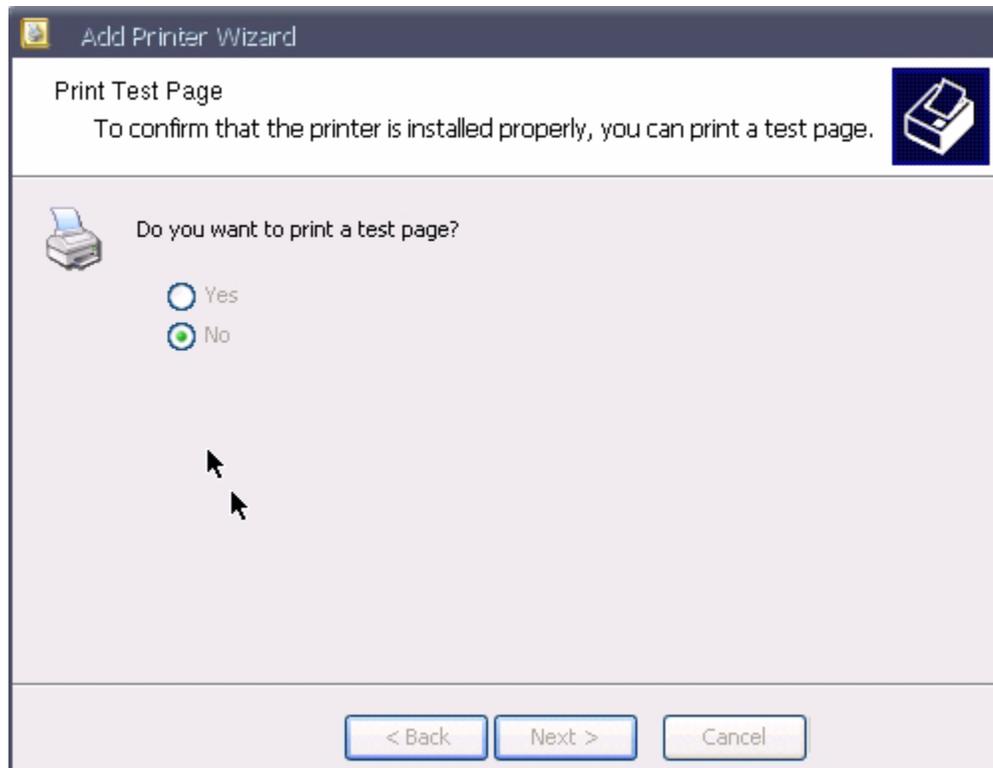
< Back   Next >   Cancel

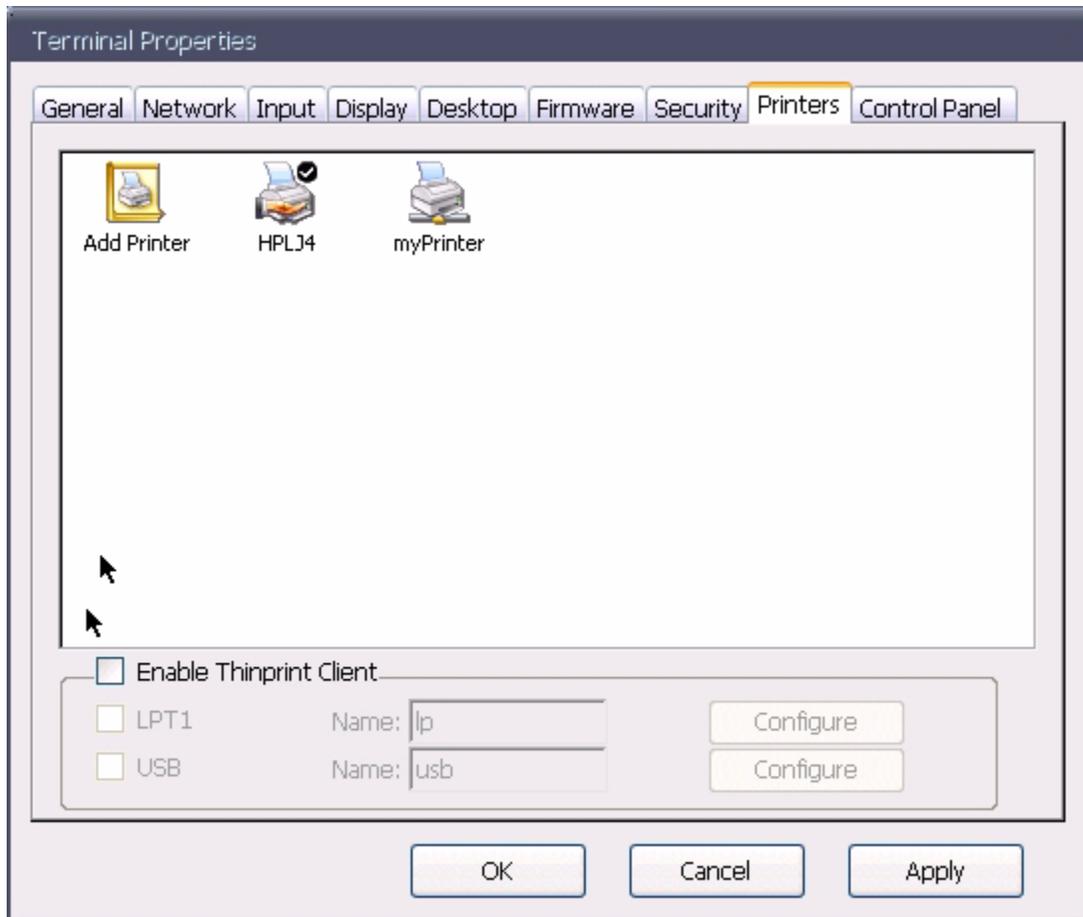
**Add Printer Wizard**

**Printing Preferences**  
Set the printing preferences

**Paper Size:**  
Letter

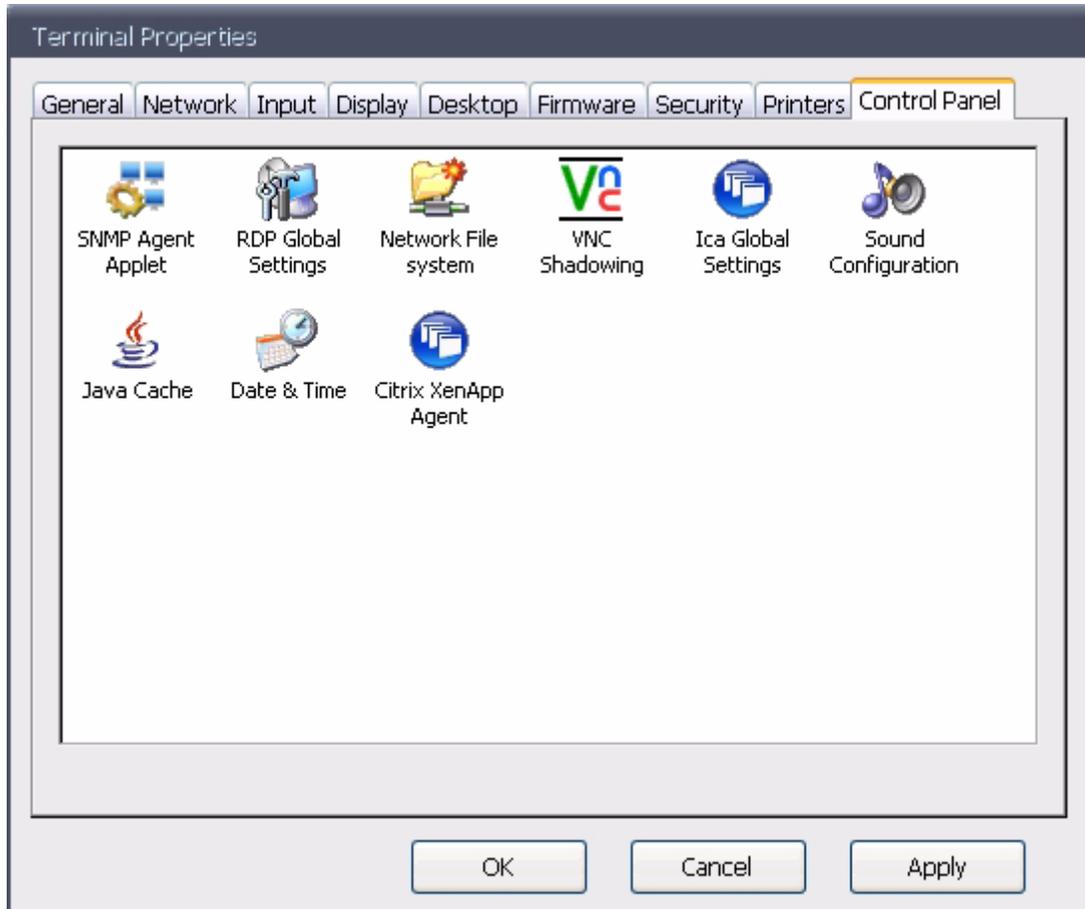
< Back   Next >   Cancel



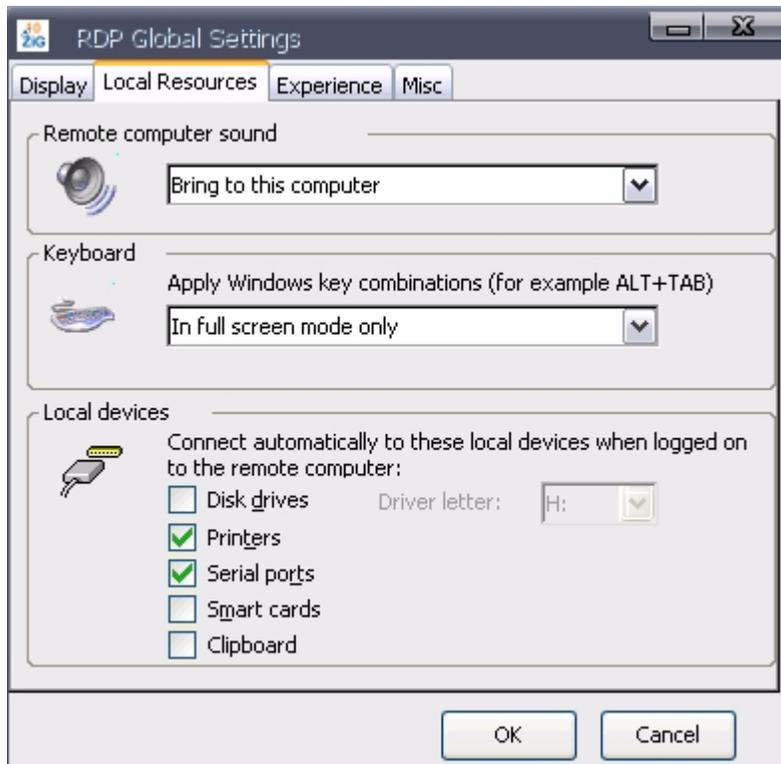
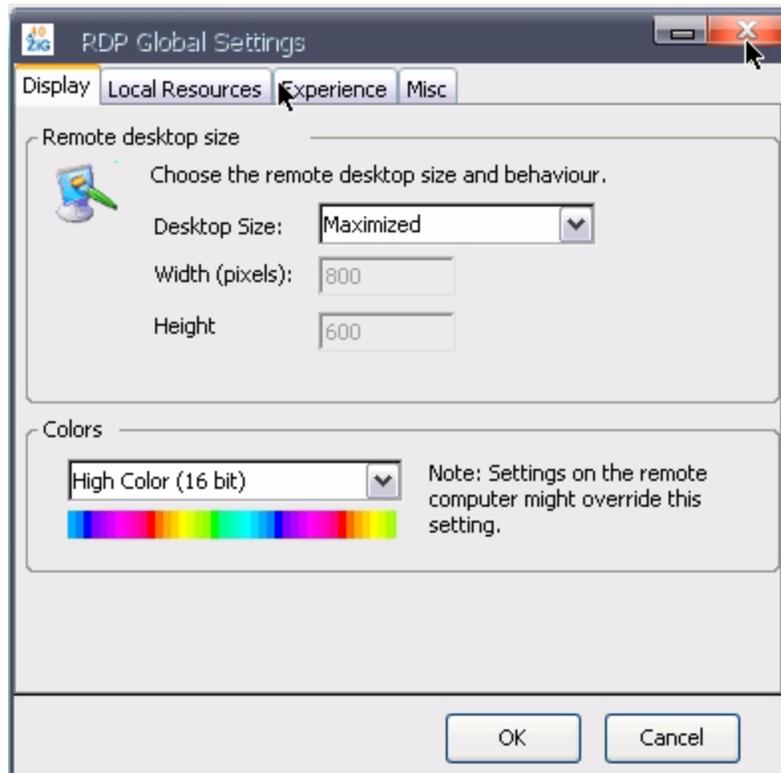


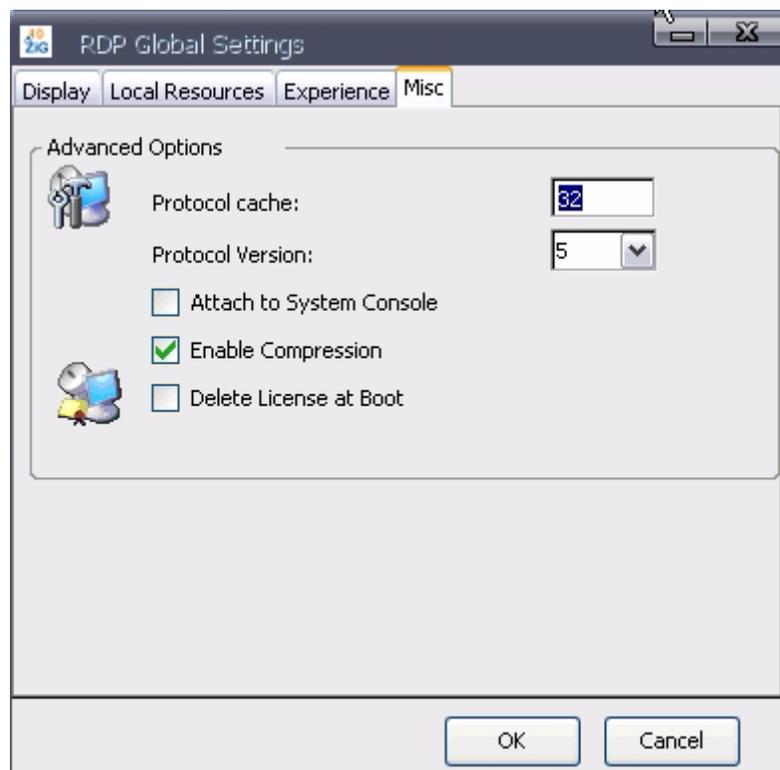
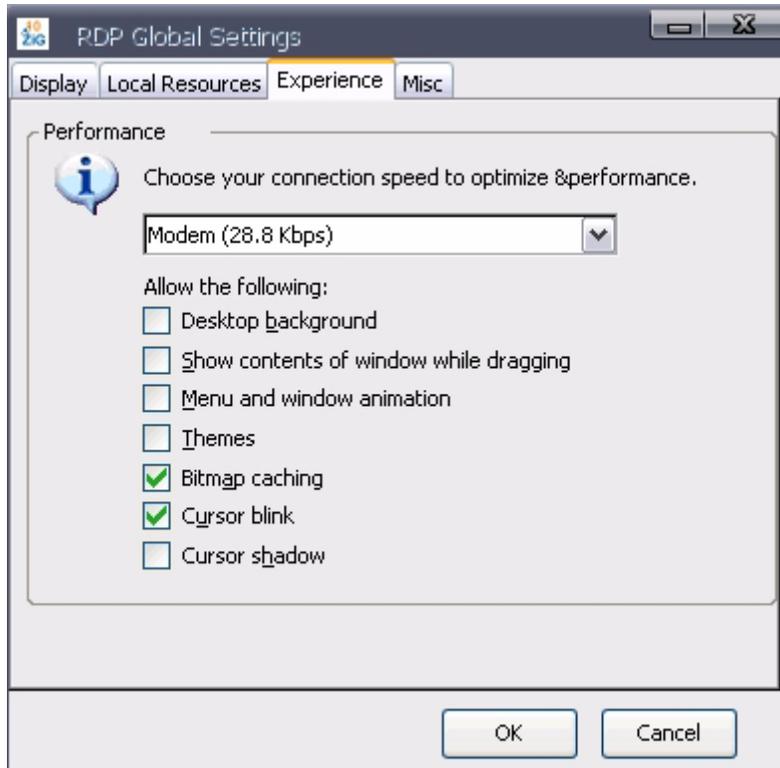
## Terminal Properties - Control Panel Tab

The Control Panel configuration page allows the configuration of SNMP Agent Applet, RDP Global Settings, Network File System, VNC Shadowing, ICA Global Settings, Sound Configuration, Java Cache, Date & Time, Citrix XenApp Agent.



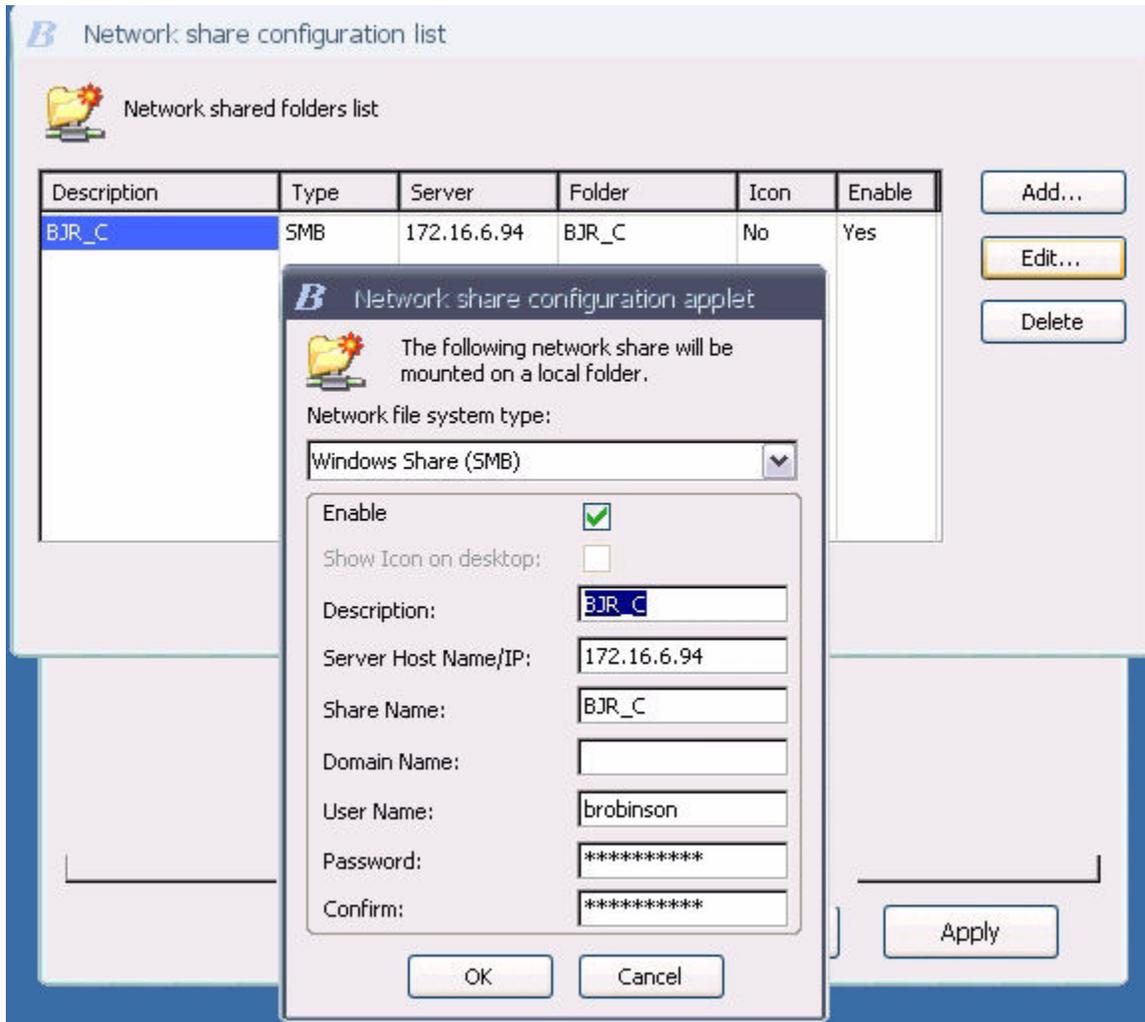
## RDP Global Settings





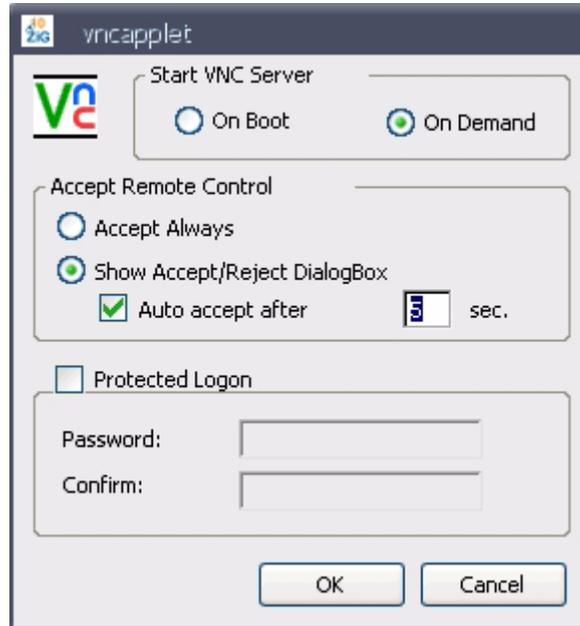
## Network File System:

NOTE: The Show ICON on desktop is not an option in the RBT/TBT. This option involves the use of a browser which is not part of the RBT or TBT thin client.

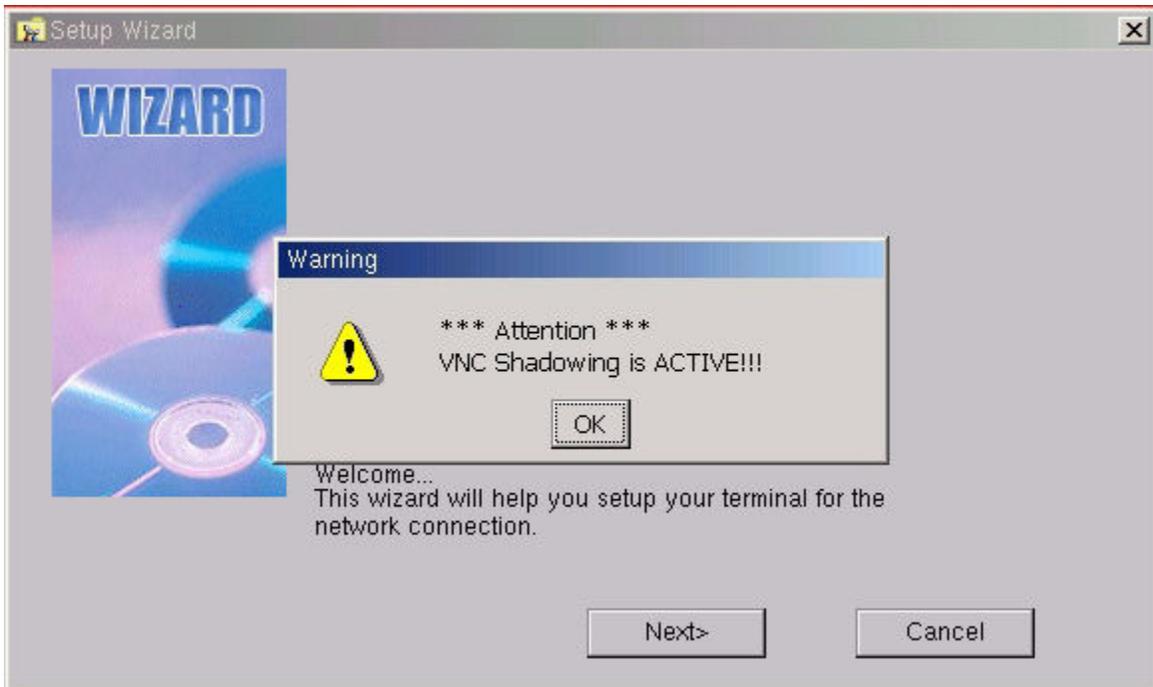


## VNC Shadowing Configuration:

The default setting is to Show Accept/Reject DialogBox but with Auto Accept after 5 seconds. To accept always and show no warning messages on the unit, select Accept Always.



A password can be assigned to the unit by selecting Protected Logon and completing the password information.



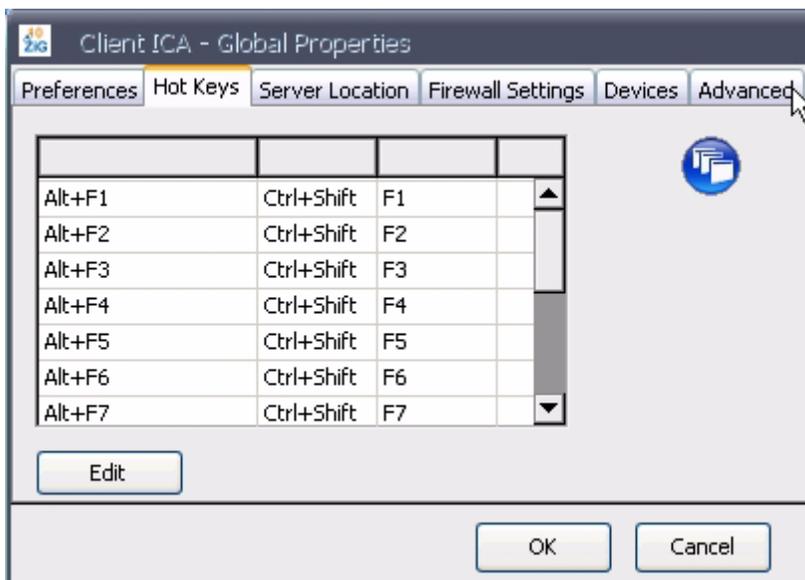
## Client ICA - Global Settings

This area controls global settings for ICA sessions. This assists in setting some of the standard settings for ICA clients to enable the same display settings, server settings, and/or firewall settings.

### Preferences

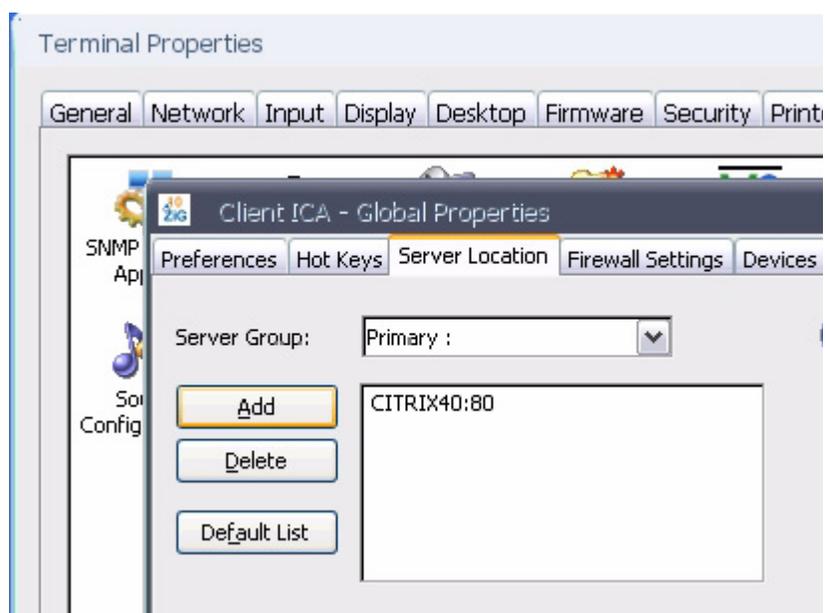
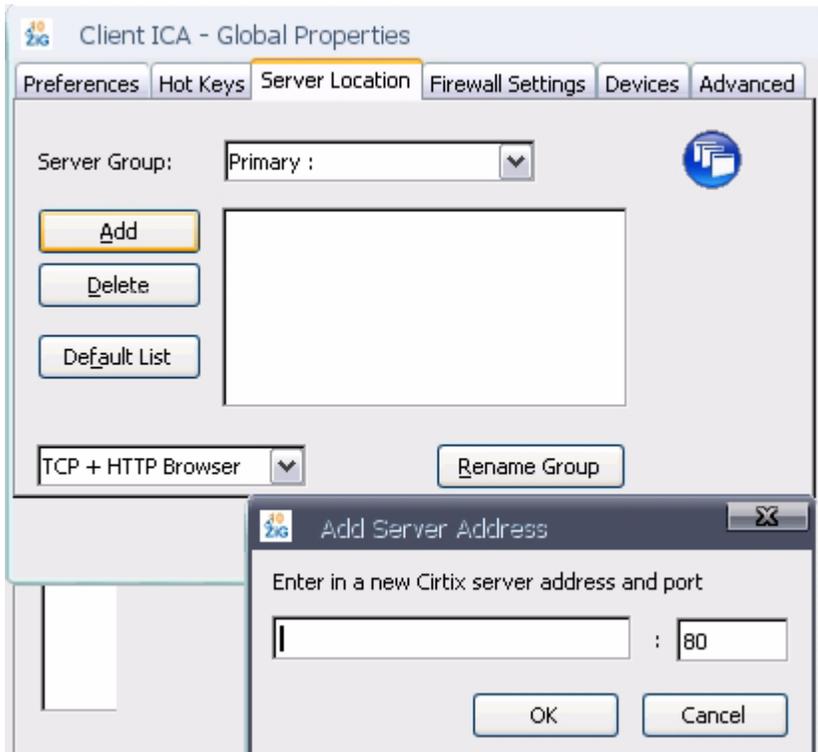


### Hot Keys

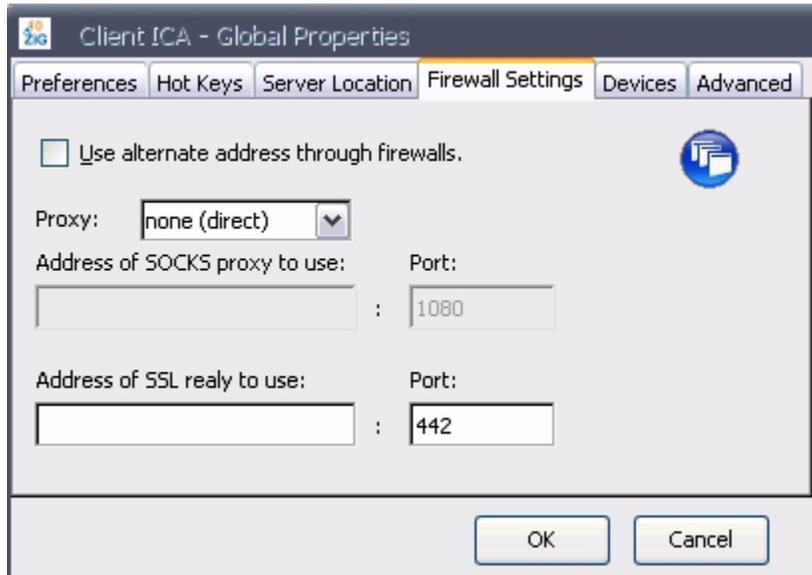


## ICA Server Location

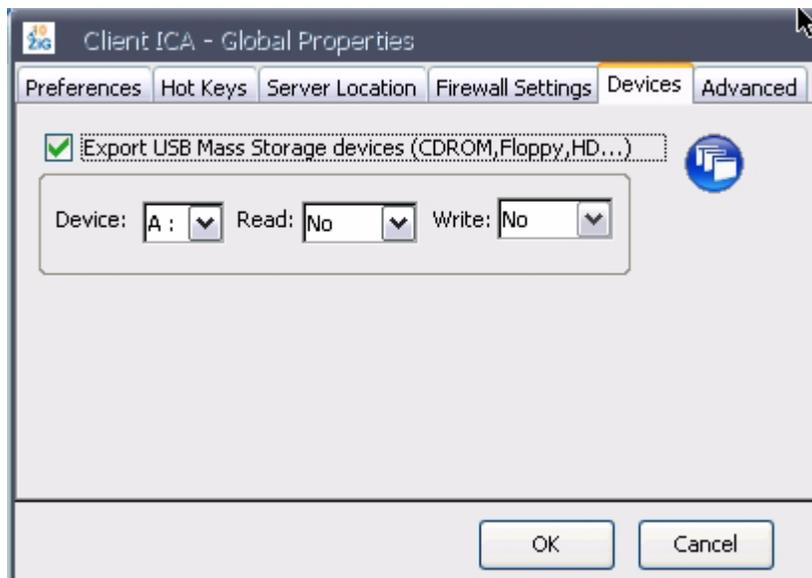
To add a Citrix server select add and enter the server name or IP.



## Firewall Settings



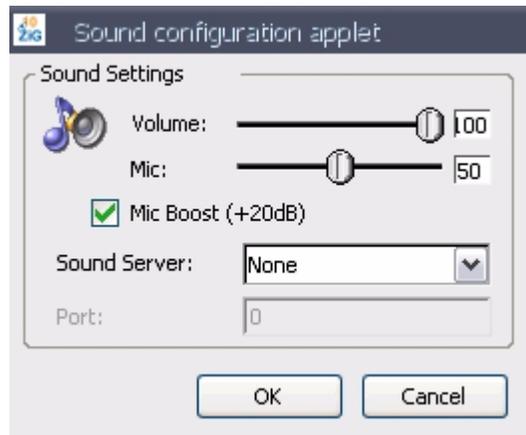
## Devices



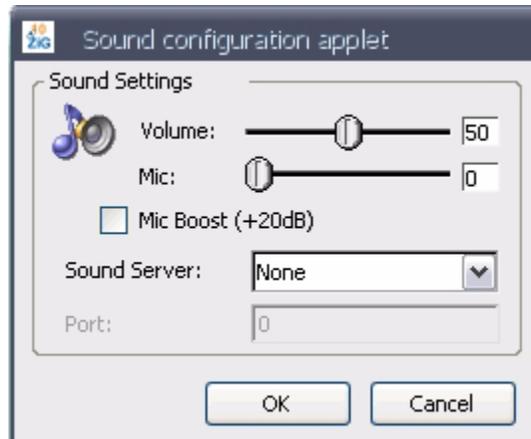
NOTE: USB Floppy and USB Flash are by default set to READ NO and Write NO, this will need to be changed to YES to access this from CITRIX.

## Sound Configuration

The sound server is a daemon which runs on the terminal and receives and plays sound data from a server on the network. We support 2 protocols and allow the user to specify a port.



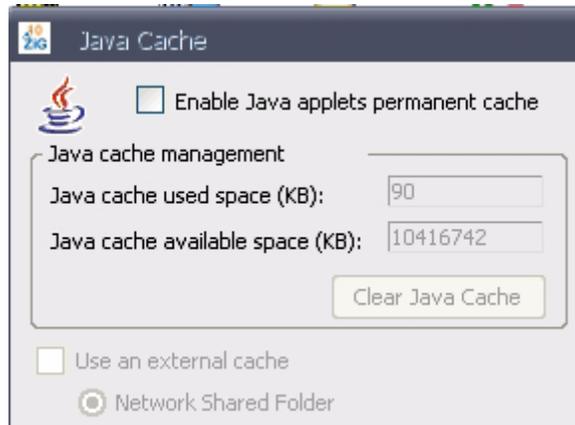
This can be used with SGD or NXclient to have sound with the desktop.



## Java Cache

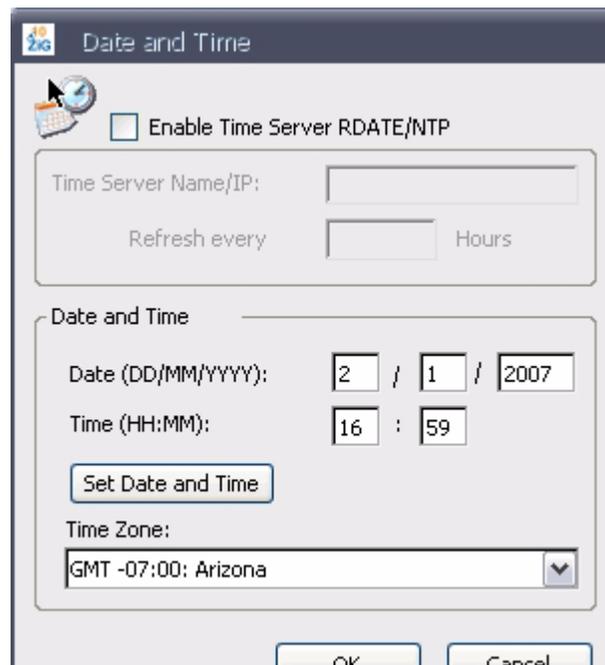
Check Enable Java applets permanent cache to enable Java cache management. To clear the Java Cache, select the Clear Java Cache button.

NOTE: This feature is not supported on all models.

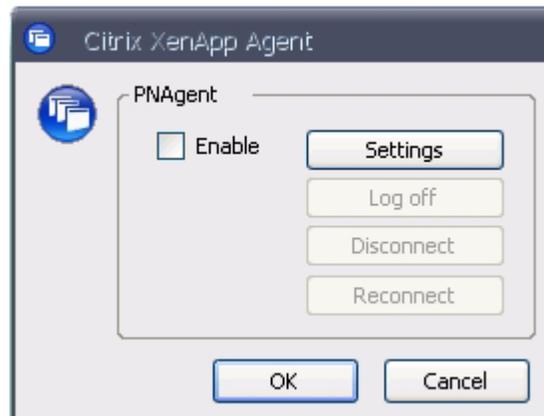


## Date & Time

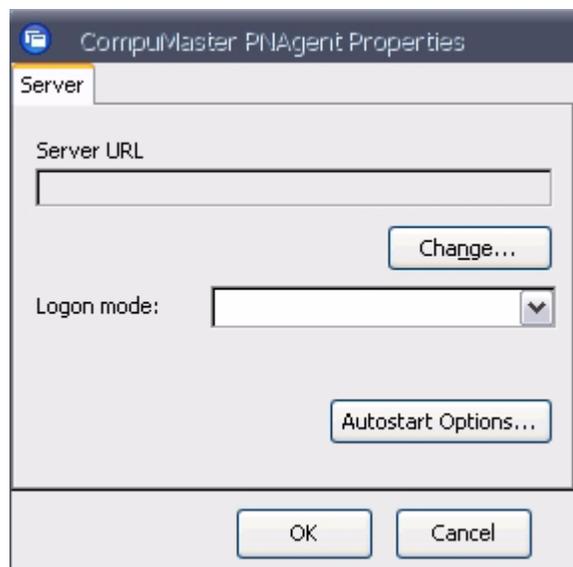
Check Enable Time Server RDATE/NTP and enter the time server full qualified domain name or IP to use the time server or set the date and time manually.



## ICA PNAgent: - Citrix Program Neighborhood Agent

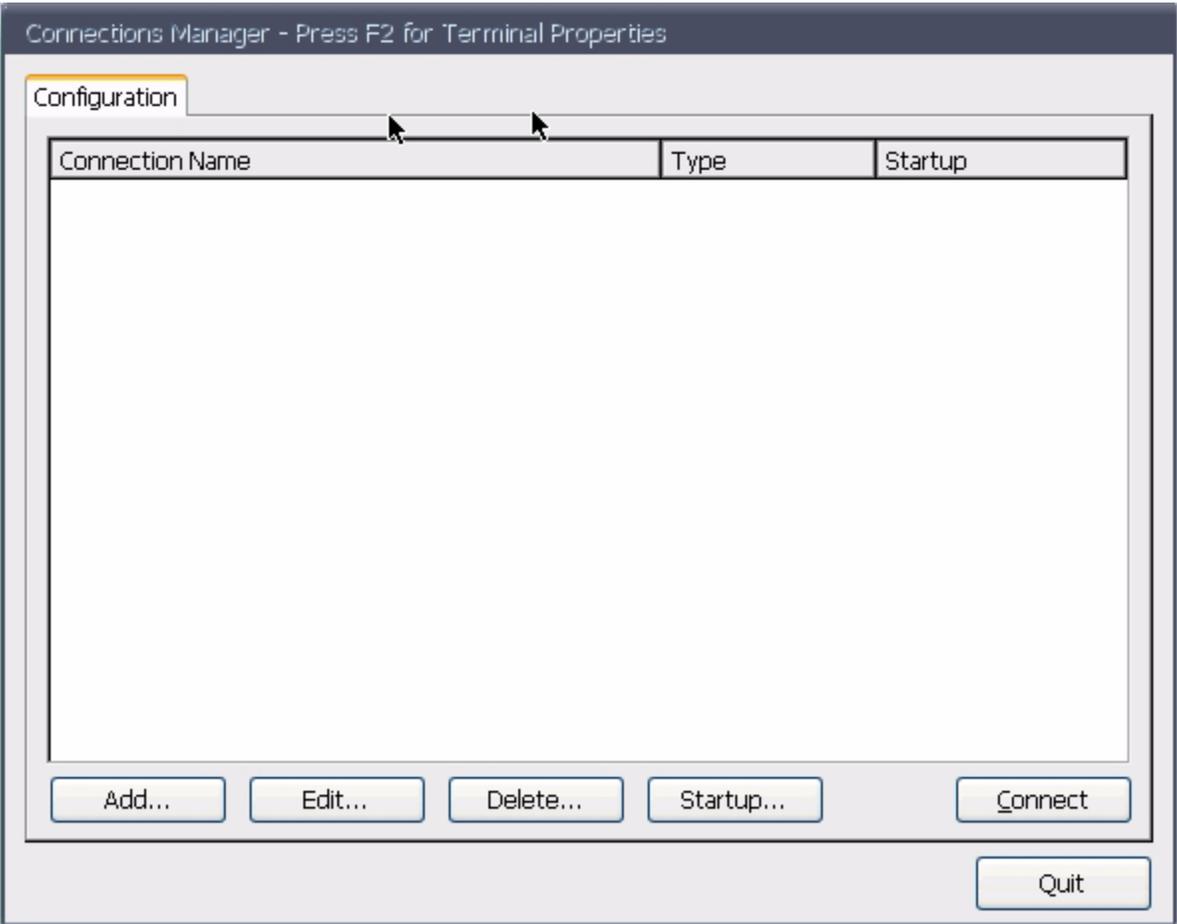


### Settings



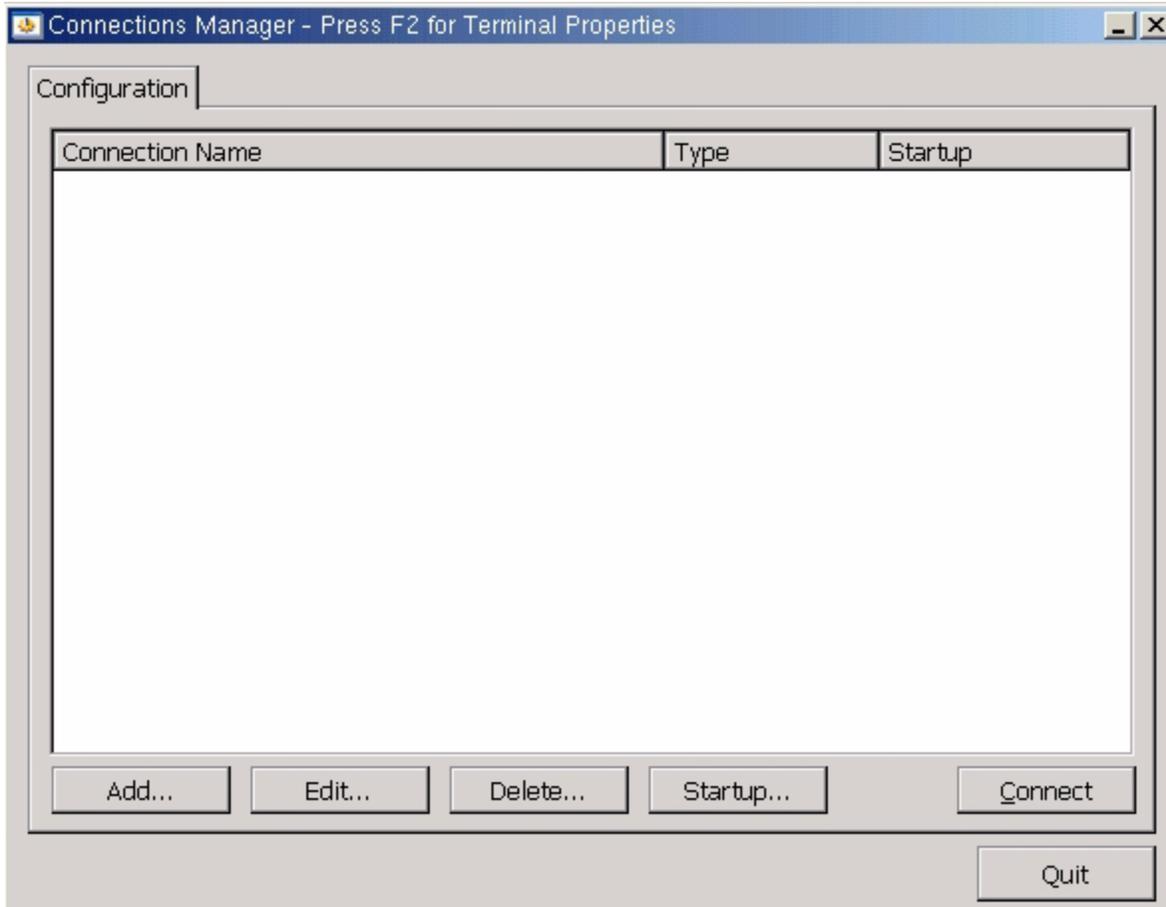
# CONNECTIONS MANAGER

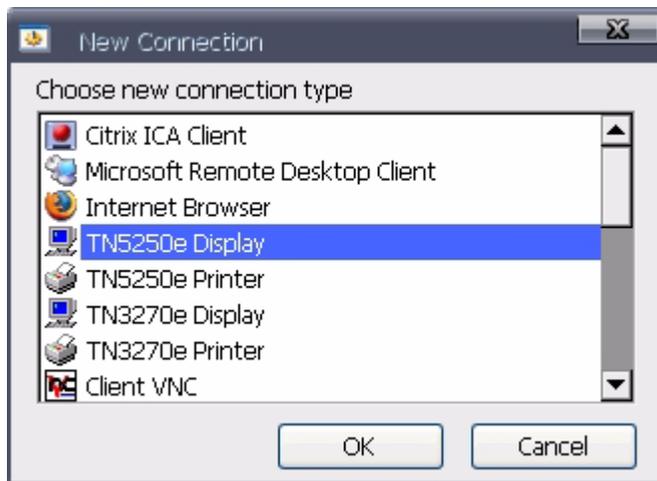
To access the connections manager select Start -> Settings -> Connection Manager.



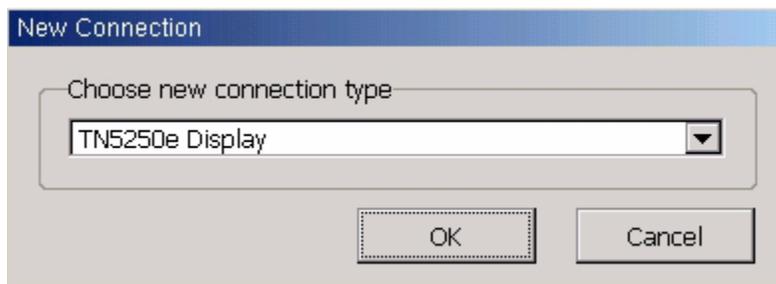
# TN5250e Display

Select Add and then scroll down to select TN5250e Display

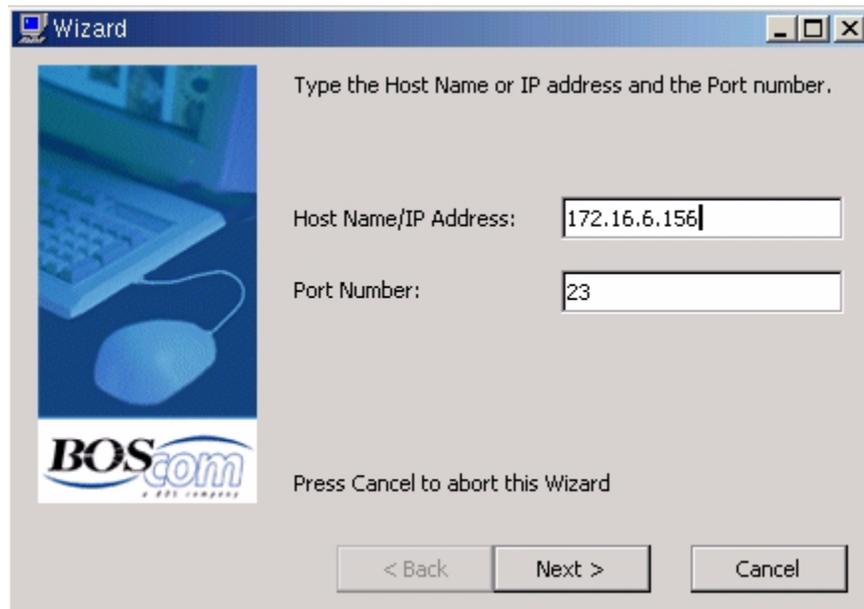




There are several options for the connection type in the drop down list - for the 5250 display session select TN5250e Display.



Enter the Host Name or IP address of the AS/400. Port Number is the default port for telnet. If this is changed, the AS/400 must be configured to accept connections on the non-standard telnet port.



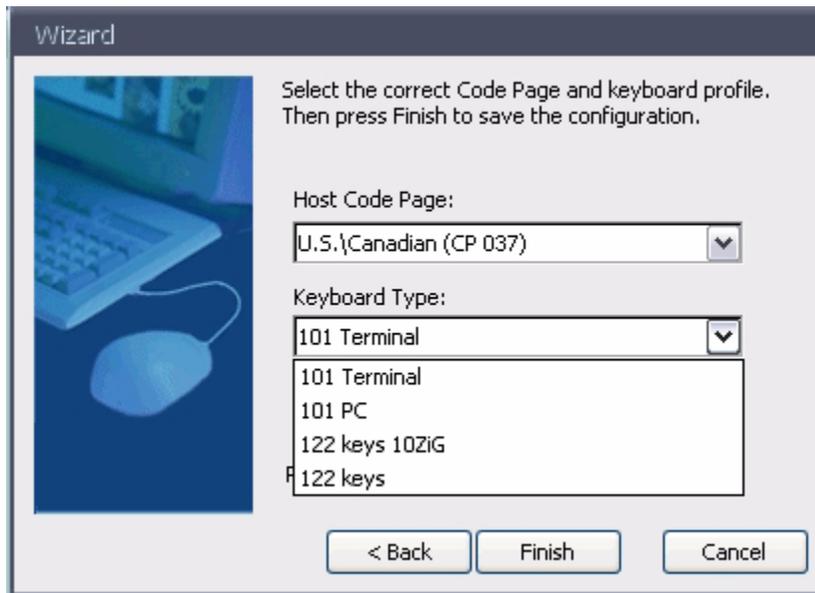
The screenshot shows a Windows-style dialog box titled "Wizard" with a BOScom logo on the left. The main text reads: "Type the Host Name or IP address and the Port number." There are two input fields: "Host Name/IP Address:" containing "172.16.6.156" and "Port Number:" containing "23". Below the fields, it says "Press Cancel to abort this Wizard" and has three buttons: "< Back", "Next >", and "Cancel".

The connection name is the name of the session on the thin client and the device name is the name of the device description on the AS/400

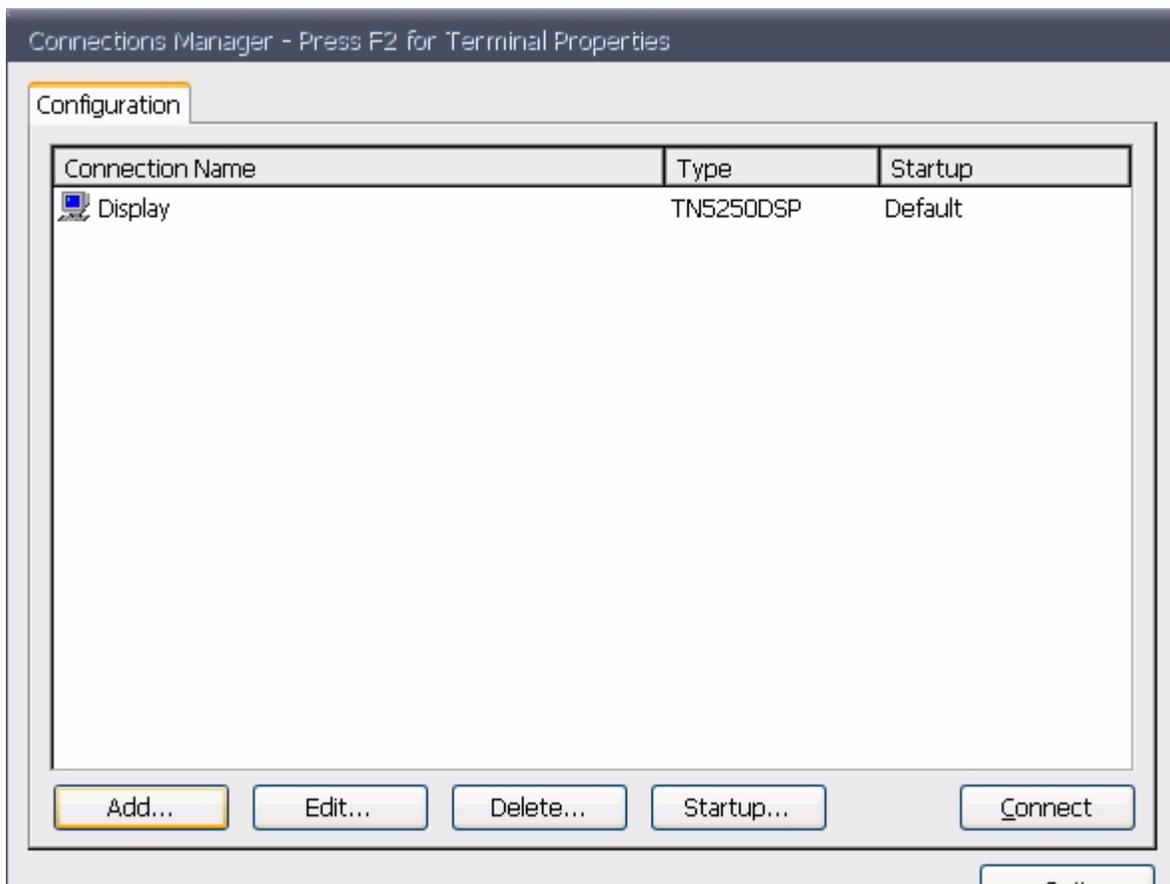


The screenshot shows a Windows-style dialog box titled "Wizard" with a BOScom logo on the left. The main text reads: "Type the Session description name, type and name of the device. Then press Next." There are three input fields: "Connection Name:" containing "DSP1", "Device Type:" containing "3278(9-2 (24x80)" with a dropdown arrow, and "Device Name:" which is empty. Below the fields, it says "Press Cancel to abort this Wizard" and has three buttons: "< Back", "Next >", and "Cancel".

The wizard will auto detect the attached keyboard. If a 10ZiG 122 keyboard is attached, it will default to 122 keys 10ZiG. If a standard 101/102 keyboard is attached it will default to 101 Terminal (right control = enter). For the enter key to be enter using a 101/102 keyboard, select 101 PC.



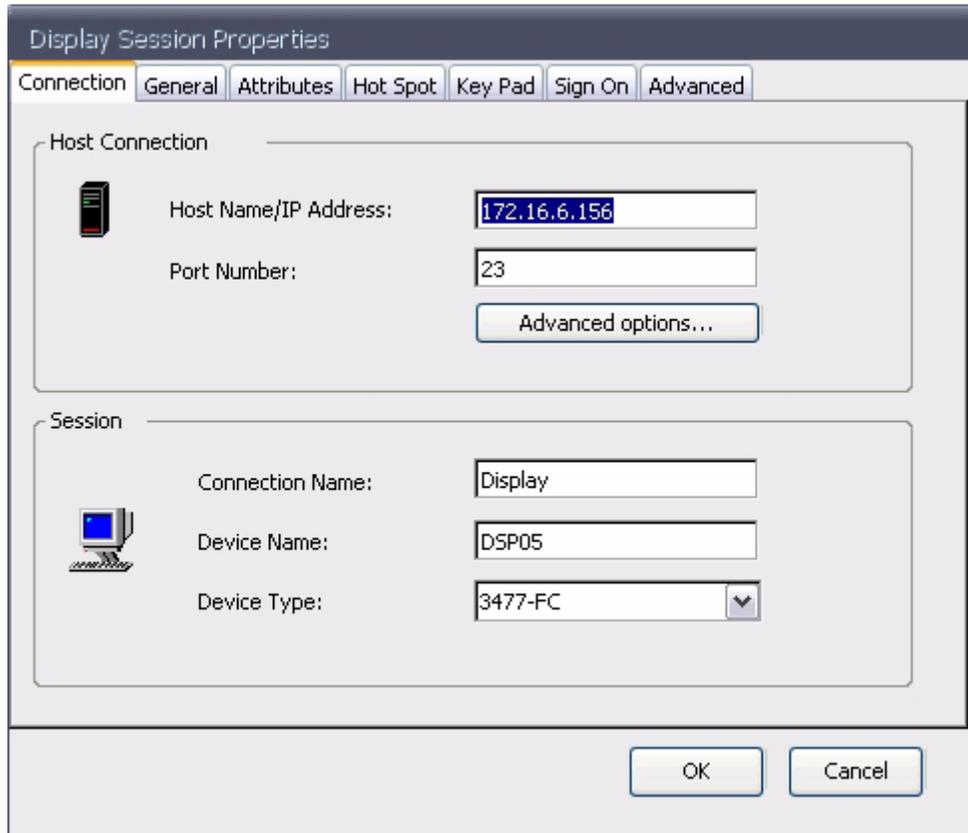
The connection will appear in the connection manager and an ICON will be placed on the desktop for the session



To modify the connection, highlight the connection name and select edit.

## Display Session Properties - Connection Tab

Connection tab allows for changes to the host name/IP address and the port number. Also allows for session changes such as connection name, device name and device type. For advanced options, select Advanced options....



The screenshot shows a dialog box titled "Display Session Properties" with a "Connection" tab selected. The dialog is divided into two main sections: "Host Connection" and "Session".

**Host Connection Section:**

- Host Name/IP Address: 172.16.6.156
- Port Number: 23
- Advanced options... button

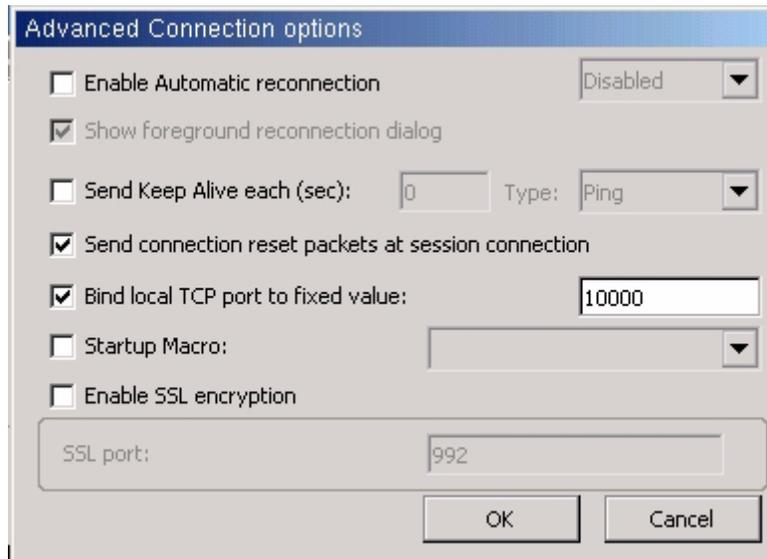
**Session Section:**

- Connection Name: Display
- Device Name: DSP05
- Device Type: 3477-FC (dropdown menu)

At the bottom of the dialog are "OK" and "Cancel" buttons.

Enable Automatic reconnection - when enabled and the network connection is lost the unit attempts to reconnect the session - this works best when the connection between the unit and the host is local and does not go through a router.

Enabling Keep Alive each (sec) causes the unit to send a ping periodically to the AS/400 thus keeping the connection alive even when the unit is idle. Depending on the router type you may need to change the type to Telnet NOP. The AS/400 only supports Telnet NOP.



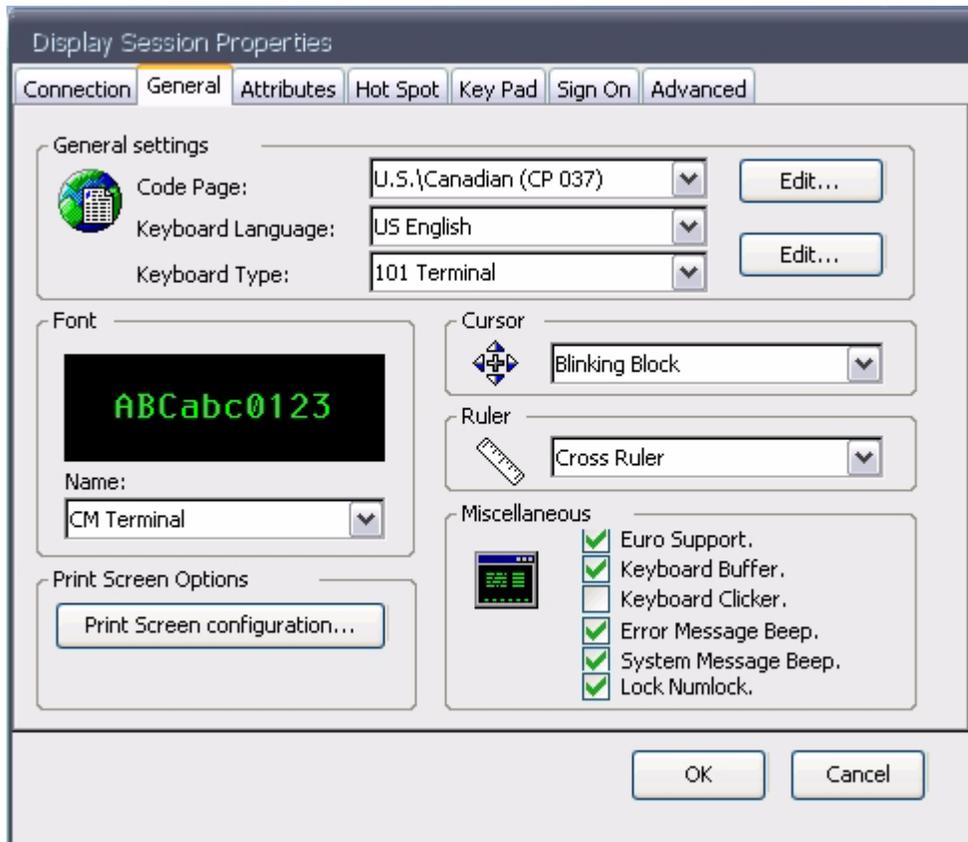
Bind local TCP port to fixed value is the port the telnet session communicates back to the unit. All 5250 session will by default communicate to the AS/400 on port 23.

Startup Macro: Do no check unless directed to do so by technical support.

Enable SSL encryption: Must be configured on the host system.

## Display Session Properties - General Tab

Allows for changes to Code Page, Keyboard Language, Keyboard Type, Cursor options, Ruler options, Print Screen Configuration and other Miscellaneous options.



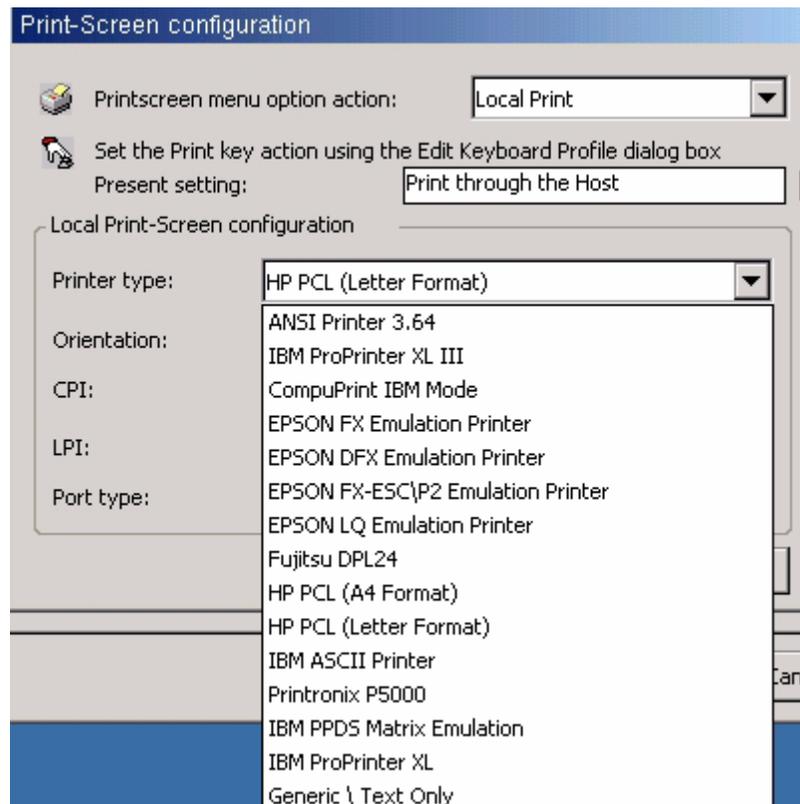
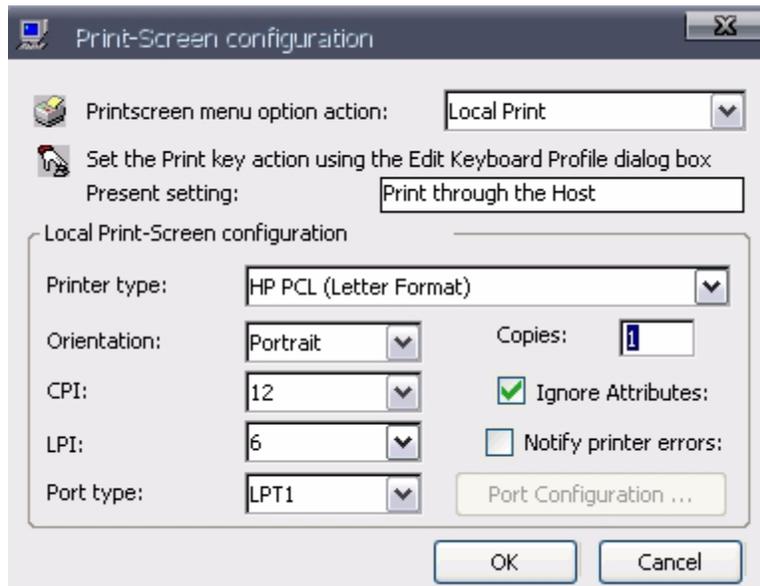
Font options are CM Terminal or Courier New

Cursor options are Blinking Block, Blinking Line, Non-Blinking Block, or Non-Blinking Underline.

Ruler options are Cross Ruler, Horizontal Ruler or Vertical Ruler.

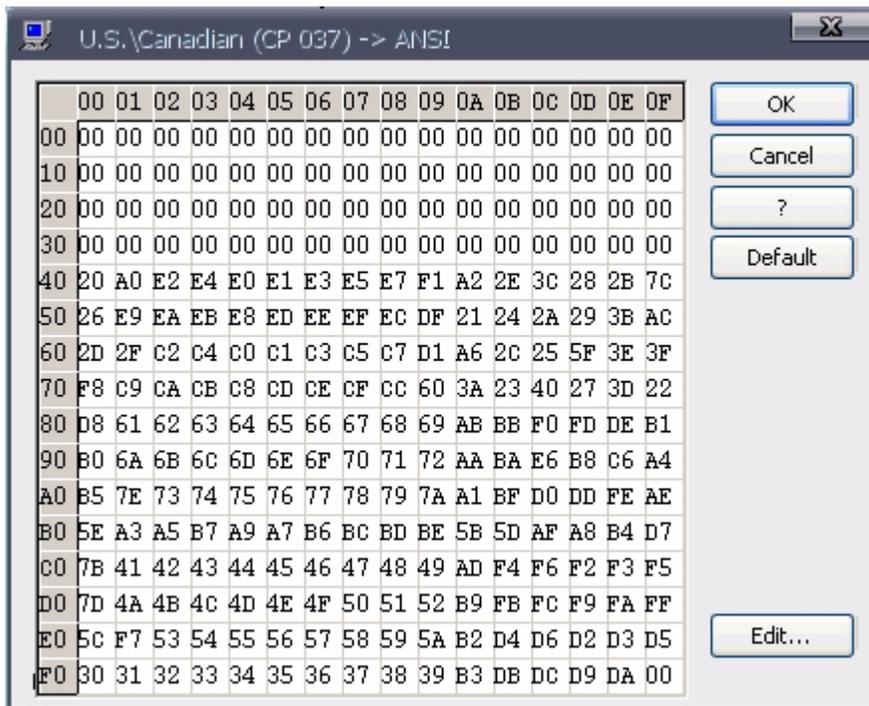
Miscellaneous options can be turned on and off by checking or unchecking associated boxes.

Printscreen menu option action determines if the print screen key can be set to Local Print, Print through the Host or Function Disabled.



Printer type is limited to built in drivers, select the closest match. If in doubt, try Generic/Text Only or use Host Print Transform.

To edit the code page select edit to the right of Code Page.



Code page is the traditional IBM term used for a specific character encoding table: a mapping in which a sequence of bits, usually a single octet representing integer values 0 through 255, is associated with a specific character.

5250/3270 communication is encoded using EBCDIC. The code page is a lookup table which converts EBCDIC to ASCII to display and/or print the data.

For printer sessions, sometimes the AS400 applications will send special EBCDIC characters to control the printer. (i.e. - specifically for barcodes). In this case it may be necessary to modify the transcode table to select the proper ASCII code required by the printer.

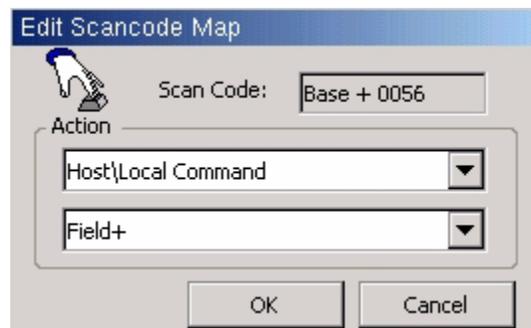
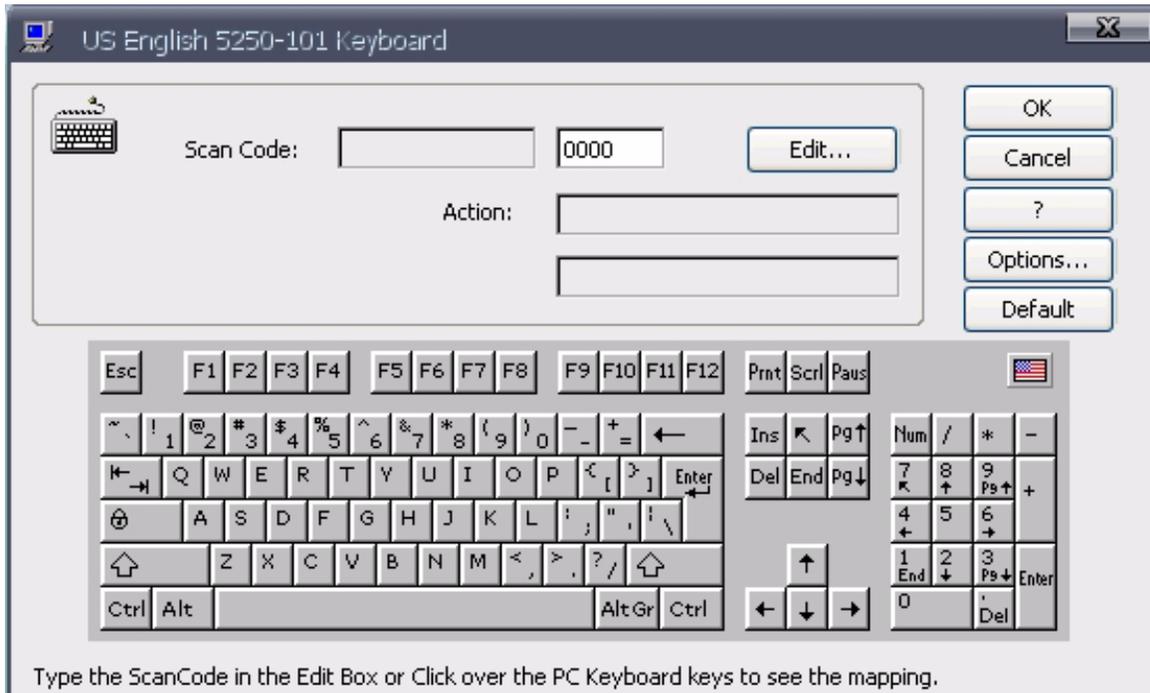
For instance an application may send an EBCDIC 'B0' as the start barcode command. By default this is mapped to an ASCII 0x5e - '^'. Sometimes the barcode printer will require an ASCII 0x24 - '\$'. In this case you can edit the transcode table entry for EBCDIC 'B0' and change it from 0x5e to 0x24.

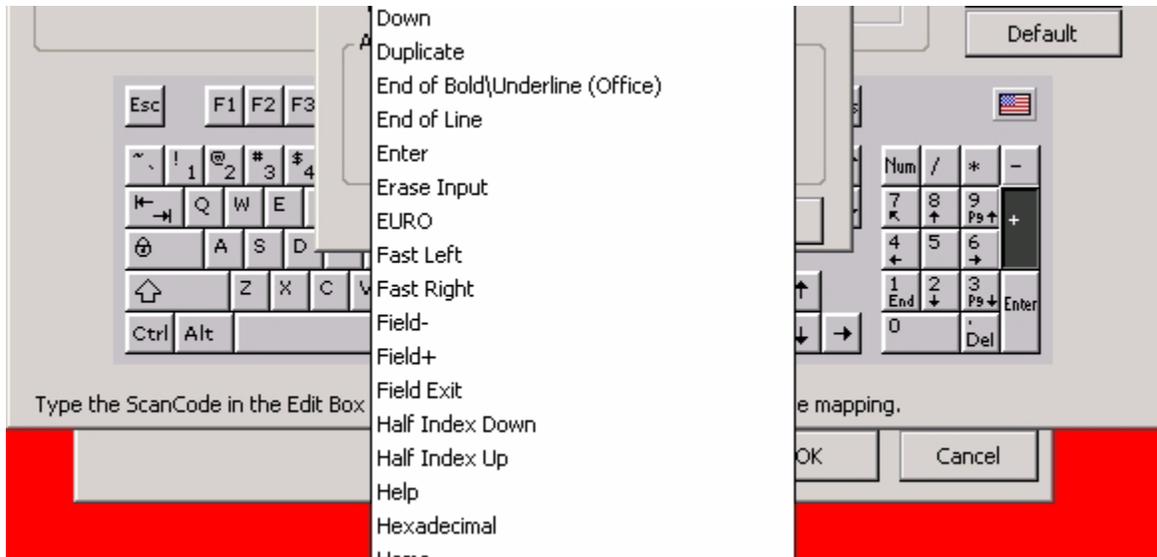
When editing the transcode table the vertical rows are the MSB of the EBCDIC code, while the horizontal cols are the LSB of the EBCDIC code. So for EBCDIC 0xB0, go to the B0 row and the 00 column.

## Remapping the Keyboard

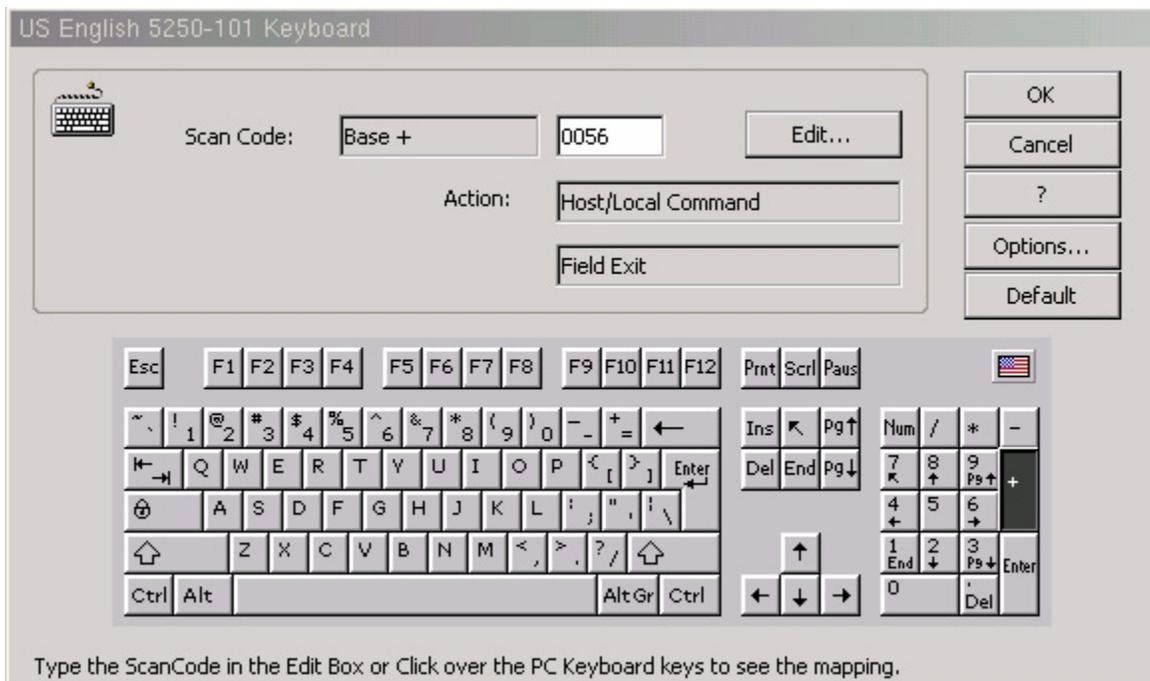
Select Edit to the right of the keyboard type to edit the keyboard.

To modify a key, select the key with the mouse. Action will change accordingly. Select Edit and then change the action to the desired command.

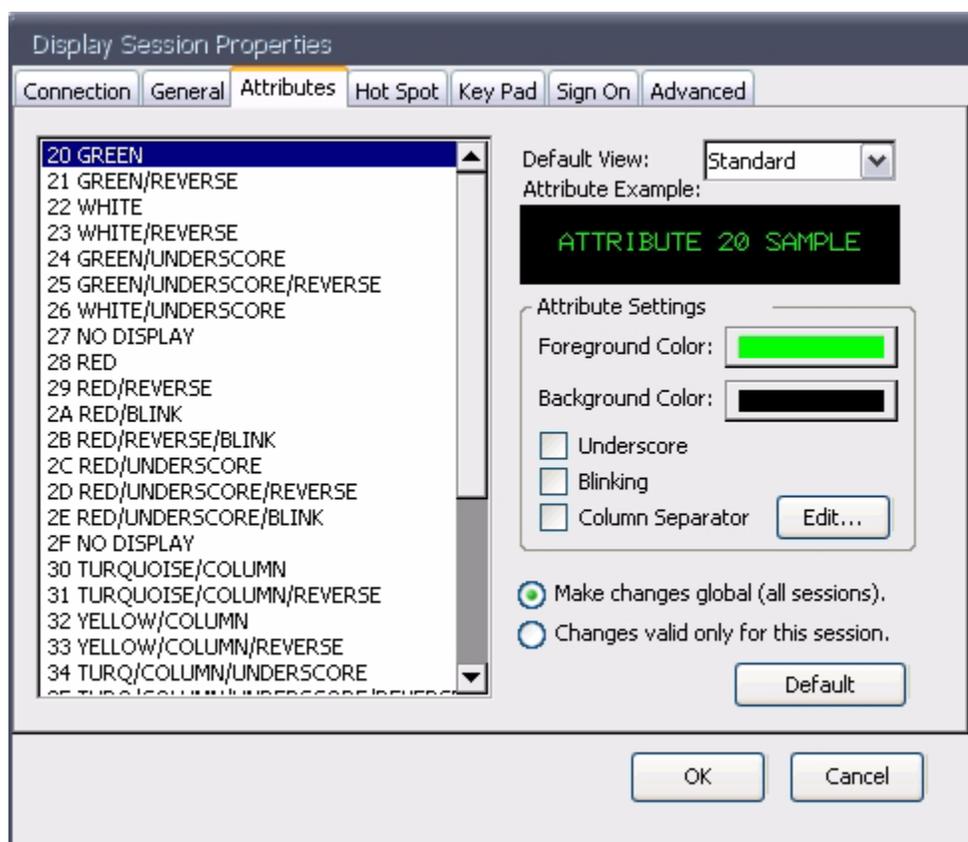




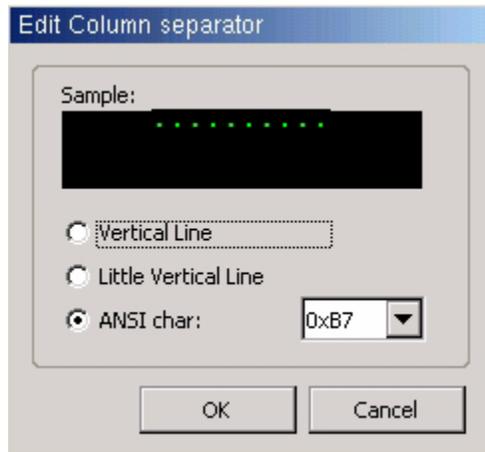
To create a non-destructive backspace use the action Host/Local Command - Character Backspace.



## Display Session Properties - Attributes Tab

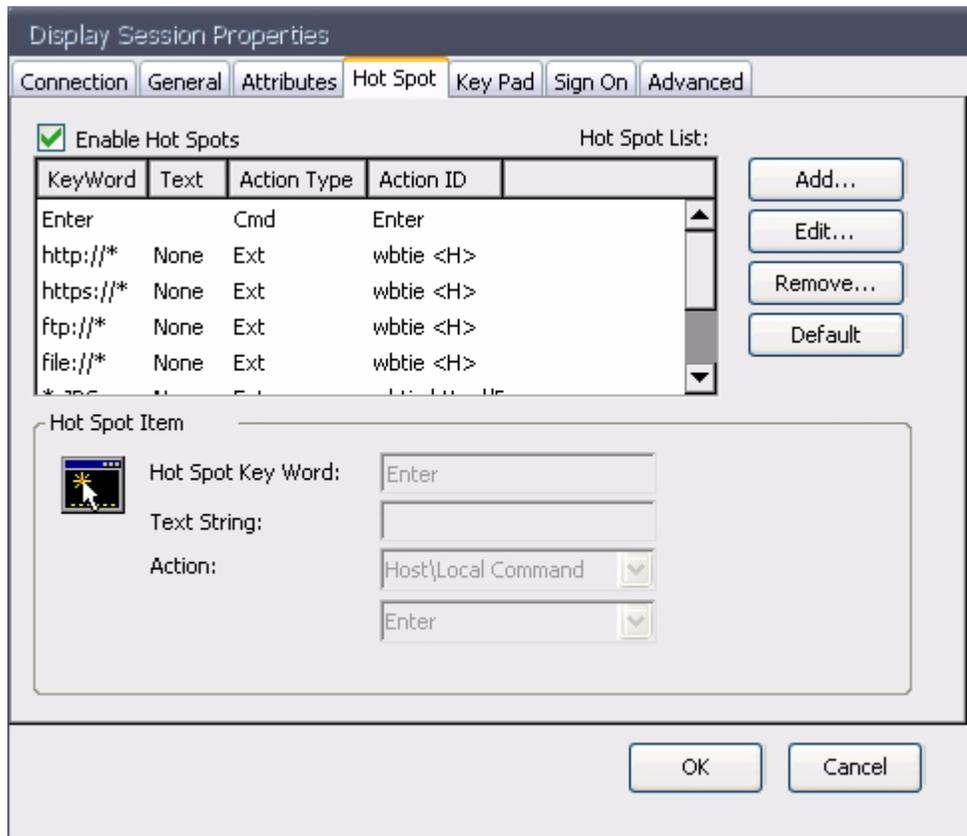


To change the column separator character select the Edit option to the right of the Column Separator.



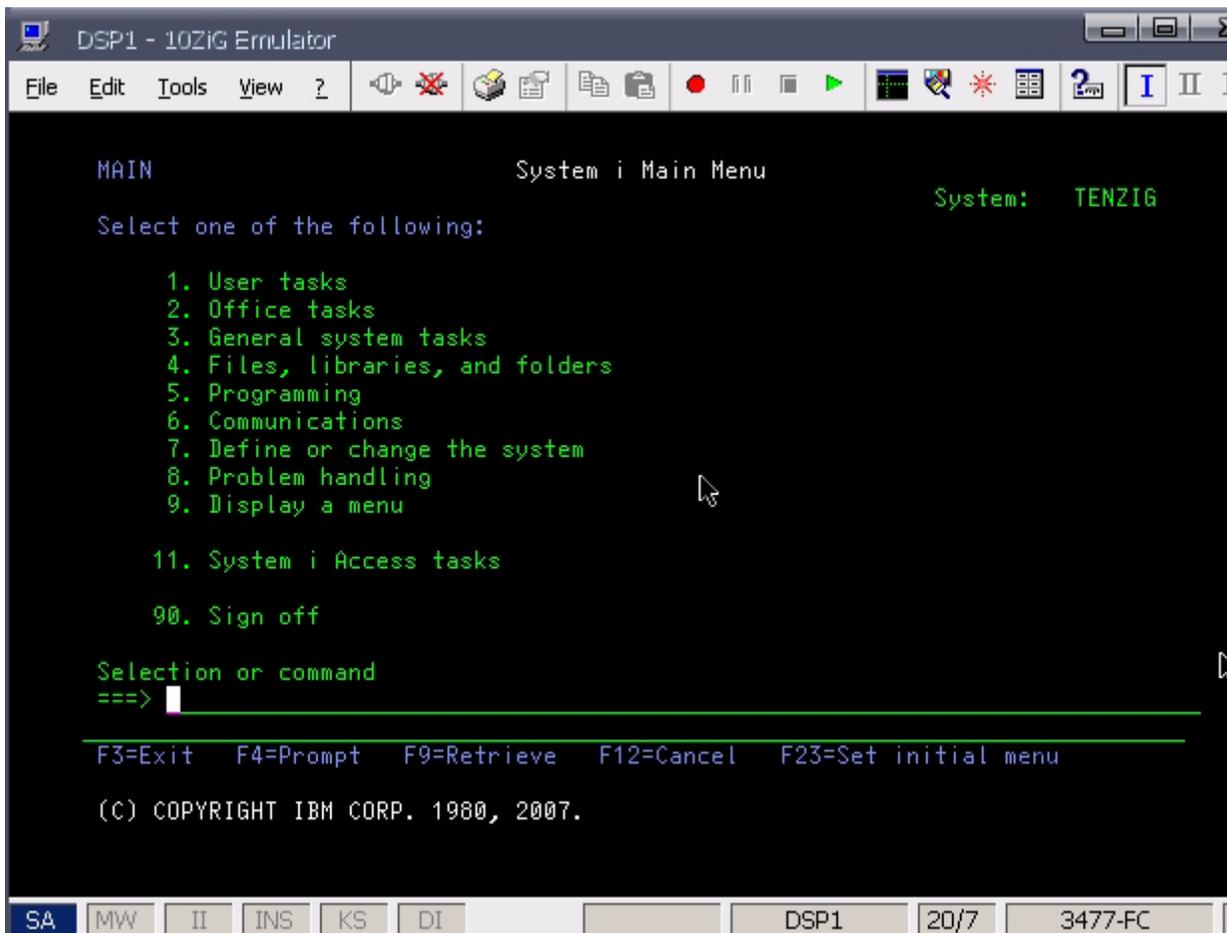
### Display Session Properties - Hot Spot Tab

This option allows you to Add, Edit or Remove Hot spots.



**Example** of hot spot designed to run a macro that signs the user off of the host:

Record a macro by selecting the red circular ICON. Type the commands for the macro and save it. For this example a macro is recorded that types signoff and selects enter. Macro name is saved as signoff.

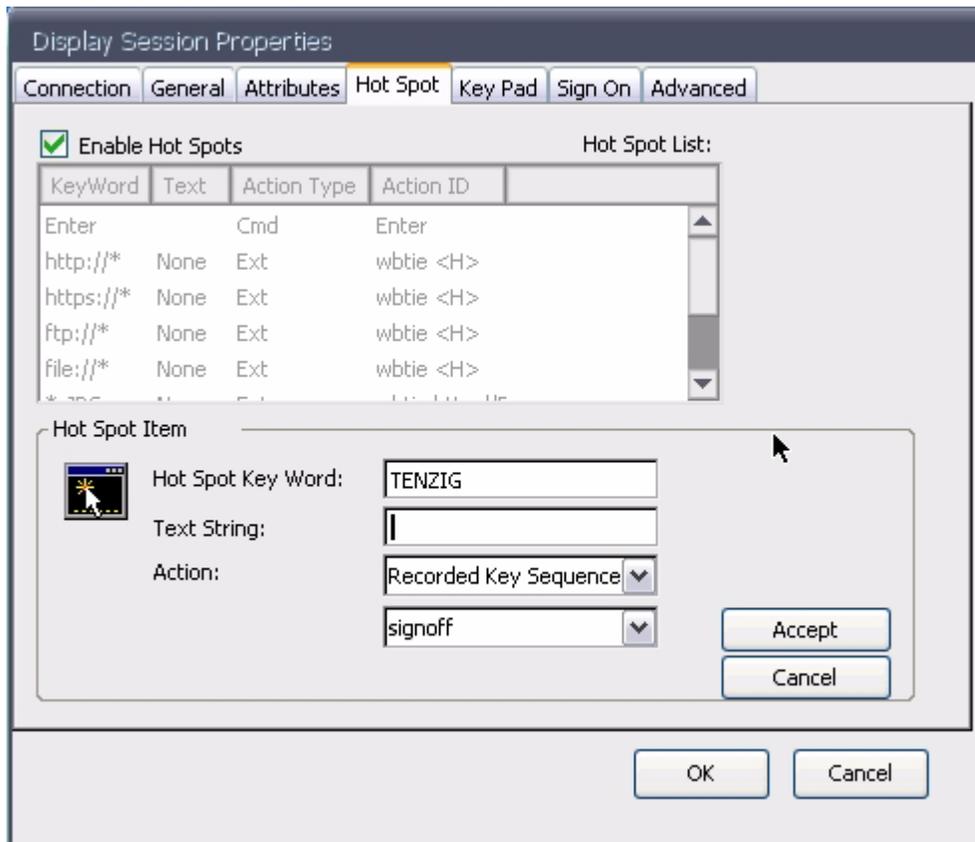


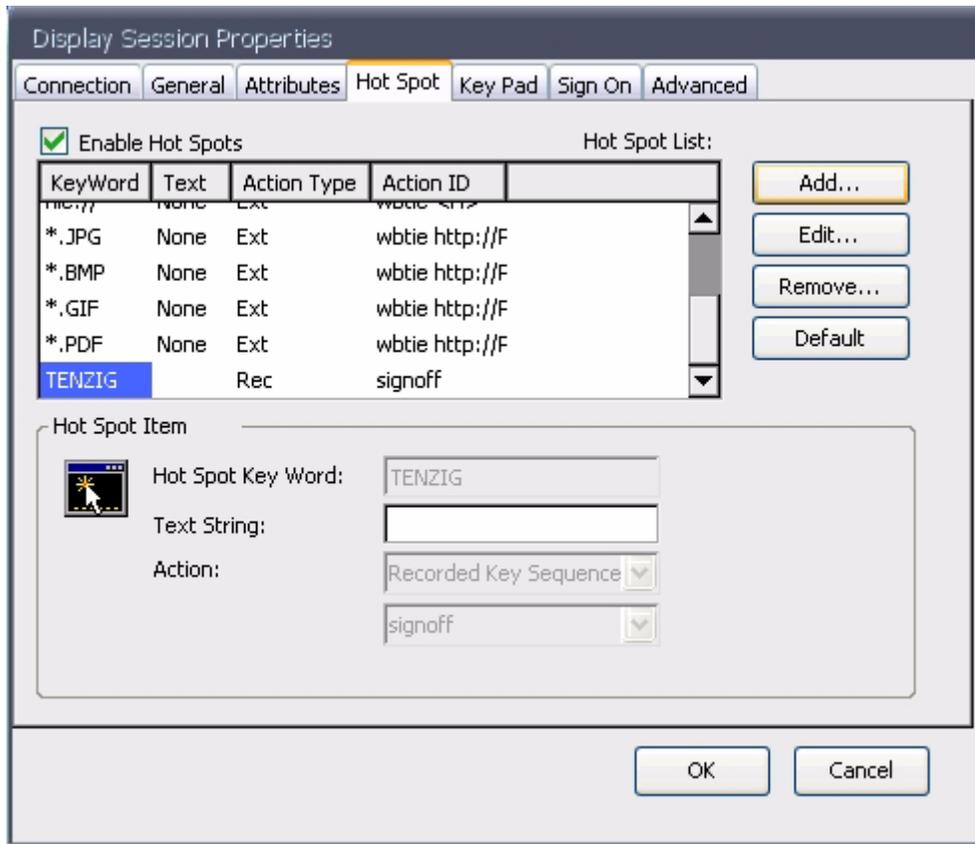
Hot Spot Key Word is TENZIG - the system name that is displayed in the upper right corner of the display.

Text String is left blank.

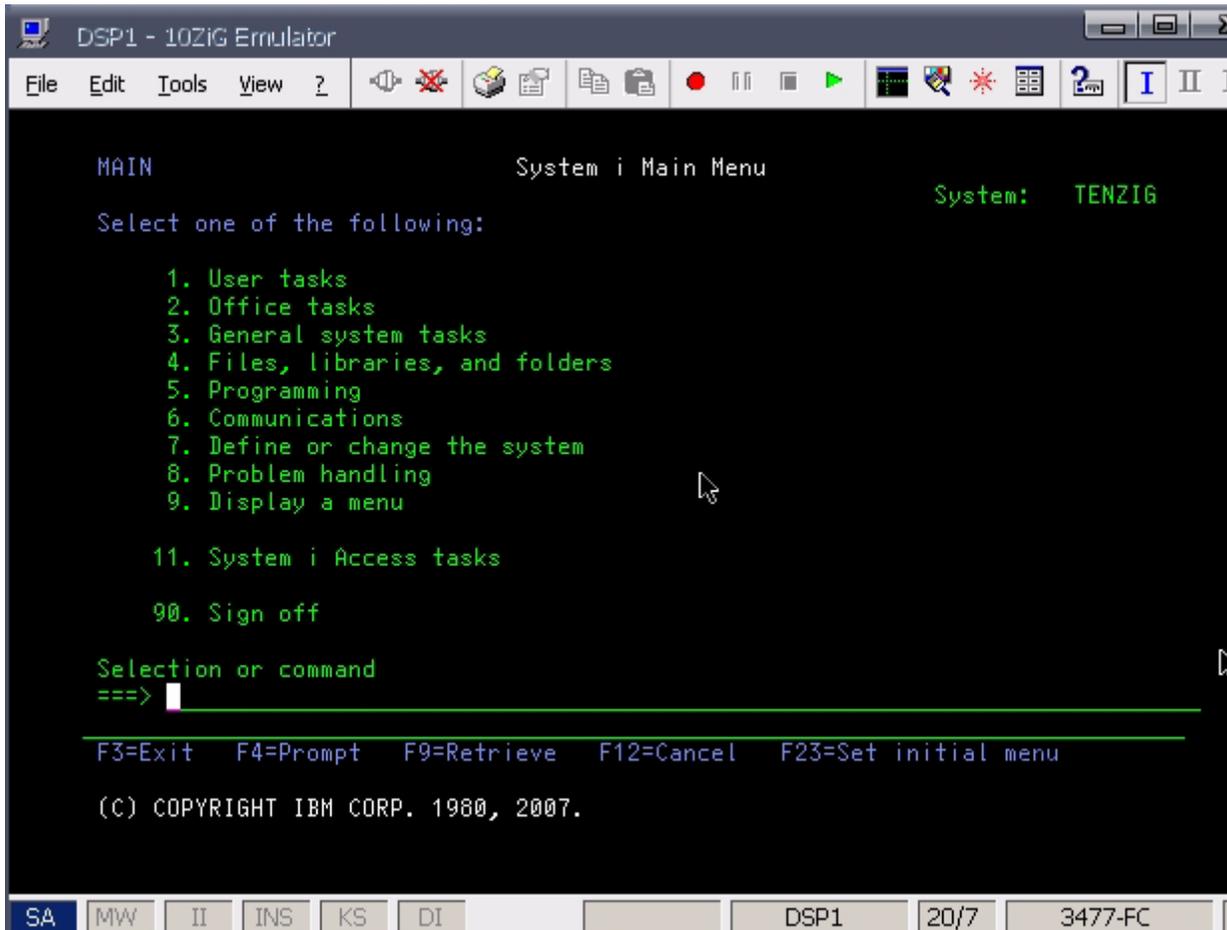
Selected Action is Recorded Key Sequence.

Action is the name of the created Macro



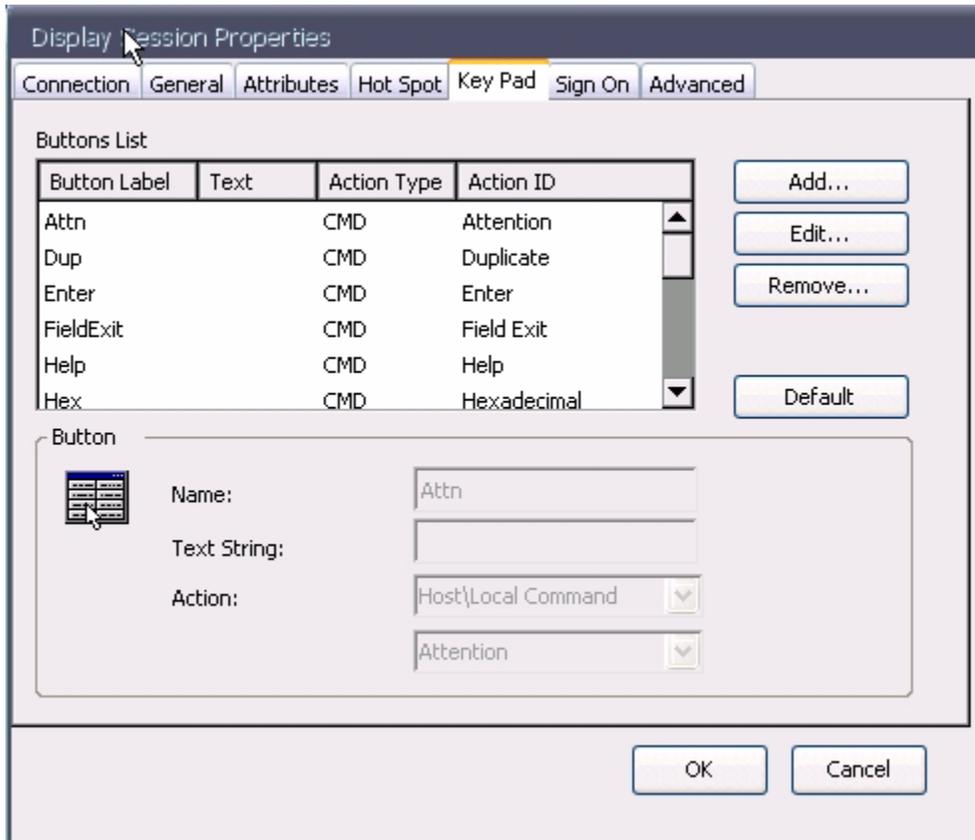


When signed on to the host, double click on TENZIG in the upper right hand of the screen and the macro named signoff will run.

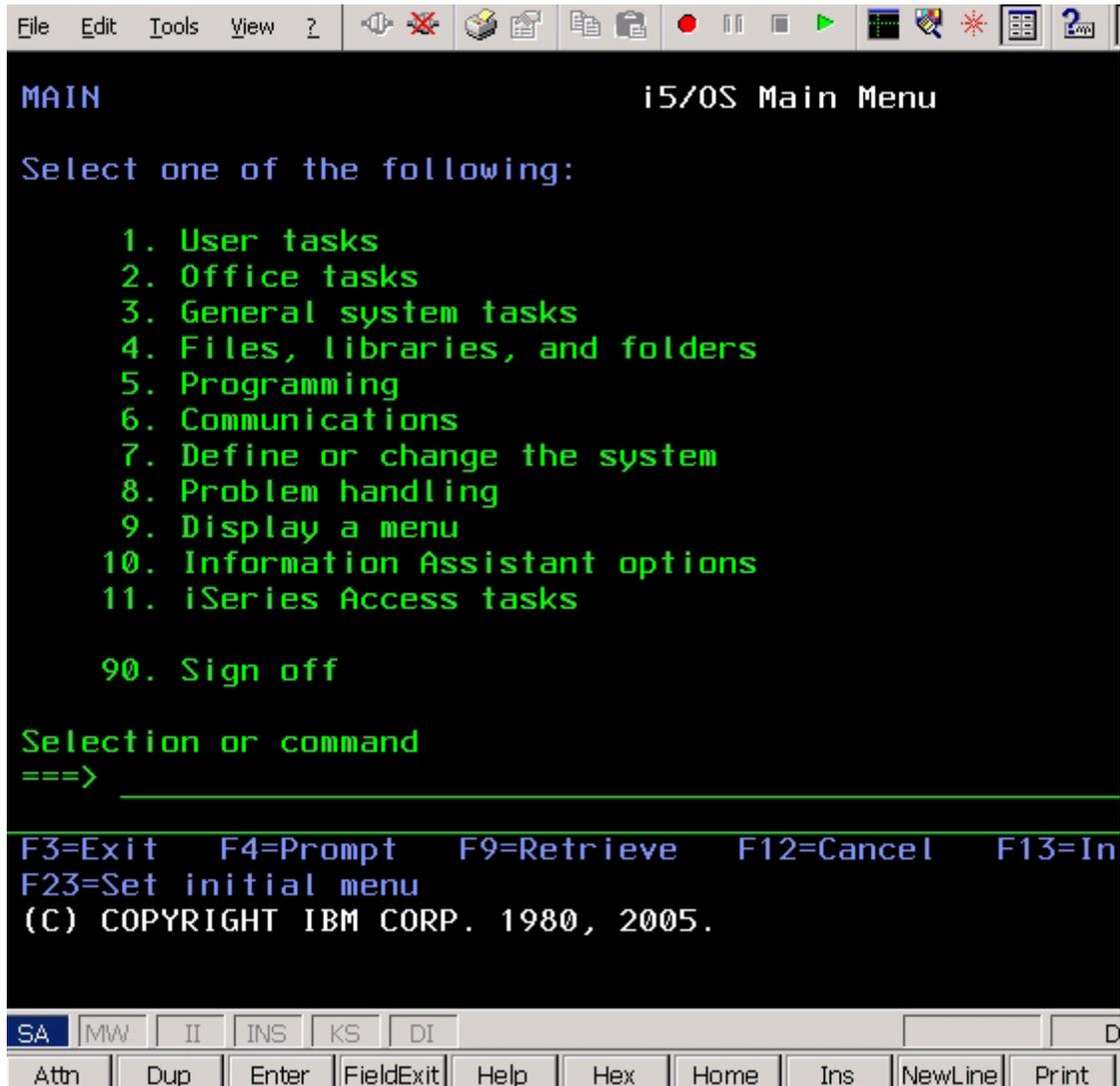


## Display Session Properties - Keypad Tab

This option allows to change the options on the keypad that can be displayed in a 5250 session. You can Add, Edit or Remove commands on the keypad buttons.



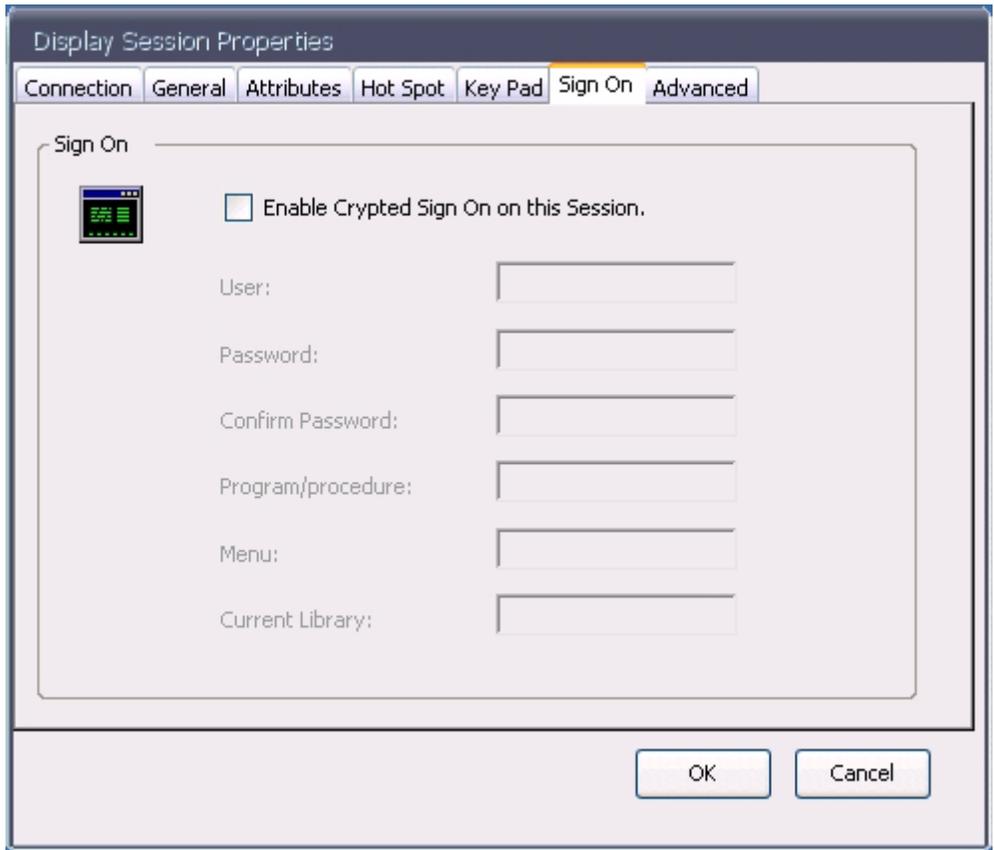
Display Keyboard Pad displays at the bottom of the 5250 screen:



## Display Session Properties - Sign On Tab

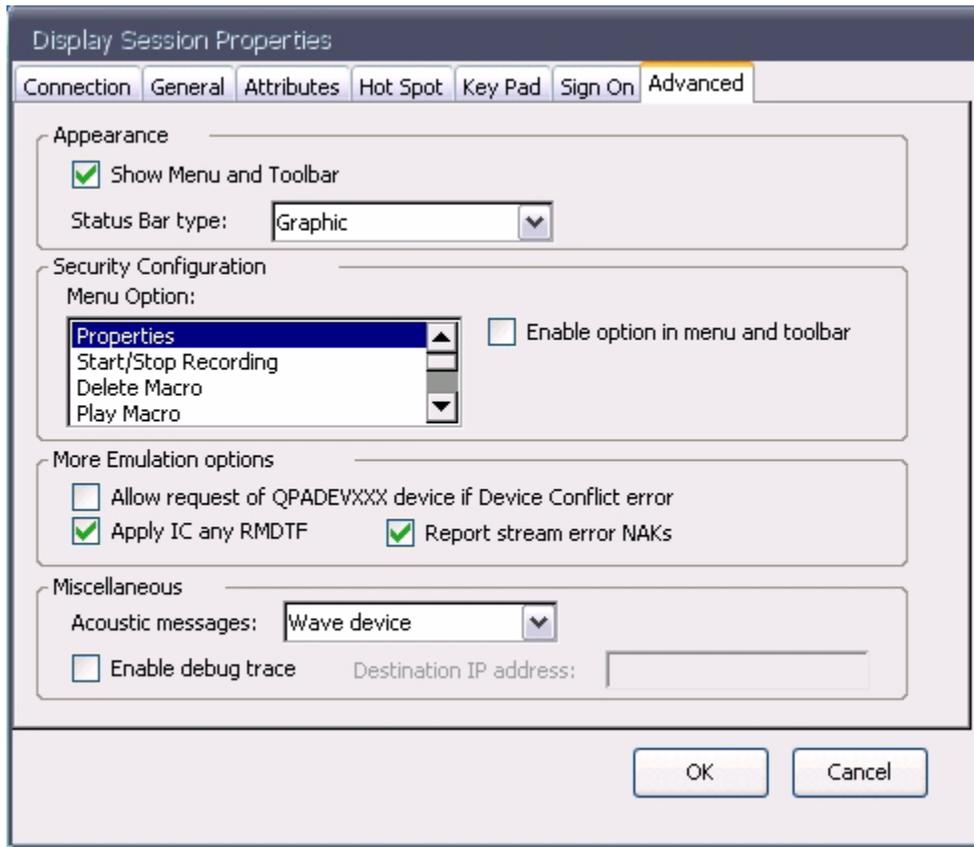
Allows to bypass signon and enable encrypted signon.

NOTE: QAUTOSIGN must be set to \*VERIFY for this to work.



The image shows a screenshot of the 'Display Session Properties' dialog box, specifically the 'Sign On' tab. The dialog box has a title bar and several tabs: 'Connection', 'General', 'Attributes', 'Hot Spot', 'Key Pad', 'Sign On', and 'Advanced'. The 'Sign On' tab is selected and highlighted. Inside the dialog, there is a section titled 'Sign On' with a small icon of a terminal window. Below this icon is a checkbox labeled 'Enable Crypted Sign On on this Session.' which is currently unchecked. Underneath the checkbox are six text input fields, each with a label to its left: 'User:', 'Password:', 'Confirm Password:', 'Program/procedure:', 'Menu:', and 'Current Library:'. At the bottom right of the dialog box, there are two buttons: 'OK' and 'Cancel'.

## Display Session Properties - Advanced Tab



Appearance - option allows to show menu and toolbar or hide it. Use the drop down Status Bar type: to change the status bar.

For a 5250 session that looks more like a terminal session, uncheck "Show Menu and Toolbar" and select "Classic" as the Status Bar type.

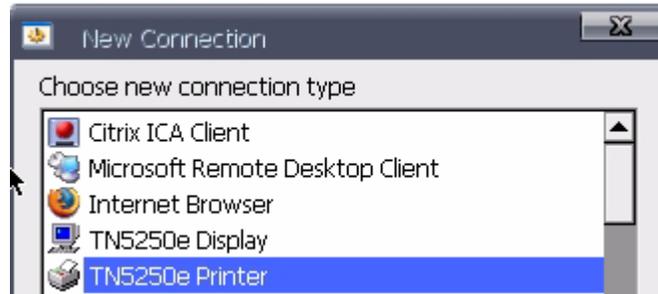
Security Configuration - option allows to enable or disable specific functions on the toolbar.

Host Device Connection - check to allow the use of a default host name if there is a device conflict error.

Miscellaneous - do not change any of these options unless instructed to do so by a 10ZiG technical support engineer.

# TN5250e Printer

To create a TN5250e printer session select add TN5250e printer and run through the wizard.



Enter the Host Name or IP of the host and the default port should be left at 23.



\

Enter the connection name - the name to be associated with the printer session ICON and the name displayed in the connection manager. Enter the Device Name which will be the printer name on the host when created.

Wizard

Type the Session description name, type and name of the device. Then press Next.

Connection Name: PRT-1

Device Type: 3812

Device Name: PRTBOS

Press Cancel to abort this Wizard

< Back    Next >    Cancel

Wizard

Select the correct Code Page and keyboard profile. Then press Finish to save the configuration.

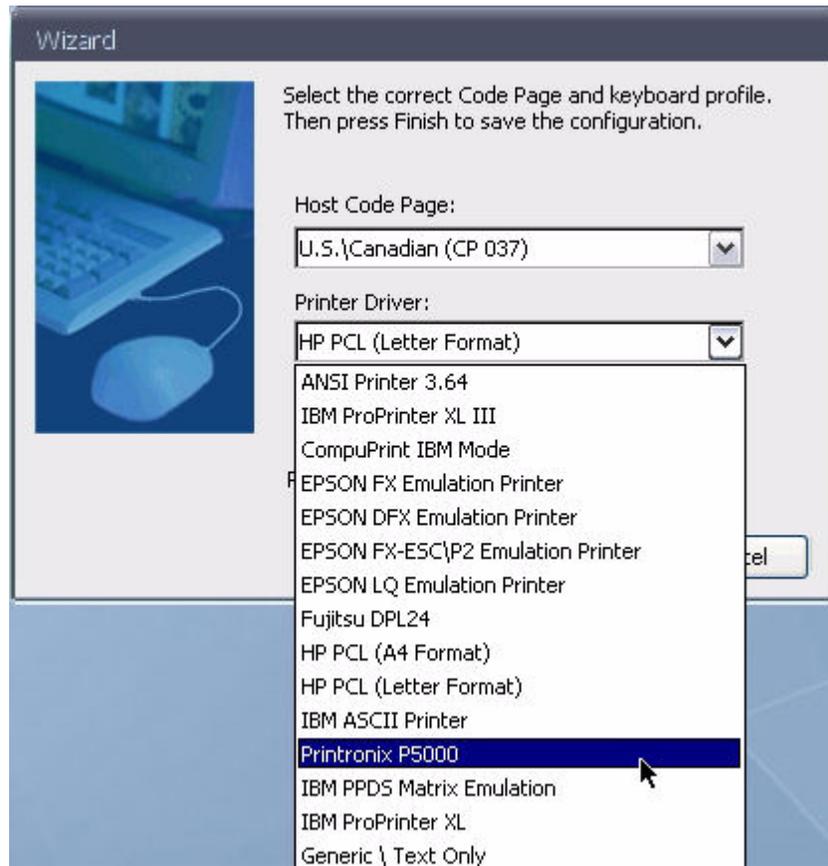
Host Code Page: U.S. (Canadian (CP 037))

Printer Driver: HP PCL (Letter Format)

Press Cancel to abort this Wizard

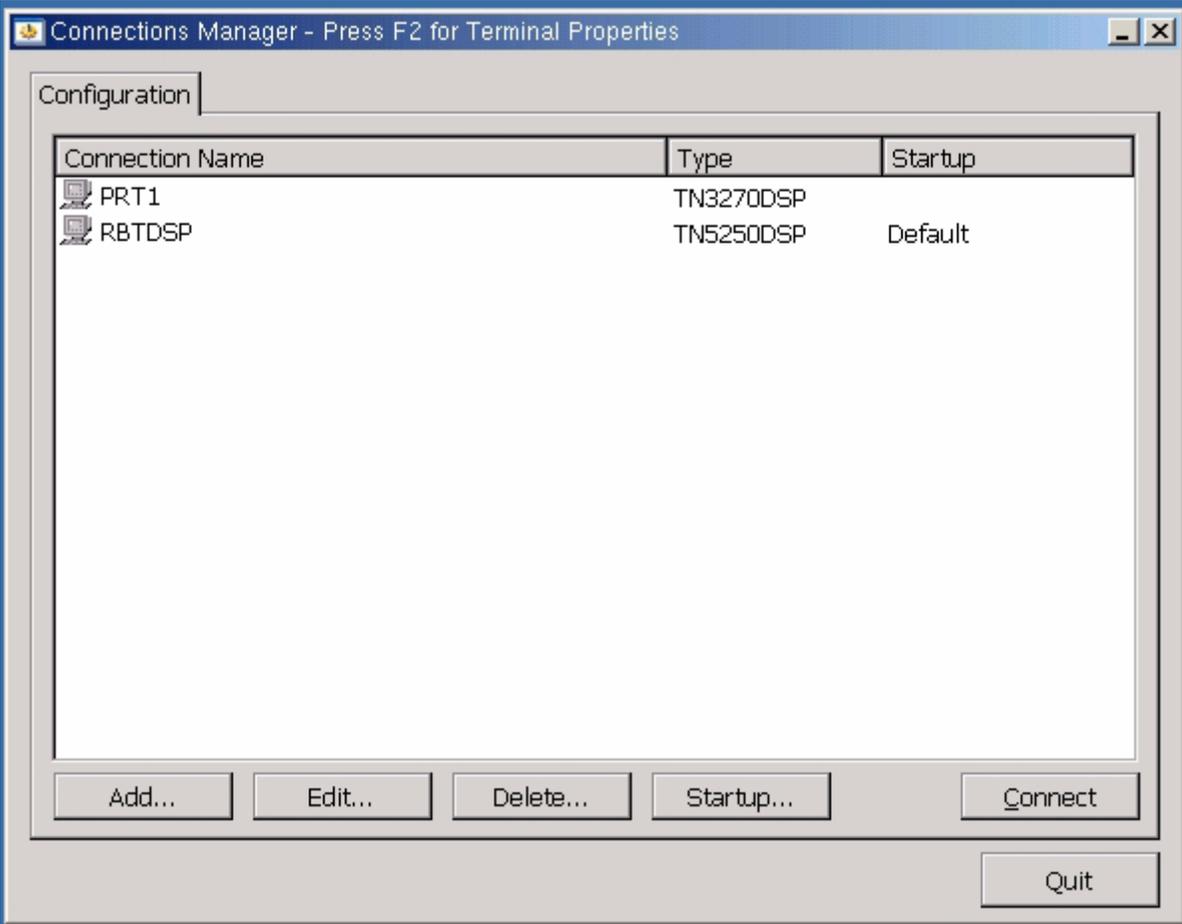
< Back    Finish    Cancel

Select the printer driver closest related to the attached printer.

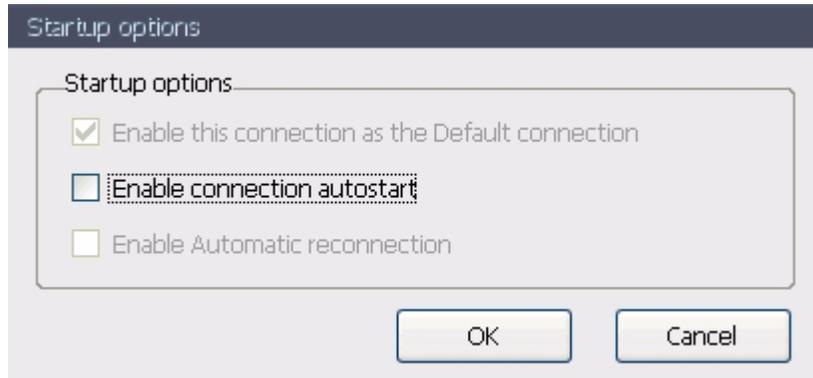


If unsure of the printer driver, try Generic\Text Only and/or use Host Print Transform in the Advanced tab.

Upon completion of the wizard an ICON will be placed on the desktop and the printer session can now be found in the Connections Manager window.



To start a session on startup, highlight the session in the connection manager and select the startup option at the bottom of the screen.



Enable this connection as the Default connection along with Enable connection autostart will enable primary session when autostarting sessions.

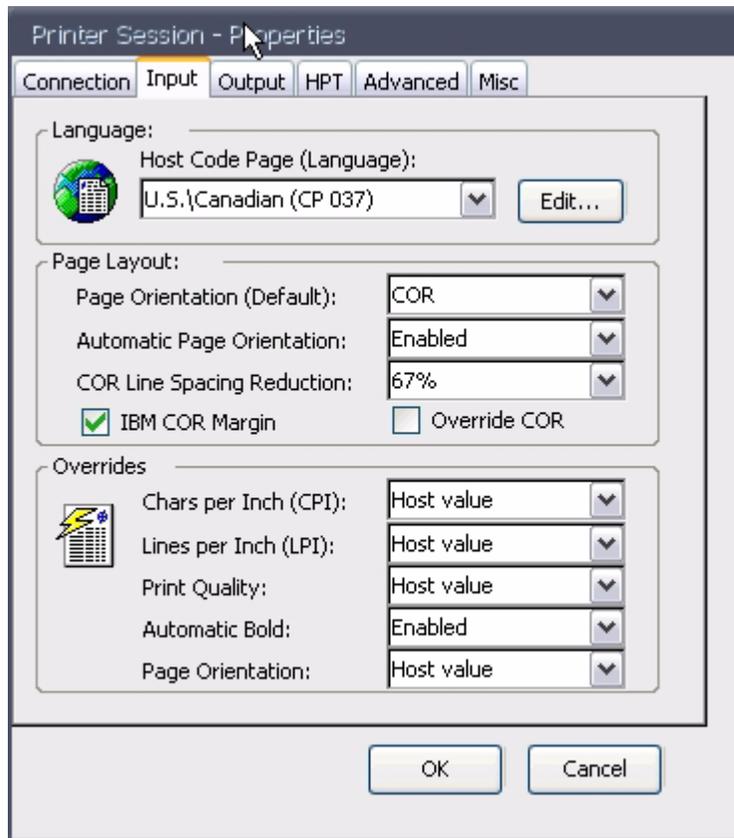
To make changes to the printer session, highlight the session and select Edit or right click on the desktop ICON and select Properties. To delete a session highlight the session and select Delete.

## Printer Session - Properties - Connection Tab

The screenshot shows the 'Printer Session - Properties' dialog box with the 'Connection' tab selected. The dialog has several tabs: 'Connection', 'Input', 'Output', 'HPT', 'Advanced', and 'Misc'. The 'Host Connection' section contains a printer icon, a text field for 'Host Name/IP Address' with the value '172.16.6.156', a text field for 'Port Number' with the value '23', and an 'Advanced options...' button. The 'Session' section contains a printer icon, a text field for 'Connection Name' with the value 'PRT-1', a text field for 'Device Name' with the value 'PRTBOS', and a dropdown menu for 'Device Type' with the value '3812'. At the bottom are 'OK' and 'Cancel' buttons.

The screenshot shows the 'Advanced Connection options' dialog box. It contains several settings: 'Enable Automatic reconnection' (unchecked) with a dropdown set to '1 min.'; 'Show foreground reconnection dialog' (checked); 'Send Keep Alive each (sec):' (0) with a dropdown set to 'Ping'; 'Send connection reset packets at session connection' (unchecked); 'Bind local TCP port to fixed value:' (10010); and 'Enable SSL encryption' (unchecked). At the bottom is an 'SSL port:' text field with the value '992' and 'OK' and 'Cancel' buttons.

## Printer Session - Properties - Input Tab



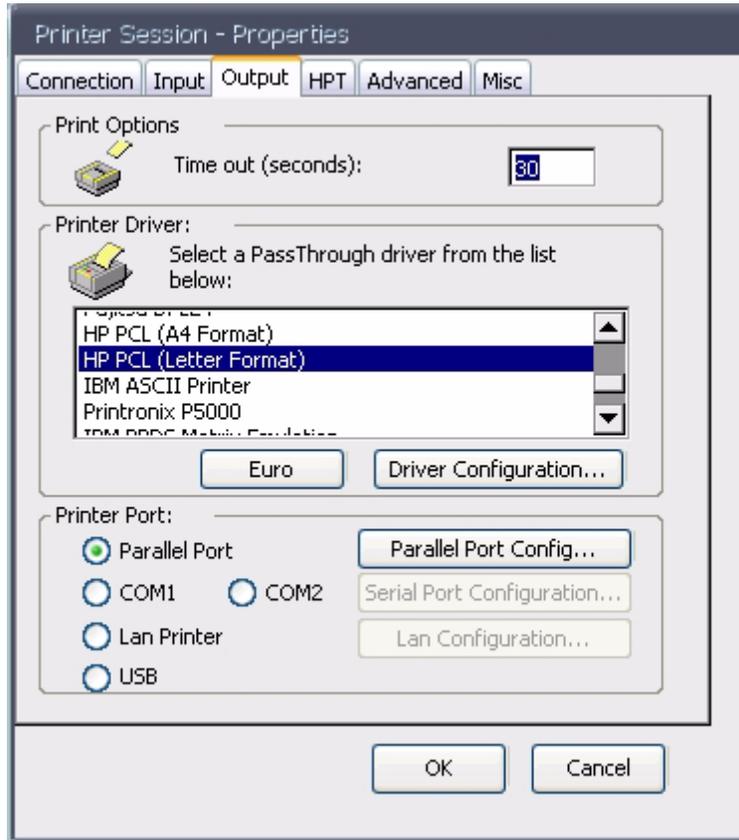
Computer output reduction (COR) automatically takes standard reports on computer paper and reduces them to fit on 8-1/2 by 11 inch paper. COR is designed to handle reports created at 66 lines per page and 132 print positions per line.

Changes the default page orientation to specify how to print a document on the workstation printer. If the orientation is explicitly set by the eServer i5 or iSeries page setup code, the explicit orientation is used.

Specify the compression percentage of the vertical line spacing to fit all the lines into the page. The default value is 67%.

## Printer Session - Properties - Output Tab

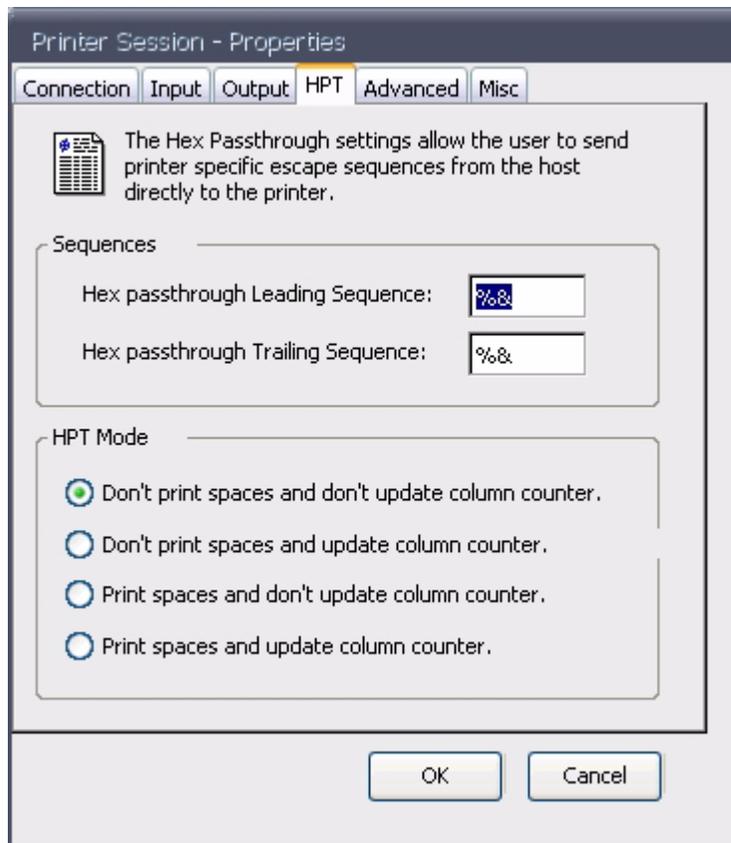
The printer driver seen here will be the printer driver selected when the printer session wizard was run.



The time-out is the time that is elapsed before we notify the host that the printer is offline and/or unreachable.

For a locally attached printer, normally you want a smaller time-out. For a network printer, you want something that allows for network delays, etc.

## Printer Session - Properties - HPT Tab



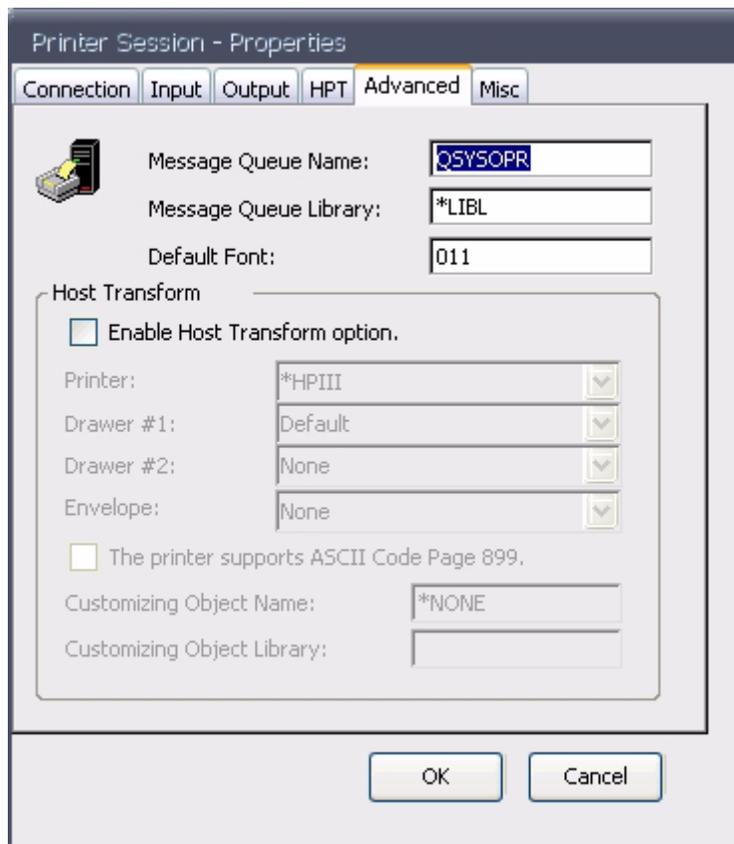
Some AS400 applications send "raw" sequences of commands to the printer - for instance to create custom overlays when using PCL. These commands should not be interpreted by the printer engine and are called hex passthru sequences. They are usually delimited by special characters so the printer engine can pass the data directly to the printer.

The "special" delimiting sequences depend on the application and may / are different.

The other options are used to allow correct alignment when using passthru - again this varies from application to application.

## Printer Session - Properties - Advanced Tab

To use **Host Print Transform**, set the printer driver in the **Output Tab** to Generic/Text Only. Check the **Enable Host Transform Option** and set the printer type or to use a customized object, set the printer to **\*WSCST** and enter the **Customizing Object Name** and **Customizing Object Library** in the area below.



NOTE: For best results try to use one of the included printer drivers and avoid using HPT.

## Printer Session - Properties - Misc Tab

The image shows a screenshot of the 'Printer Session - Properties' dialog box, specifically the 'Misc' tab. The dialog has a title bar and several tabs: 'Connection', 'Input', 'Output', 'HPT', 'Advanced', and 'Misc'. The 'Misc' tab is selected and highlighted. The main content area is divided into three sections:

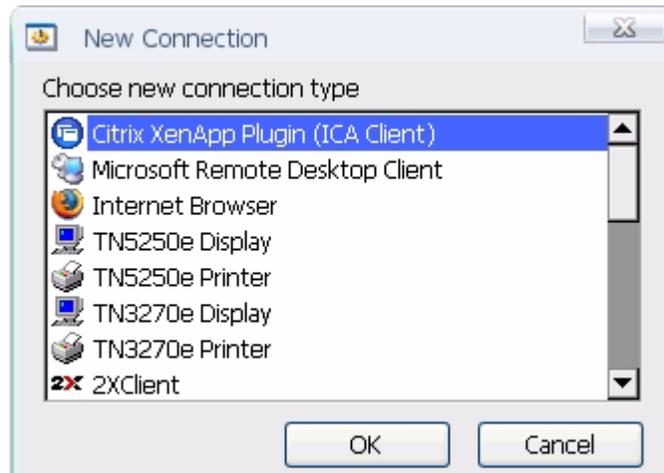
- Security Configuration:** Contains a checkbox labeled 'Enable "Properties" menu option and toolbar button', which is currently unchecked.
- Printing error handling options:** Contains two radio button options:
  - 'Error notification using foreground MessageBox' (selected)
  - 'Printing retry without operator intervention' (unselected)
- Misc:** Contains a checkbox labeled 'Enable debug trace', which is unchecked. Below this checkbox is a text label 'Destination IP address:' followed by an empty text input field.

At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'.

# CITRIX ICA CLIENT

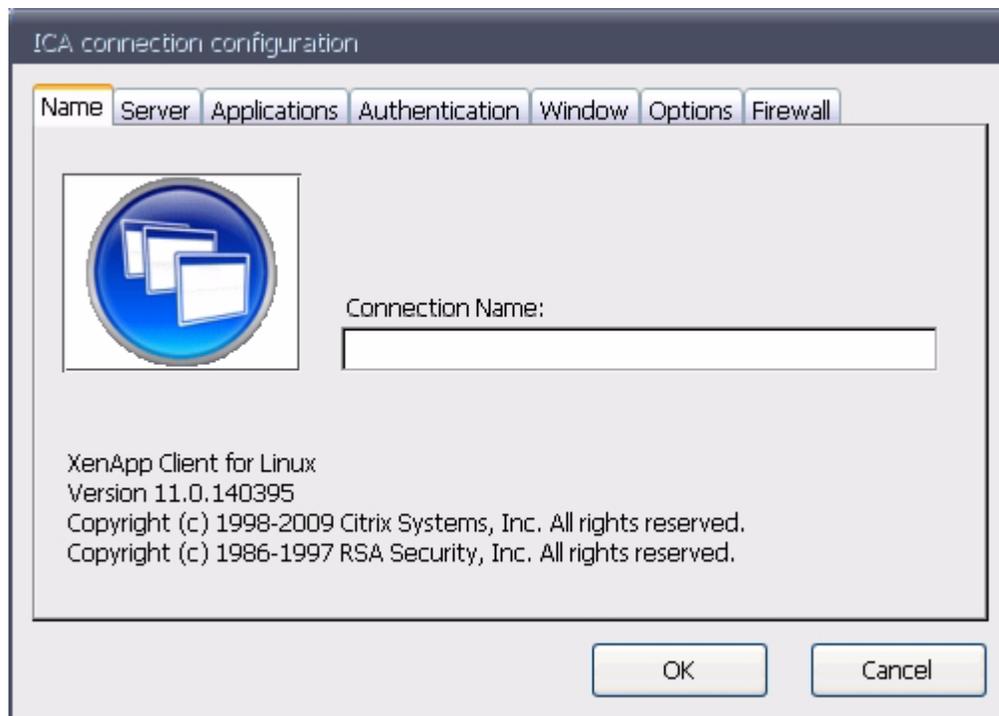
From the connections manager select add and choose Citrix ICA Client from the drop down list.

NOTE: Global ICA configuration and resources can be set prior to creating the ICA connection. Global settings can be found in the Terminal Properties Misc Tab.



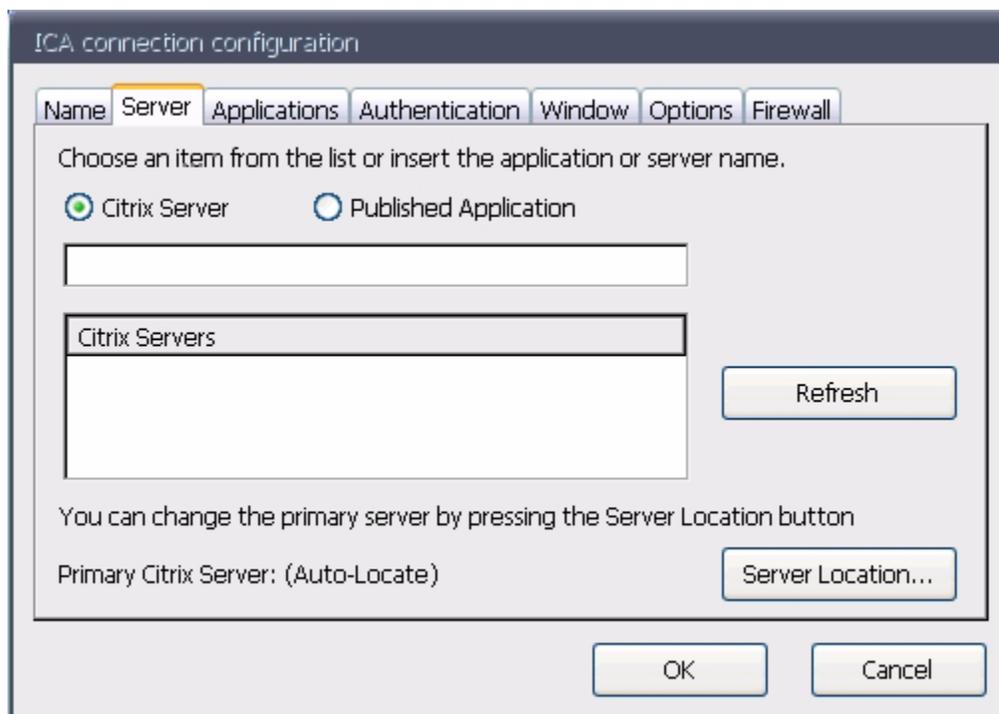
## ICA Connection Configuration Name Tab

Enter the connection name - name that will be displayed with the desktop ICON and in the connections manager.



## ICA Connection Configuration Server Tab

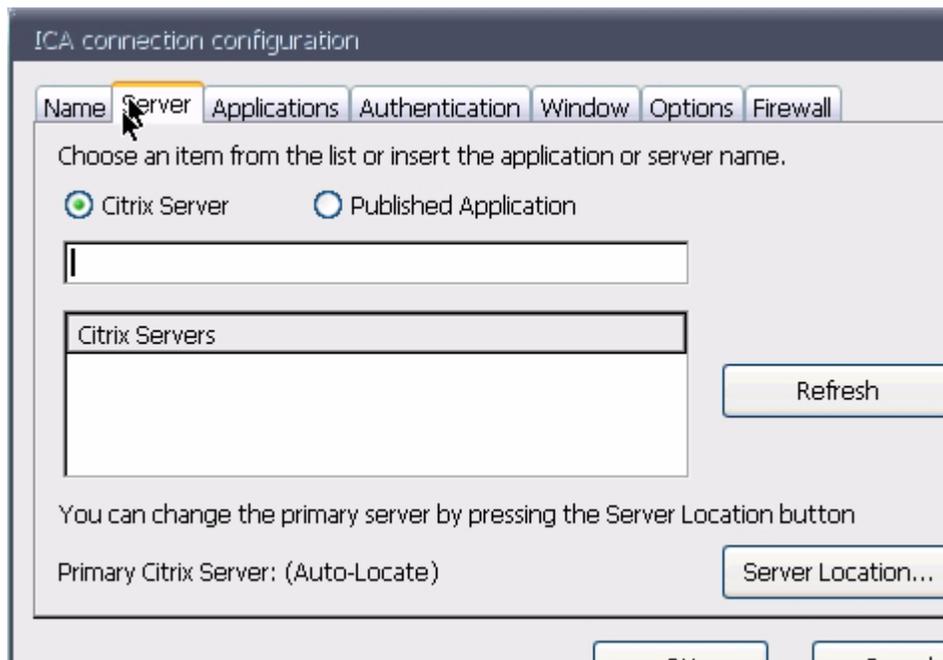
Enter the Citrix Server Name or enter the Published Application.



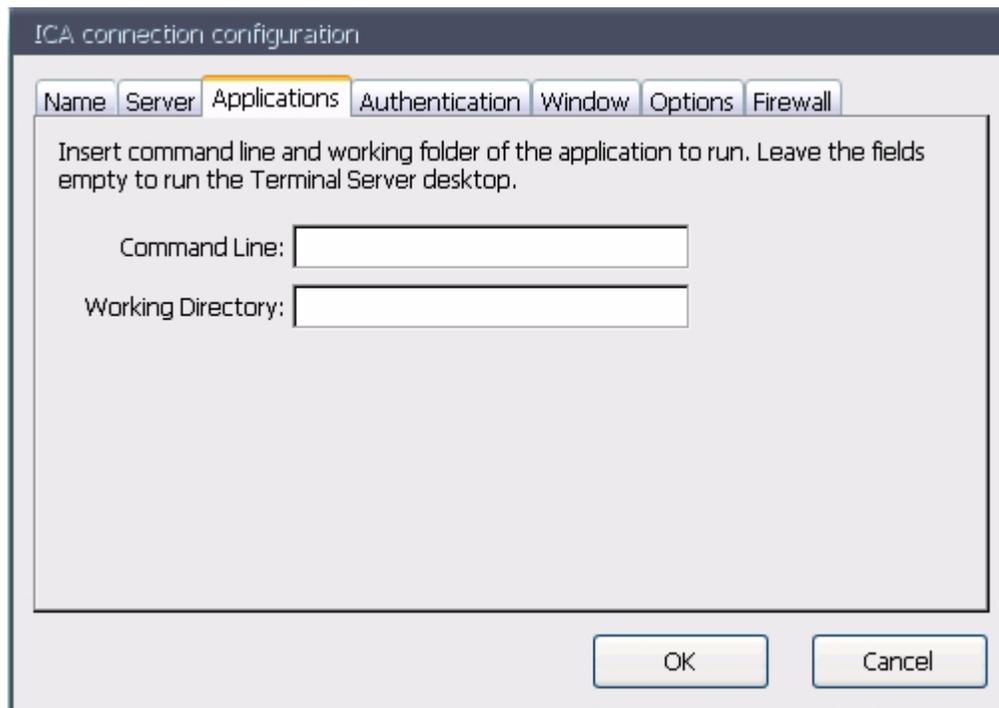
The screenshot shows the 'ICA connection configuration' dialog box with the 'Server' tab selected. The dialog has several tabs: 'Name', 'Server', 'Applications', 'Authentication', 'Window', 'Options', and 'Firewall'. The 'Server' tab is active, and the instruction 'Choose an item from the list or insert the application or server name.' is displayed. There are two radio buttons: 'Citrix Server' (selected) and 'Published Application'. Below the radio buttons is a text input field. Underneath is a list box containing 'Citrix Servers'. To the right of the list box is a 'Refresh' button. Below the list box, there is a note: 'You can change the primary server by pressing the Server Location button'. Below this note, the text 'Primary Citrix Server: (Auto-Locate)' is shown, followed by a 'Server Location...' button. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Select Server Location to set multiple locations of Citrix servers.

Add or Delete server information.



## ICA Connection Configuration Applications Tab



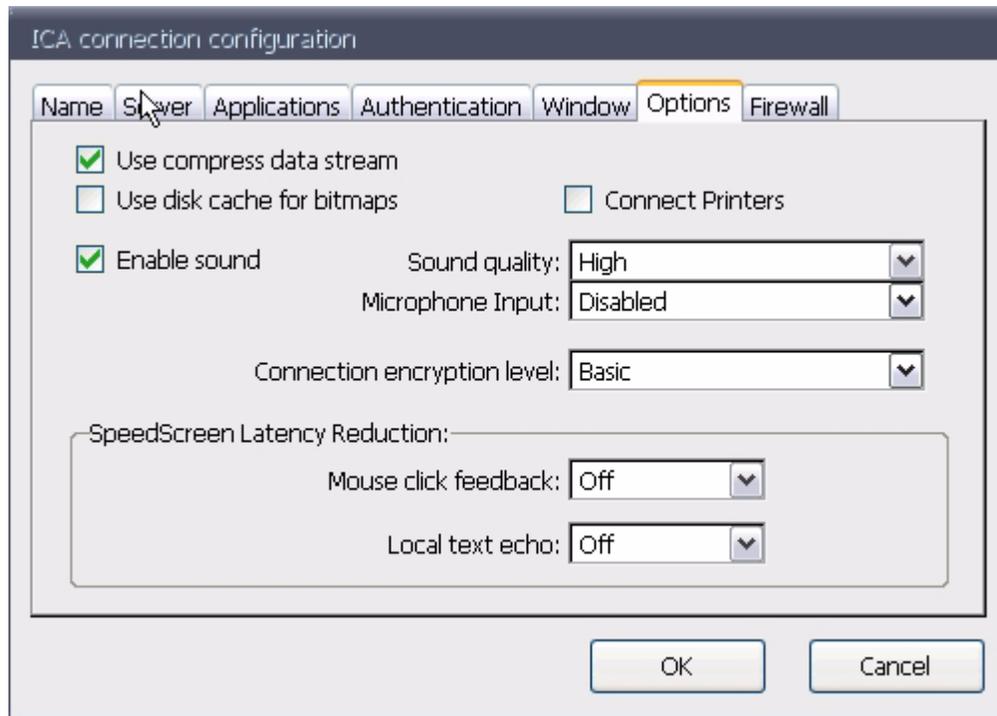
## ICA Connection Configuration Authentication Tab

The screenshot shows the 'ICA connection configuration' dialog box with the 'Authentication' tab selected. The dialog has a title bar and several tabs: 'Name', 'Server', 'Applications', 'Authentication', 'Window', 'Options', and 'Firewall'. The 'Authentication' tab is active, displaying the following text: 'If desired is possible insert here the login informations to use to connect to the remote applications'. Below this text are three input fields: 'User Name:', 'Password:', and 'Domain:'. A note at the bottom of the tab reads: 'Note: If the application is an anonymous published application, any login information will be ignored'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

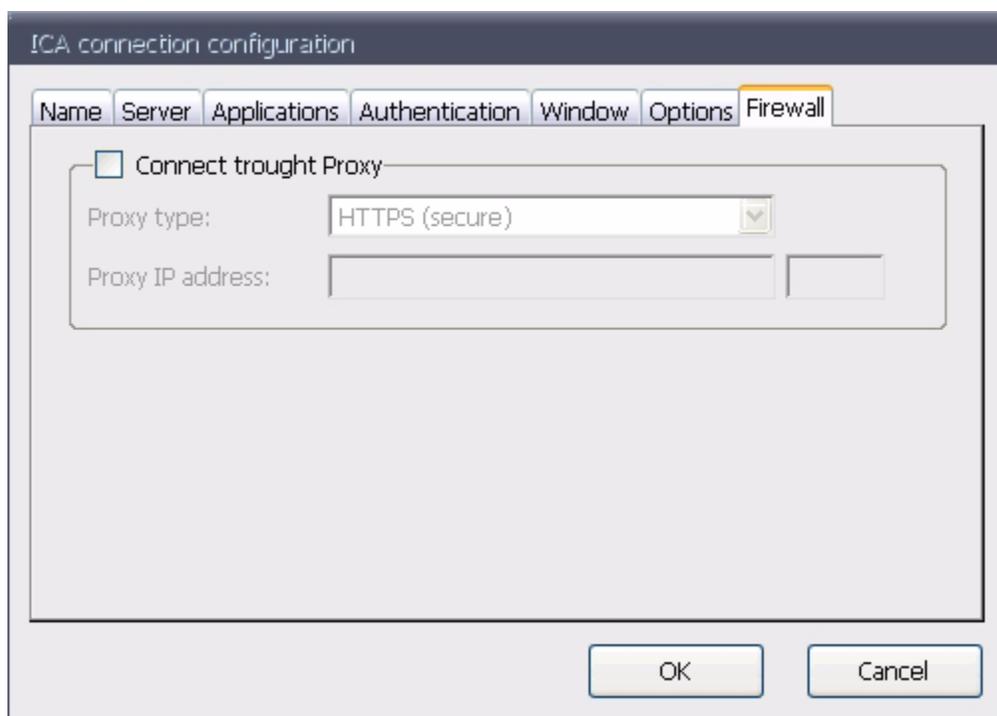
## ICA Connection Configuration Window Tab

The screenshot shows the 'ICA connection configuration' dialog box with the 'Window' tab selected. The dialog has the same title bar and tabs as the previous image. The 'Window' tab is active, displaying settings for 'Colors' and 'Window Size'. Under 'Colors', there is a 'Window colors:' dropdown menu set to '32K colors', and 'Color Mapping' with two radio buttons: 'Shared - Approximate Colors' (unselected) and 'Private - Exact Colors' (selected). Under 'Window Size', there is a 'Window size:' dropdown menu set to 'Maximized', and two sets of spinners: 'Select fixed size' with values '800' and '600', and 'Select percentage of screen' with a value of '75'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

## ICA Connection Configuration Options Tab



## ICA Connection Configuration Firewall Tab



An ICON will be created on the desktop.



Double click ICON to start CITRIX session or from the connection manager highlight the session and select connect.

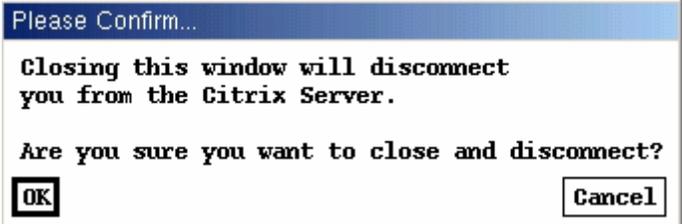
The citrix server will present a log on screen unless valid information was supplied prior in the authentication tab.



Credentials will be verified and if passed successfully, the Citrix Session will be presented.



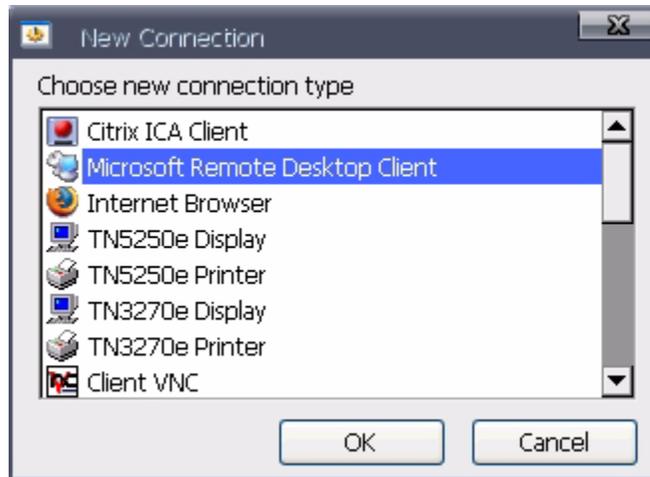
To close the session when minimized, right click on session in taskbar and select close. A message confirming the close will be presented.



To close the session from the start button on the Citrix Desktop, take the option to Disconnect/ Logoff.

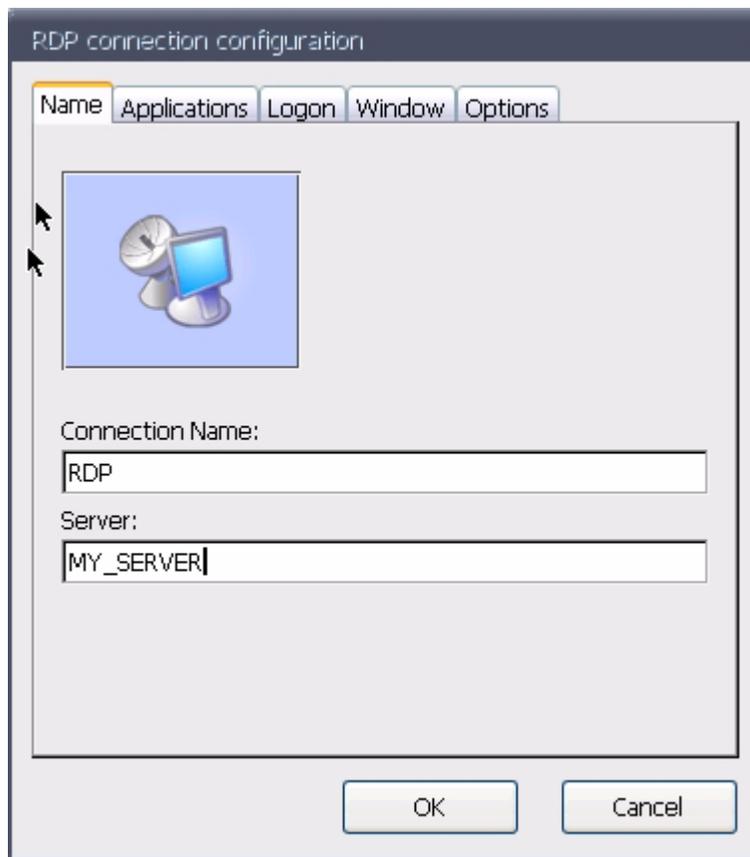
# Microsoft Remote Desktop Client

Select to add a new connection type.



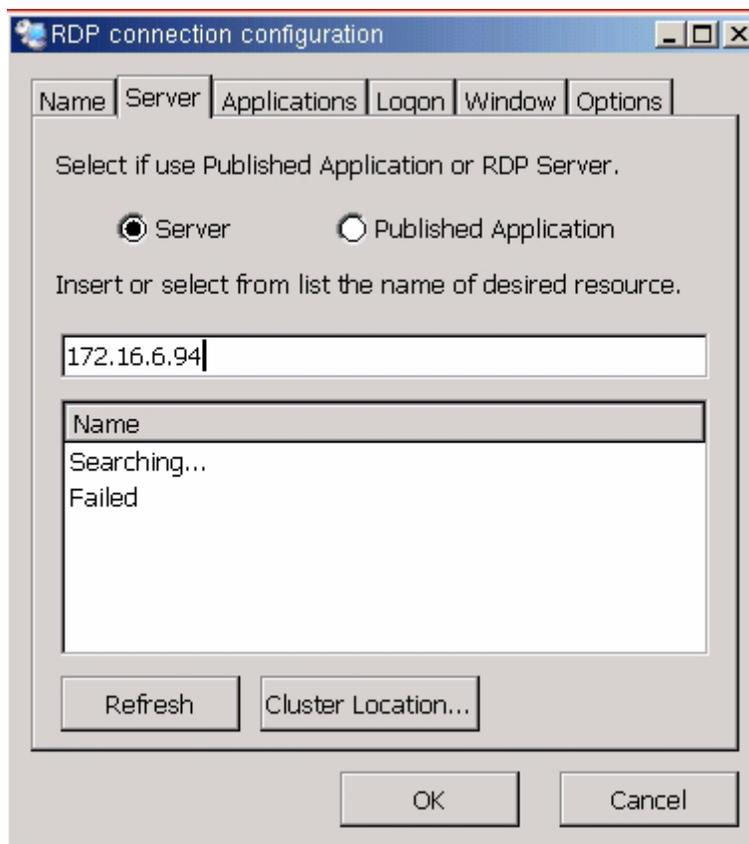
## RDP Connection Configuration - Name Tab

Enter the connection Name - name associated with ICON and displayed in connection manager and the server name or IP.



## RDP Connection Configuration - Server Tab

Enter the server or published application name or IP.



## RDP Connection Configuration - Application Tab

Insert the command line and working directory of the application to run. Leave the fields empty to run the Terminal Server desktop.

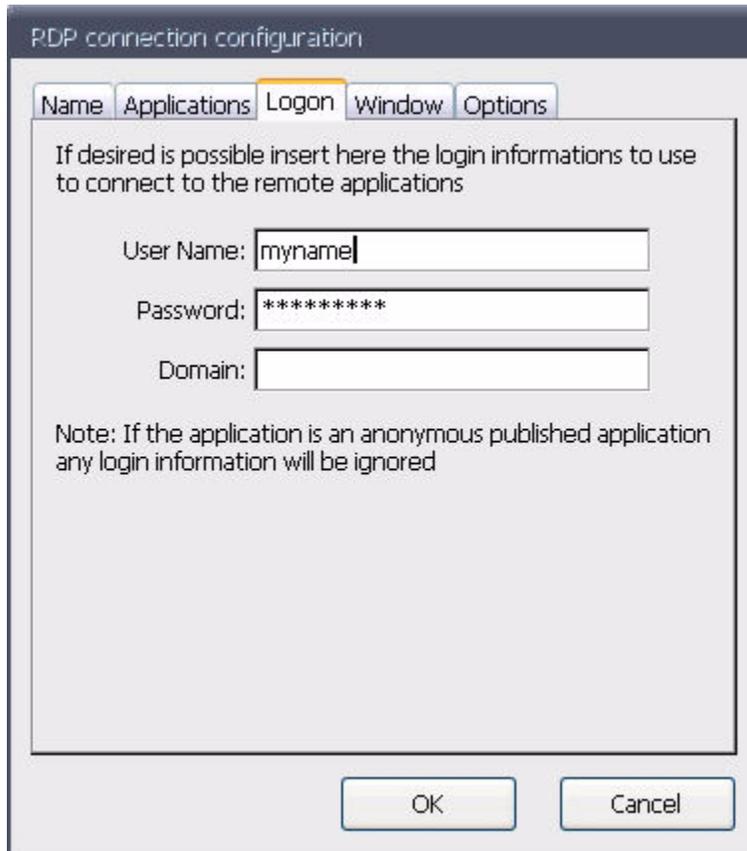


The image shows a dialog box titled "RDP connection configuration". It has five tabs: "Name", "Applications", "Logon", "Window", and "Options". The "Applications" tab is selected. Inside the dialog, there is a text area with the instruction: "Insert command line and working folder of the application to run. Leave the fields empty to run the Terminal Server desktop." Below this text are two input fields: "Command Line:" and "Working Directory:". At the bottom of the dialog are "OK" and "Cancel" buttons.

## RDP Connection Configuration - Logon Tab

Enter Logon information for user

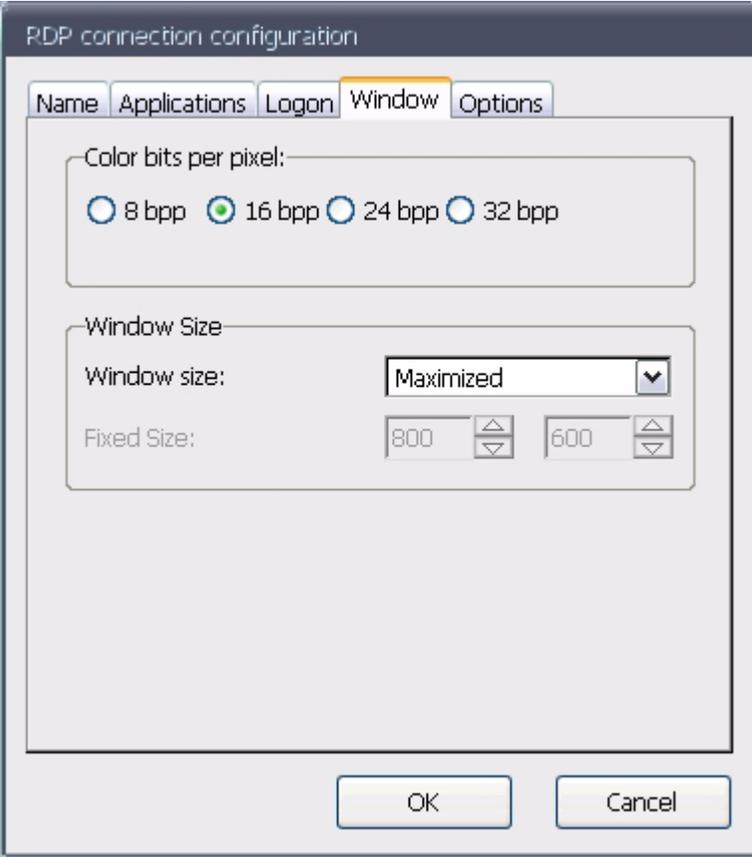
To be prompted for Logon information when the connection is started leave this area blank.



The image shows a screenshot of the 'RDP connection configuration' dialog box, specifically the 'Logon' tab. The dialog has a title bar and five tabs: 'Name', 'Applications', 'Logon', 'Window', and 'Options'. The 'Logon' tab is selected. Inside the dialog, there is a text area with the instruction: 'If desired is possible insert here the login informations to use to connect to the remote applications'. Below this are three input fields: 'User Name:' containing 'myname', 'Password:' containing '\*\*\*\*\*', and 'Domain:'. At the bottom of the dialog are 'OK' and 'Cancel' buttons. A note at the bottom of the text area reads: 'Note: If the application is an anonymous published application any login information will be ignored'.

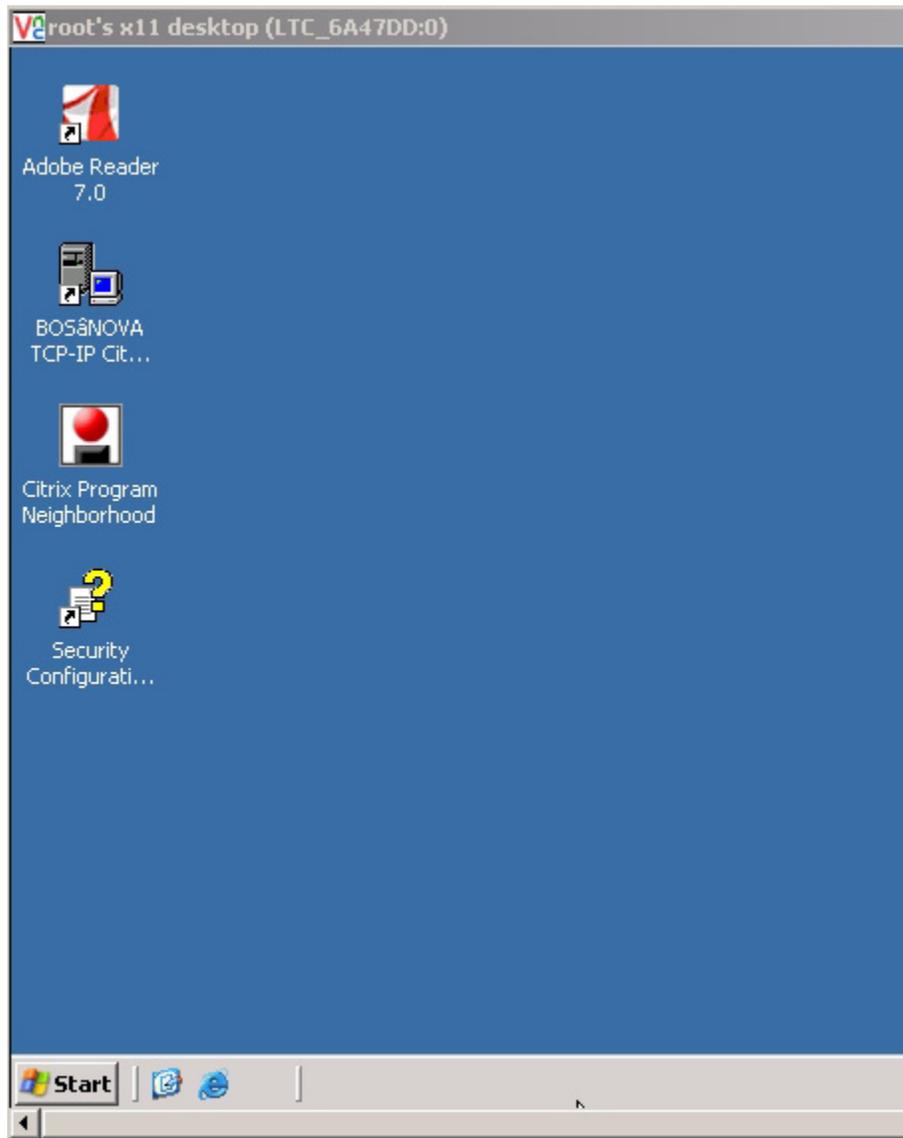
# RDP Connection Configuration - Window Tab

Enter the RDP session desktop settings.

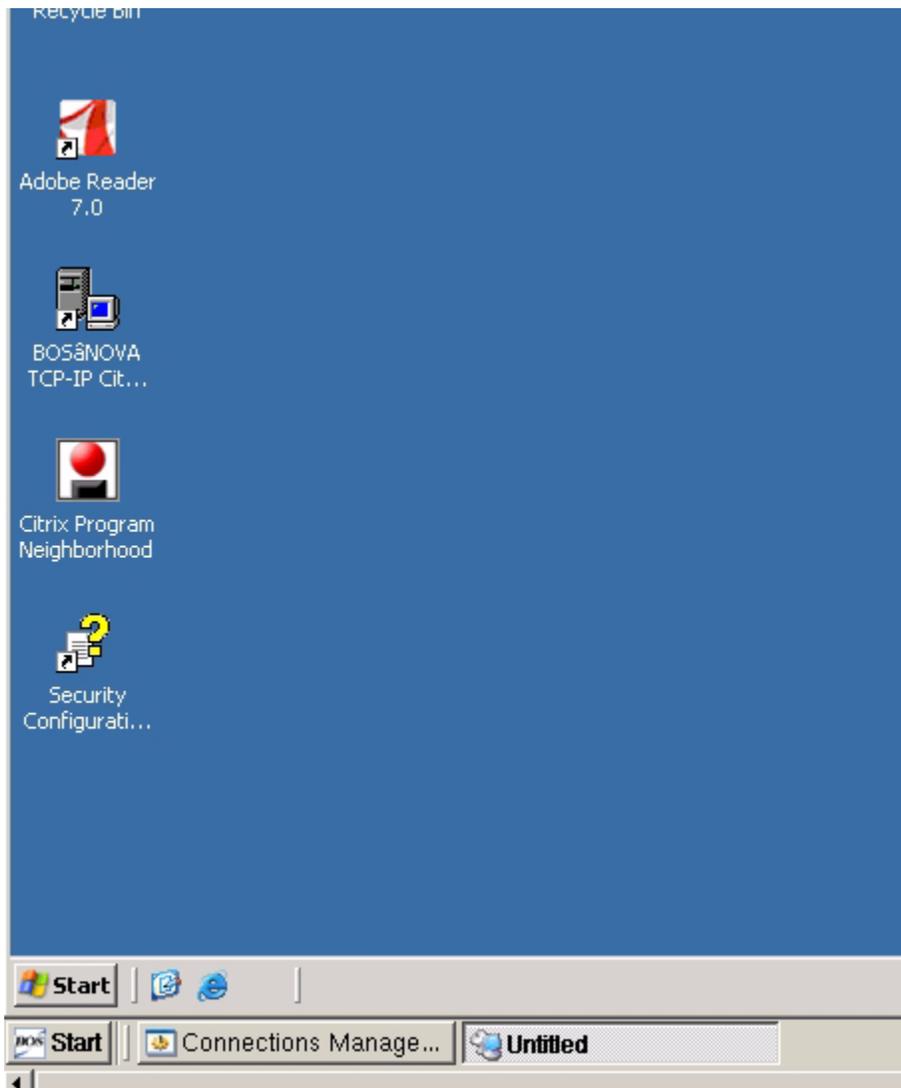


## Window Size:

Full Screen mode takes up the entire screen. The look and feel is that the RDP session is your desktop with no task bar from the thin client itself.



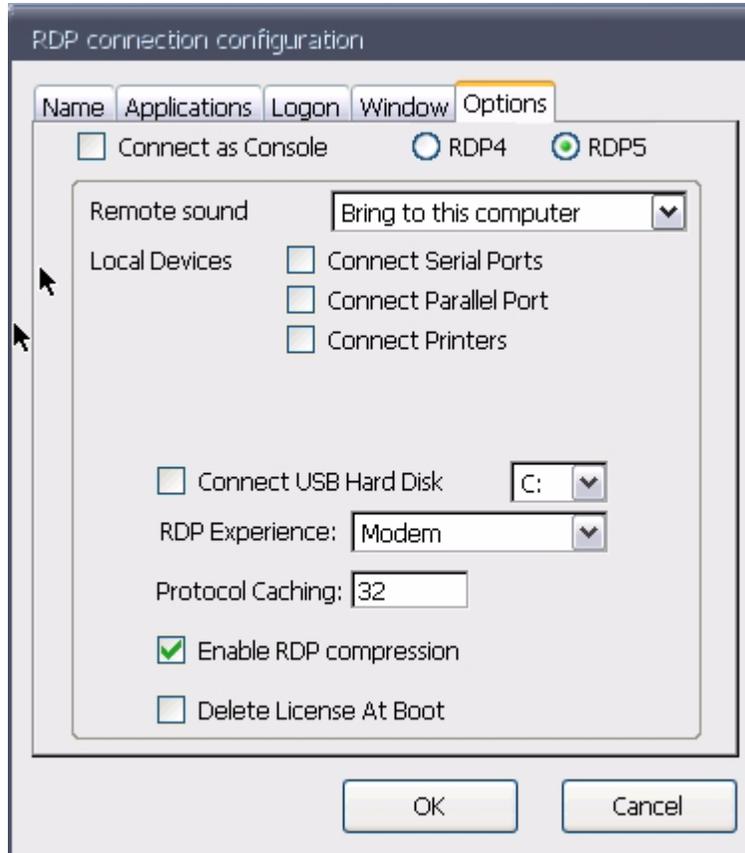
Maximized mode maximizes the RDP desktop but leaves the thin client toolbar visible underneath it.



**NOTE:** The greater the color depth, the more bandwidth the connection will use.

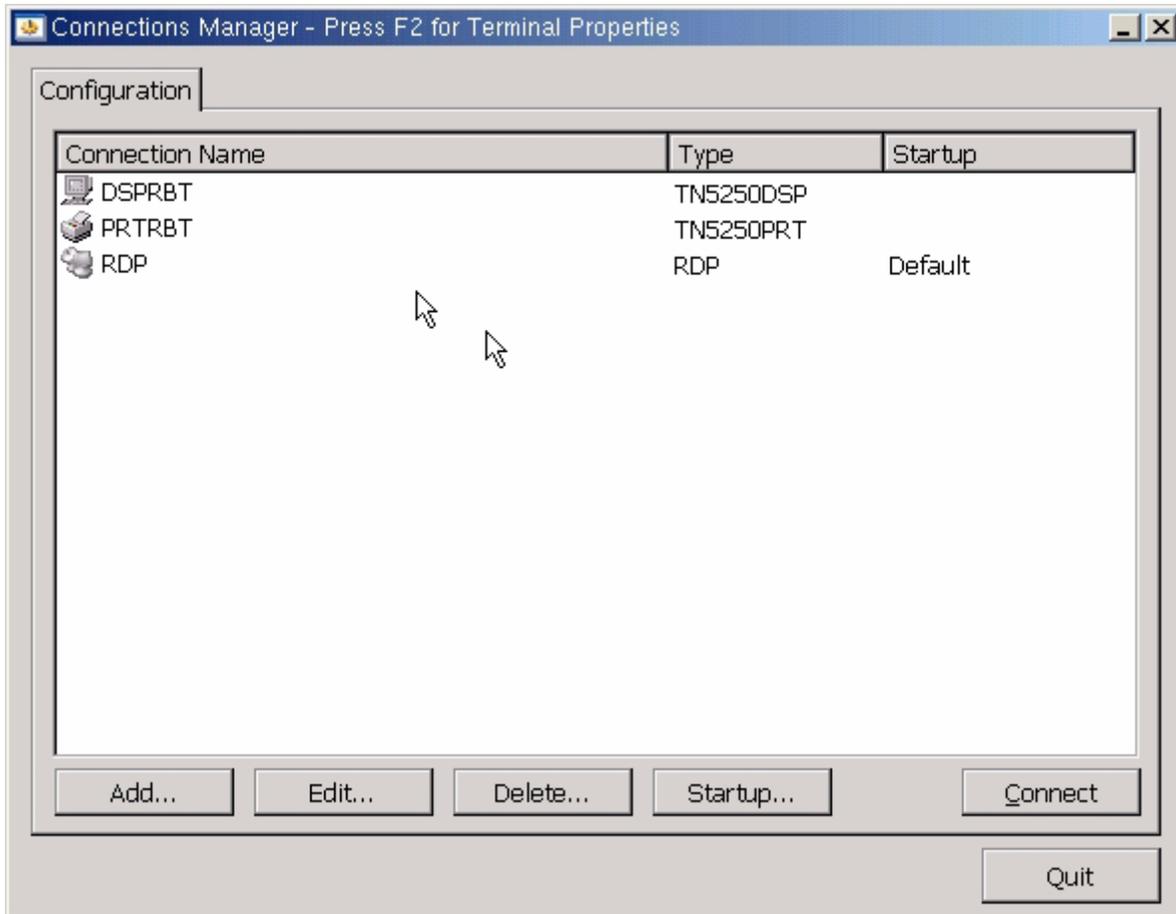
## RDP Connection Configuration - Options Tab

Use this area to connect local devices to the RDP session.



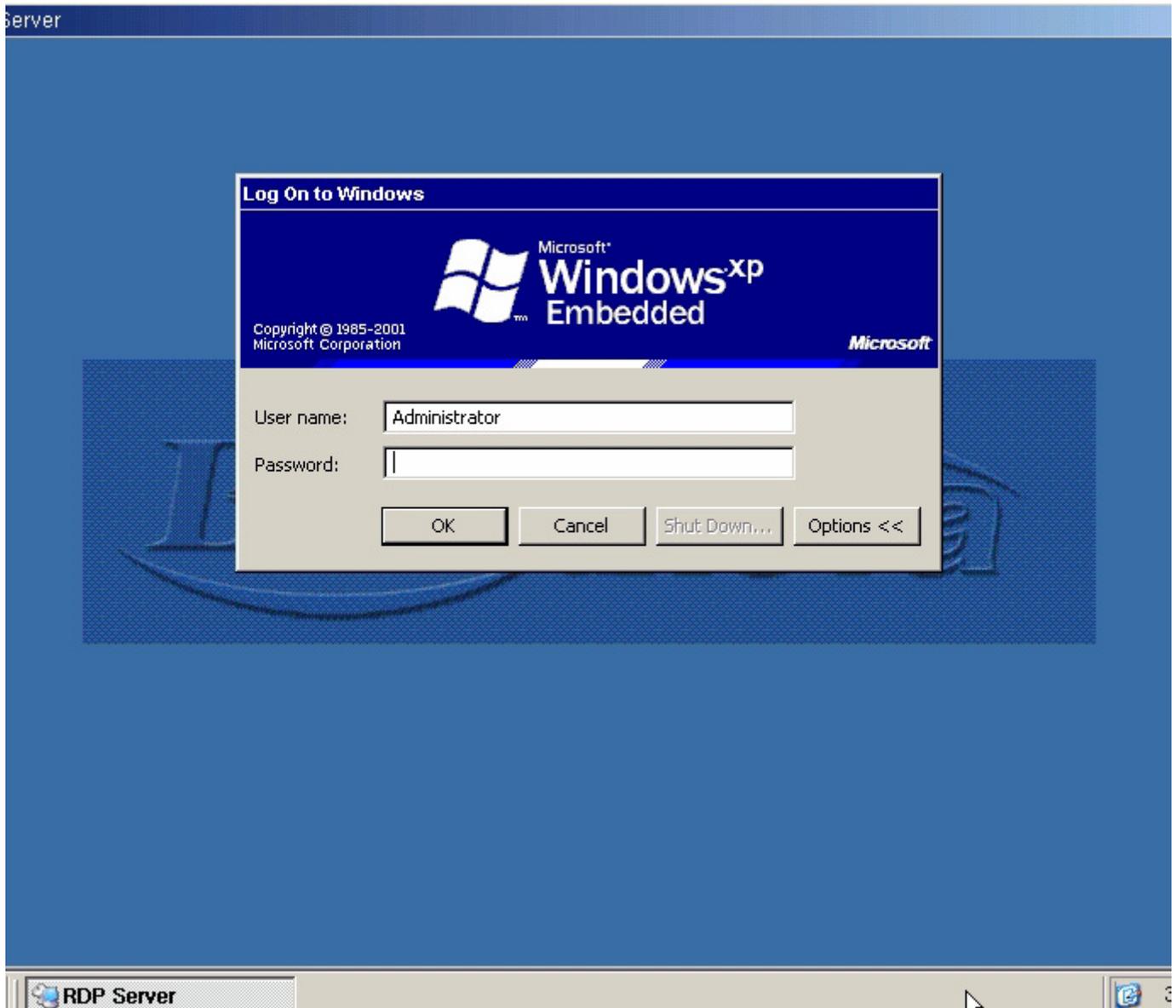
An ICON will be created on the desktop and a connection will be added to the connection manager.





Double click the ICON to start the RDP session or select the session in the connection manager and select connect.

Log On to Windows with proper credentials to get the RDP desktop.



## Hot Key Combinations

Function	Hot Key Combination	Function	Hot Key Combination
About	Alt+V	Session Disconnect	Ctrl+F4
Attributes Display	Ctrl+A	Setup	Ctrl+F2
Close All	Ctrl+F6	Split Screen: activate	Alt+Ctrl+ Insert
Copy	Ctrl+C		
Copy All	Ctrl+5	Split Screen: switch between screens	Alt+Ctrl+ Cursor Up *
Exit	Ctrl+F5		
Keyboard Help	Ctrl+F1	Switch to next 5250 session	Alt+PgUp *
Launch Connect'n Manager	Ctrl+Alt+End	Switch to next open application	Ctrl+Alt+Up Arrow
Next Session	Ctrl+S	Switch to previous open application	Ctrl+Alt+ Down Arrow
Paste	Ctrl+V		
Pause Macro	Alt+F3	Terminal Properties	Shift+F2
Play Macro	Alt+F5	View Hotspot	Ctrl+H
Quit	Ctrl+Alt	View Keypad	Ctrl+K
Record Macro	Alt+F4	View Ruler	Ctrl+Home
Session Connect	Ctrl+F3		
* On 122-key keyboards, use Alt+Jump			

<b>Client Side Software</b>	
	<b>RBT-366, RBT-466, TBT-1000</b>
OS	Linux Kernel 2.6.
Terminal Emulation	TN5250e and TN3270e Emulator, with GUI and hot spots; Telnet with SSH, VT100, Wyse 60
Embedded Applications	N/A
Connectivity	Remote Desktop Protocol (RDP) and Citrix Independent Computing Architecture (ICA)
Local Config.	Terminal/Session Config.

<b>Server Side Software</b>	
	<b>RBT-366; RBT-466; TBT-1000</b>
Operating System	Microsoft Windows 2000 server  Microsoft Windows 2003 server  Microsoft Windows NT Terminal Server Edition  Citrix MetaFrame  Citrix Winframe.
Management Tools	Remote Administrator  Wake on LAN

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