



10ZiG Technology

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RBT

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# Configuration Guide

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# RBT Configuration Guide

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# PRODUCT DESCRIPTION

The RBT Series of thin clients provides a powerful, simple, and affordable solution to desktop computing. The RBT Ethernet terminal offers 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 remote terminal administrator 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 thin clients support four 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.

## CONFIGURING THE RBT - 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.

**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.

## 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 .....	No
Device Name .....	
Driver .....	HP PCL (Letter Paper Format)

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

## NETWORK:

**Use DHCP:** If you answer YES, the RBT-366 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 supports 8 sessions.

**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.

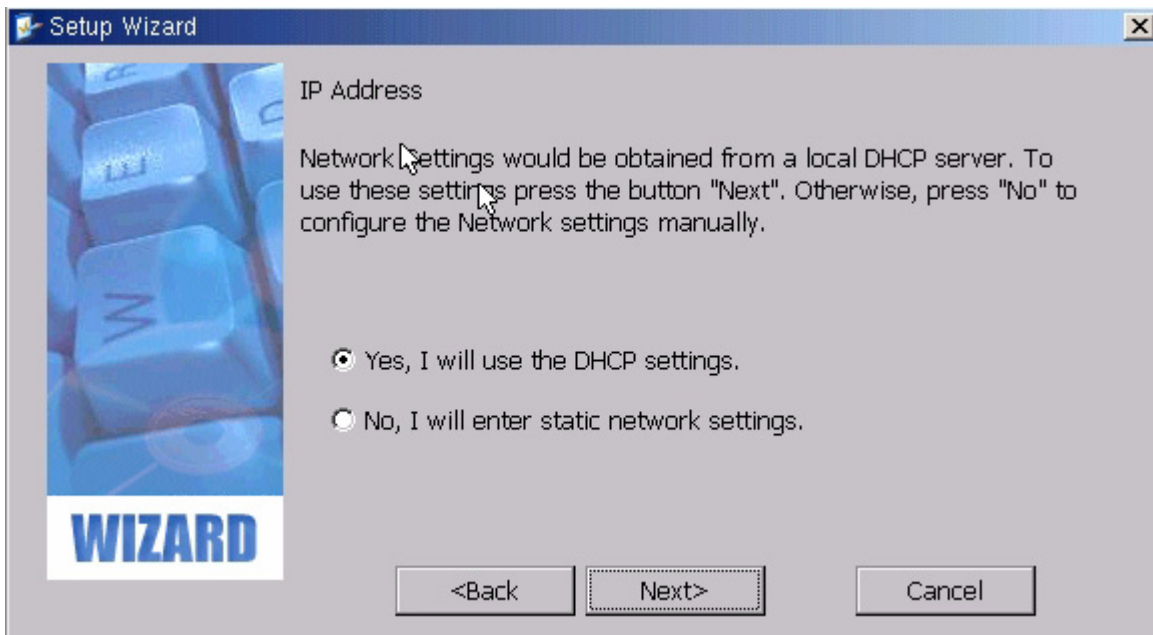
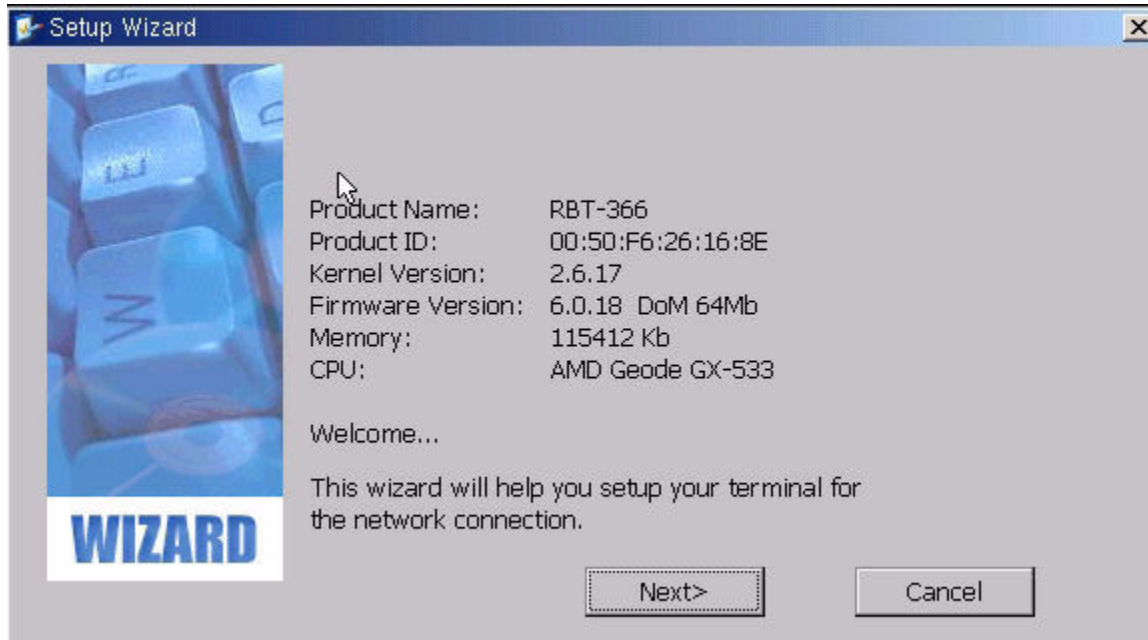
**Host Name/IP:** Enter the IP address of the iSeries/AS/400 or the DNS name of the iSeries/AS/400. If entering a DNS name, the Primary DNS Server information is used.

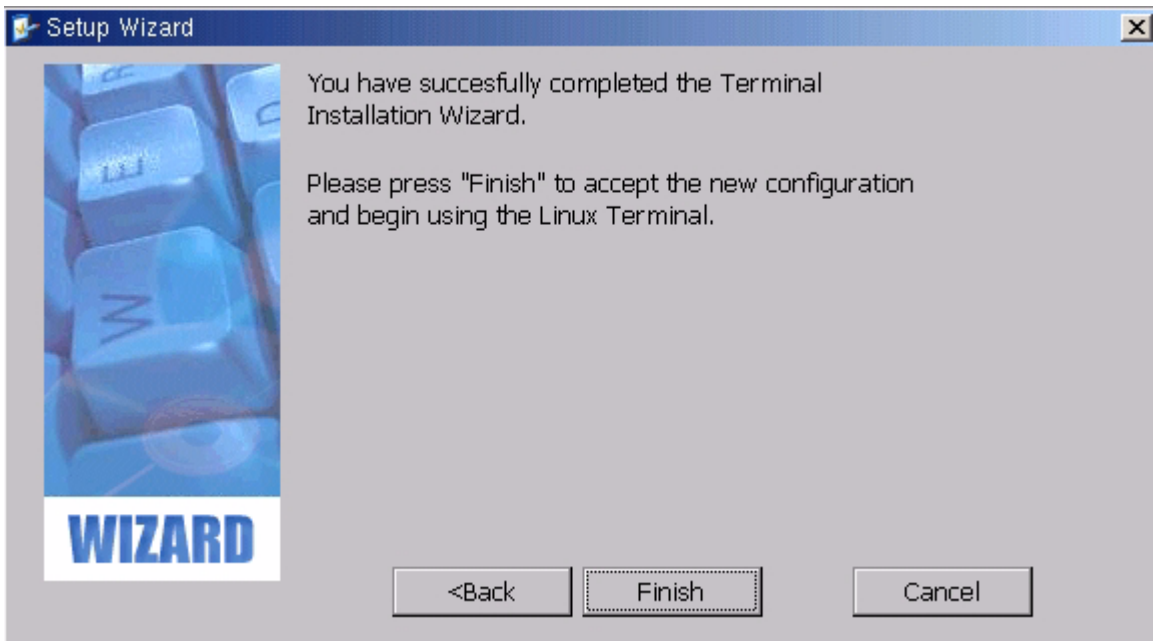
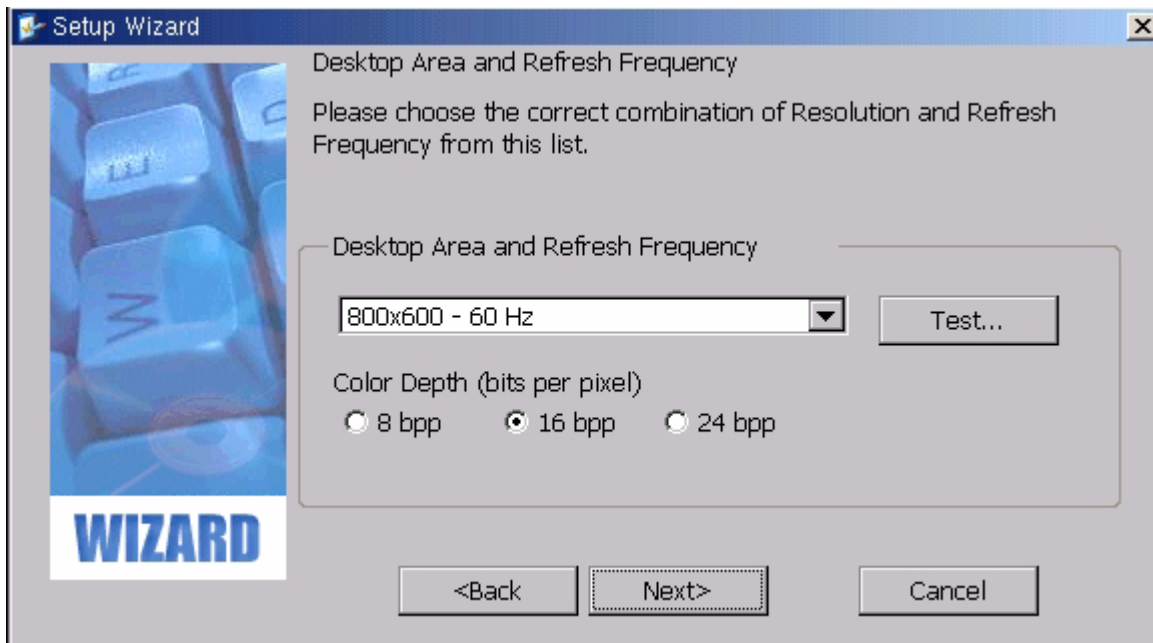
**Printer:** If there is a locally attached printer that will be used as a 5250 printer session, enter YES and enter the printer name. Select the closest match printer driver listed.

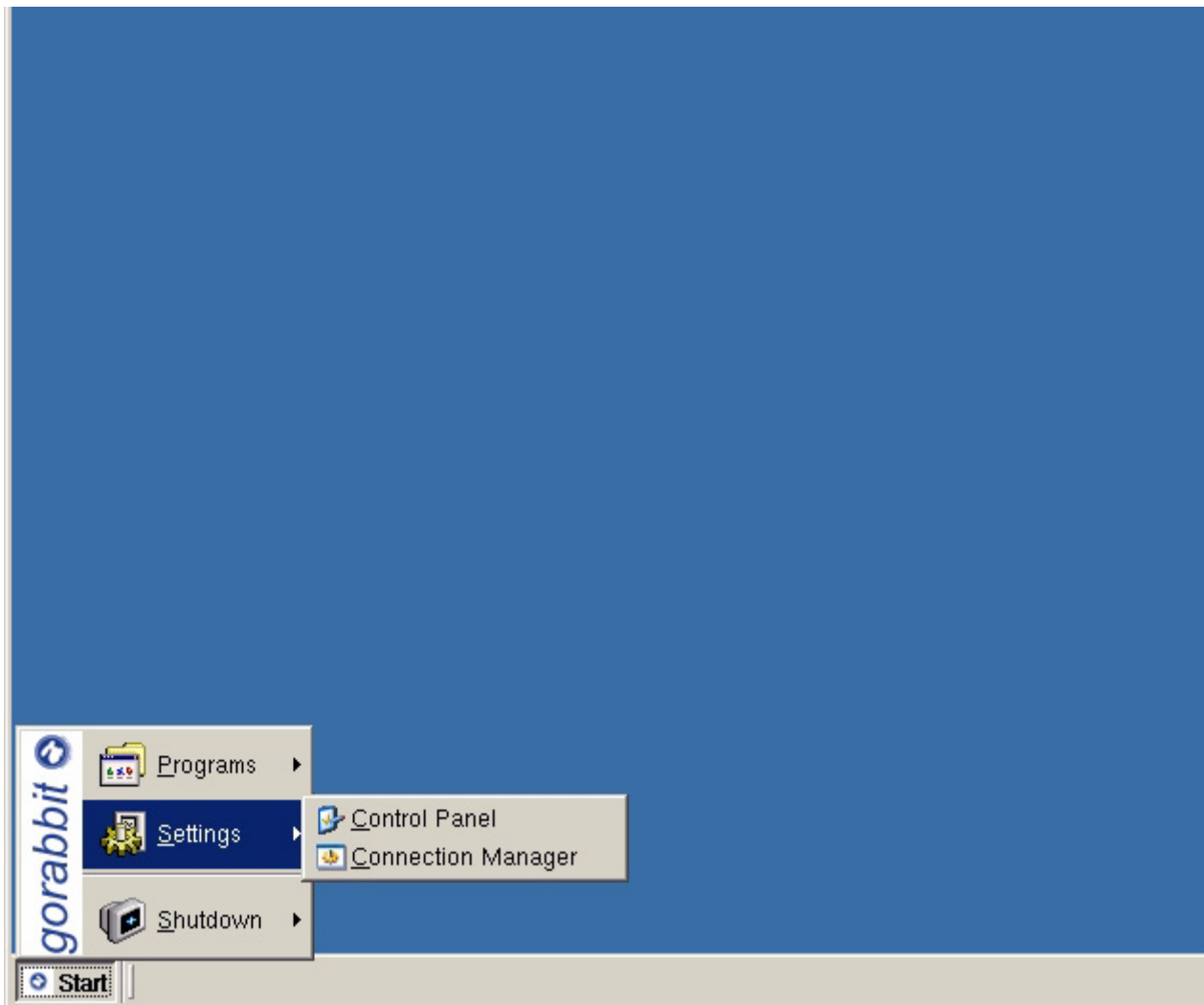
**To SAVE the changes in the QUICK SETUP screen press F3.**

# CONFIGURING THE RBT - Setup Wizard

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





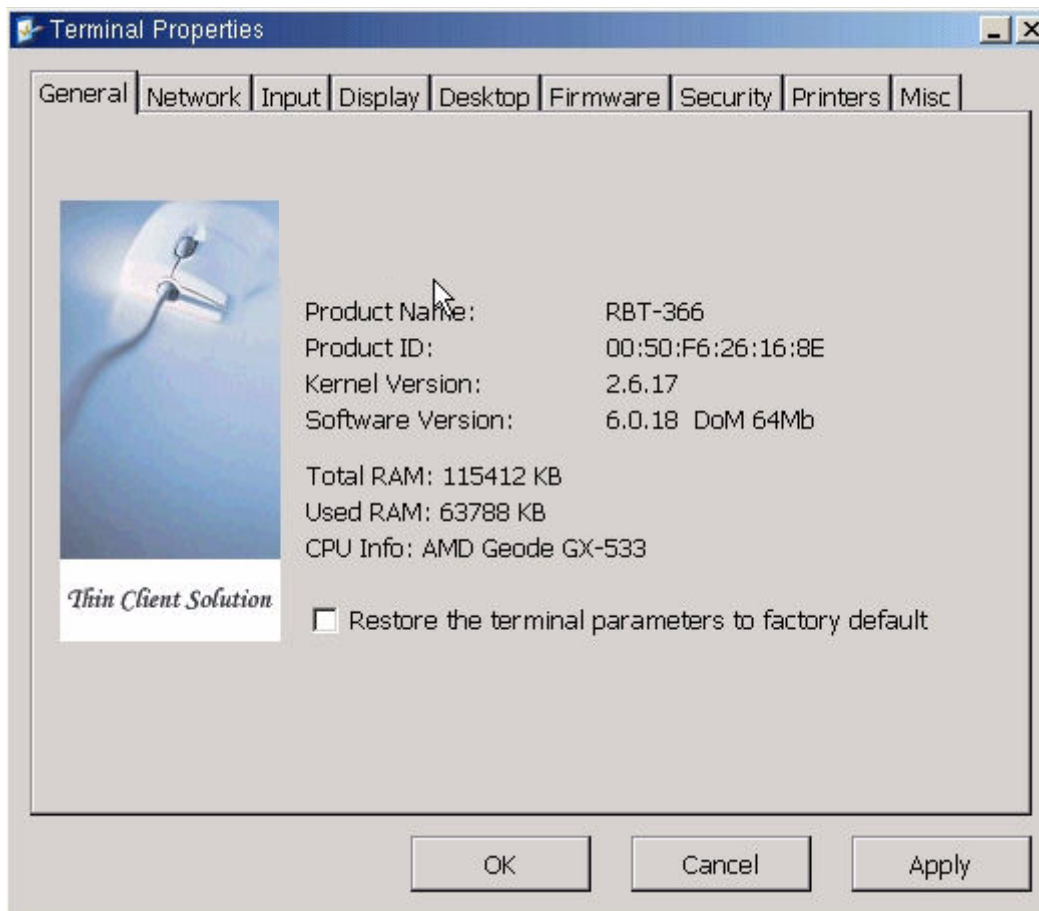


Once the configuration wizard has finished, configuration of RBT Thin Client Linux terminals is accomplished by launching the Terminal Configuration Utility from the main toolbar by selecting Start-Settings Control Panel.

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

## Terminal Properties – General Tab

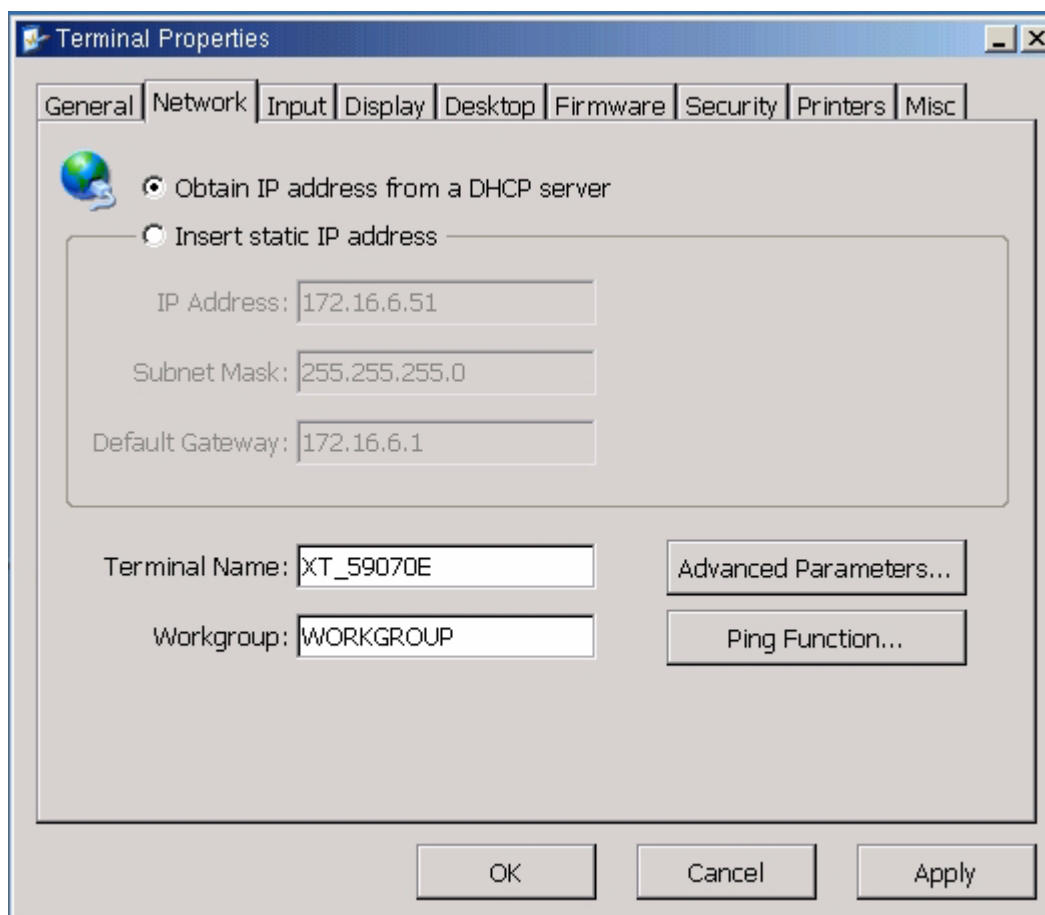
The **General** page displays the firmware revision as well as the Thin Client hardware configuration.



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 manager by right clicking on the unit and selecting Special Functions - Factory Default.

## 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.

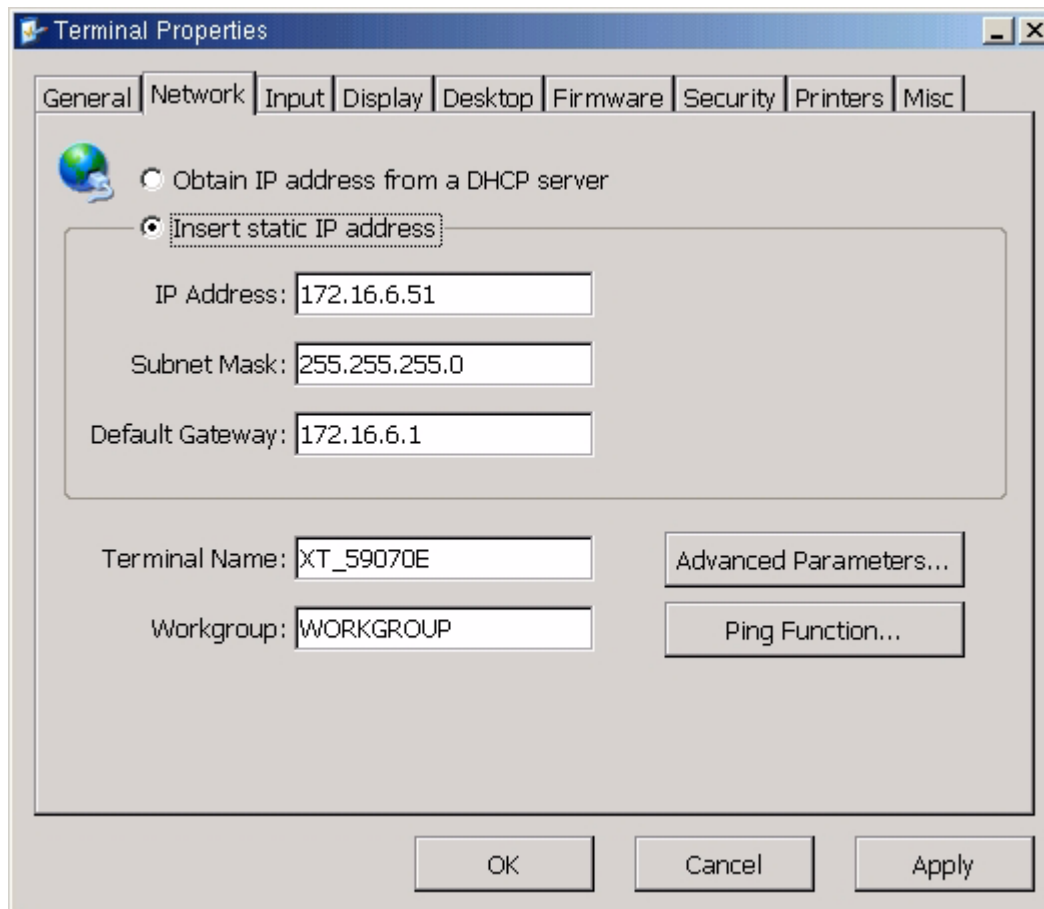


The screenshot shows the 'Terminal Properties' dialog box with the 'Network' tab selected. The 'General' tab is also visible. The 'Network' tab contains two radio buttons: 'Obtain IP address from a DHCP server' (selected) and 'Insert static IP address'. Below the radio buttons are three text input fields: 'IP Address' (172.16.6.51), 'Subnet Mask' (255.255.255.0), and 'Default Gateway' (172.16.6.1). At the bottom of the dialog, there are two text input fields: 'Terminal Name' (XT\_59070E) and 'Workgroup' (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'.

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

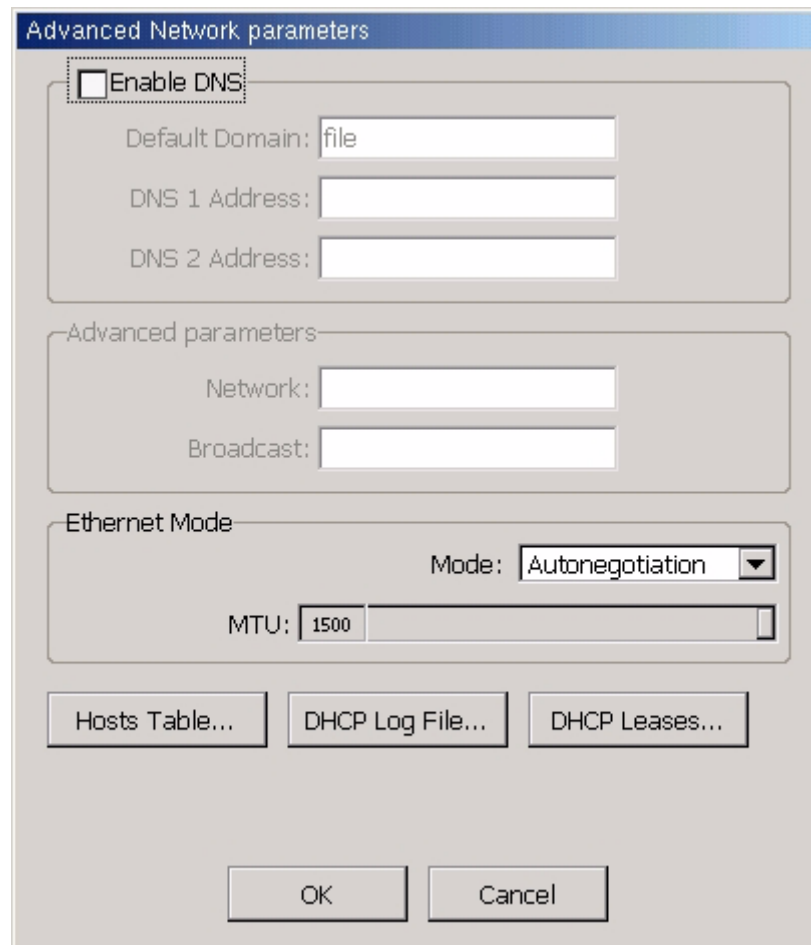


If you do not have a DHCP server on the network, the IP address and gateway must be set manually.



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.



The image shows a dialog box titled "Advanced Network parameters". It contains several sections for configuring network settings. The first section has a checkbox labeled "Enable DNS" which is currently unchecked. Below this are three text input fields: "Default Domain:" with the value "file", "DNS 1 Address:", and "DNS 2 Address:". The second section is titled "Advanced parameters" and contains two text input fields: "Network:" and "Broadcast:". The third section is titled "Ethernet Mode" and contains a "Mode:" dropdown menu set to "Autonegotiation" and an "MTU:" slider set to 1500. At the bottom of the dialog are three buttons: "Hosts Table...", "DHCP Log File...", and "DHCP Leases...". At the very bottom are "OK" and "Cancel" buttons.

Advanced Network parameters

☐ Enable DNS

Default Domain: file

DNS 1 Address:

DNS 2 Address:

Advanced parameters

Network:

Broadcast:

Ethernet Mode

Mode: Autonegotiation

MTU: 1500

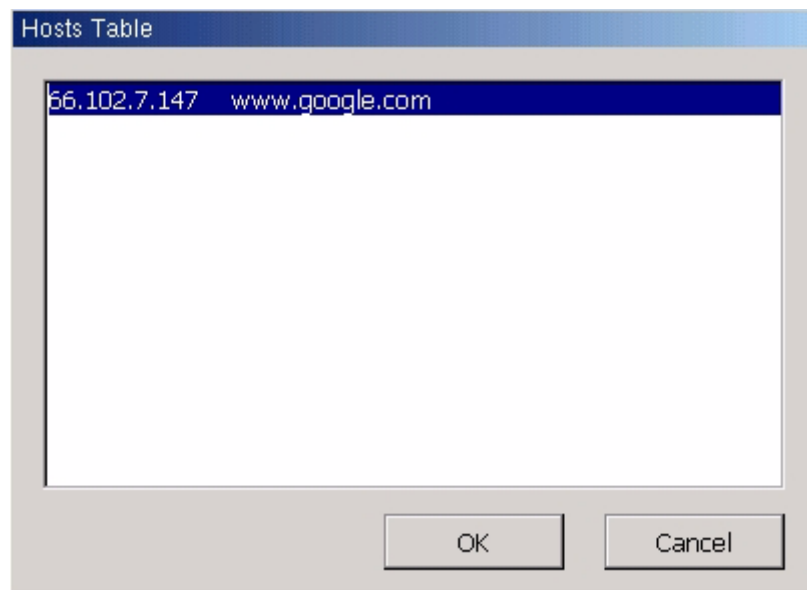
Hosts Table... DHCP Log File... DHCP Leases...

OK Cancel

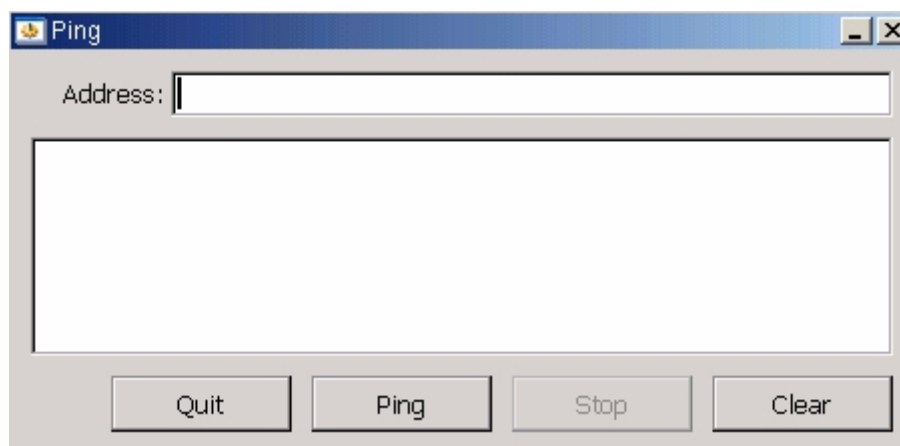
If Insert Static IP address is selected you will not see the DHCP Log File and DHCP Leases options.

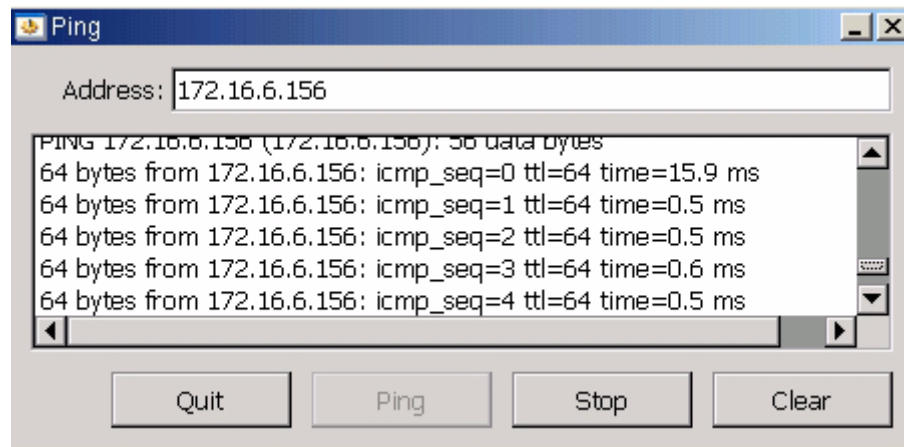
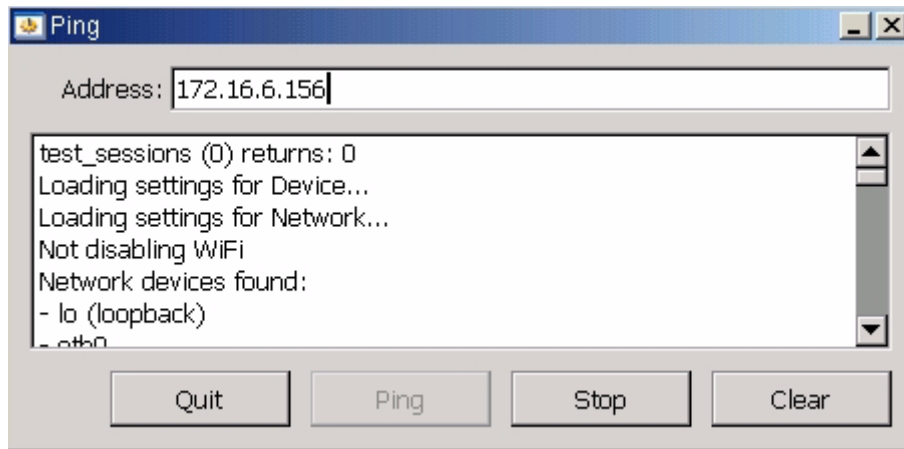
The Host Table may be used to set the host table; this table associates IP addresses with logical names.

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



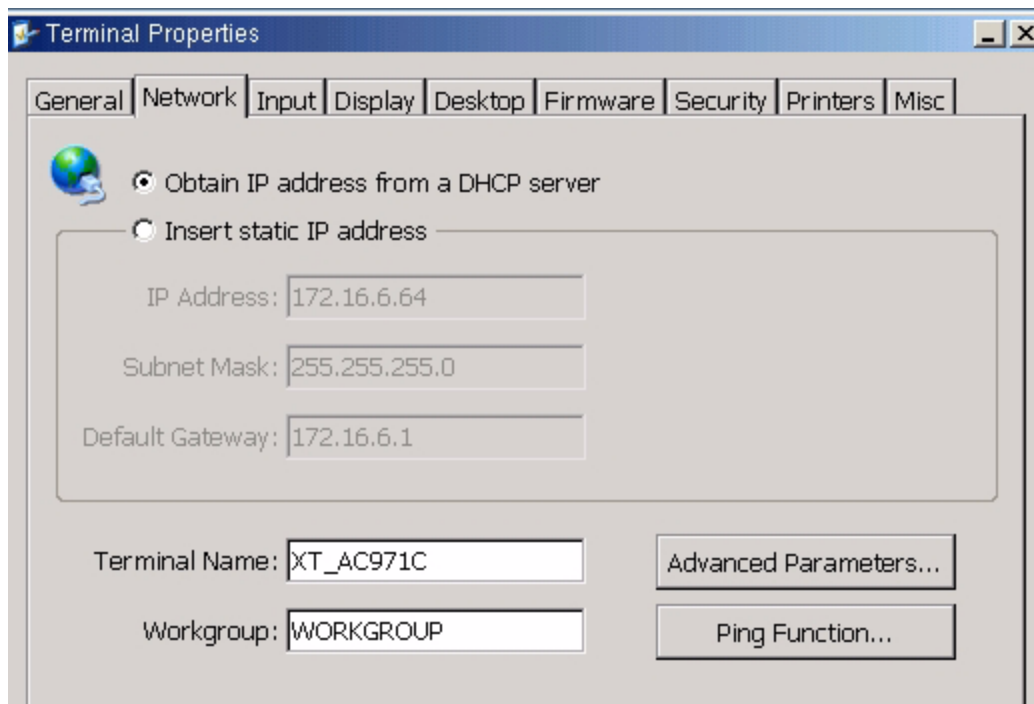
The Ping Function may be used to ping other terminals or servers on the network to verify the network connection.





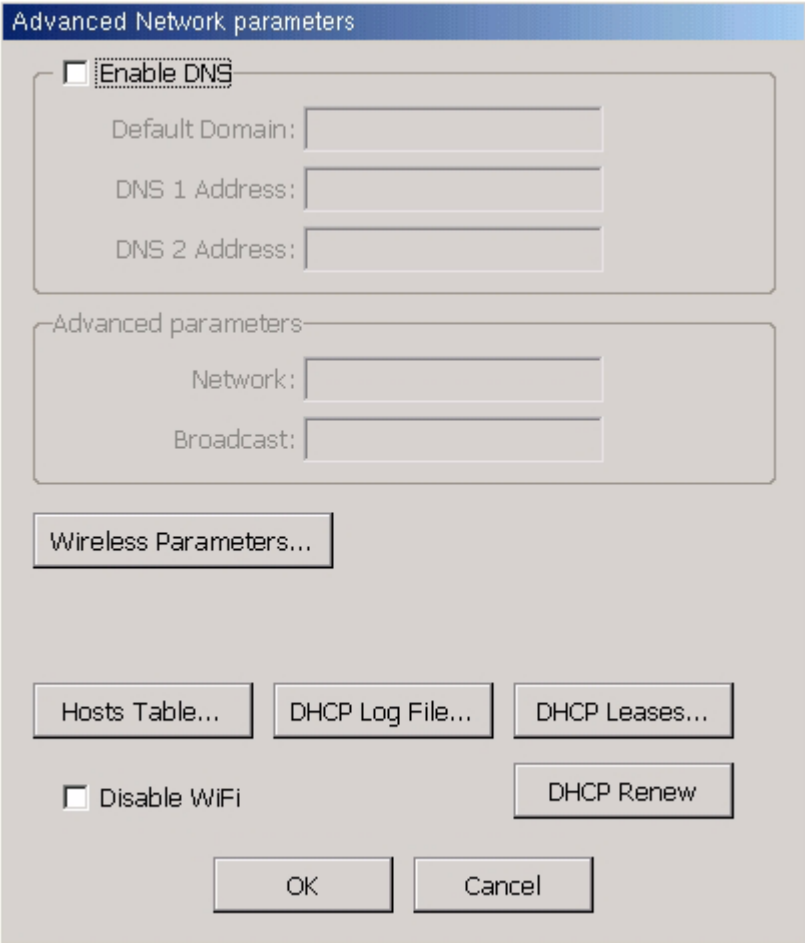
## Configure Wireless NIC

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



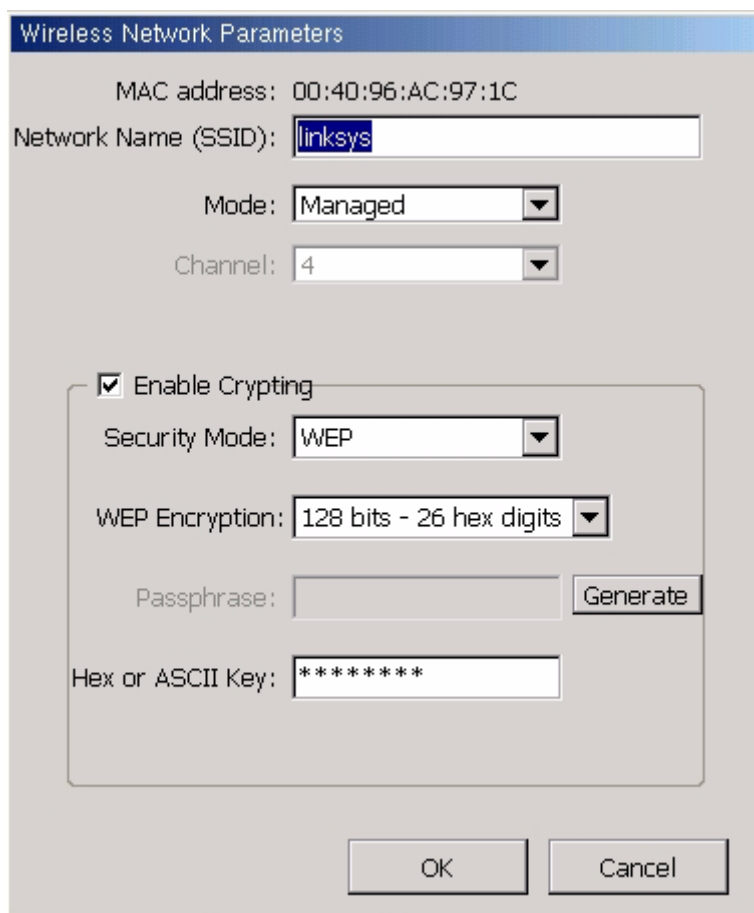
The image shows a dialog box titled "Advanced Network parameters". It contains several sections and controls:

- Enable DNS:** A checkbox that is currently unchecked. Below it are three text input fields labeled "Default Domain:", "DNS 1 Address:", and "DNS 2 Address:".
- Advanced parameters:** A section containing two text input fields labeled "Network:" and "Broadcast:".
- Wireless Parameters...:** A button located below the "Advanced parameters" section.
- Hosts Table...:** A button located in the bottom left area.
- DHCP Log File...:** A button located in the bottom center area.
- DHCP Leases...:** A button located in the bottom right area.
- Disable WiFi:** A checkbox that is currently unchecked, located below the "Hosts Table..." button.
- DHCP Renew:** A button located to the right of the "Disable WiFi" checkbox.
- OK:** A button located at the bottom center.
- Cancel:** A button located at the bottom right.

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.



The image shows a 'Wireless Network Parameters' dialog box. At the top, the MAC address is '00:40:96:AC:97:1C'. The Network Name (SSID) is 'linksys'. The Mode is 'Managed' and the Channel is '4'. A section titled 'Enable Crypting' is checked, containing a 'Security Mode' dropdown set to 'WEP', a 'WEP Encryption' dropdown set to '128 bits - 26 hex digits', a 'Passphrase' field with a 'Generate' button, and a 'Hex or ASCII Key' field containing '\*\*\*\*\*'. 'OK' and 'Cancel' buttons are at the bottom.

Wireless Network Parameters

MAC address: 00:40:96:AC:97:1C

Network Name (SSID):

Mode:

Channel:

☒ Enable Crypting

Security Mode:

WEP Encryption:

Passphrase:

Hex or ASCII Key:

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

The screenshot shows the 'Terminal Properties' dialog box with the 'Network' tab selected. The 'General' tab is also visible. The 'Network' tab contains a globe icon and two radio buttons: 'Obtain IP address from a DHCP server' (selected) and 'Insert static IP address'. Below the radio buttons are three text input fields: 'IP Address' (172.16.6.64), 'Subnet Mask' (255.255.255.0), and 'Default Gateway' (172.16.6.1). Below these fields are two more text input fields: 'Terminal Name' (XT\_AC971C) and 'Workgroup' (WORKGROUP). To the right of these fields are two buttons: 'Advanced Parameters...' and 'Ping Function...'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'. There are also two status bars at the bottom of the dialog: 'Signal = 64/64' and 'Noise = 256/256'.

Terminal Properties

General Network Input Display Desktop Firmware Security Printers Misc

☒ Obtain IP address from a DHCP server  
☐ Insert static IP address

IP Address: 172.16.6.64  
Subnet Mask: 255.255.255.0  
Default Gateway: 172.16.6.1

Terminal Name: XT\_AC971C  
Workgroup: WORKGROUP

Advanced Parameters...  
Ping Function...

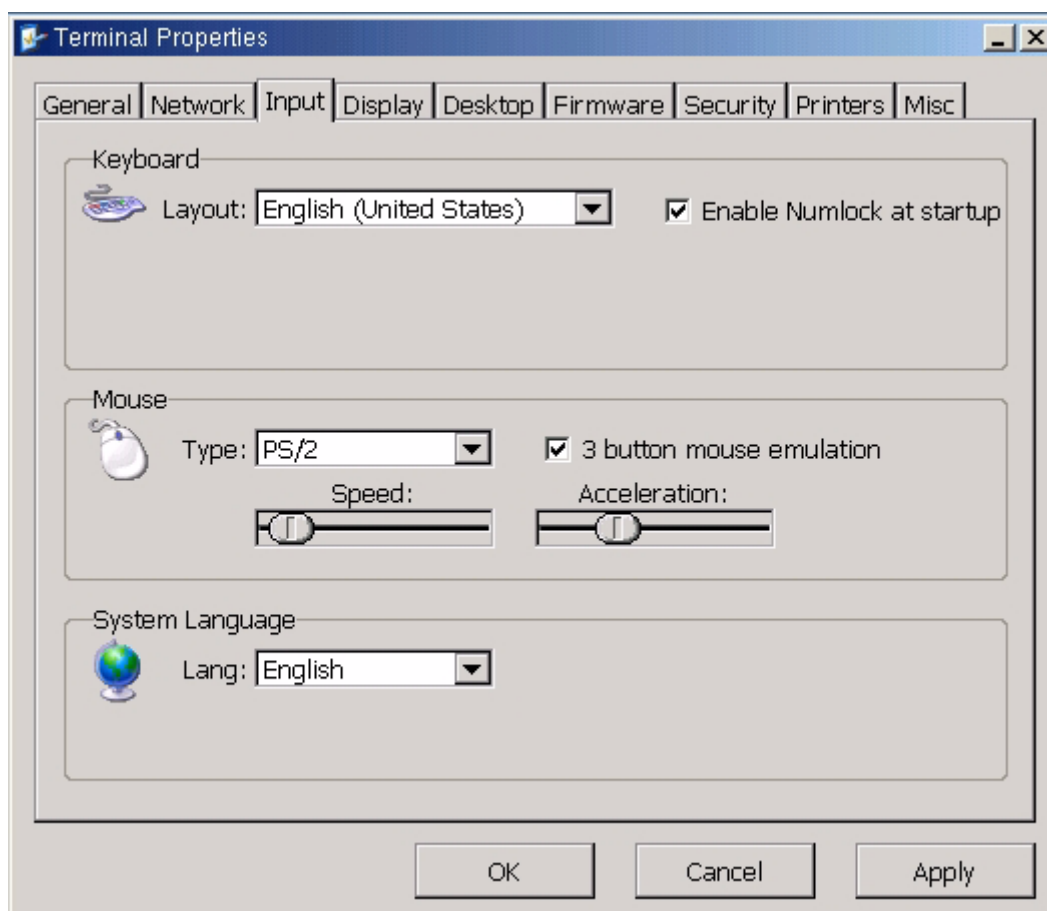
Signal = 64/64  
Noise = 256/256

OK Cancel Apply

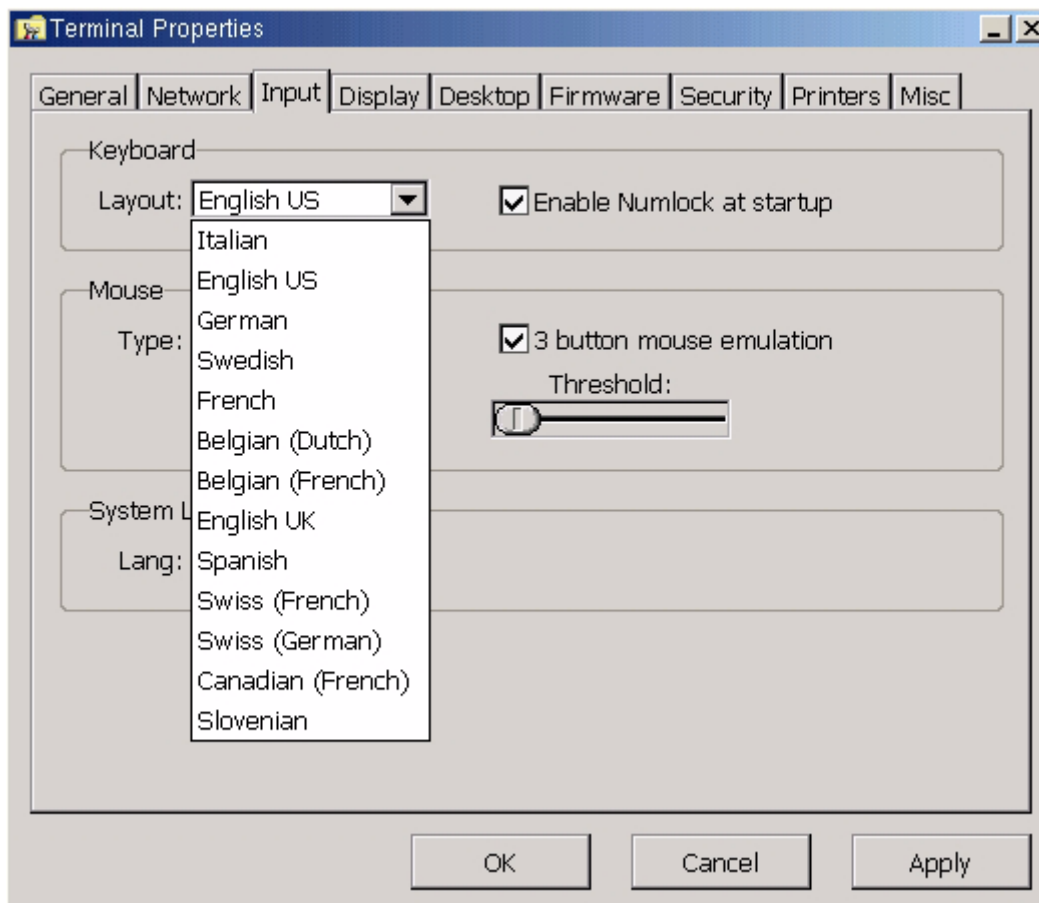


## Terminal Properties – Input Tab

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.

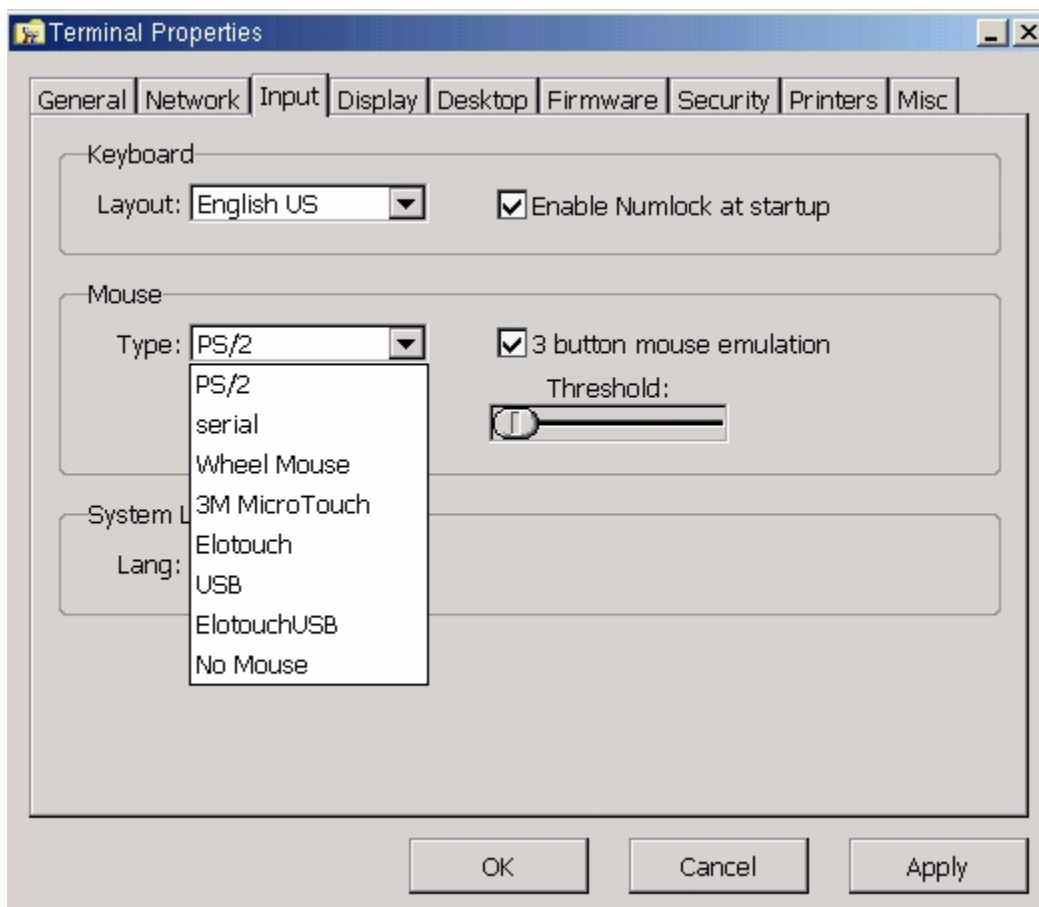


Options for Keyboard Layout:



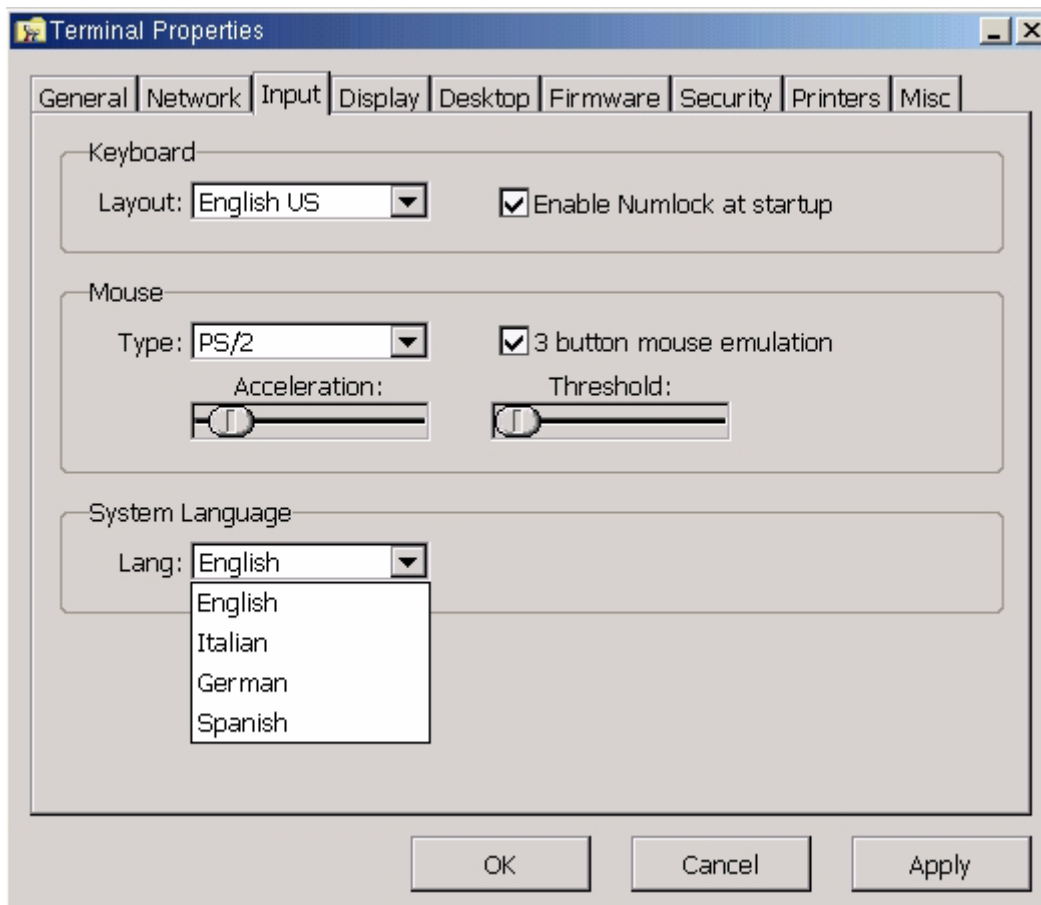
**Enable numlock at startup** is checked by default, to disable, uncheck.

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 BOSmanager to configure or by using a mouse, applying the change and then removing the mouse.

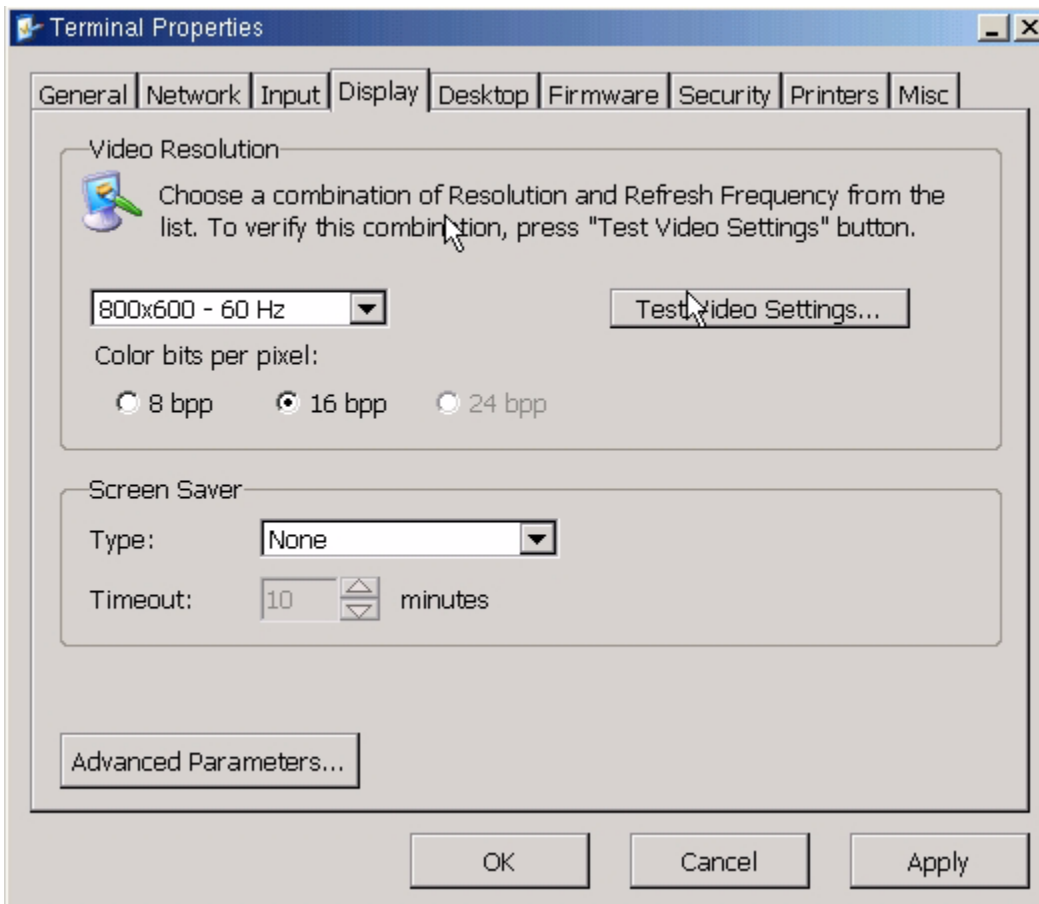
System Language options below:



# 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.

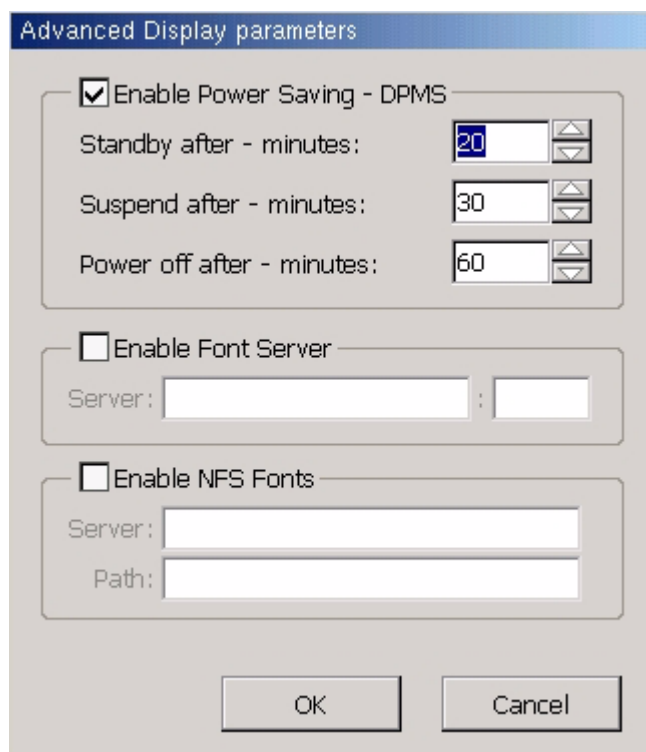


## NOTE:

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 BOSmanager. To resolve this issue, reset the factory defaults and set the resolution to a frequency the monitor can support. (see page 7)

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

Advanced Display Parameters allow for the settings of various power saving modes.



The image shows a dialog box titled "Advanced Display parameters". It contains three main sections. The first section, "Enable Power Saving - DPMS", is checked and includes three spinners: "Standby after - minutes:" set to 20, "Suspend after - minutes:" set to 30, and "Power off after - minutes:" set to 60. The second section, "Enable Font Server", is unchecked and includes a "Server:" label followed by two empty text input fields separated by a colon. The third section, "Enable NFS Fonts", is also unchecked and includes a "Server:" label followed by an empty text input field, and a "Path:" label followed by another empty text input field. At the bottom of the dialog 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 user's desktop. There are four modes for the Window Manager, the TBT mode, WBT mode, KIOSK mode and the Desktop mode. The TBT or Text Based Terminal Mode allows for a terminal green screen session that can be set to auto-start and auto-reconnect. The WBT, or Windows Based Terminal mode, only allows the user to launch predefined applications; these applications may include RDP, browser, 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. All available programs loaded on the terminal are present on the start menu in this mode. Once the configuration is complete, unused programs can be hidden using the Security Tab. The KIOSK mode is a user restricted mode.

The TBT mode is a text based setup (no mouse required) with terminal green screen.

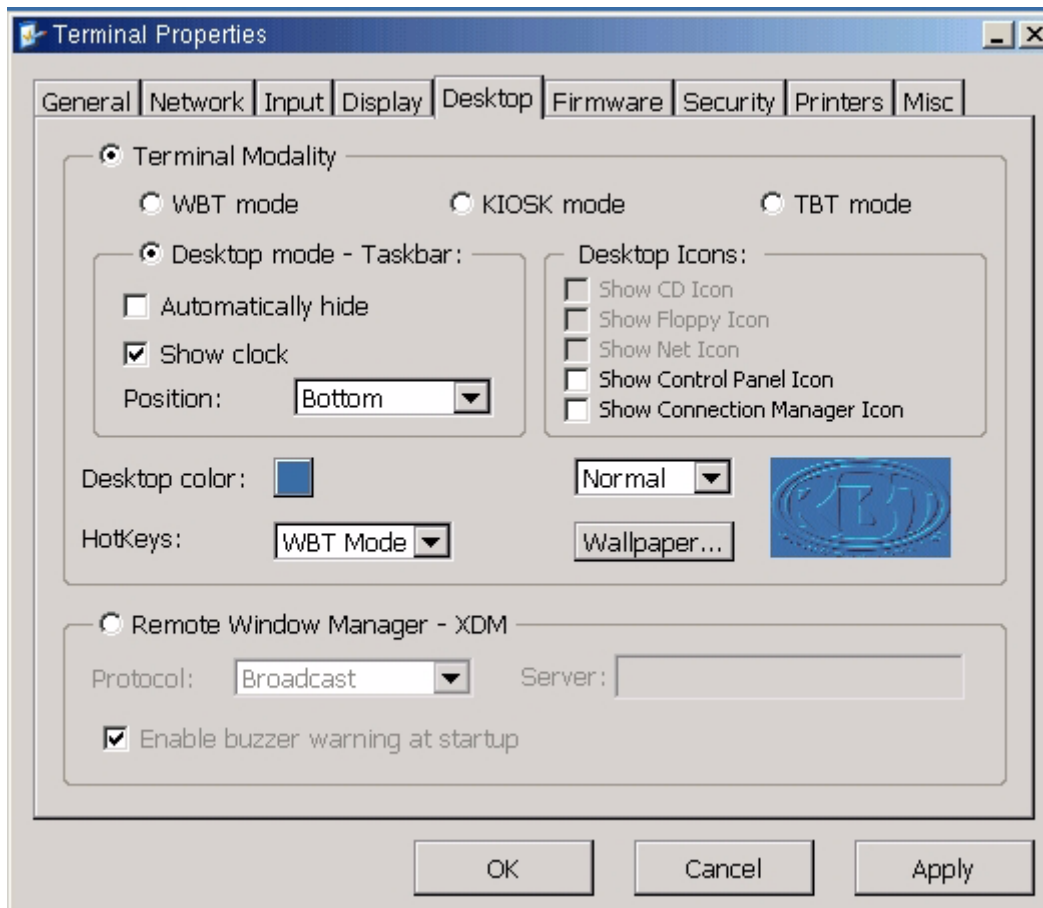
The WBT mode is suited for environments where administrators need to limit the flexibility of the user interface.

KIOSK mode is a user restricted mode.

In the 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.

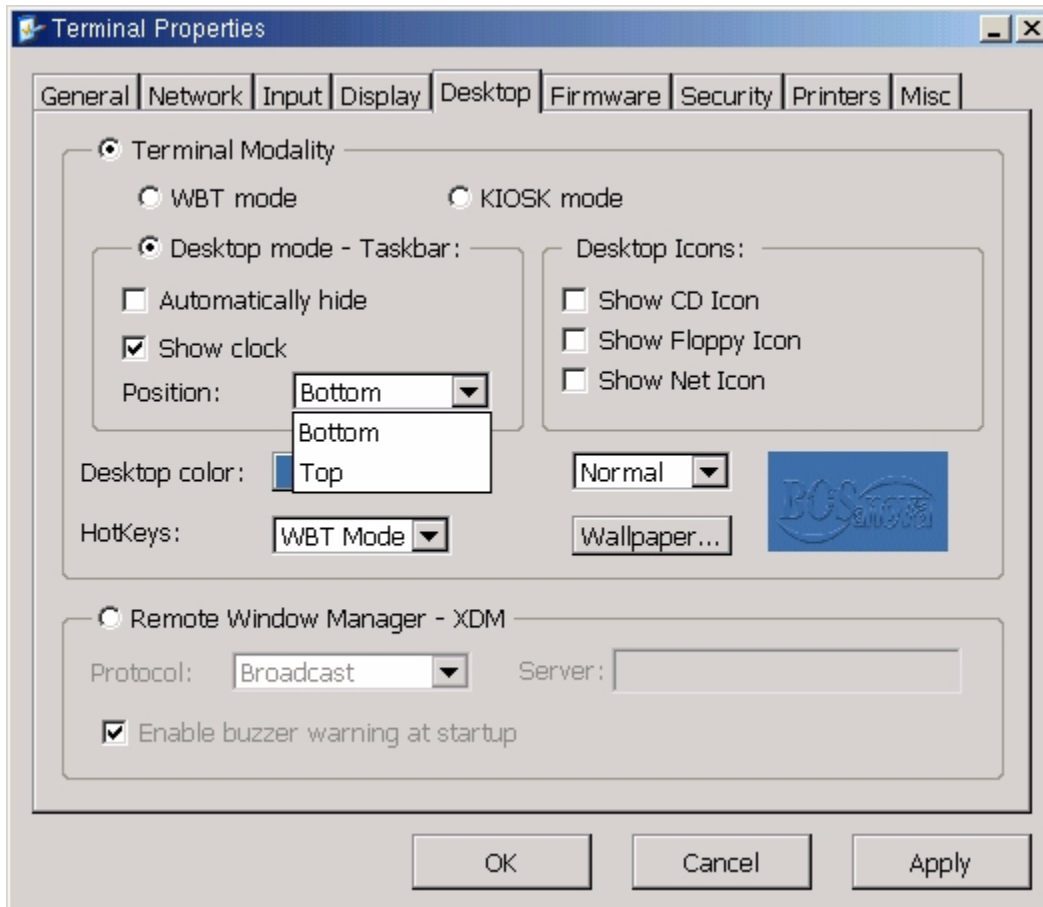
The Desktop color option controls the color of the desktop background.

If a share has been defined in the Misc tab, check the Show Net ICON for the share ICON to appear on the desktop.



Desktop mode will give the most control in the look and feel of your desktop. To automatically hide the taskbar, check to Automatically 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 the ICON on the desktop for the corresponding peripheral device.





For a custom wallpaper:

Map to a drive which contains the jpeg image to be used.

Open the browser and browse the share then select the image.

Open the image, right click and Save Image As to /tmp/config/files.

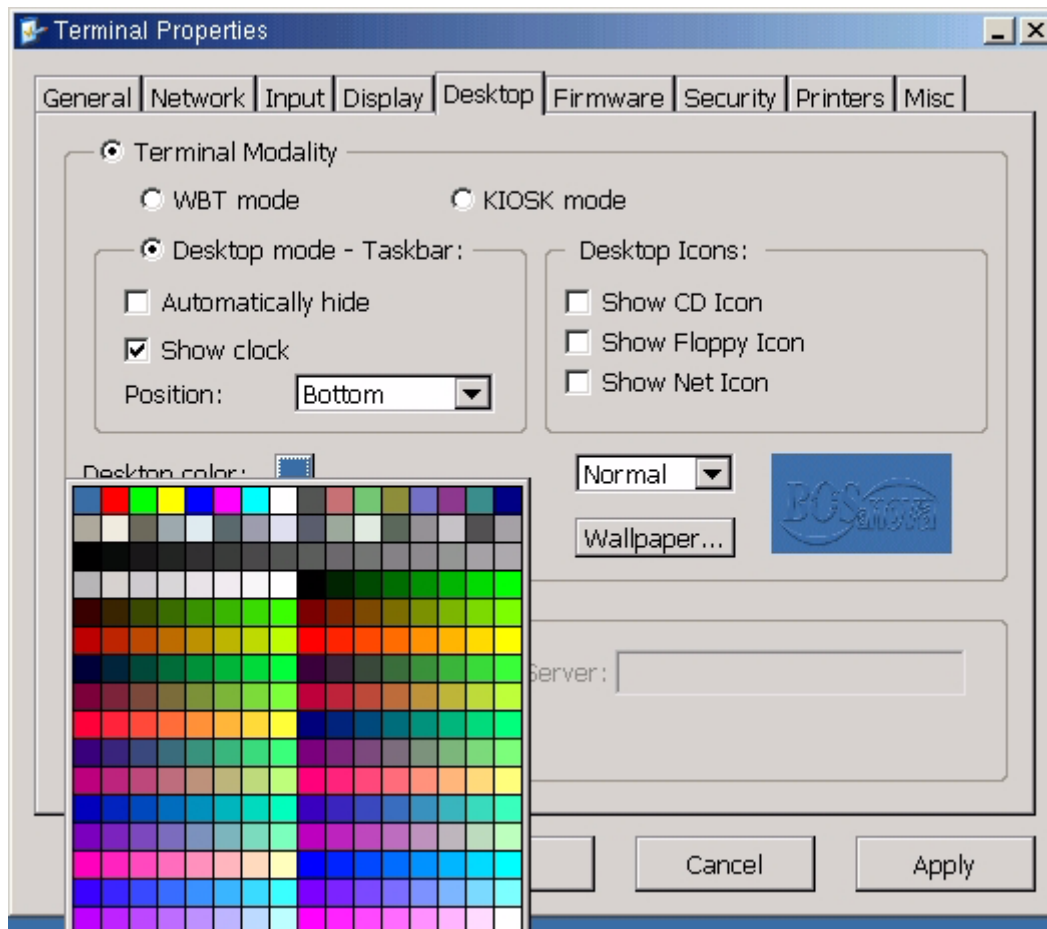
Exit the browser.

Reboot and background will be the selected image. Only JPEG format is supported and file size should be < 100K.

Once you set the background on one terminal, you can "clone" it using the BOSmanager.

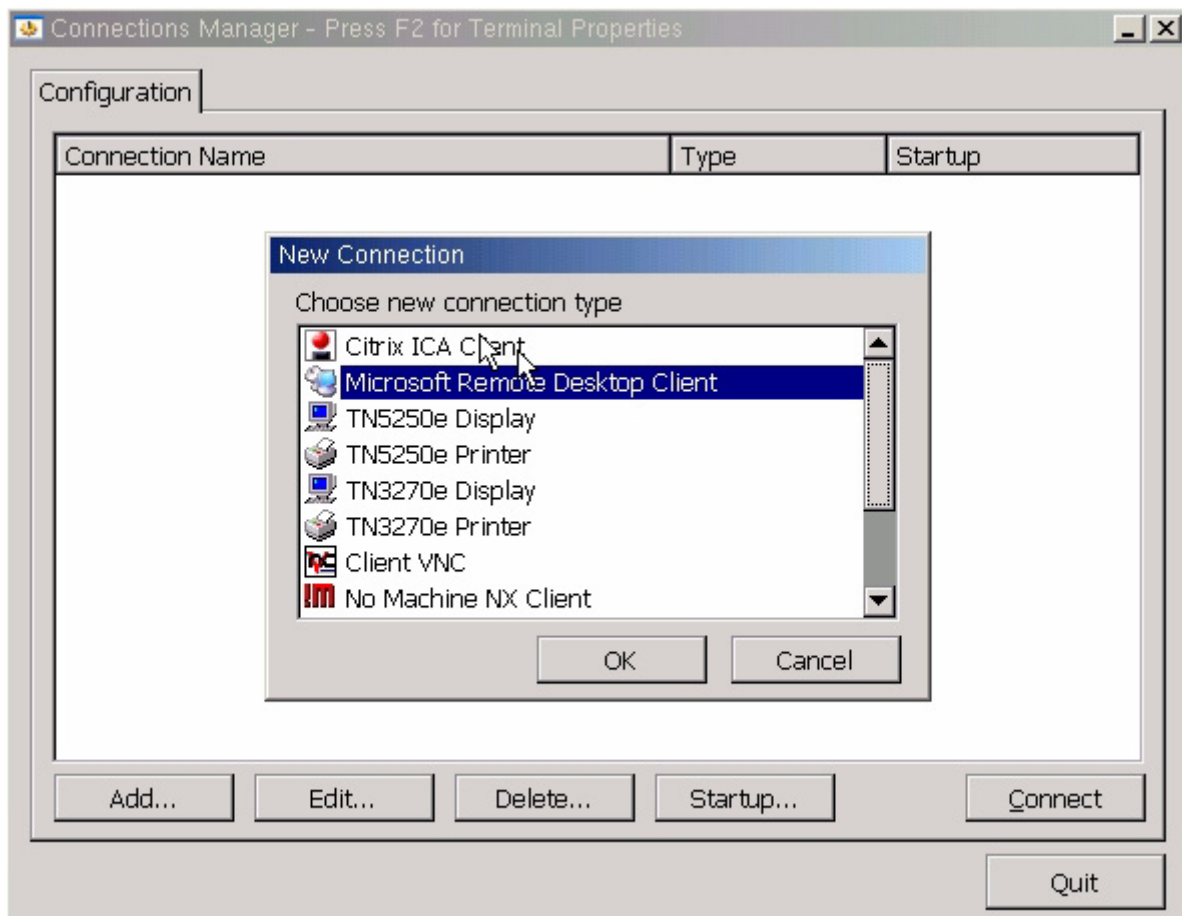
To delete background image, open a shell and run command **rm /tmp/config/files/\*.jpg freeze**

To change the desktop color, click on the color box and a grid of colors is presented. Click on the desired color change.



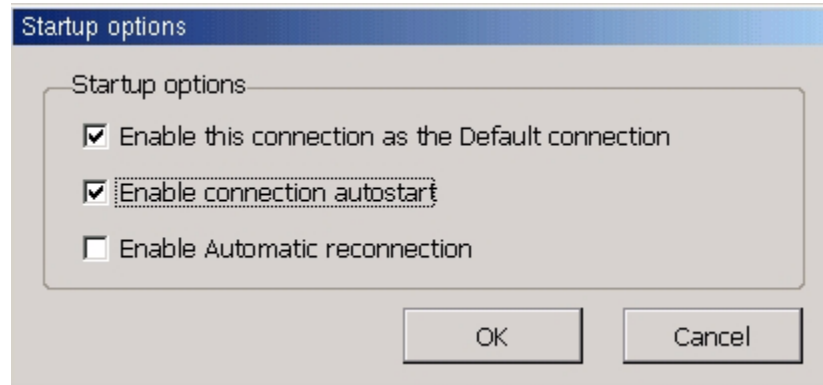
KIOSK Mode will limit the user's access to a specific program. Example of kiosk mode using an RDP session below:

Add a new Microsoft Remote Desktop Client

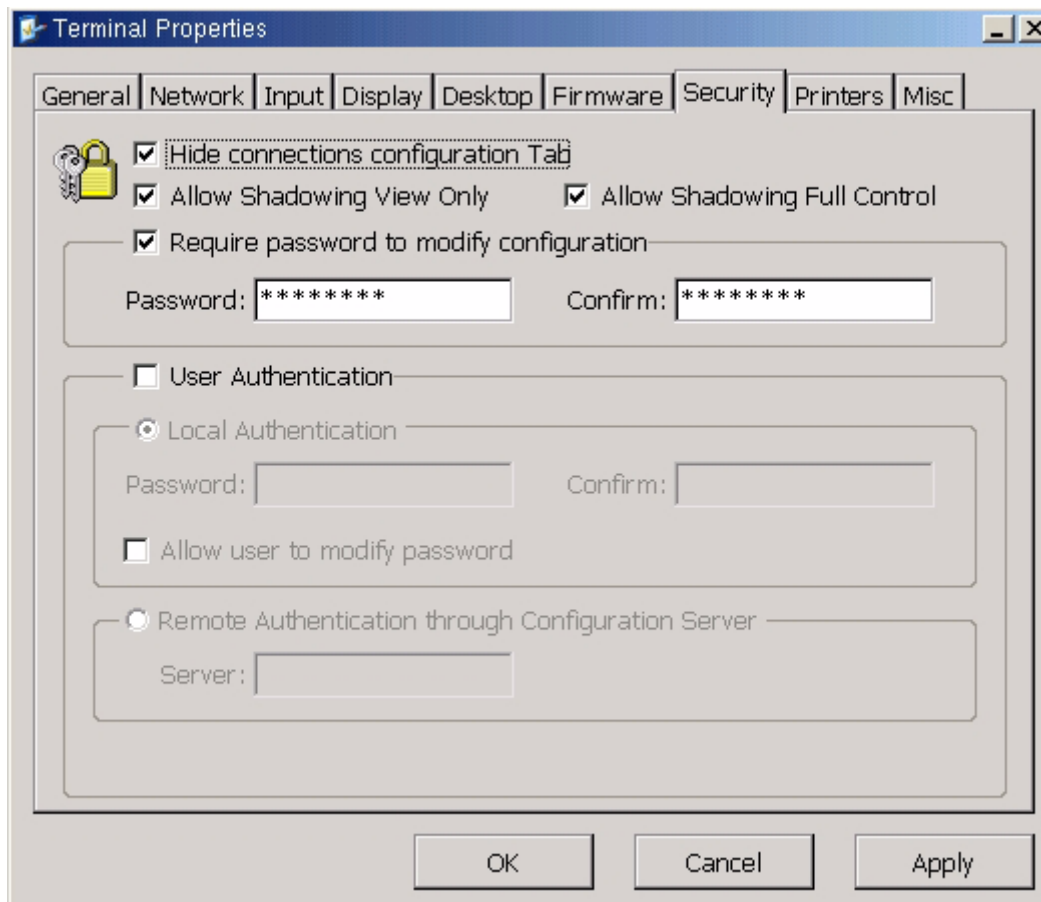


From the connections manager highlight the RDP session and select startup.

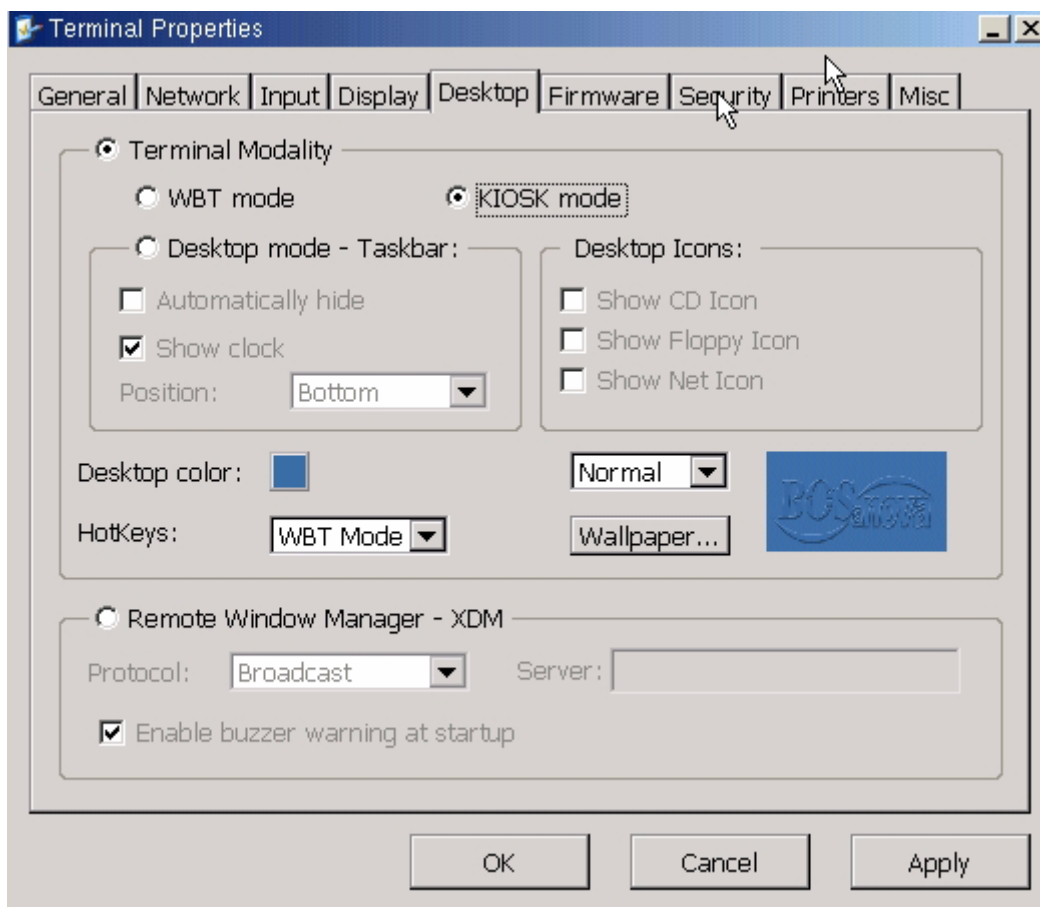
Check **Enable this connection as the Default connection** and check **Enable connection autostart**. You can also check **Enable Automatic Reconnection** which will automatically reconnect the browser session if for any reason it should disconnect.



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

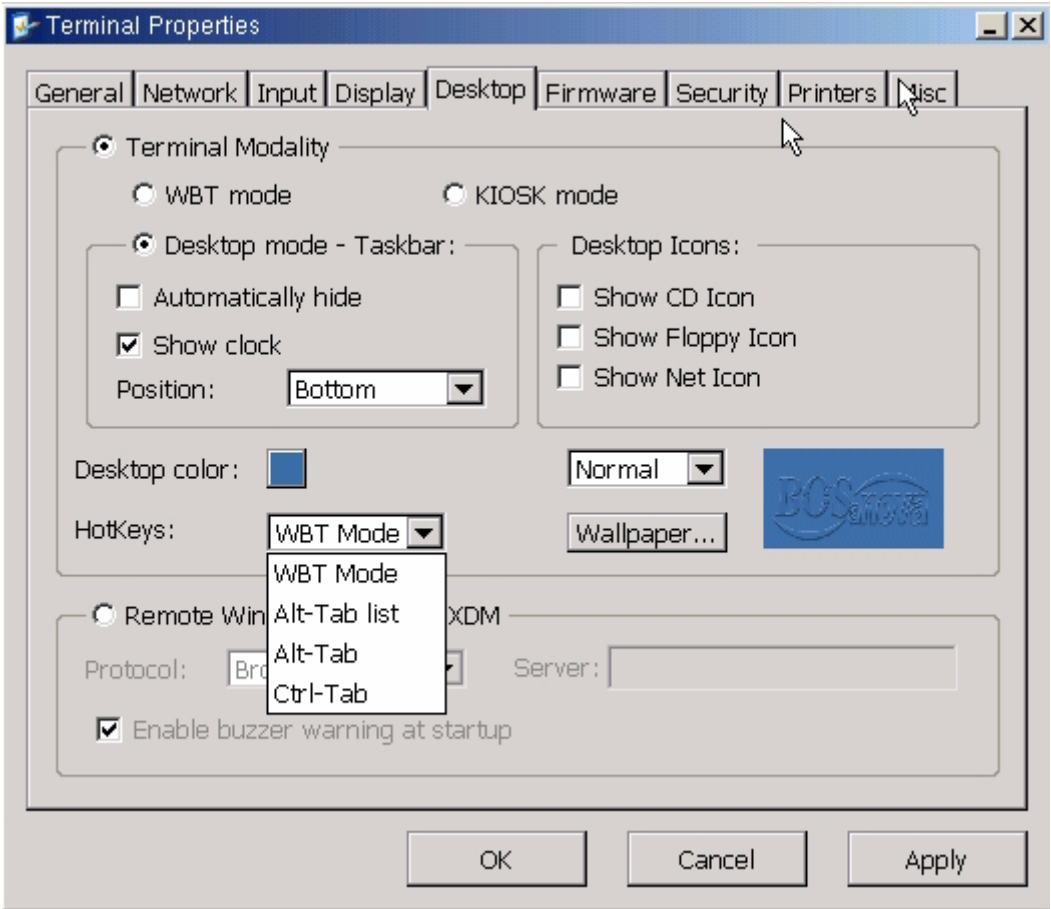


From the Terminal Properties Desktop Tab, check KIOSK mode.



Terminal will reboot and immediate execute the RDP session.

Hotkeys filter through opened sessions.



For example with the HotKeys set to Alt-Tab list and running a 5250 display session, a 5250 printer session and a Firefox session - pressing Alt-Tab would present the following:

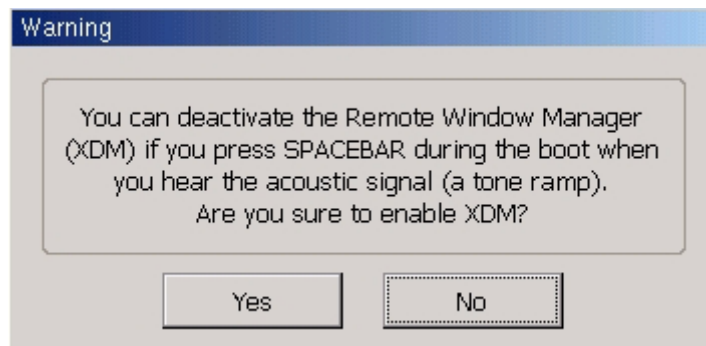


The **Remote Window Manager-XDM** allows the terminal to obtain the desktop remotely from another Unix or Linux system. This mode is essentially the Unix equivalent of RDP or ICA. The IP address of the remote Unix system must be entered.

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

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



## 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 remote administrator, BOSmanager. The IP address field should contain the IP address of the Windows machine on the LAN running BOSmanager. The Port number should be 9999. To list the available firmware packages for upgrade, click the Get List button. If the terminal can contact the Windows machine running the BOSmanager, 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 with the value '172.16.6.94' and a 'Port' field with the value '9999'. Below this is a table with five columns: 'Package', 'Installed', 'Dim inst', 'Available', and 'Dim upgr'. The table is currently empty. At the bottom of the dialog, there are three buttons: 'Get list...', 'Upgrade...', and 'Delete...'. To the right of these buttons, the 'Used space' is '87233536' and the 'Free space' is '23500800'. At the very bottom are 'OK', 'Cancel', and 'Apply' buttons.

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

Get list... Upgrade... Delete... Used space: 87233536 Free space: 23500800

OK Cancel Apply



**Terminal Properties**

General | Network | Input | Display | Desktop | **Firmware** | Security | Printers | Misc

Upgrade Server

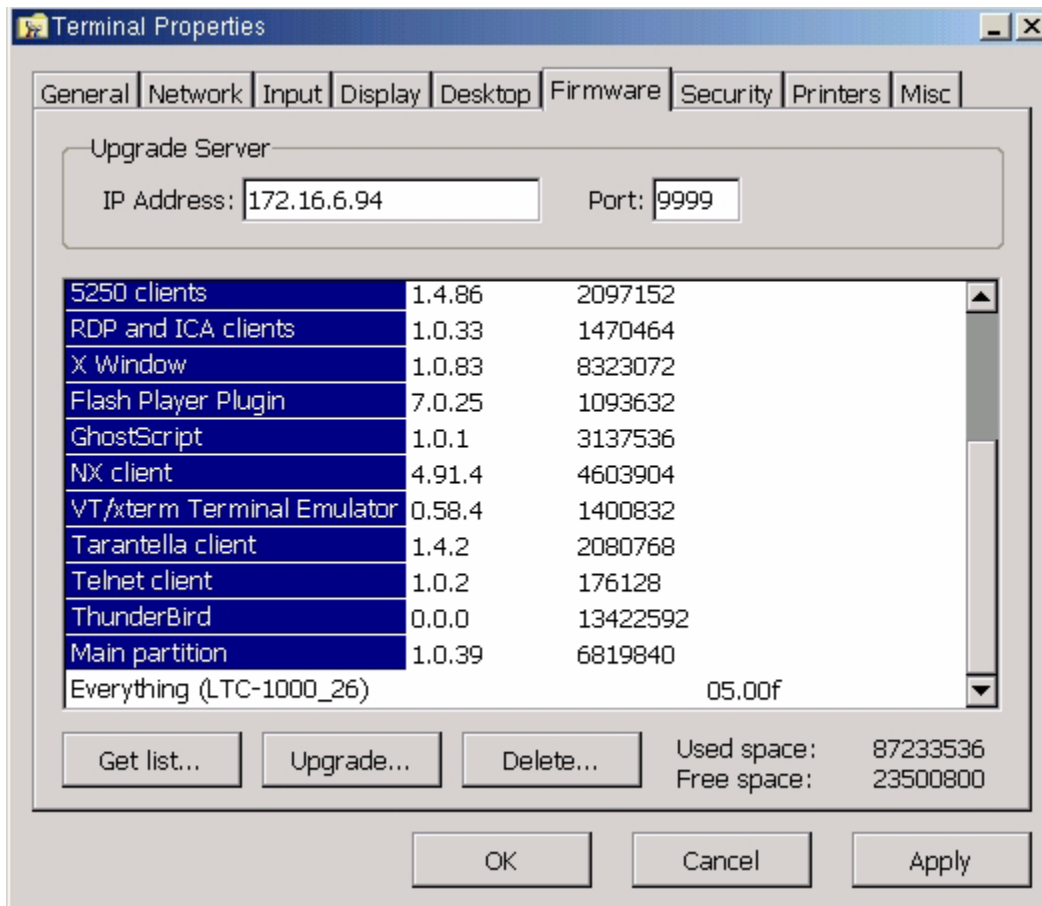
IP Address:  Port:

Package	Installed	Dim inst	Available	Dim upg
XT-6 Kernel and RootFS (DoM)	0.0.0	---		
Java Virtual Machine (Sun)	1.42.1	19259392		
usr.X11R6.TTF	0.0.0	548864		
Acrobat Reader	1.0.1	8937472		
FireFox 0.9.1	0.0.0	13488128		
5250 clients	1.4.86	2097152		
RDP and ICA clients	1.0.33	1470464		
X Window	1.0.83	8323072		
Flash Player Plugin	7.0.25	1093632		
GhostScript	1.0.1	3137536		
NX client	4.91.4	4603904		

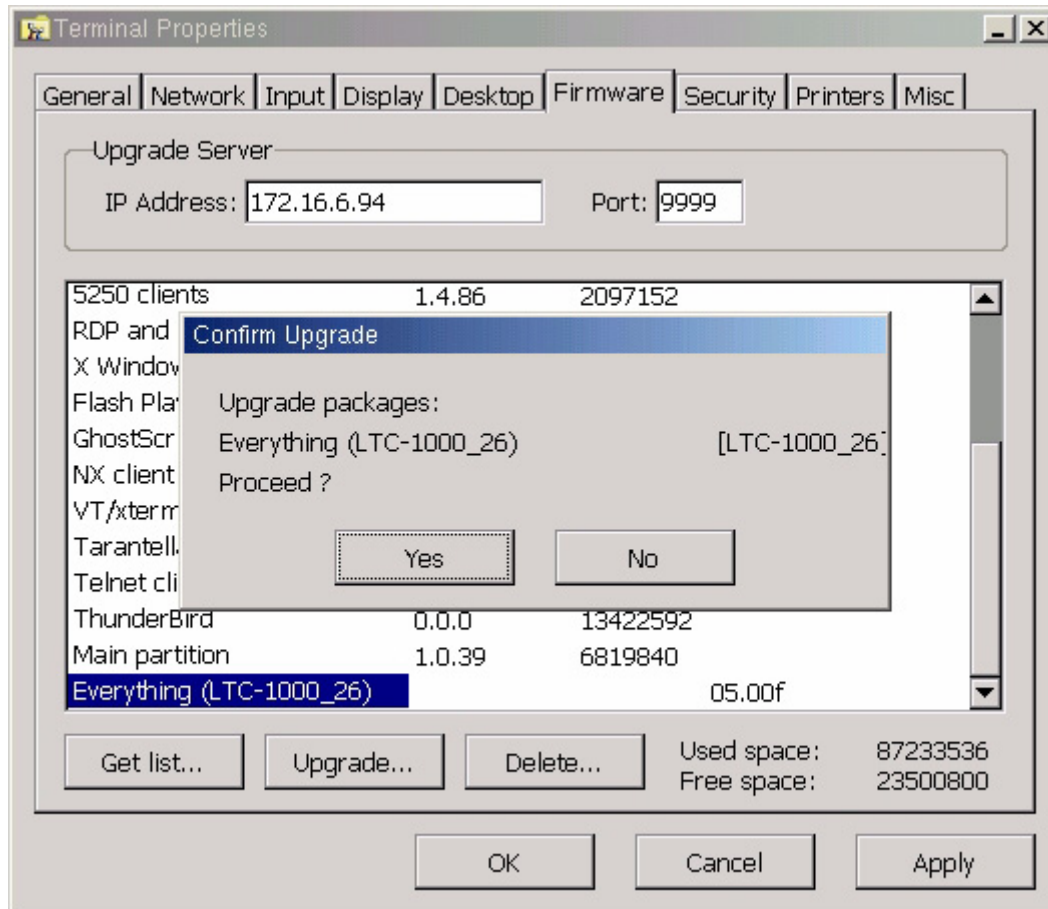
Get list... Upgrade... Delete...

Used space: 87233536  
Free space: 23500800

OK Cancel Apply



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



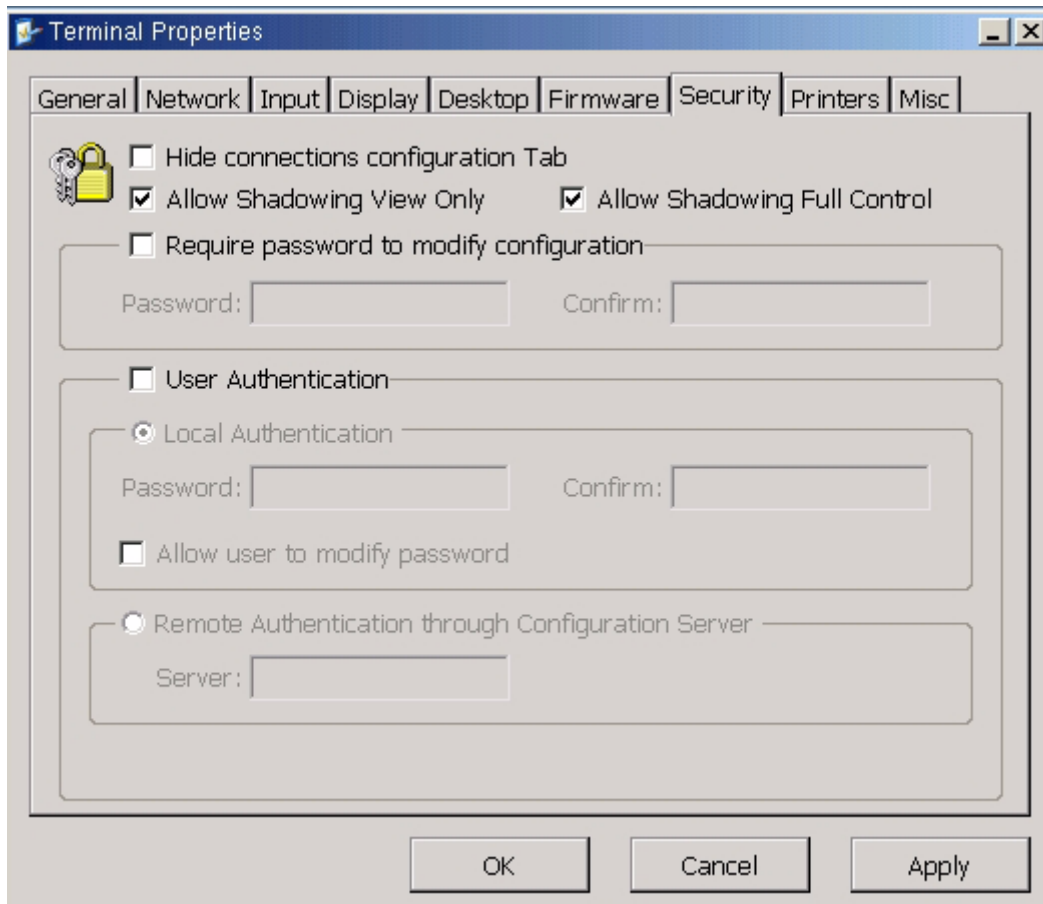
## Terminal Properties - Security Tab

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 administrator – BOSmanager - running on another Windows machine on the LAN. Shadowing uses VNC client from the BOSmanager 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

The Printer configuration allows you to configure the printing functions of the Thin Client terminal.

The Enable LPD printing option enables Unix LPD printing for the terminal on the specified device. This allows the terminal to function as a print server. LPD/LPR is required for Linux/Unix to connect to the RBT's printer(s) and for the RBT to print to an attached printer. By selecting the **Share local attached printers using LPD/LPR** the RBT becomes a Linux/Unix printer server.

The Enable Raw Printing option enables raw printing on the specified ports.

The Enable Thin Print Client option enables the Thin Print Client printing on the specified device. Parallel Attached Printer:

## USB Printer

To configure a USB printer, check Share local attached printers using LPD/LPR and check the USB box and enter a queue name. Although the unit may have multiple USB ports, only one USB printer connection can be defined.

The screenshot shows the 'Terminal Properties' dialog box with the 'Printers' tab selected. The 'General' tab is also visible. The 'Printers' tab contains three main sections: 'Share local attached printers using LPD/LPR', 'Share local attached printers using RAW protocol', and 'Enable Thinprint Client'. In the 'LPD/LPR' section, the 'USB' checkbox is checked, and the 'Queue name' is set to 'usb'. The 'RAW protocol' section is currently disabled. The 'Thinprint Client' section is also disabled. At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

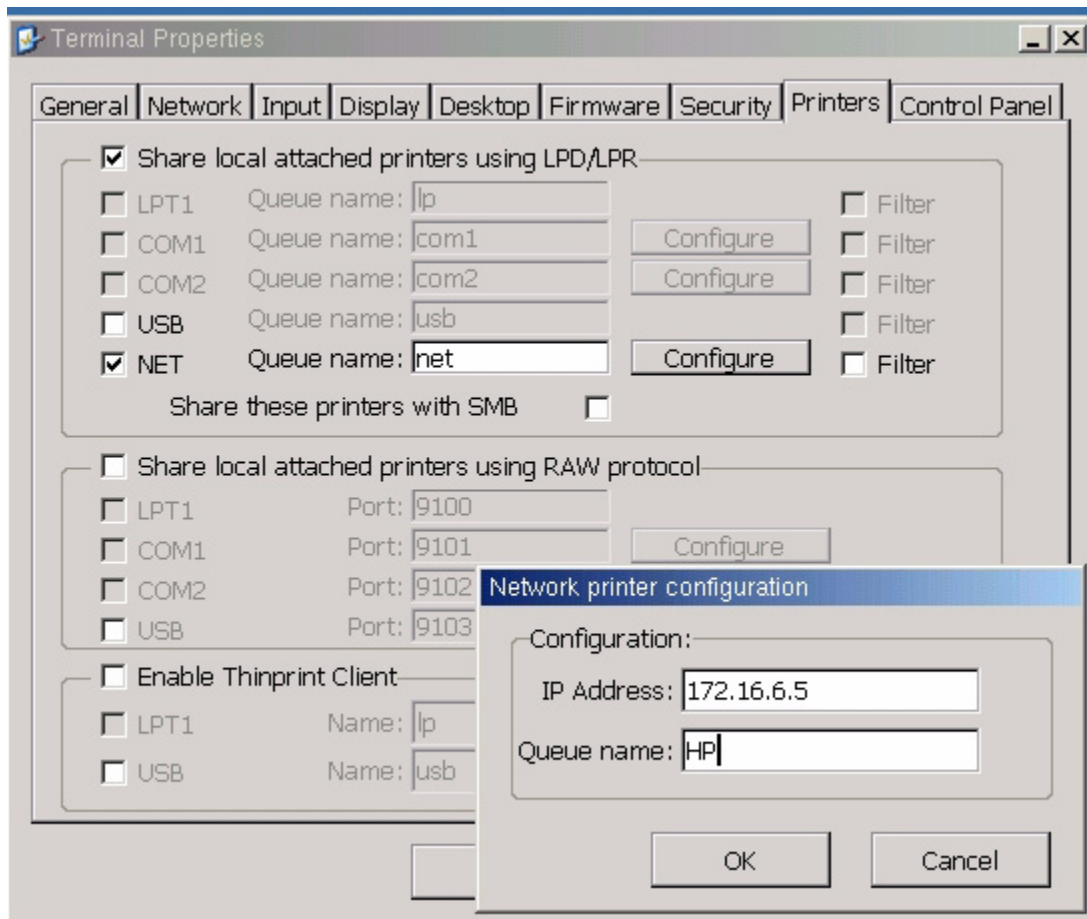
Section	Option	Value	Action
Share local attached printers using LPD/LPR	<input checked="" type="checkbox"/> Share local attached printers using LPD/LPR		
	<input type="checkbox"/> LPT1	Queue name: lp	<input type="button" value="Configure"/>
	<input type="checkbox"/> COM1	Queue name: com1	<input type="button" value="Configure"/>
	<input type="checkbox"/> COM2	Queue name: com2	<input type="button" value="Configure"/>
	<input checked="" type="checkbox"/> USB	Queue name: usb	<input type="button" value="Configure"/>
<input type="checkbox"/> NET	Queue name: net	<input type="button" value="Configure"/>	
Share these printers with SMB <input type="checkbox"/>			
Share local attached printers using RAW protocol	<input type="checkbox"/> LPT1	Port: 9100	<input type="button" value="Configure"/>
	<input type="checkbox"/> COM1	Port: 9101	<input type="button" value="Configure"/>
	<input type="checkbox"/> COM2	Port: 9102	<input type="button" value="Configure"/>
	<input type="checkbox"/> USB	Port: 9103	<input type="button" value="Configure"/>
	Enable Thinprint Client		
Enable Thinprint Client	<input type="checkbox"/> LPT1	Name: lp	<input type="button" value="Configure"/>
	<input type="checkbox"/> USB	Name: usb	<input type="button" value="Configure"/>

OK Cancel Apply

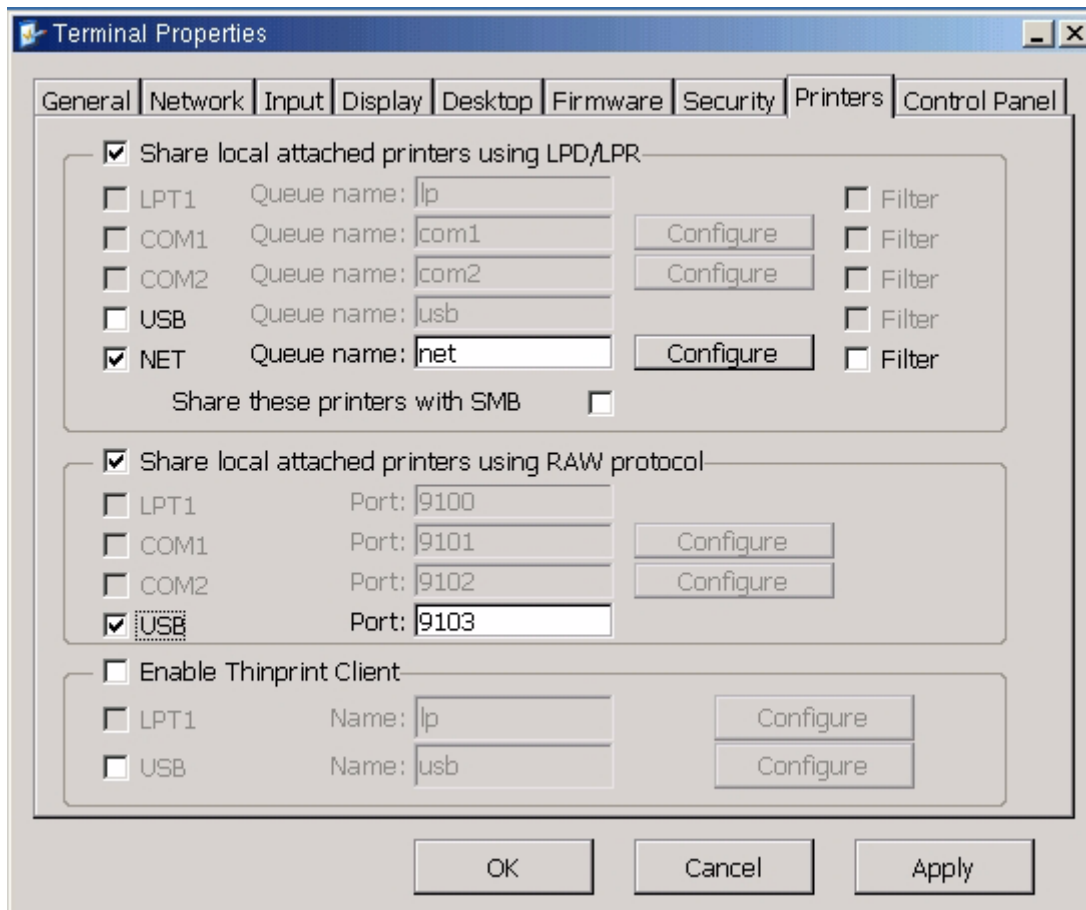
## Network Printer:

To configure a network printer uncheck USB and check the Net box and enter a queue name. Select configure and enter the IP address of the network printer and the queue name assigned to it.

Queue name must be the same on the Printers tab and in the Network printer configuration.



To share a local attached printer using RAW, check the share box and the associated connection type.

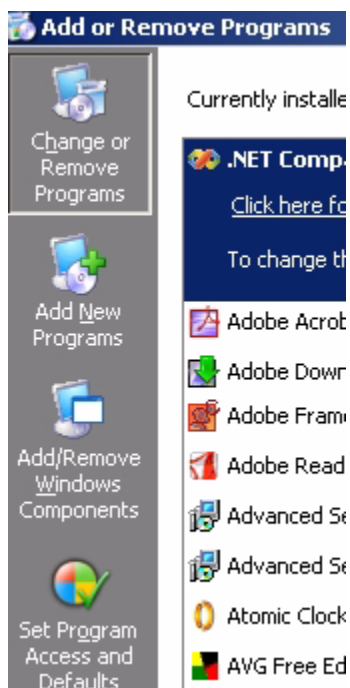


NOTE: 5250 and 3270 Printer sessions are configured totally separate from the printer configuration in Terminal Properties.

## NOTE:

To print from a Windows PC to a printer attached to a Linux Thin Client proper steps must be taken on the Windows PC to take advantage of printing through Linux. The steps below explain the process to install a Linux Printing Client on a Windows PC.

Select add/remove programs in the Windows control panel and then select Add/Remove Windows Components.

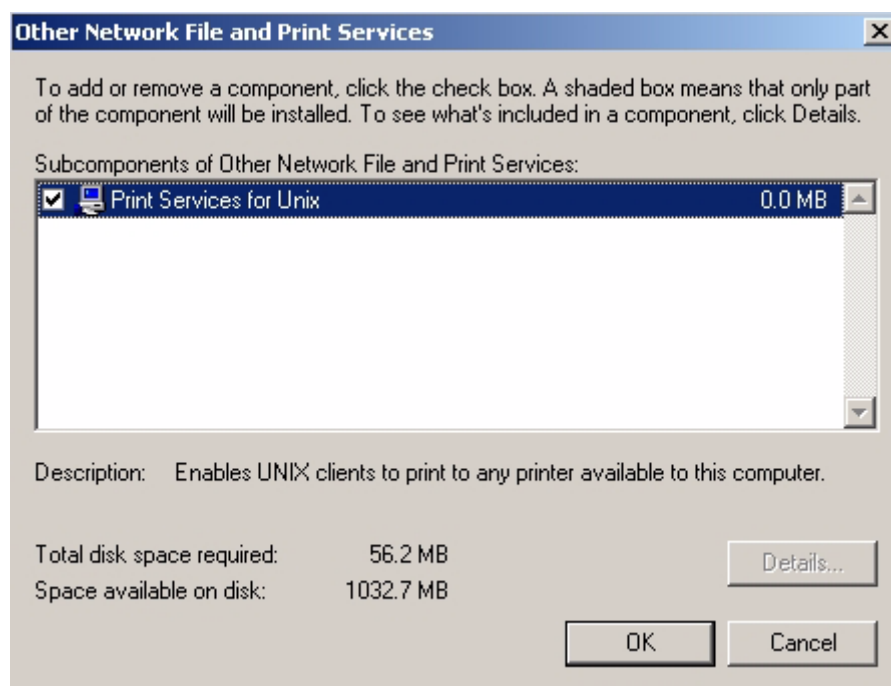




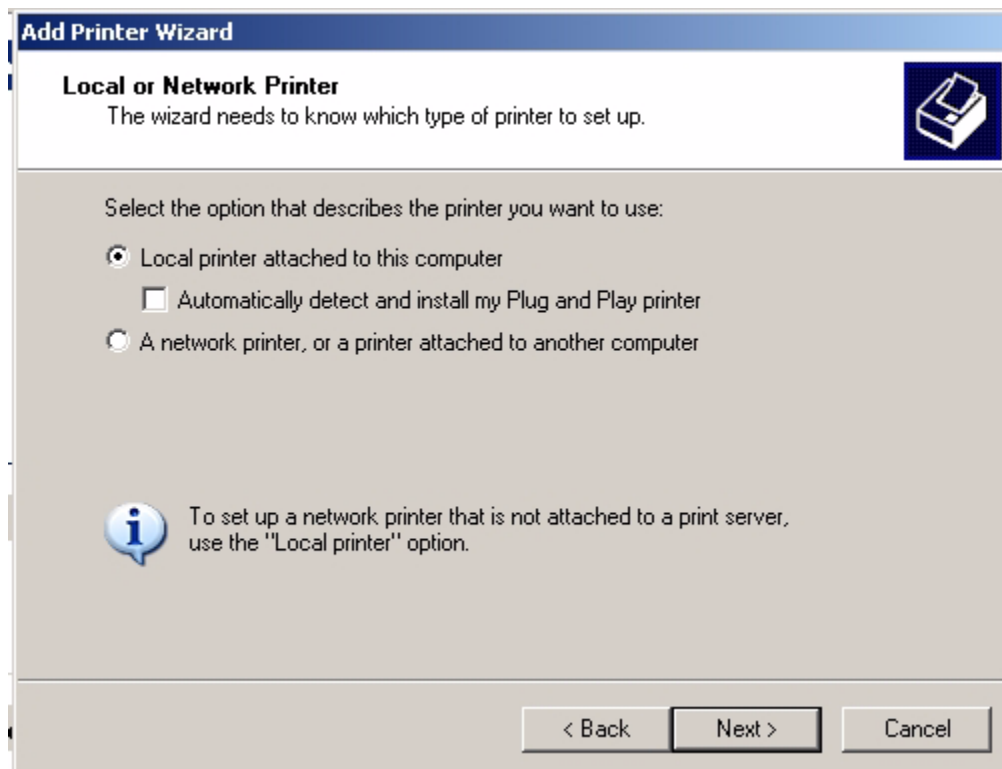
Highlight Other Network File and Print Services and select Details.



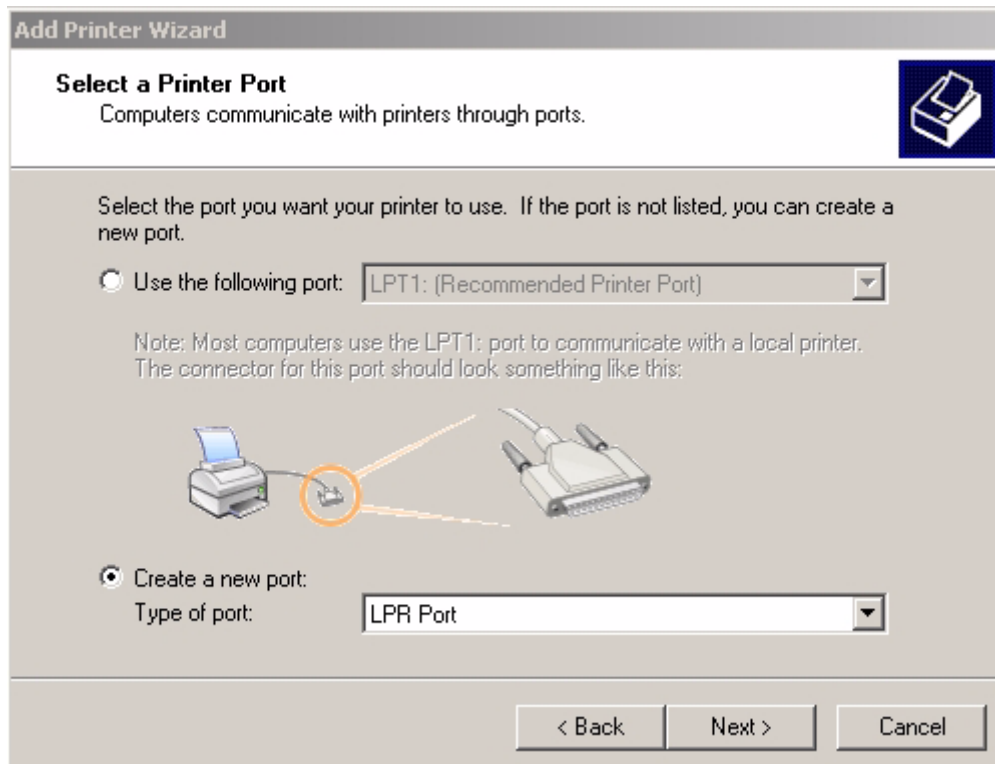
Check Print Services for Unix and select OK



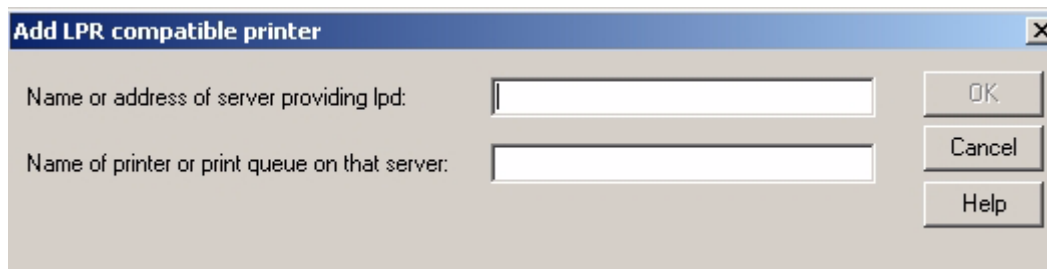
On the Windows PC add a Printer. Select Local printer attached to this computer.



Select Create a new Port with type of port LPR Port.



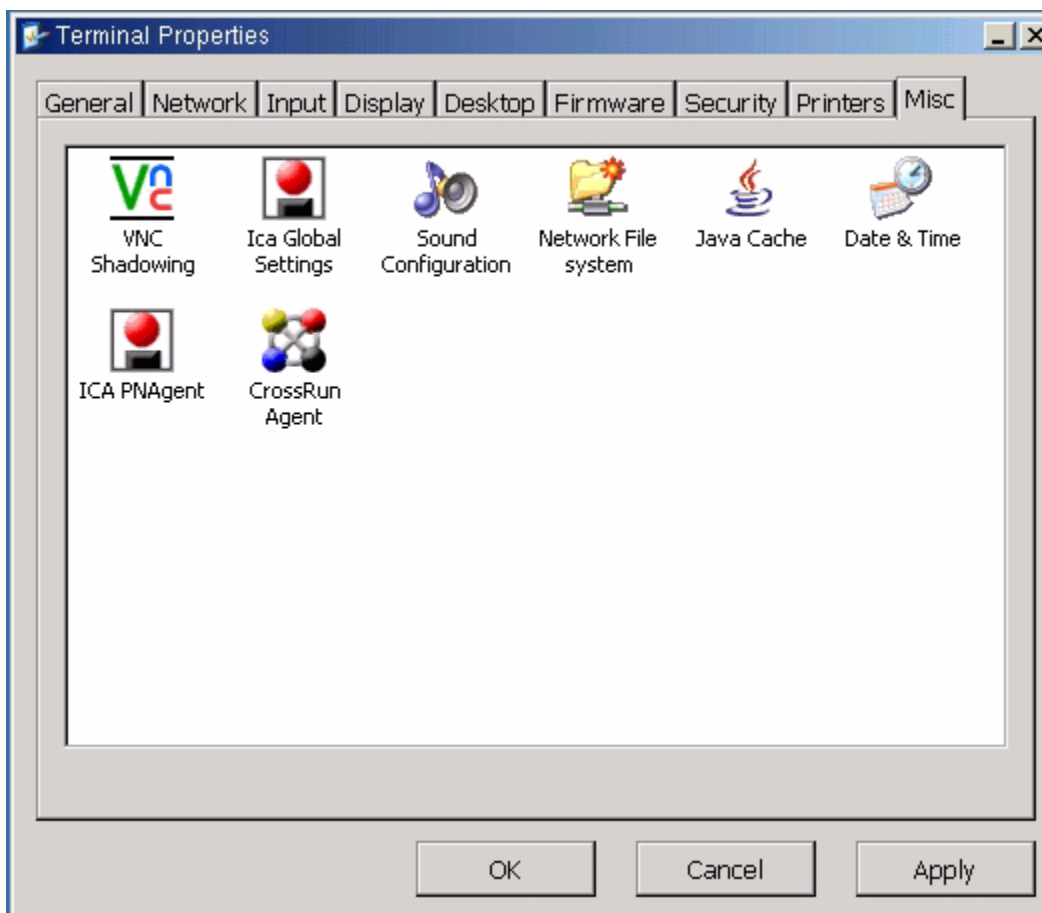
Enter the DNS name or IP of the Thin Client with the printer attached. Enter Queue name entered under the printer tab in terminal properties of the Thin Client.



Share local attached printers using LPD/LPR must be checked on the Thin client in terminal properties under the printer tab for the printer to be shared from the Thin Client.

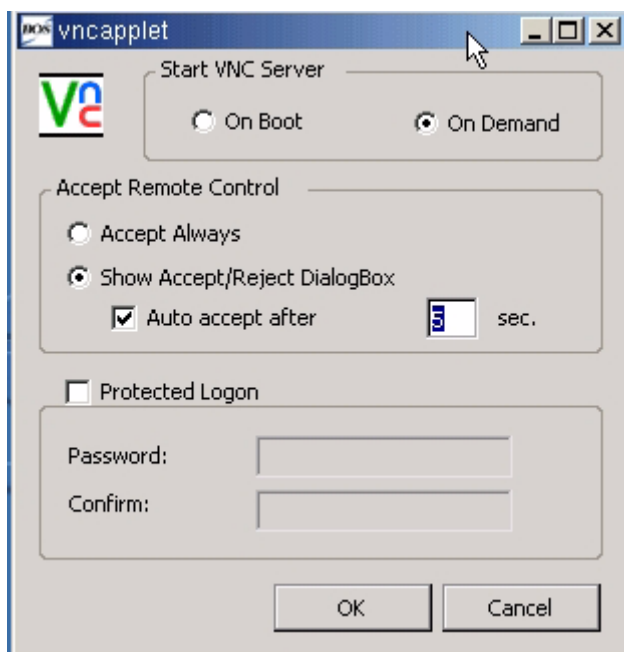
## Terminal Properties - Misc Tab

The Misc configuration page allows the configuration of VNC Shadowing, ICA Global Settings, Sound Configuration, Network File System, Java Cache, Date & Time, ICA PNAgent, and CrossRun Agent Configuration.

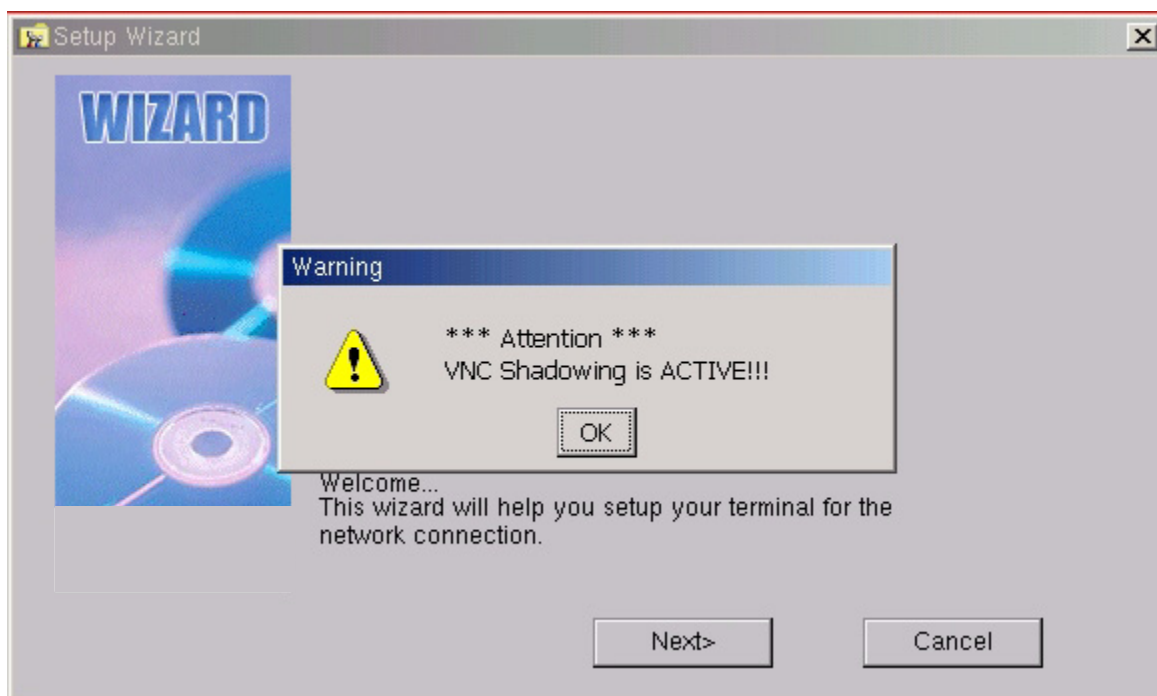


## VNC Shadowing Configuration:

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.



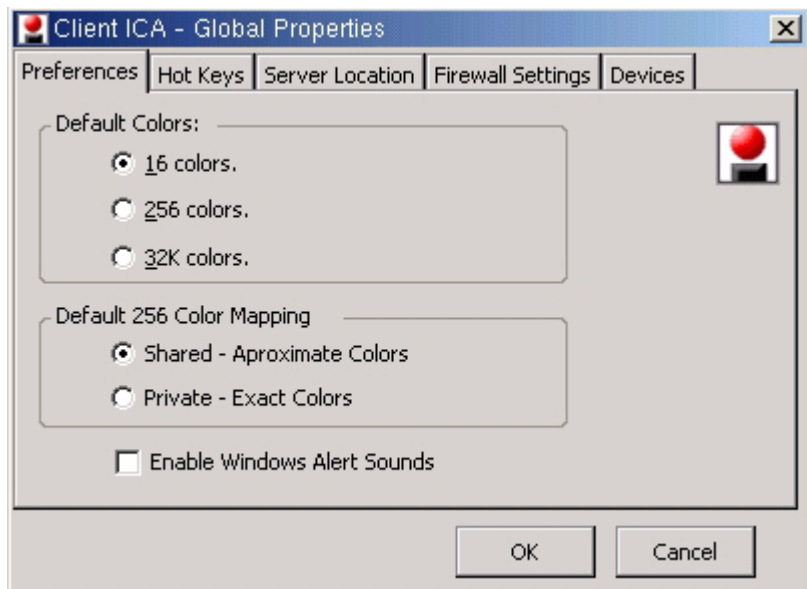
A password can be assigned to the unit by selecting Protected Logon and completing the password information.



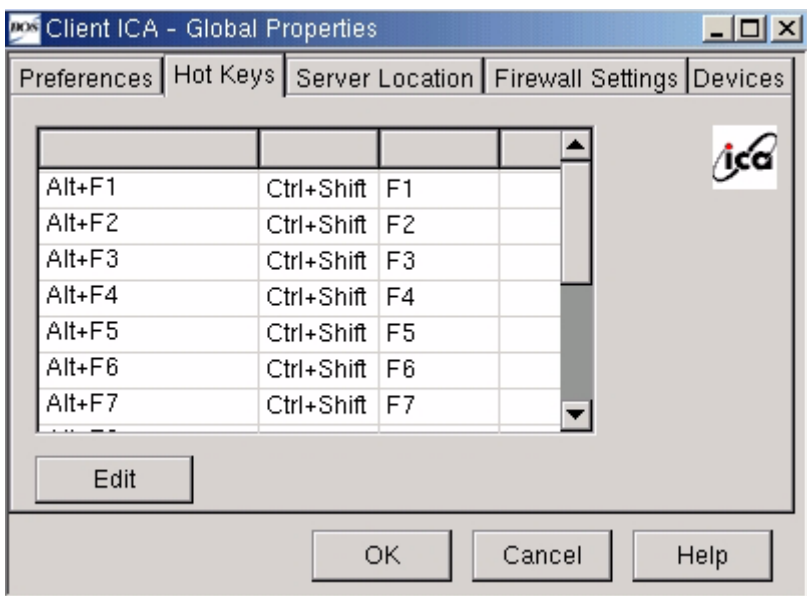
# Client ICA - Global Settings

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

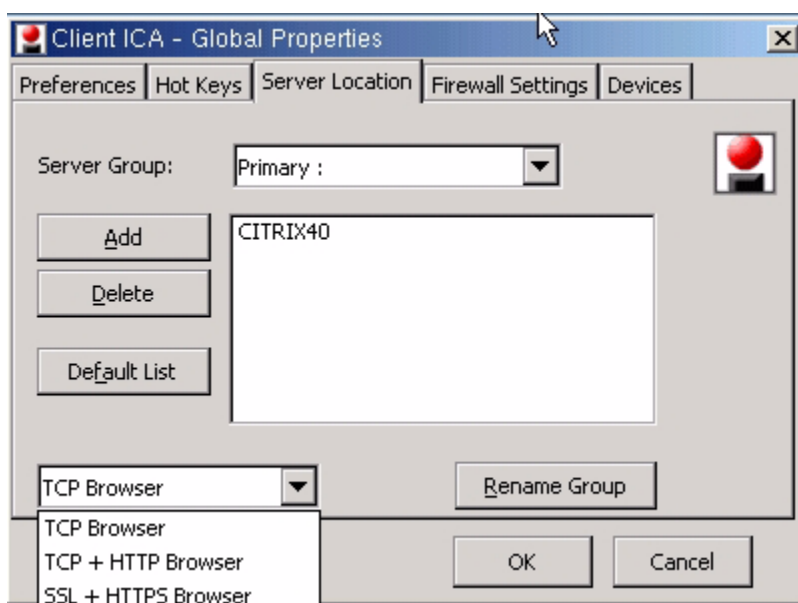
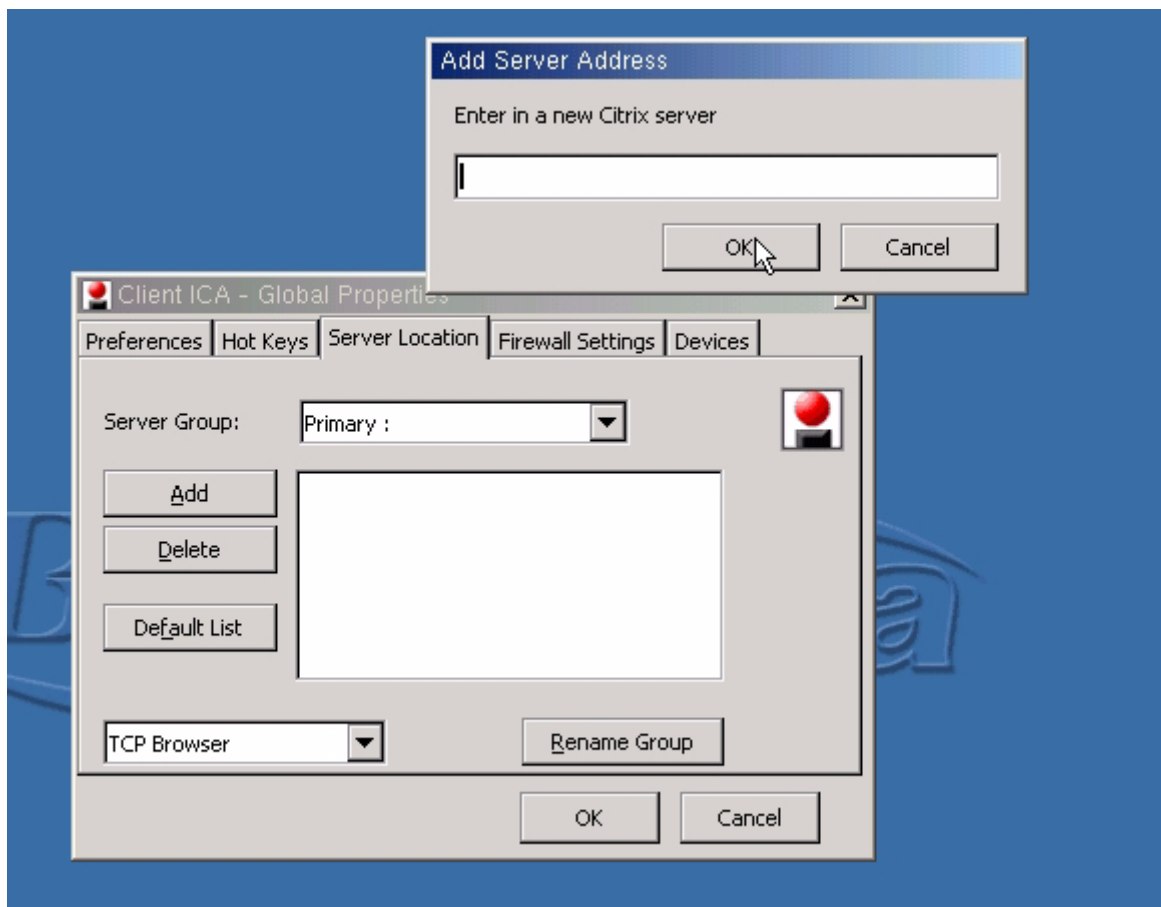


## Hot Keys



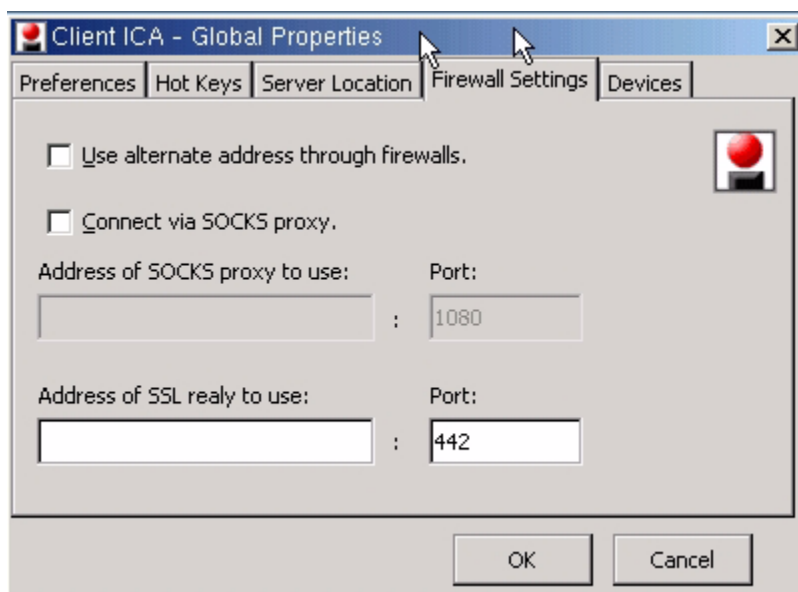
## ICA Server Location

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

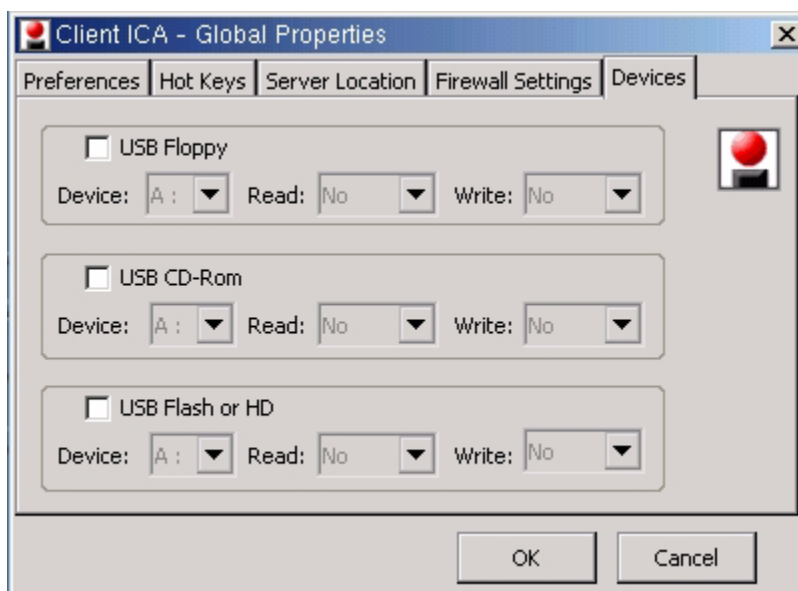




## Firewall Settings



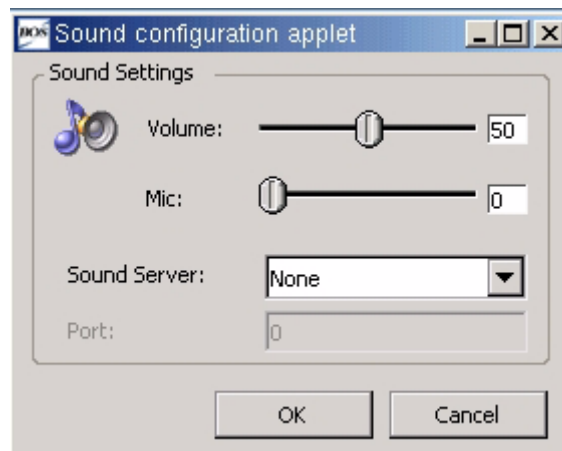
## Devices



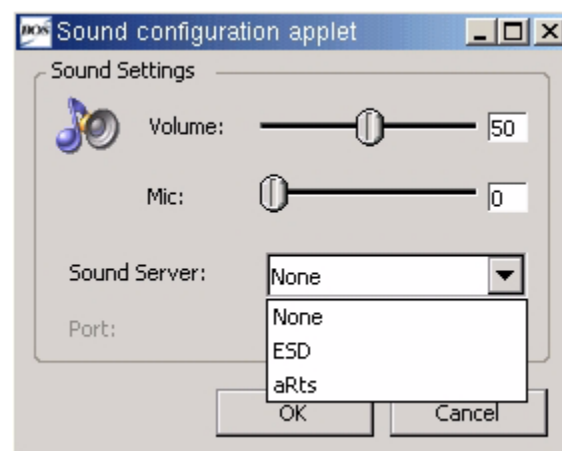
NOTE: USB Floppy and USB Flash are by default set to READ NO and Write NO, this will need to be changed to YES to access this from CITRIX.

## 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.



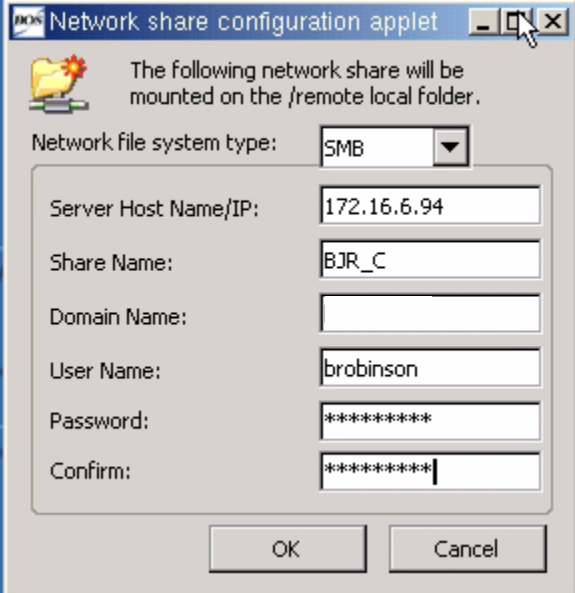
This can be used with SGD or NXclient to have sound with the desktop.



## Network File System

NFS file systems are typically exported by other Linux/Unix servers and SMB file systems are typically exported by Windows based machines. To automatically mount NFS or SMB network file systems select the Network File System type. For NFS file system (Linux File Systems), the User and Password fields are blank. For SMB (Windows File Systems), these fields must be specified. The Server field could contain the IP address of the remote system, while the Share field should contain the share name on that system.

For an SMB share, select the file system type SMB and complete the required host name or IP, share name, domain name, user name and password.



The following network share will be mounted on the /remote local folder.

Network file system type:

Server Host Name/IP:

Share Name:

Domain Name:

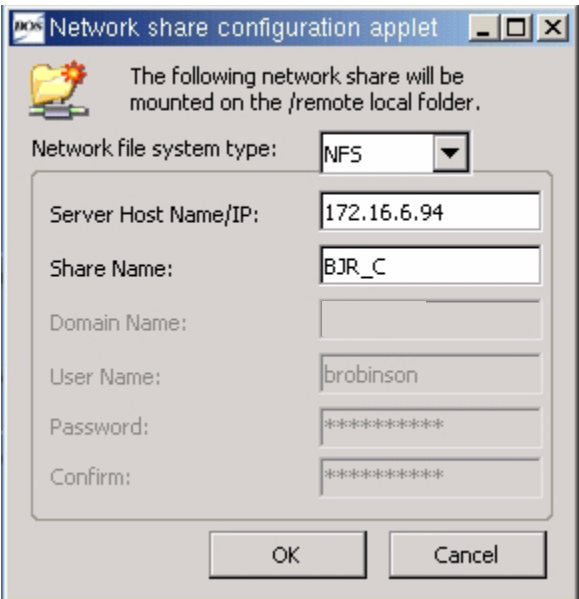
User Name:

Password:

Confirm:

OK Cancel

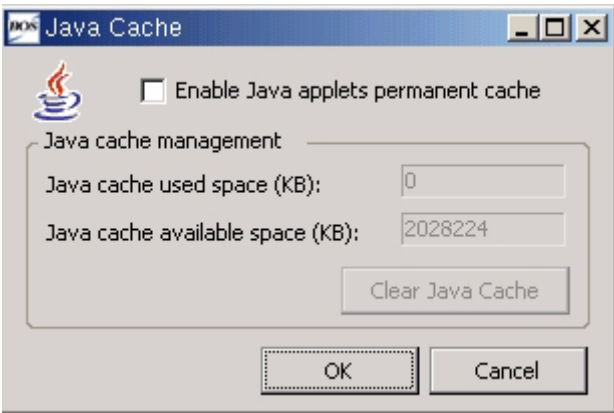
For an NFS share, select the file system type NFS and complete the required host name or IP and share name.



**Java Cache**

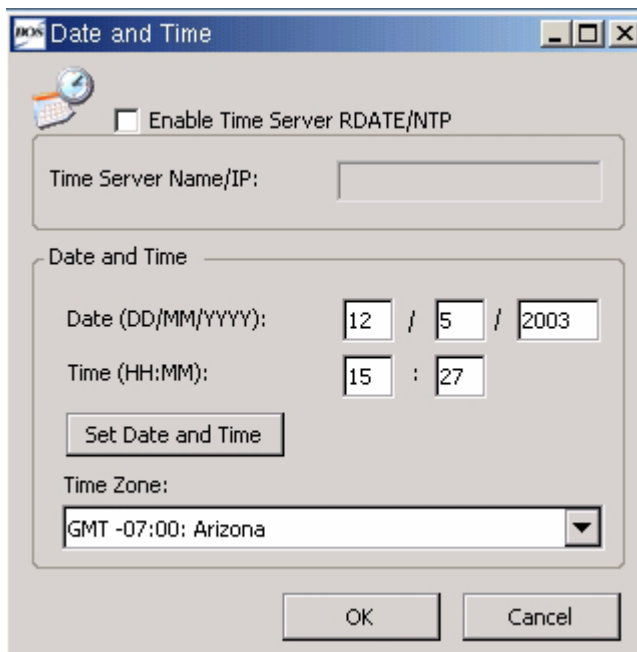
Check Enable Java applets permanent cache to enable Java cache management. To clear the Java Cache, select the Clear Java Cache button.

NOTE: This feature is not supported on all models.



## Date & Time

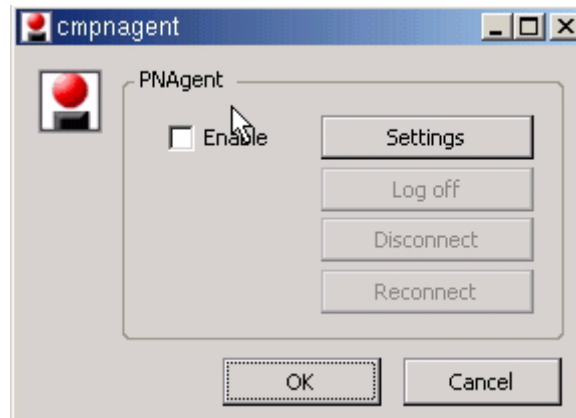
Check Enable Time Server RDATE/NTP and enter the time server full qualified domain name or IP to use the time server or set the date and time manually.



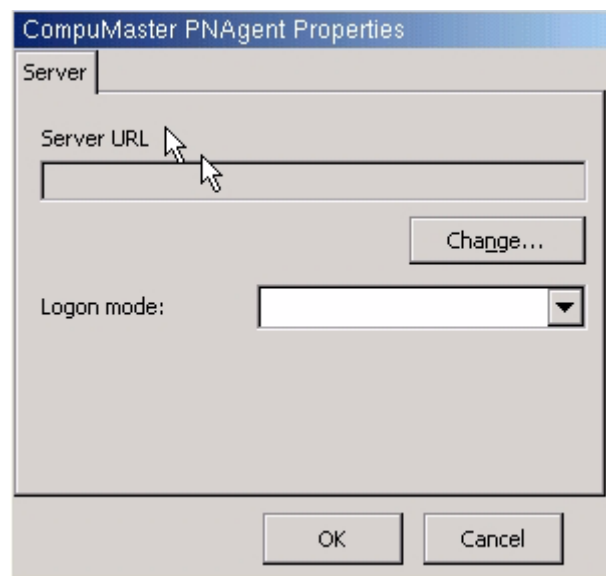
The image shows a Windows-style dialog box titled "Date and Time". It has a standard Windows XP-style title bar with minimize, maximize, and close buttons. The dialog contains the following elements:

- A checkbox labeled "Enable Time Server RDATE/NTP" which is currently unchecked.
- A text input field labeled "Time Server Name/IP:".
- A section titled "Date and Time" containing:
  - Three input fields for "Date (DD/MM/YYYY):" with values "12", "5", and "2003" respectively, separated by slashes.
  - Two input fields for "Time (HH:MM):" with values "15" and "27" respectively, separated by a colon.
  - A "Set Date and Time" button.
- A "Time Zone:" label above a dropdown menu currently showing "GMT -07:00: Arizona".
- "OK" and "Cancel" buttons at the bottom right.

## ICA PNAgent: - Citrix Program Neighborhood Agent

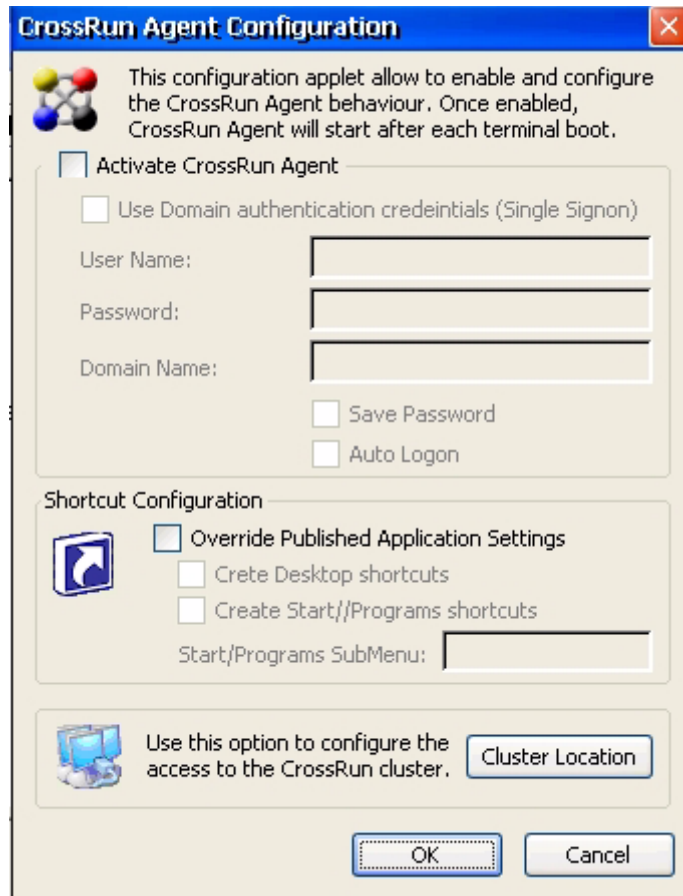


### Settings



## CrossRun Agent Configuration

CrossRun is a server product that requires a small client component installed on each device in order to access the Terminal Server.



The image shows a Windows-style dialog box titled "CrossRun Agent Configuration". It has a blue title bar with a close button (X) in the top right corner. The main area is light beige. At the top left is a small icon of a molecule with yellow, red, and blue spheres. To its right is a text block: "This configuration applet allow to enable and configure the CrossRun Agent behaviour. Once enabled, CrossRun Agent will start after each terminal boot." Below this is a section with a checkbox labeled "Activate CrossRun Agent". If checked, there is a sub-section with a checkbox "Use Domain authentication credentials (Single Signon)". Below this are three text input fields: "User Name:", "Password:", and "Domain Name:". To the right of the "Password:" field is a "Save Password" checkbox. Below the "Domain Name:" field is an "Auto Logon" checkbox. Below these fields is a section titled "Shortcut Configuration" with a small icon of a folder with an arrow. It contains a checkbox "Override Published Application Settings". If checked, there are two more checkboxes: "Create Desktop shortcuts" and "Create Start//Programs shortcuts". Below these is a text input field labeled "Start/Programs SubMenu:". At the bottom of the dialog is a section with a small icon of a computer monitor and a text block: "Use this option to configure the access to the CrossRun cluster." To the right of this text is a button labeled "Cluster Location". At the very bottom of the dialog are two buttons: "OK" and "Cancel".

### CrossRun Logon Parameters

This section controls the Logon to the CrossRun Server.

#### Option Description

**User Name** - The user name for accessing the CrossRun Server.

**Password** - The password for accessing the CrossRun Server.

**Save Password** - When checked, this option saves the password such that the user need not enter it again.

**Auto Logon** - When checked, the logon will occur automatically when the CrossRun Agent is started (this option is only valid when the Save Password option is enabled).

## Shortcut Configuration

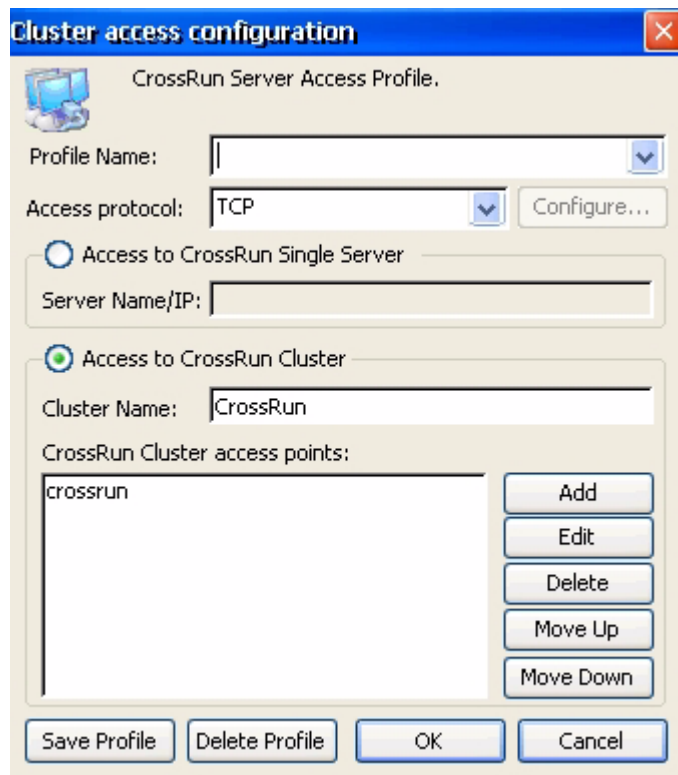
This section controls how the published applications will be presented to your Desktop and/or Program Menu.

### Option Description

**Create Desktop Shortcuts** - When this option is selected, shortcuts will be created to the published applications on your Desktop. The icons used will be the ones configured for the applications on the CrossRun Server.

**Create Start\Programs Shortcuts** - When this option is selected, shortcuts will be created on the Start menu to the CrossRun published applications in groups as configured on the CrossRun Server.

## CrossRun Server Access Profile



The image shows a Windows-style dialog box titled "Cluster access configuration" with a close button (X) in the top right corner. The dialog is for configuring a "CrossRun Server Access Profile". It contains the following fields and controls:

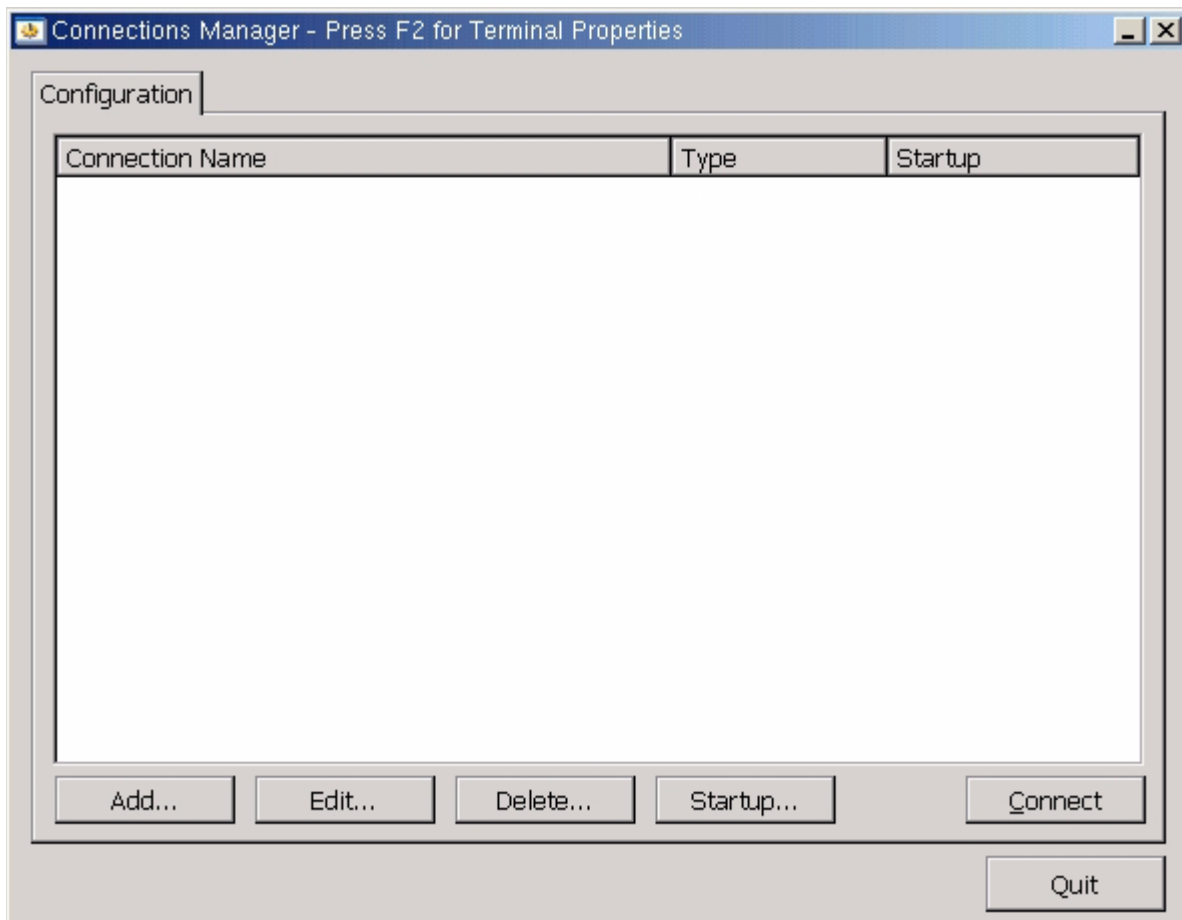
- Profile Name:** A text input field with a dropdown arrow on the right.
- Access protocol:** A dropdown menu currently showing "TCP", with a "Configure..." button to its right.
- Access to CrossRun Single Server:** A radio button option. Below it is a text field for "Server Name/IP".
- Access to CrossRun Cluster:** A radio button option, which is currently selected. Below it is a text field for "Cluster Name" containing "CrossRun".
- CrossRun Cluster access points:** A list box containing the entry "crossrun". To the right of the list box are five buttons: "Add", "Edit", "Delete", "Move Up", and "Move Down".
- Bottom buttons:** "Save Profile", "Delete Profile", "OK", and "Cancel".

The Access Profiles section allows you to define a profile for accessing a CrossRun Server. To Access to CrossRun Server enter the Server Name/IP.



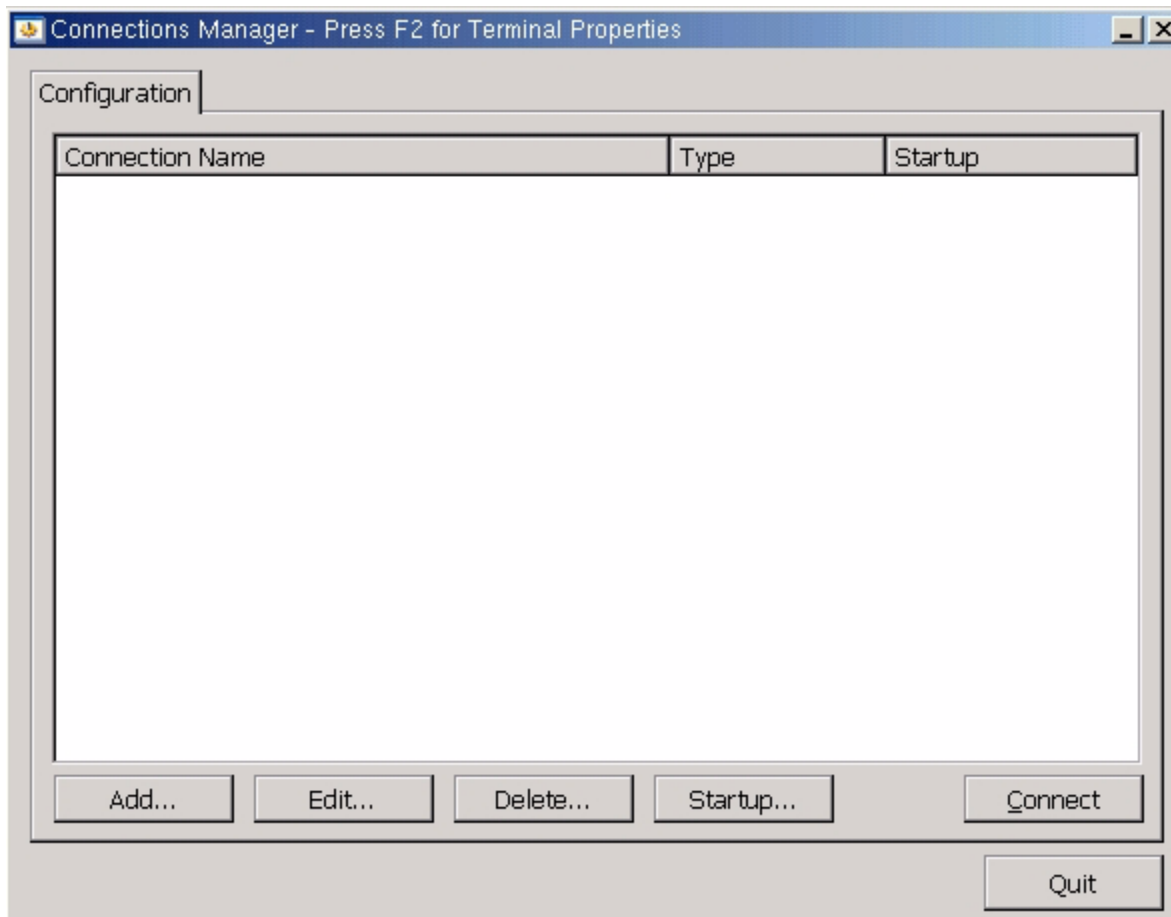
# CONNECTIONS MANAGER

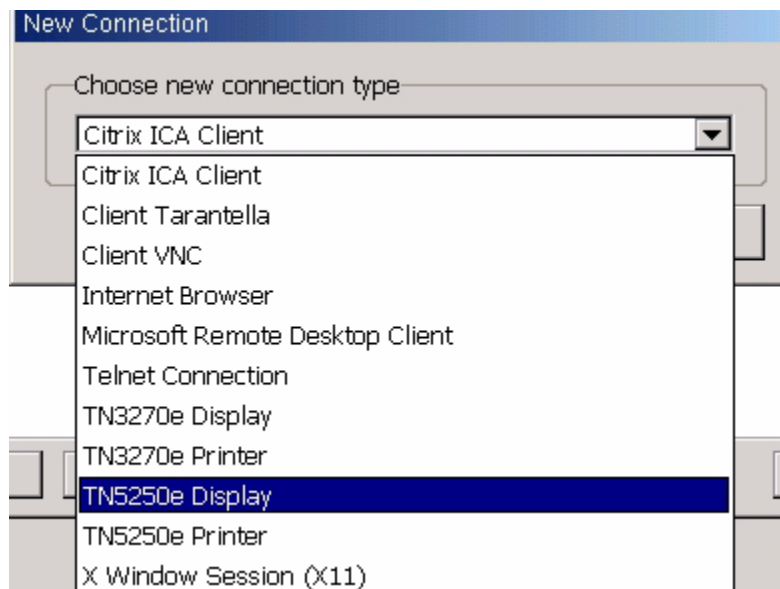
To access the connections manager select Start -> Settings -> Connection Manager.



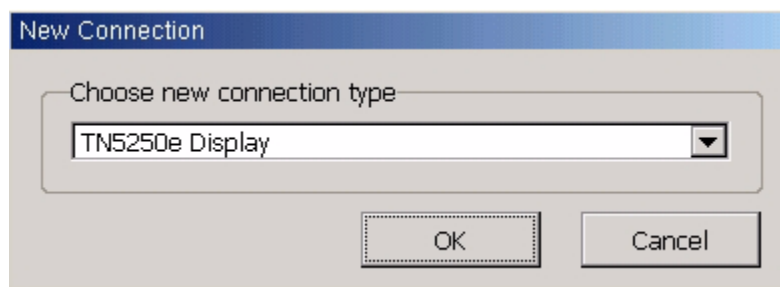
# TN5250e Display

Select Add and then scroll down to select TN5250e Display

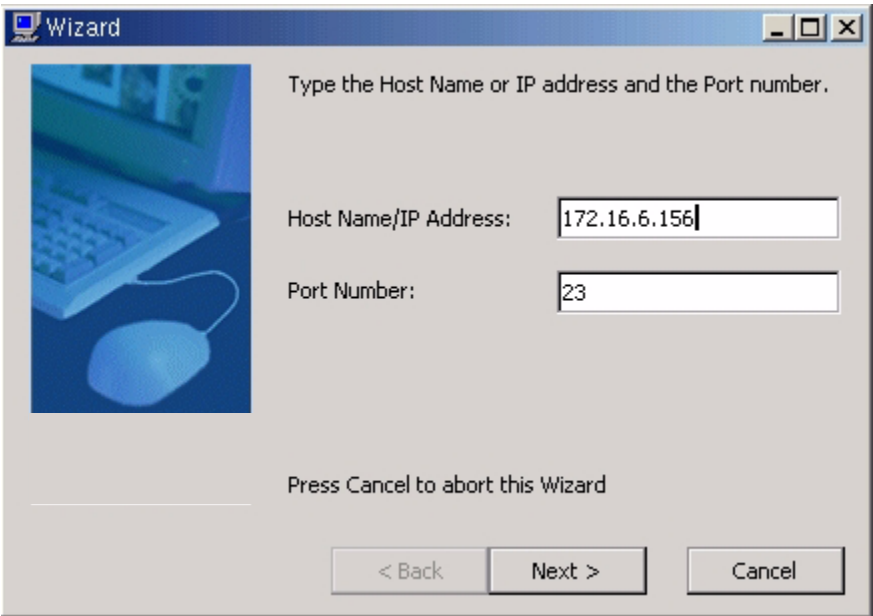




There are several options for the connection type in the drop down list - for the 5250 display session select TN5250e Display.

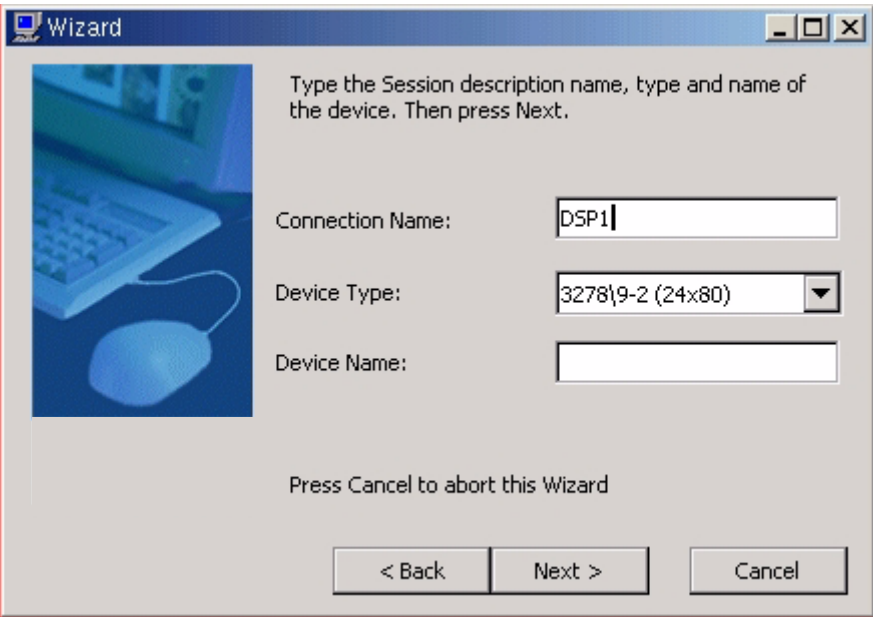


Enter the Host Name or IP address of the AS/400. Port Number is the default port for telnet. If this is changed, the AS/400 must be configured to accept connections on the non-standard telnet port.



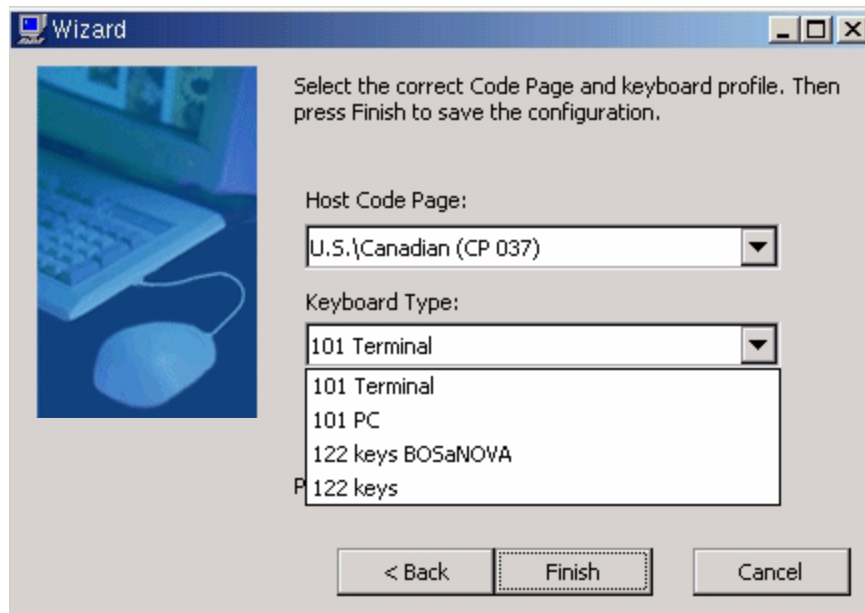
The screenshot shows a Windows-style dialog box titled "Wizard". On the left is a blue-tinted image of a computer keyboard and mouse. The main text area says "Type the Host Name or IP address and the Port number." Below this are two input fields: "Host Name/IP Address:" with the value "172.16.6.156" and "Port Number:" with the value "23". At the bottom, 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

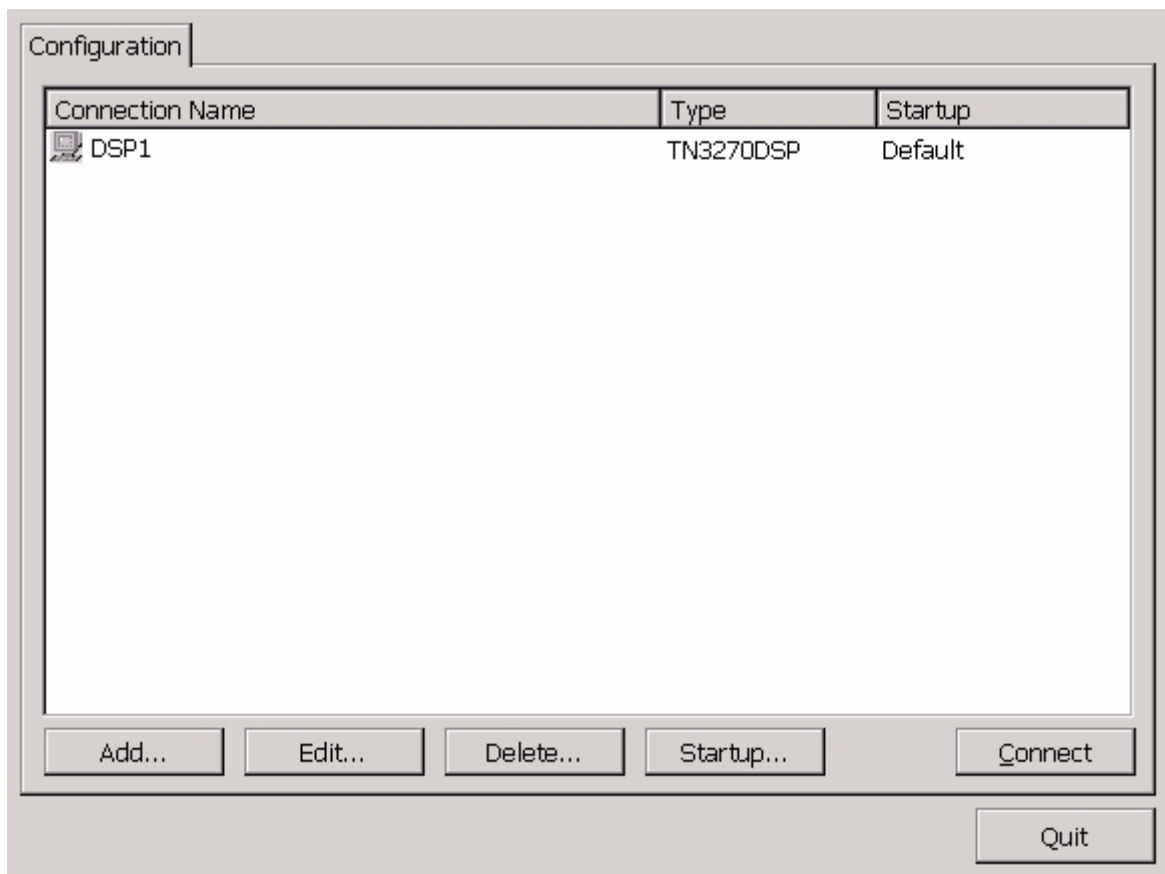


The screenshot shows the same "Wizard" dialog box, but at a different step. The main text area says "Type the Session description name, type and name of the device. Then press Next." Below this are three input fields: "Connection Name:" with the value "DSP1", "Device Type:" with a dropdown menu showing "3278(9-2 (24x80))", and "Device Name:" which is empty. At the bottom, 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 BOSaNOVA. 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 Windows-style dialog box titled "Display Session Properties". It has a tabbed interface with the following tabs: "Connection" (selected), "General", "Attributes", "Hot Spot", "Key Pad", and "Advanced".

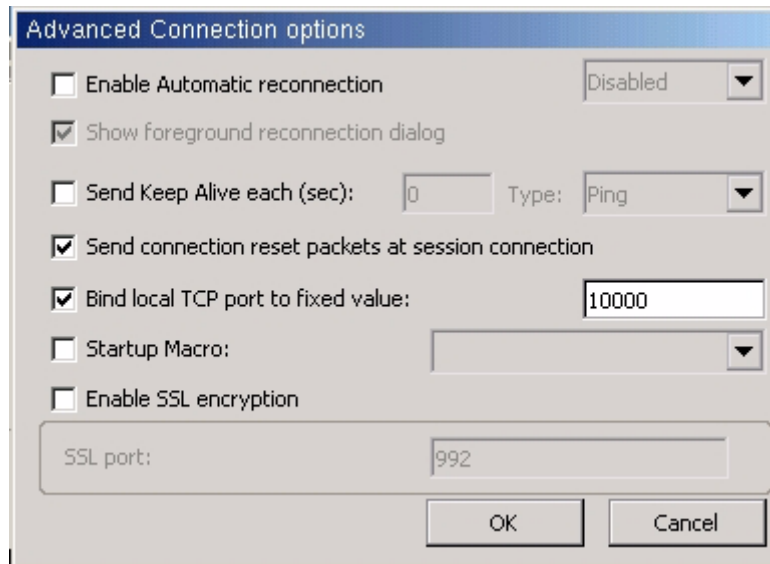
The "Connection" tab is divided into two main sections:

- Host Connection:** This section is indicated by a server icon. It contains:
  - A label "Host Name/IP Address:" followed by a text box containing "172.16.6.156".
  - A label "Port Number:" followed by a text box containing "23".
  - A button labeled "Advanced options..." below the port number field.
- Session:** This section is indicated by a computer monitor icon. It contains:
  - A label "Connection Name:" followed by a text box containing "DSP1".
  - A label "Device Name:" followed by an empty text box.
  - A label "Device Type:" followed by a dropdown menu showing "3278\9-2 (24x80)".

At the bottom right of the dialog box are two buttons: "OK" and "Cancel".

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.



The image shows a dialog box titled "Advanced Connection options". It contains several configuration options:

- ☐ Enable Automatic reconnection: Disabled (dropdown)
- ☒ Show foreground reconnection dialog
- ☐ Send Keep Alive each (sec): 0 Type: Ping (dropdown)
- ☒ Send connection reset packets at session connection
- ☒ Bind local TCP port to fixed value: 10000
- ☐ Startup Macro: (dropdown)
- ☐ Enable SSL encryption
- SSL port: 992

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

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.

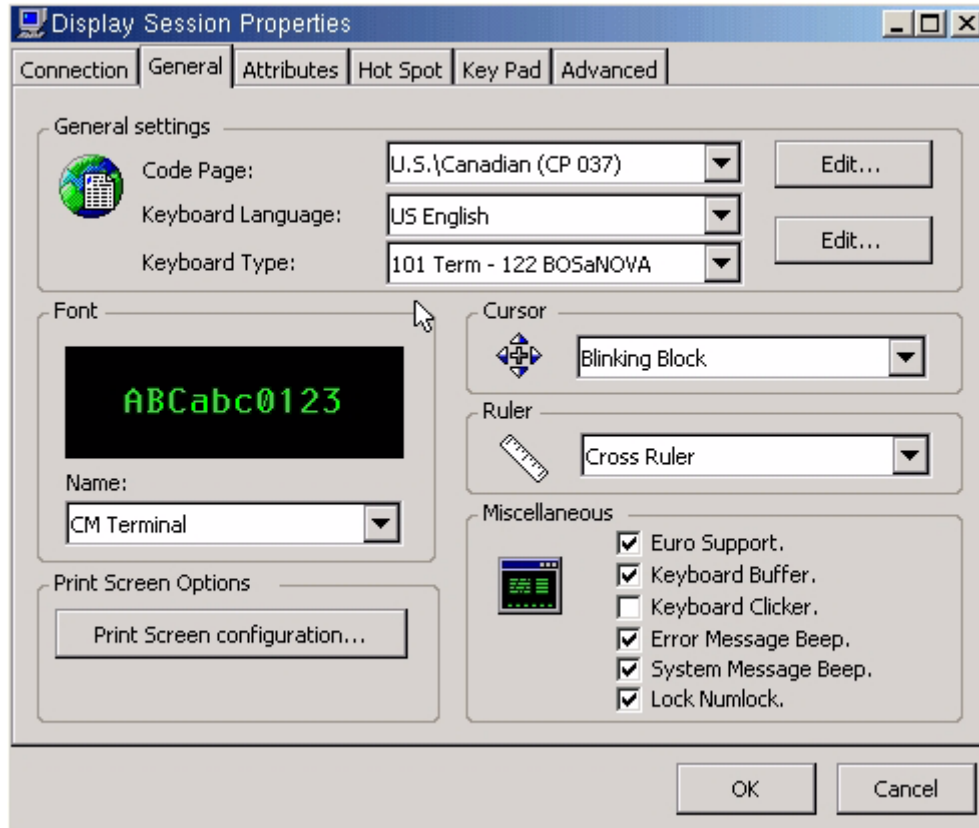
Startup Macro: Do no check unless directed to do so by technical support.

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.



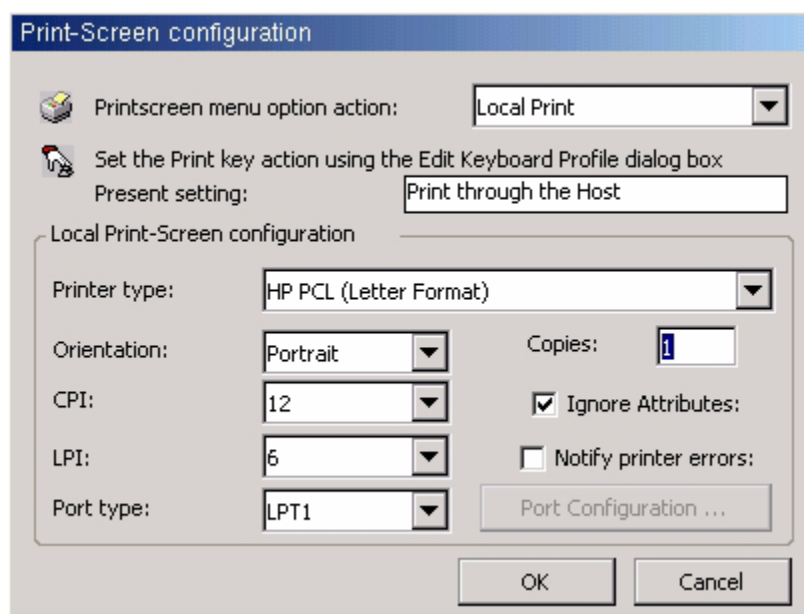
Font options are CM Terminal or Courier New

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

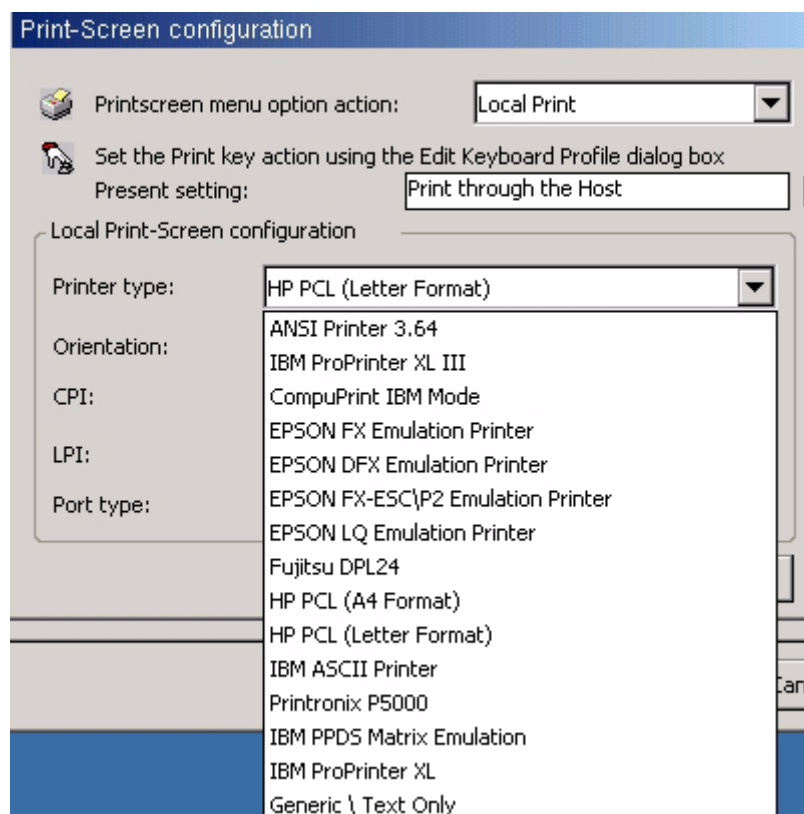
Ruler options are Cross Ruler, Horizontal Ruler or Vertical Ruler.

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.



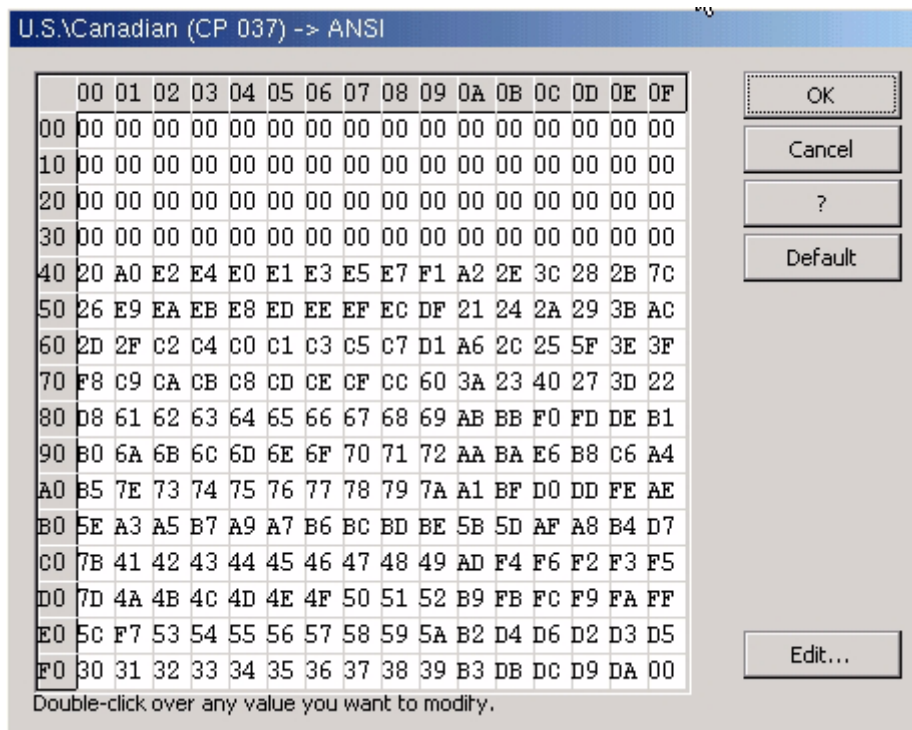
The 'Print-Screen configuration' dialog box is shown. It has a title bar with the same name. Inside, there are two main sections. The top section contains a 'Printscreen menu option action:' dropdown menu set to 'Local Print', and a 'Set the Print key action using the Edit Keyboard Profile dialog box' section with a 'Present setting:' dropdown menu set to 'Print through the Host'. The bottom section is titled 'Local Print-Screen configuration' and contains several settings: 'Printer type:' set to 'HP PCL (Letter Format)', 'Orientation:' set to 'Portrait', 'CPI:' set to '12', 'LPI:' set to '6', and 'Port type:' set to 'LPT1'. There are also 'Copies:' and 'Ignore Attributes:' checkboxes, and a 'Notify printer errors:' checkbox. A 'Port Configuration ...' button is located next to the 'Port type:' dropdown. At the bottom are 'OK' and 'Cancel' buttons.



The 'Print-Screen configuration' dialog box is shown again, but with the 'Printer type:' dropdown menu open. The dropdown list shows a variety of printer models and emulations, including 'ANSI Printer 3.64', 'IBM ProPrinter XL III', 'CompuPrint IBM Mode', 'EPSON FX Emulation Printer', 'EPSON DFX Emulation Printer', 'EPSON FX-ESC\p2 Emulation Printer', 'EPSON LQ Emulation Printer', 'Fujitsu DPL24', 'HP PCL (A4 Format)', 'HP PCL (Letter Format)', 'IBM ASCII Printer', 'Printronix P5000', 'IBM PPDS Matrix Emulation', 'IBM ProPrinter XL', and 'Generic \ Text Only'. The 'Printer type:' dropdown is currently set to 'HP PCL (Letter Format)'. The other settings in the dialog box remain the same as in the previous image.

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.

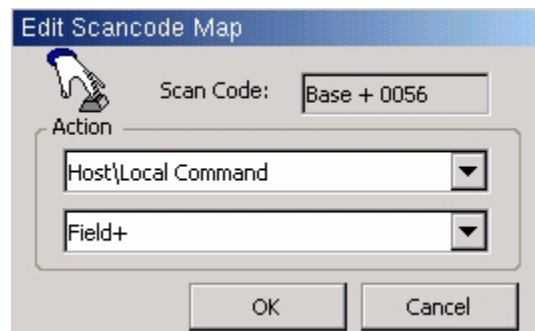
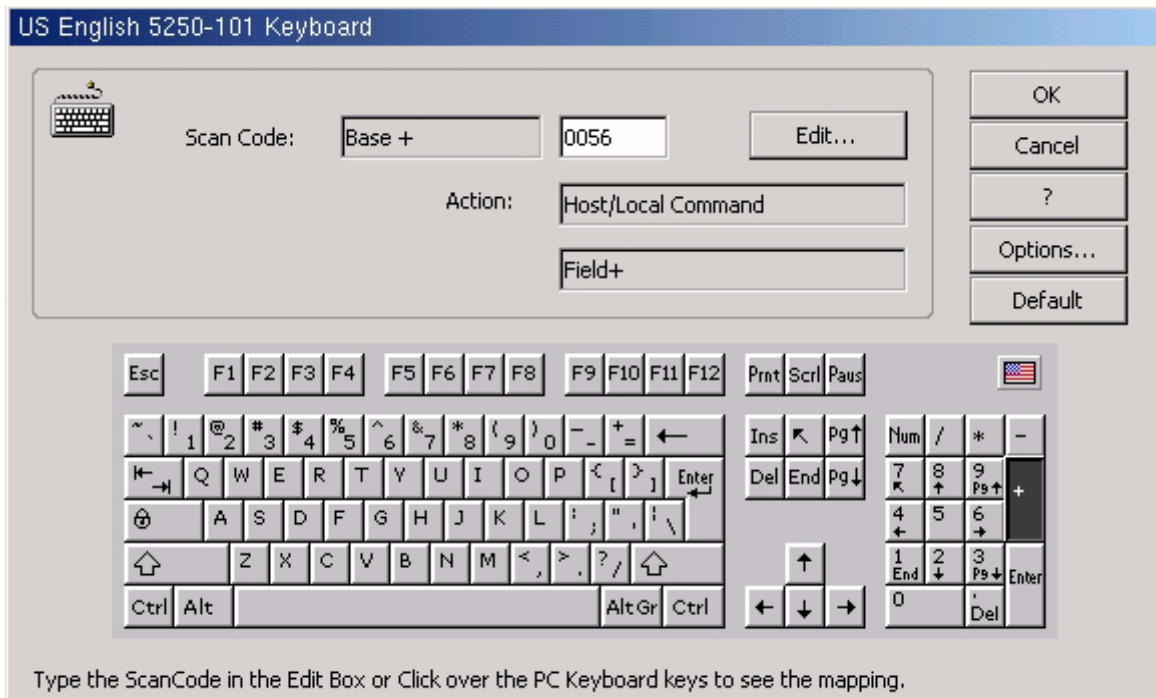
For instance an application may send an EBCDIC 'B0' as the start barcode command. By default this is mapped to an ASCII 0x5e - '^'. Sometimes the barcode printer will require an ASCII 0x24 - '\$'. In this case you can edit the transcode table entry for EBCDIC 'B0' and change it from 0x5e to 0x24.

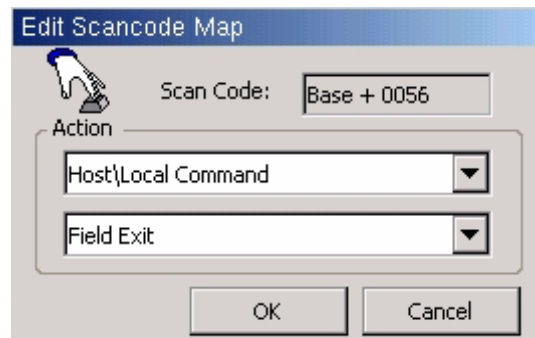
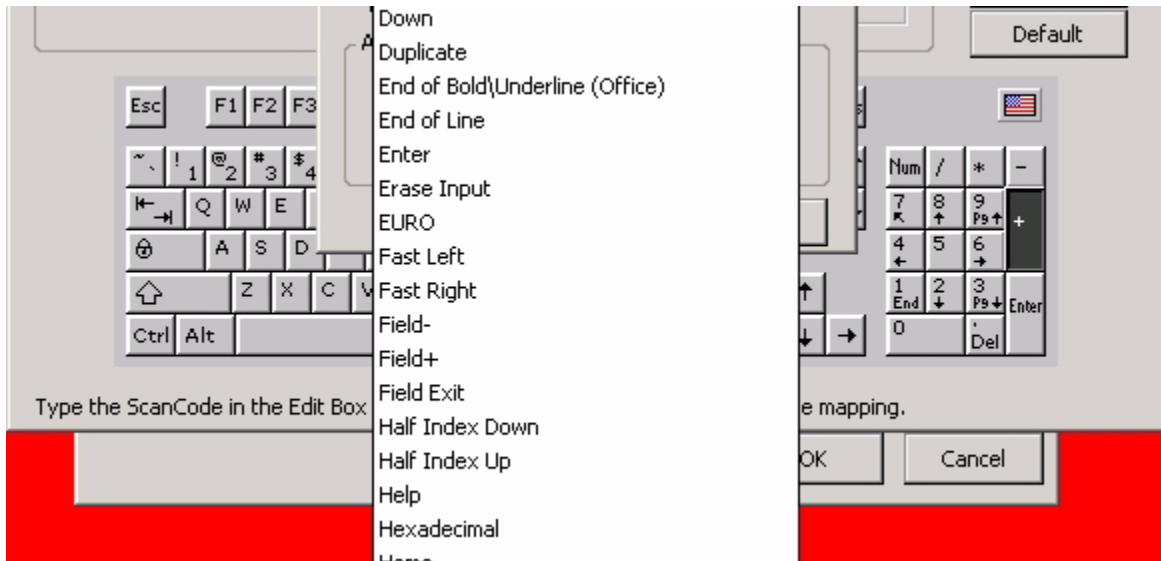
When editing the transcode table the vertical rows are the MSB of the EBCDIC code, while the horizontal cols are the LSB of the EBCDIC code. So for EBCDIC 0xB0, go to the B0 row and the 00 column.

## 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.





# US English 5250-101 Keyboard



Scan Code:

Base +

0056

Edit...

Action:

Host/Local Command

Field Exit

OK

Cancel

?

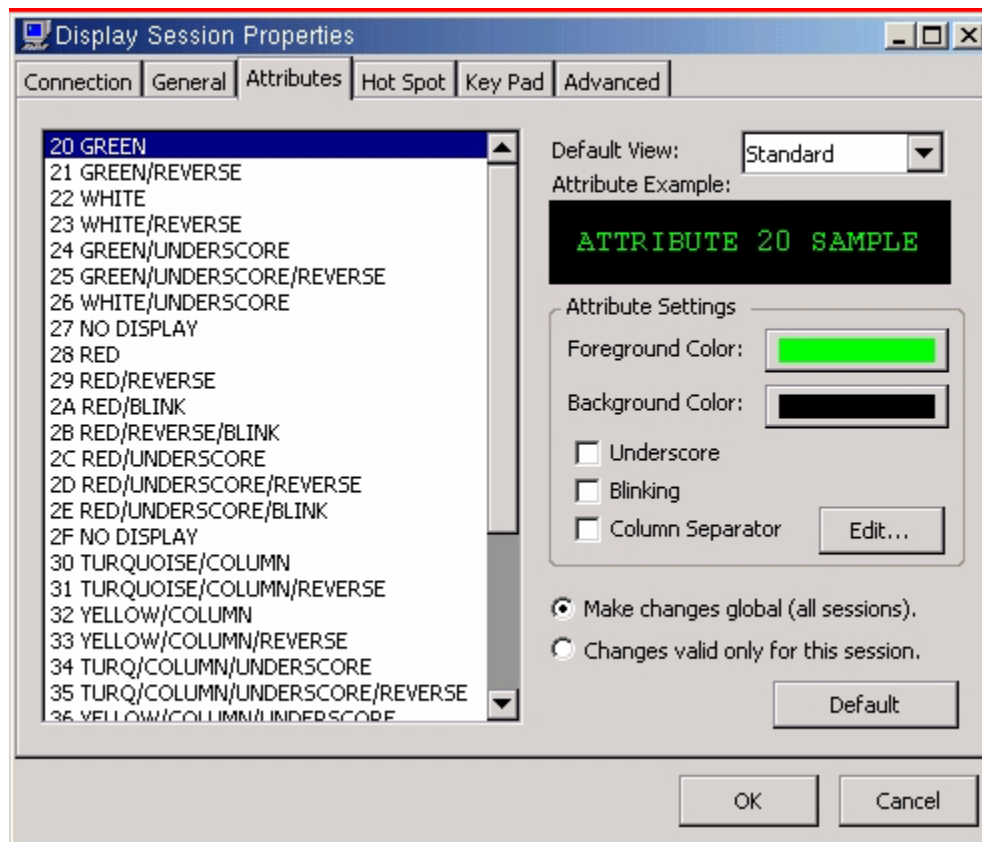
Options...

Default

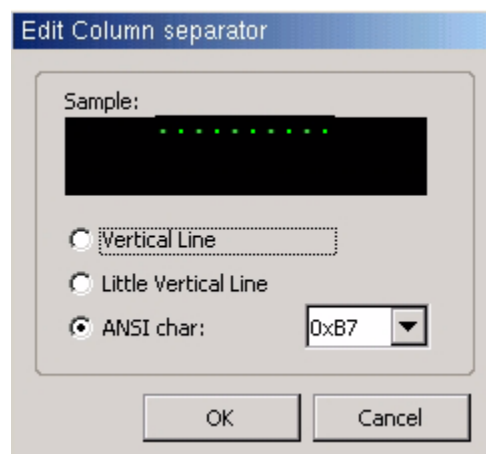


Type the ScanCode in the Edit Box or Click over the PC Keyboard keys to see the mapping.

## Display Session Properties - Attributes Tab

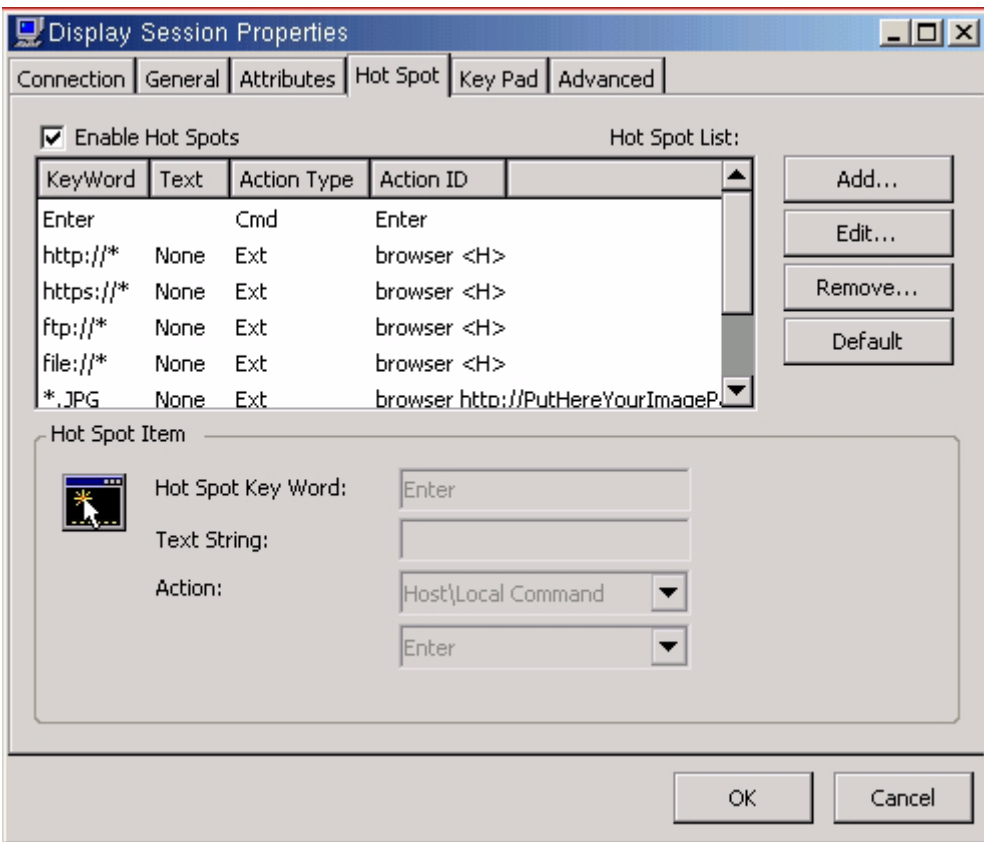


To change the column separator character select the Edit option to the right of the Column Separator.



# Display Session Properties - Hot Spot Tab

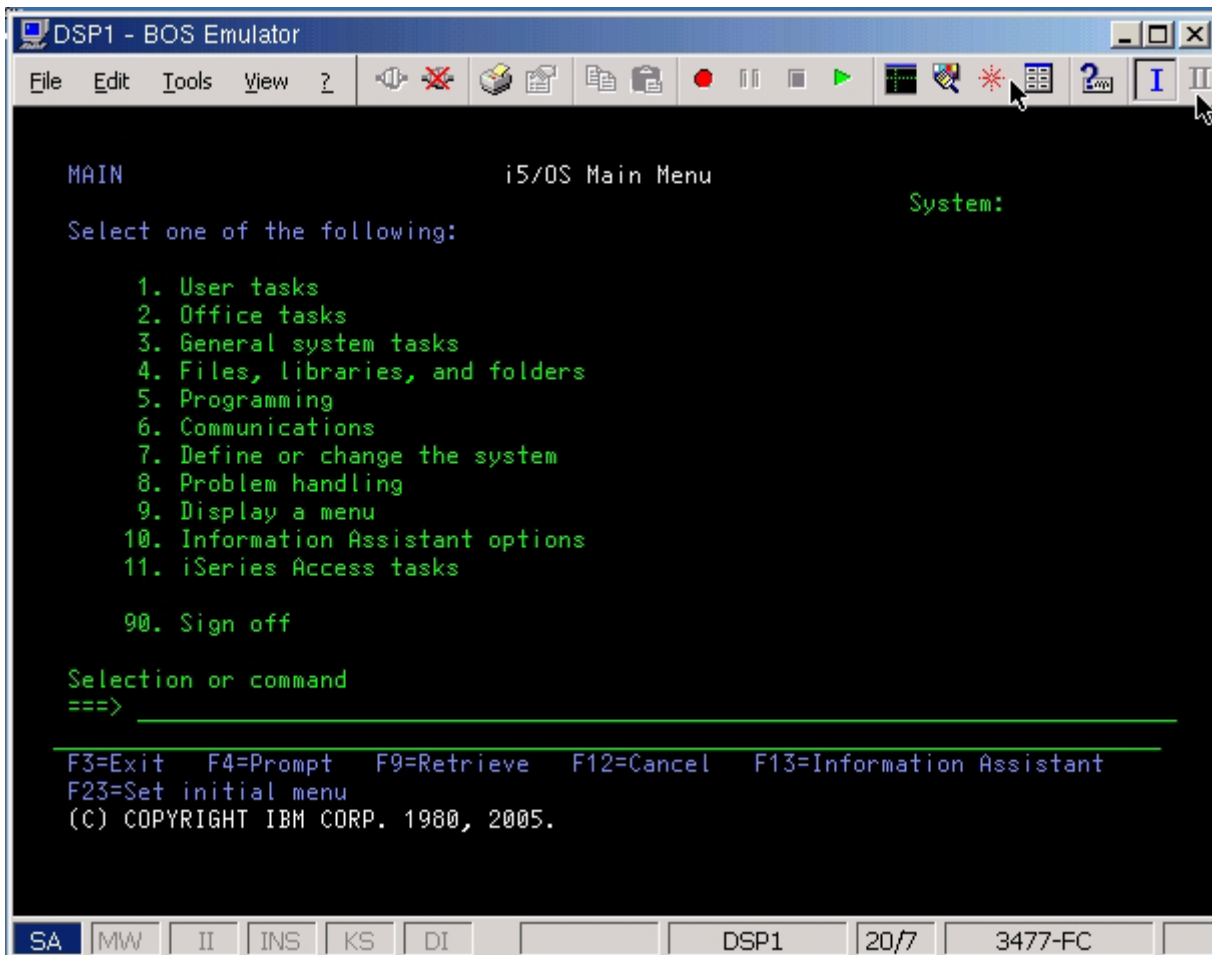
This option allows you to Add, Edit or Remove Hot spots.





**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.

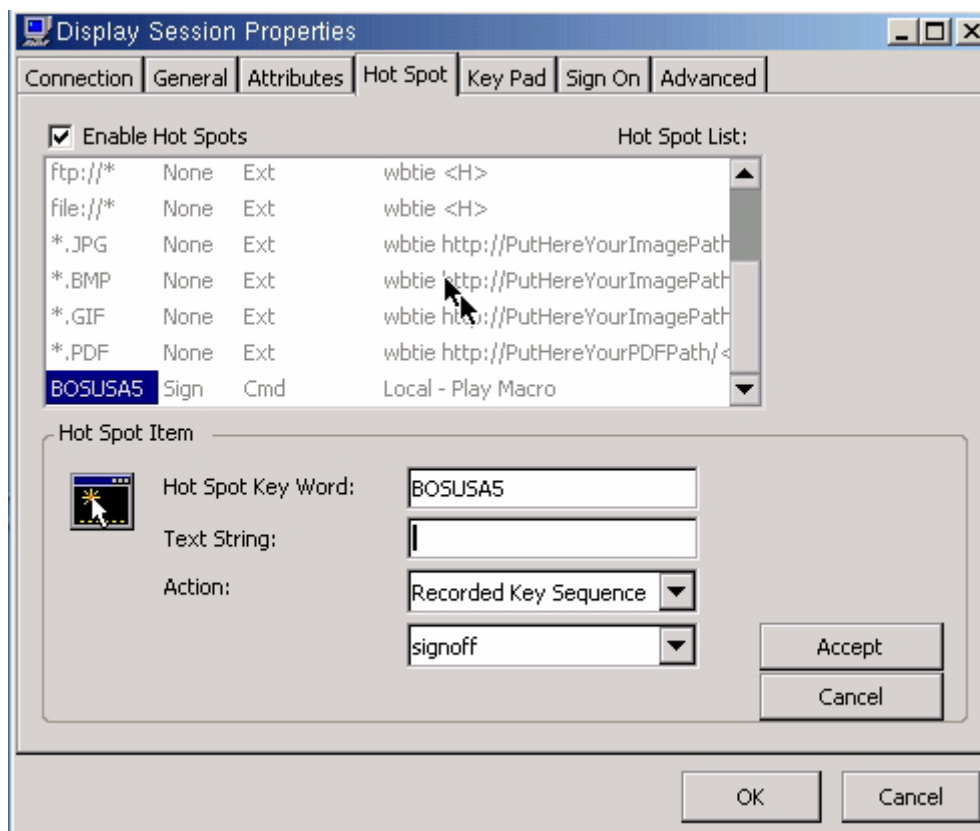


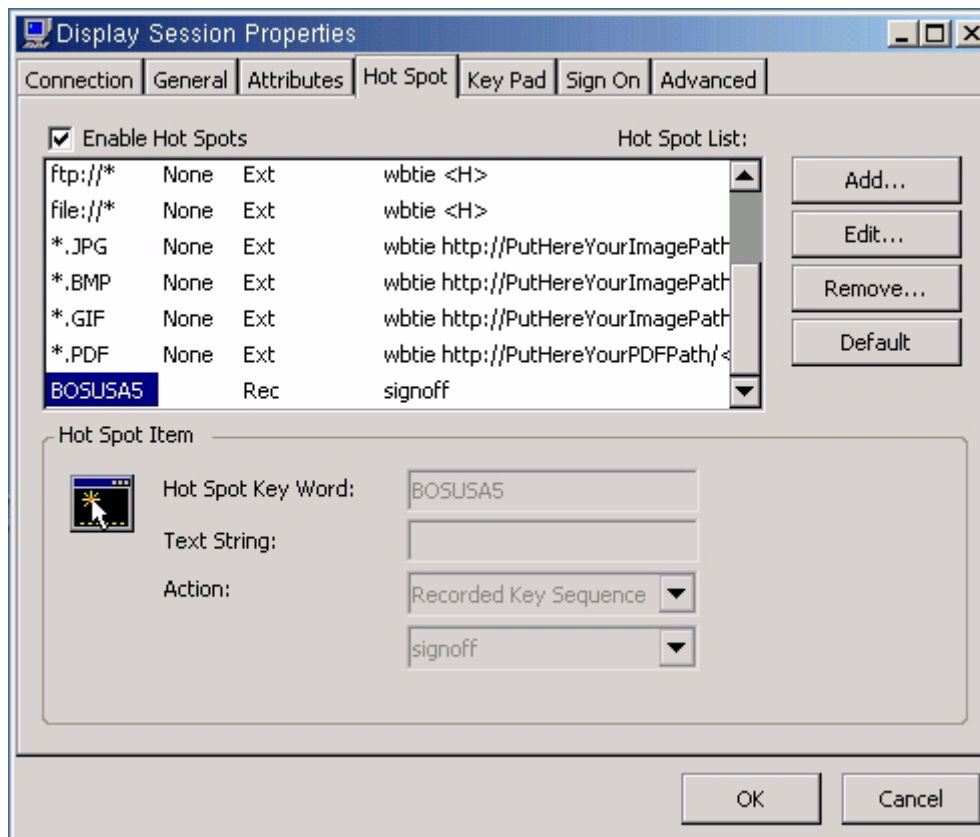
Hot Spot Key Word is BOSUSA5 - the system name that is displayed in the upper right corner of the display.

Text String is left blank.

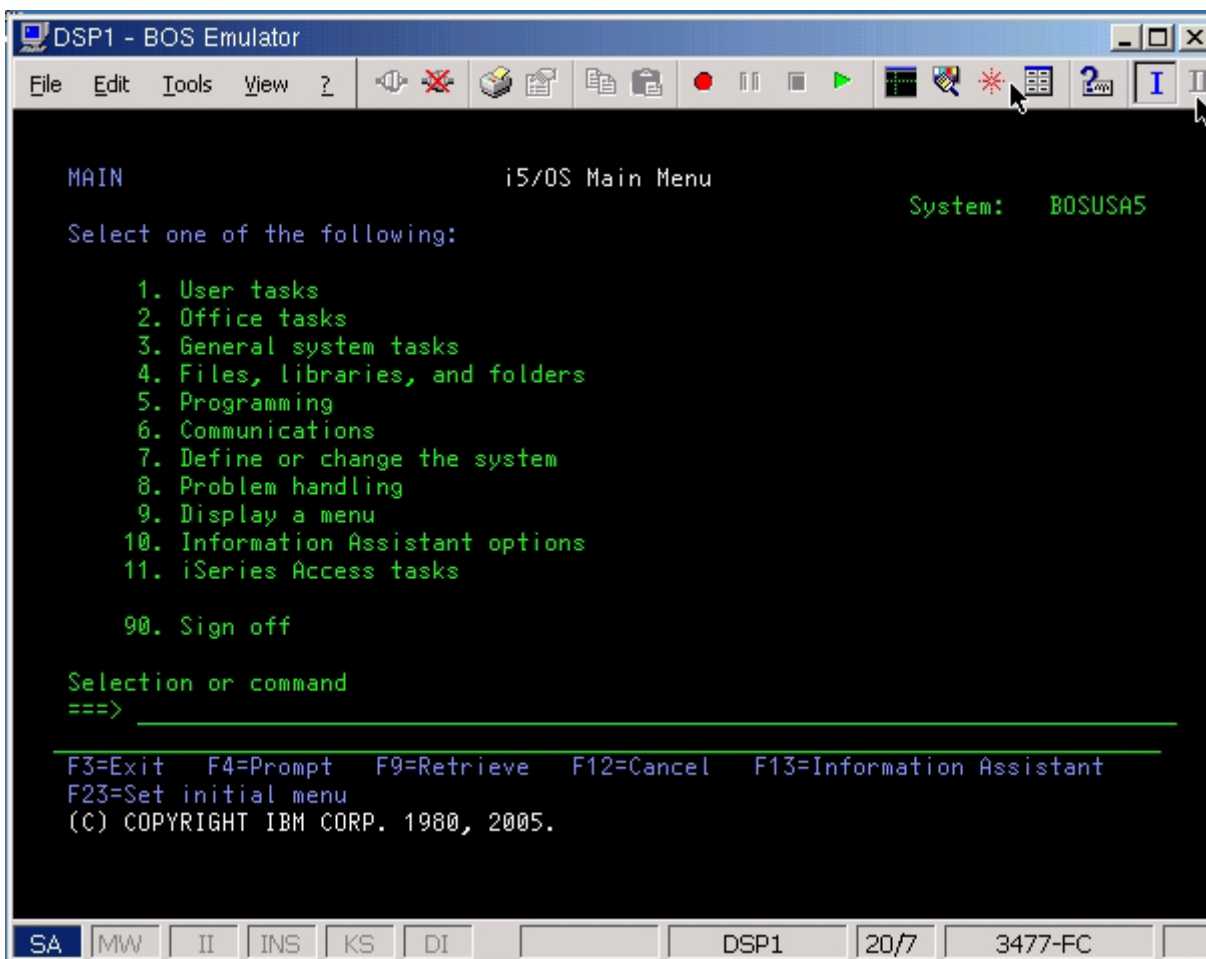
Selected Action is Recorded Key Sequence.

Action is the name of the created Macro





When signed on to the host, double click on BOSUSA5 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 Session Properties

ConnectionGeneralAttributesHot SpotKey PadAdvanced

Buttons List

Button Label	Text	Action Type	Action ID
Attn		CMD	Attention
Dup		CMD	Duplicate
Enter		CMD	Enter
FieldExit		CMD	Field Exit
Help		CMD	Help
Hex		CMD	Hexadecimal


Add...

Edit...

Remove...

Default

Button



Name:

Attn

Text String:

Action:

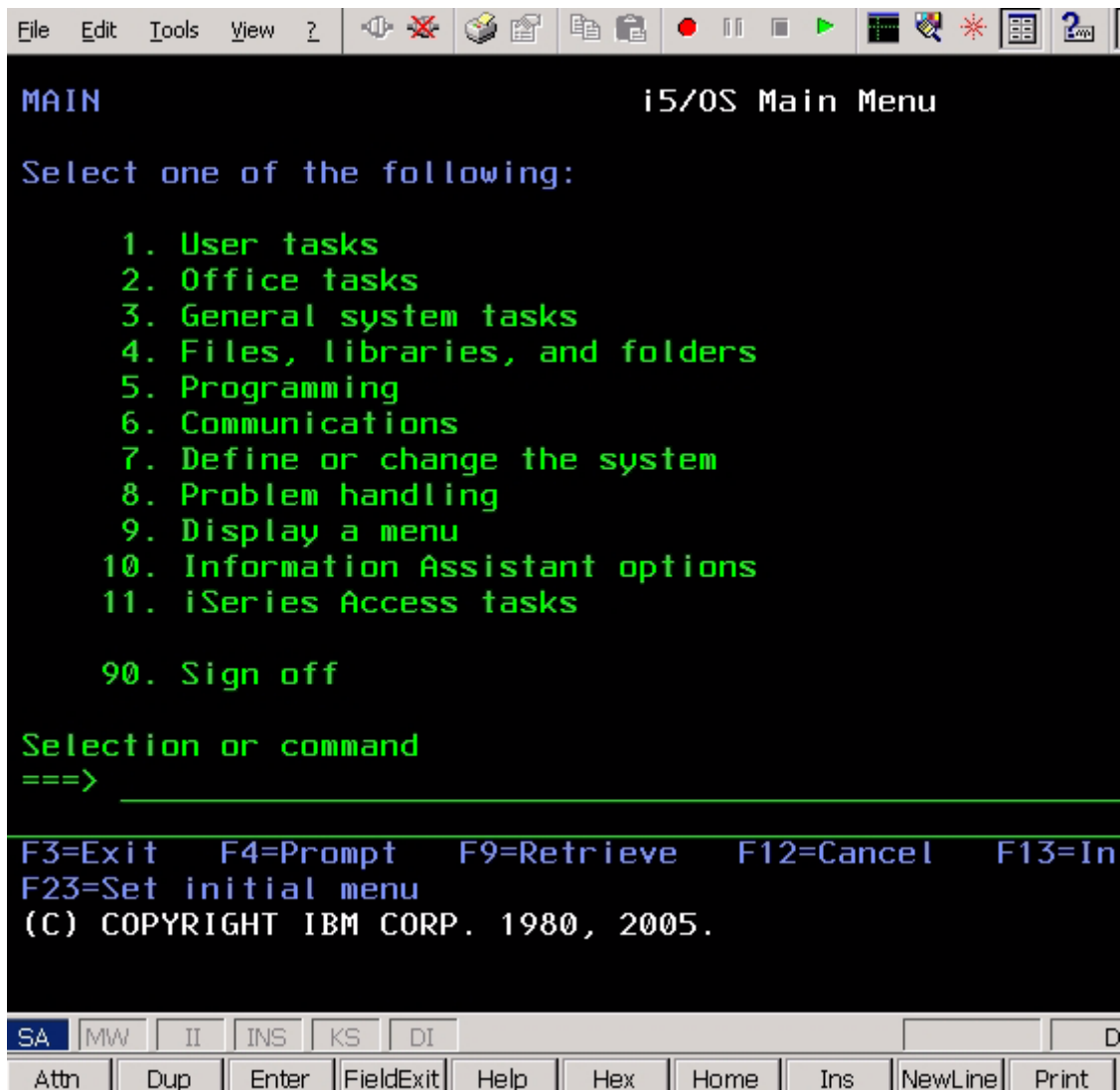
Host\Local Command

Attention

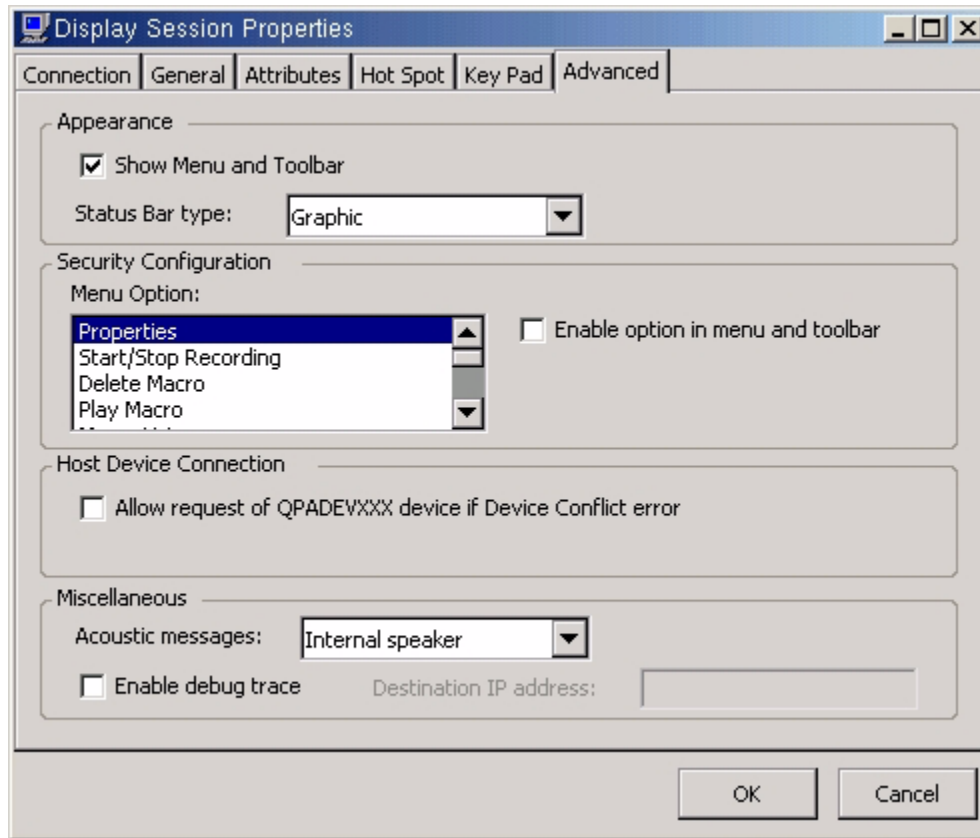
OK

Cancel

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



## 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.

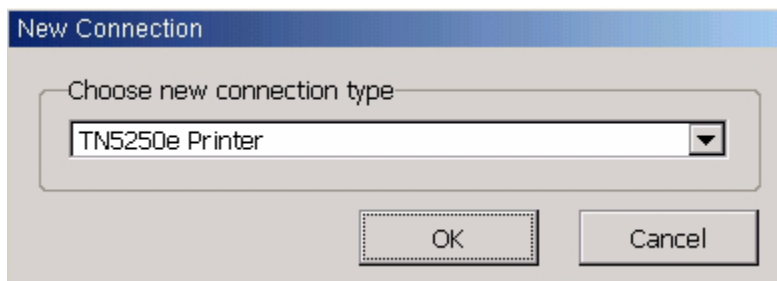
Security Configuration - option allows to enable or disable specific functions on the toolbar.

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

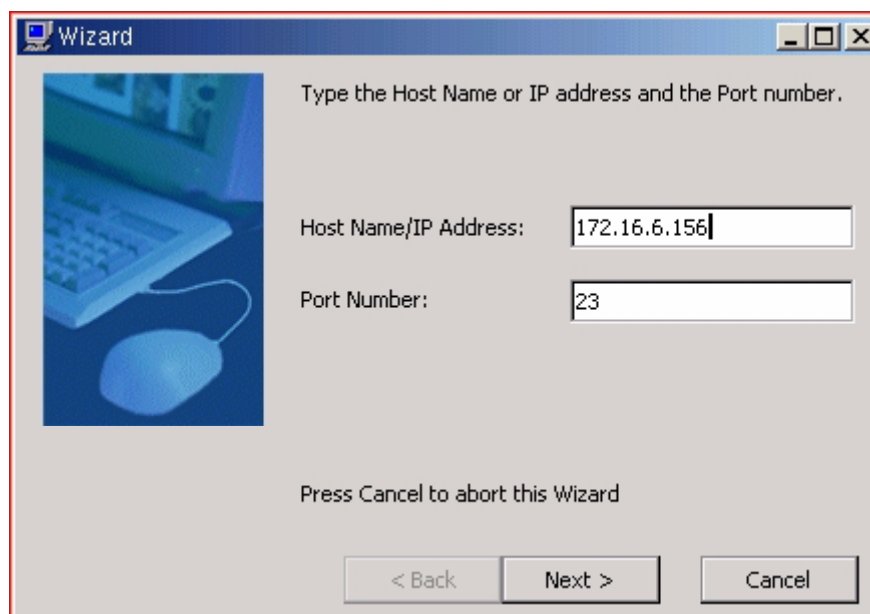
Miscellaneous - do not change any of these options unless instructed to do so by a BOSaNOVA technical support engineer.

## 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.

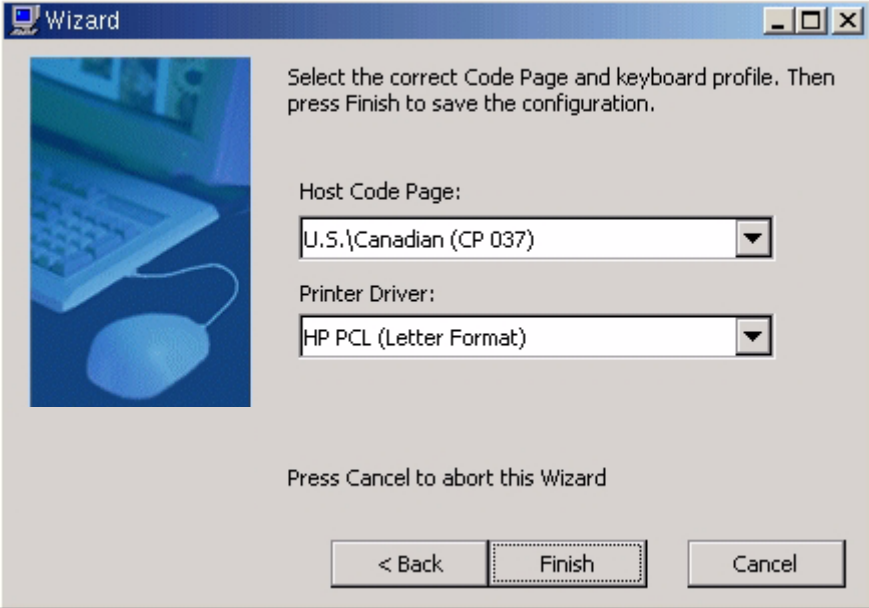
Connection Name: PRT-1

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.

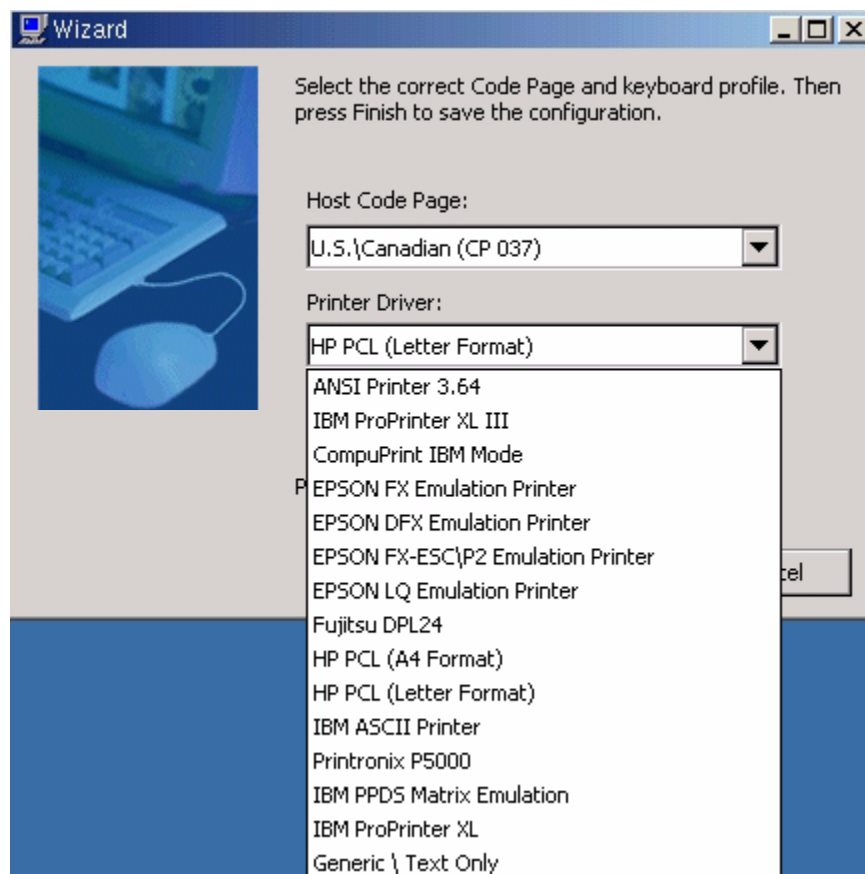
Host Code Page: U.S. \ Canadian (CP 037)

Printer Driver: HP PCL (Letter Format)

Press Cancel to abort this Wizard

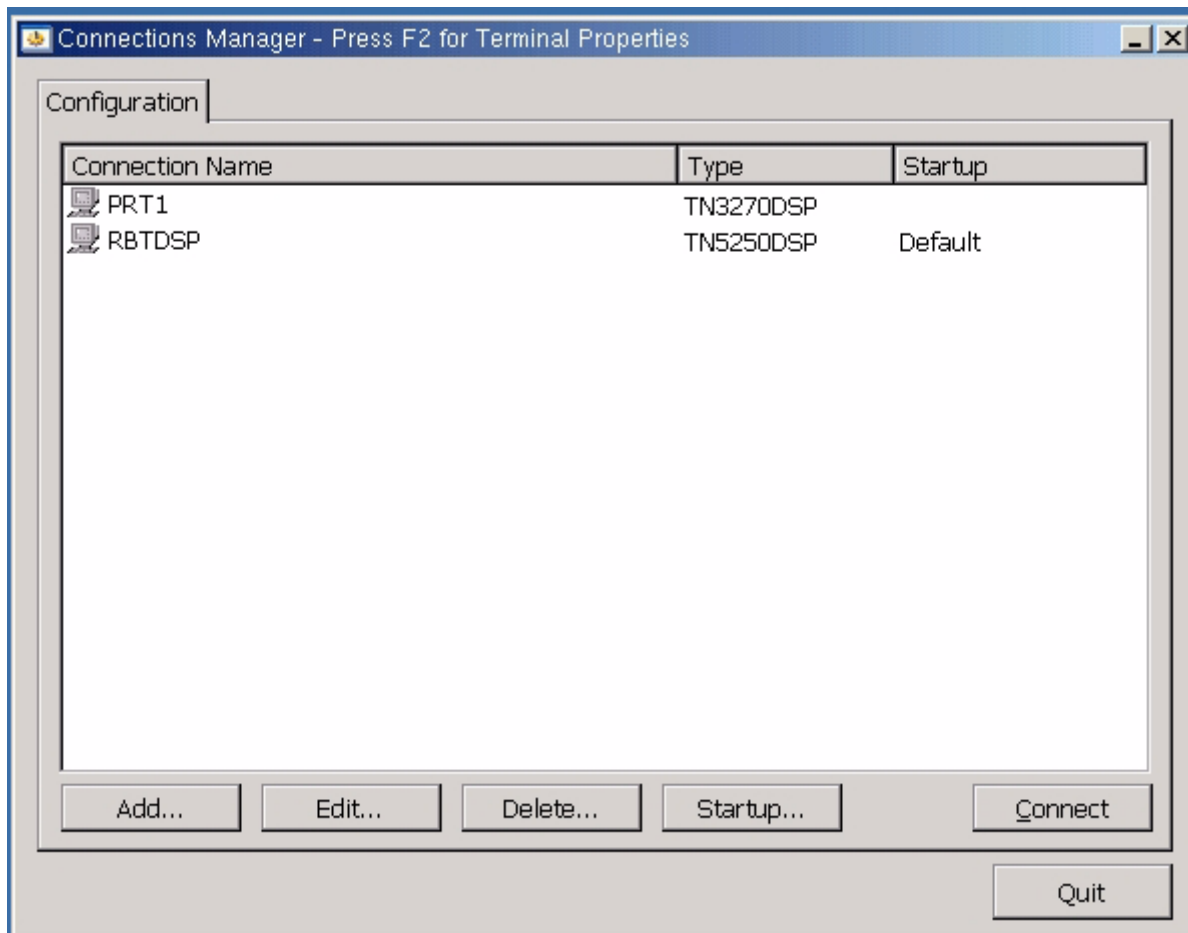
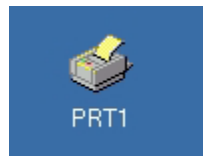
< Back Finish Cancel

Select the printer driver closest related to the attached printer.

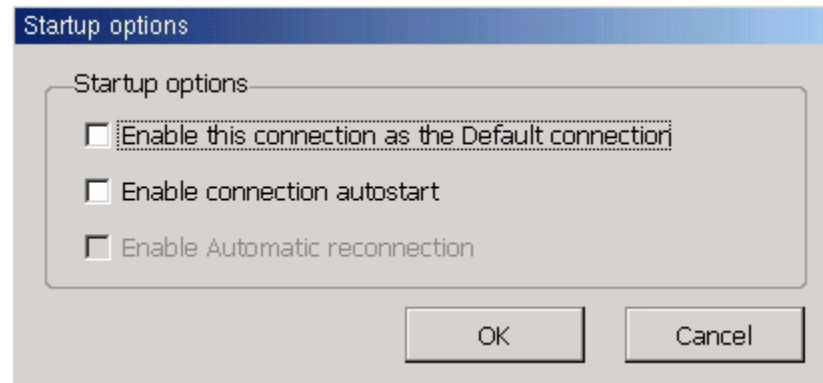


If unsure of the printer driver, try Generic\Text Only and/or use Host Print Transform in the Advanced tab.

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.



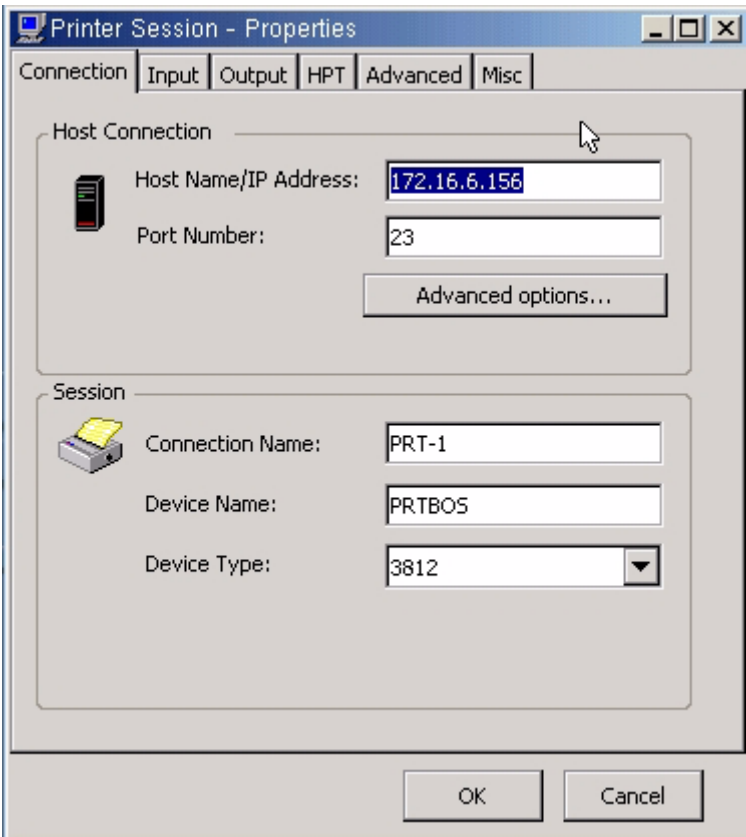
To start a session on startup, highlight the session in the connection manager and select the startup option at the bottom of the screen.



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 image shows the 'Printer Session - Properties' dialog box with the 'Connection' tab selected. The 'Host Connection' section contains a 'Host Name/IP Address' field with the value '172.16.6.156' and a 'Port Number' field with the value '23'. There is an 'Advanced options...' button below these fields. The 'Session' section contains a 'Connection Name' field with the value 'PRT-1', a 'Device Name' field with the value 'PRTBOS', and a 'Device Type' dropdown menu with the value '3812'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Printer Session - Properties

Connection Input Output HPT Advanced Misc

Host Connection

Host Name/IP Address: 172.16.6.156

Port Number: 23

Advanced options...

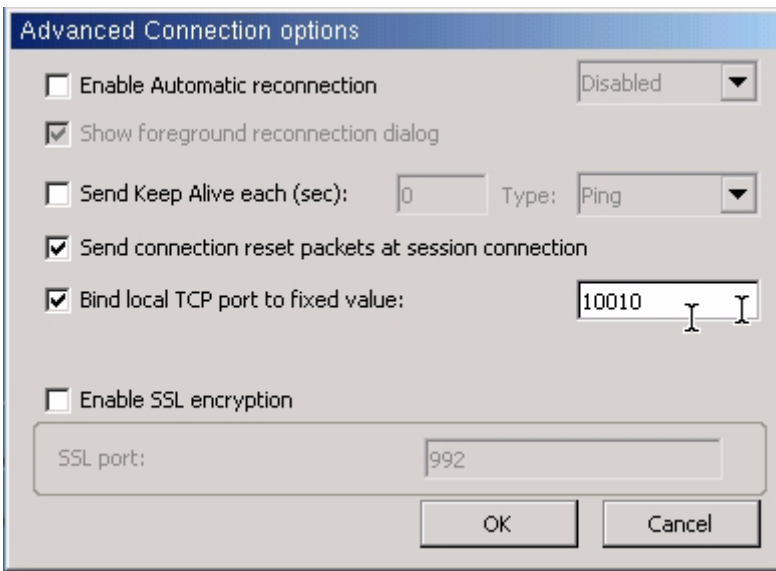
Session

Connection Name: PRT-1

Device Name: PRTBOS

Device Type: 3812

OK Cancel



The image shows the 'Advanced Connection options' dialog box. It contains several checkboxes and fields. The 'Enable Automatic reconnection' checkbox is unchecked, and the 'Show foreground reconnection dialog' checkbox is checked. The 'Send Keep Alive each (sec):' field has the value '0', and the 'Type:' dropdown menu has the value 'Ping'. The 'Send connection reset packets at session connection' checkbox is checked. The 'Bind local TCP port to fixed value:' checkbox is checked, and the field next to it has the value '10010'. The 'Enable SSL encryption' checkbox is unchecked. The 'SSL port:' field has the value '992'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Advanced Connection options

☐ Enable Automatic reconnection Disabled

☒ Show foreground reconnection dialog

☐ Send Keep Alive each (sec): 0 Type: Ping

☒ Send connection reset packets at session connection

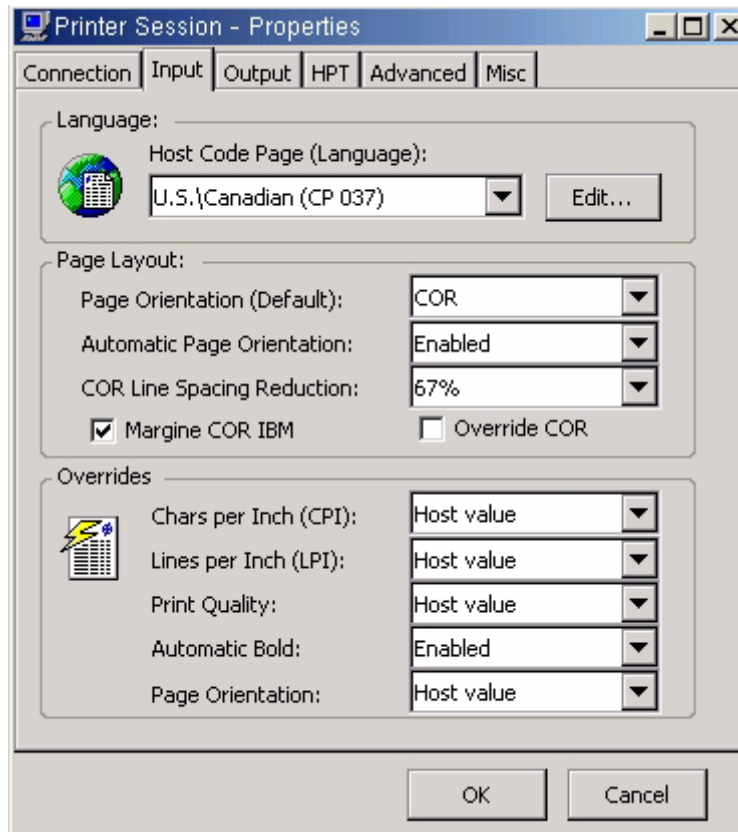
☒ Bind local TCP port to fixed value: 10010

☐ Enable SSL encryption

SSL port: 992

OK Cancel

## Printer Session - Properties - Input Tab



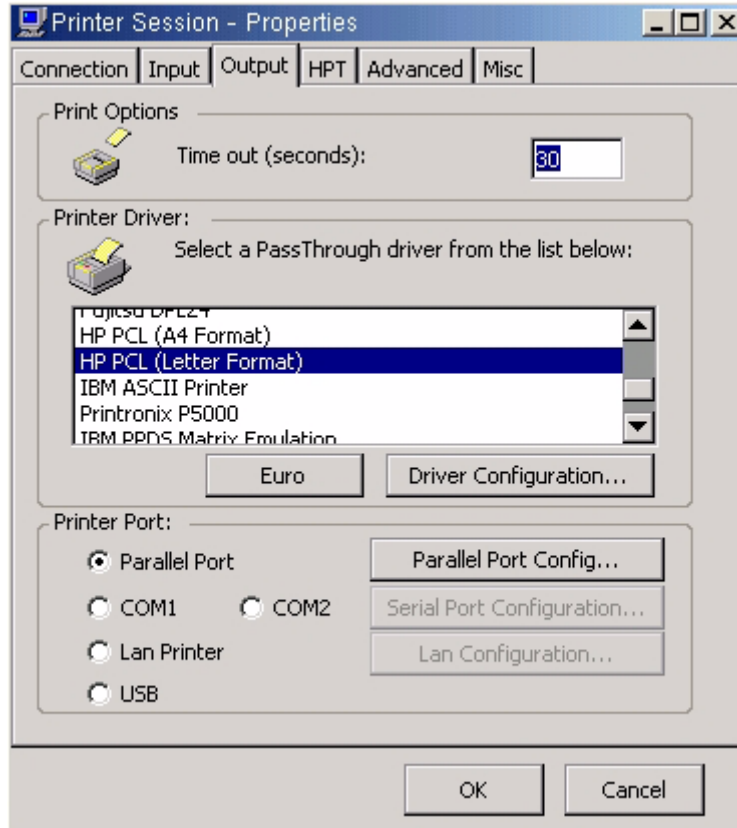
Computer output reduction (COR) automatically takes standard reports on computer paper and reduces them to fit on 8-1/2 by 11 inch paper. COR is designed to handle reports created at 66 lines per page and 132 print positions per line.

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

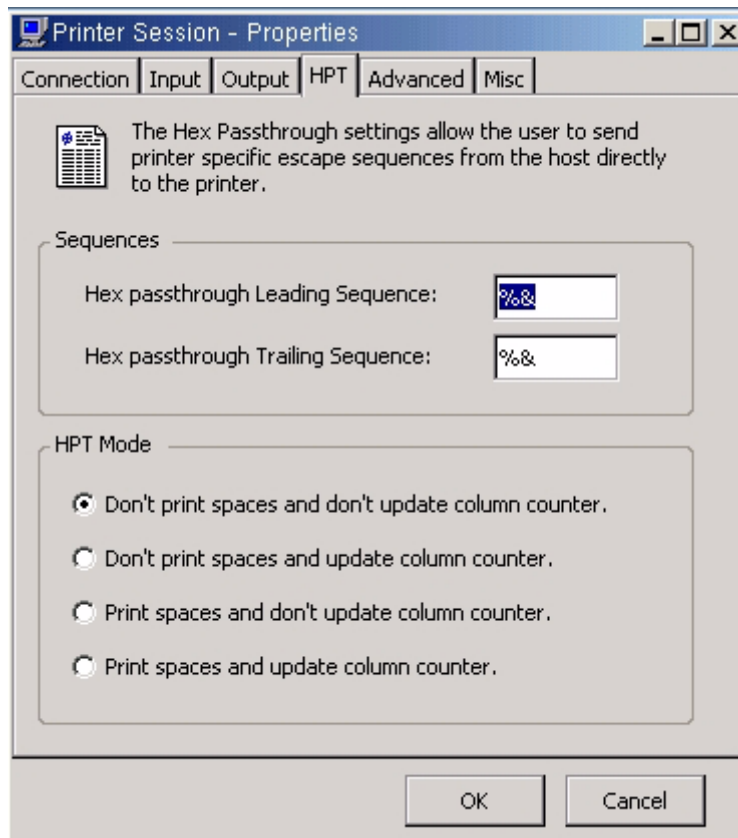
The printer driver seen here will be the printer driver selected when the printer session wizard was run.



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.

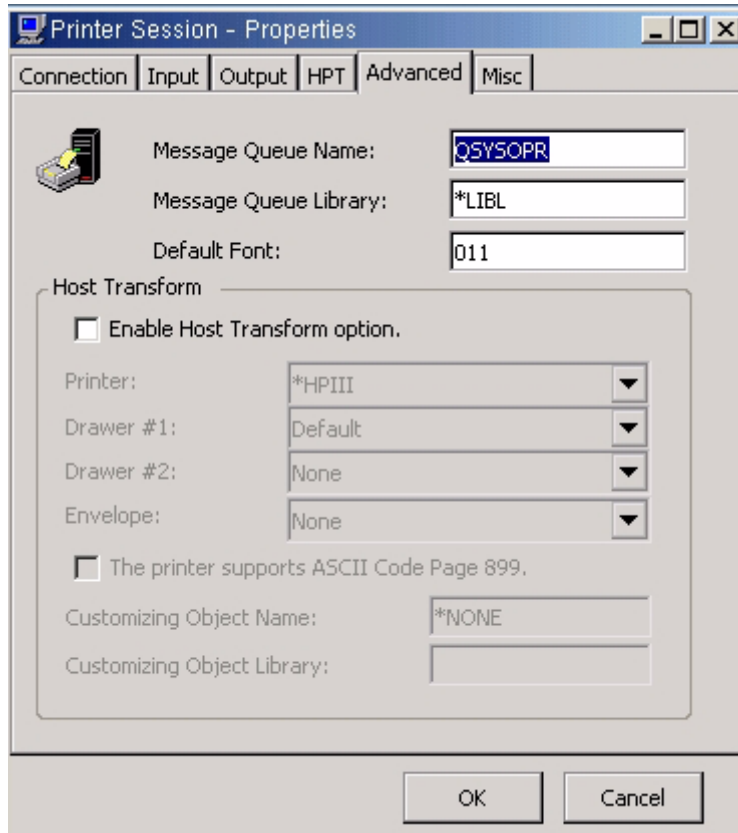
The "special" delimiting sequences depend on the application and may / are different.

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



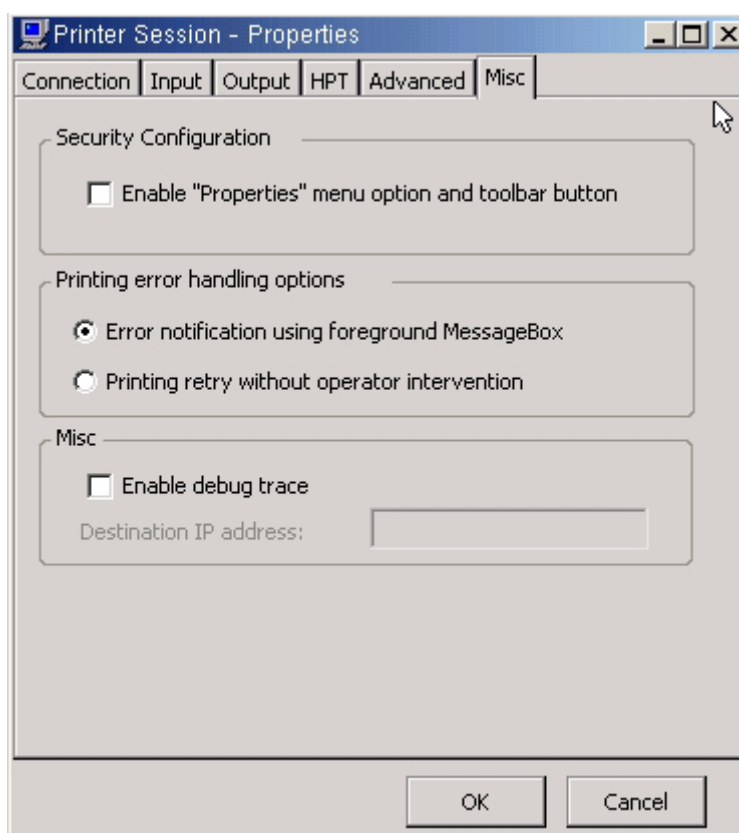
## Printer Session - Properties - Advanced Tab

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.

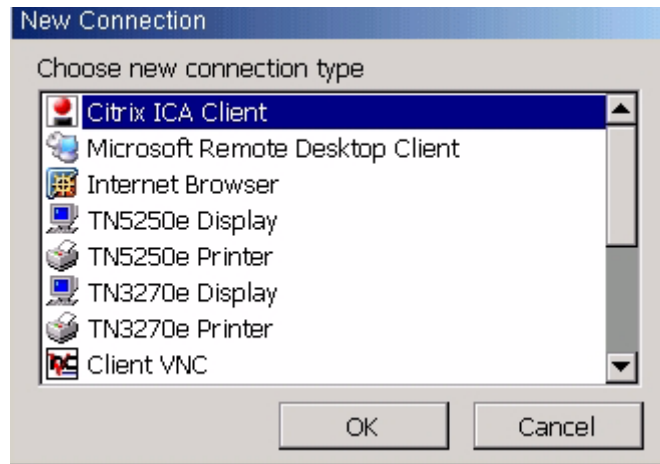
## Printer Session - Properties - Misc Tab



# CITRIX ICA CLIENT

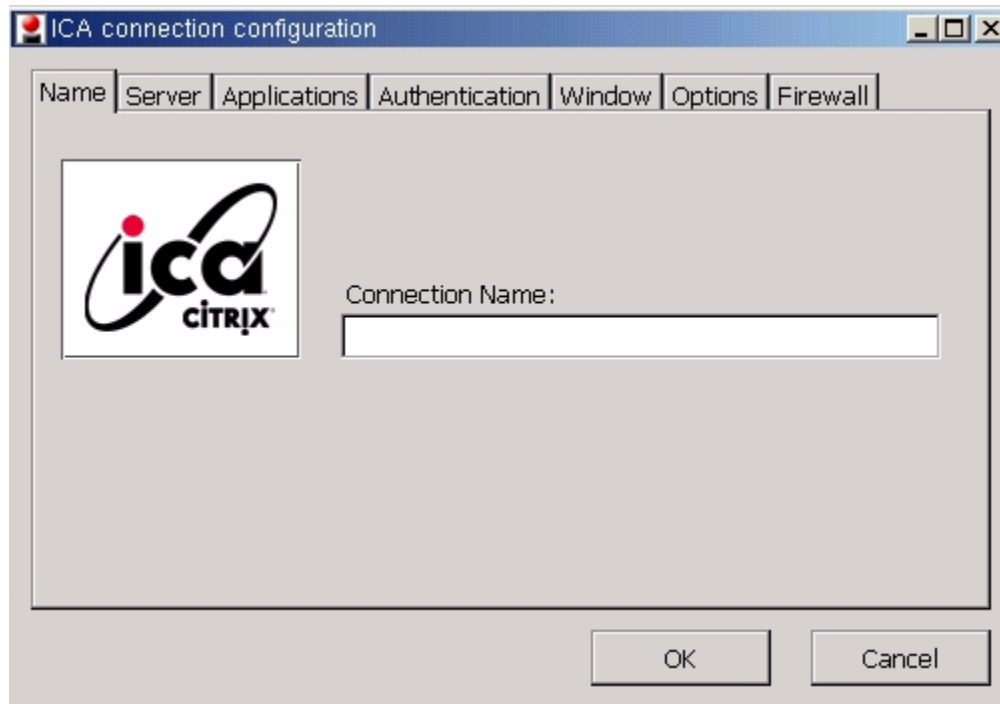
From the connections manager select add and choose Citrix ICA Client from the drop down list.

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.



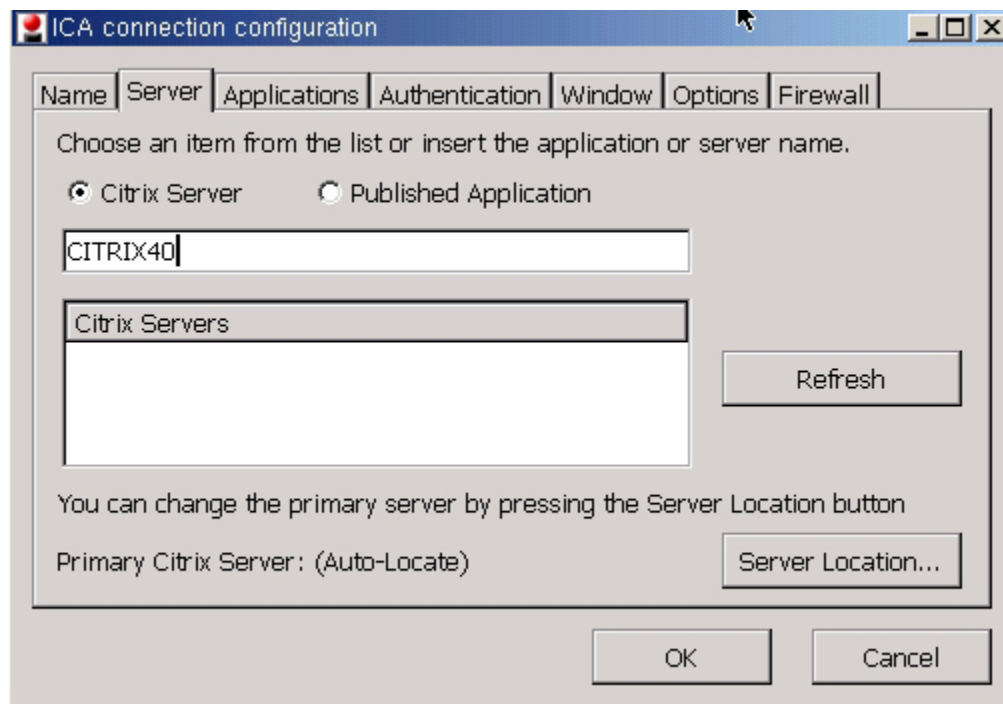
## ICA Connection Configuration Name Tab

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.

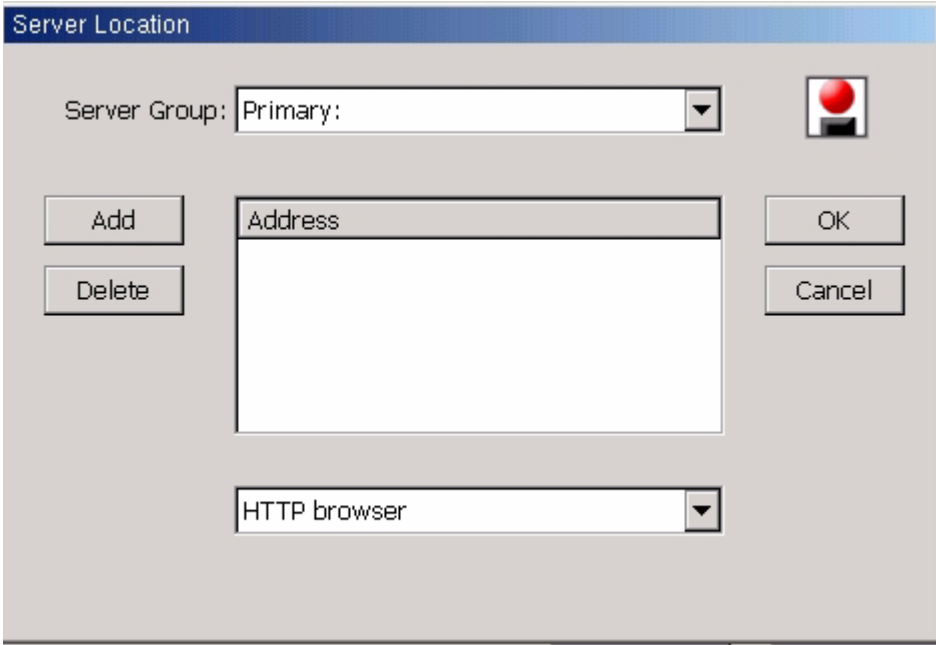


The screenshot shows a window titled "ICA connection configuration" with a tabbed interface. The "Server" tab is selected. The window contains the following elements:

- Tab bar: Name, **Server**, Applications, Authentication, Window, Options, Firewall.
- Instruction: "Choose an item from the list or insert the application or server name."
- Radio buttons: ☒ Citrix Server, ☐ Published Application.
- Text input field: Contains "CITRIX40".
- List box: Labeled "Citrix Servers", currently empty.
- Refresh button: Located to the right of the list box.
- Text: "You can change the primary server by pressing the Server Location button".
- Text: "Primary Citrix Server: (Auto-Locate)".
- Server Location... button: Located to the right of the primary server text.
- OK and Cancel buttons: Located at the bottom right of the window.

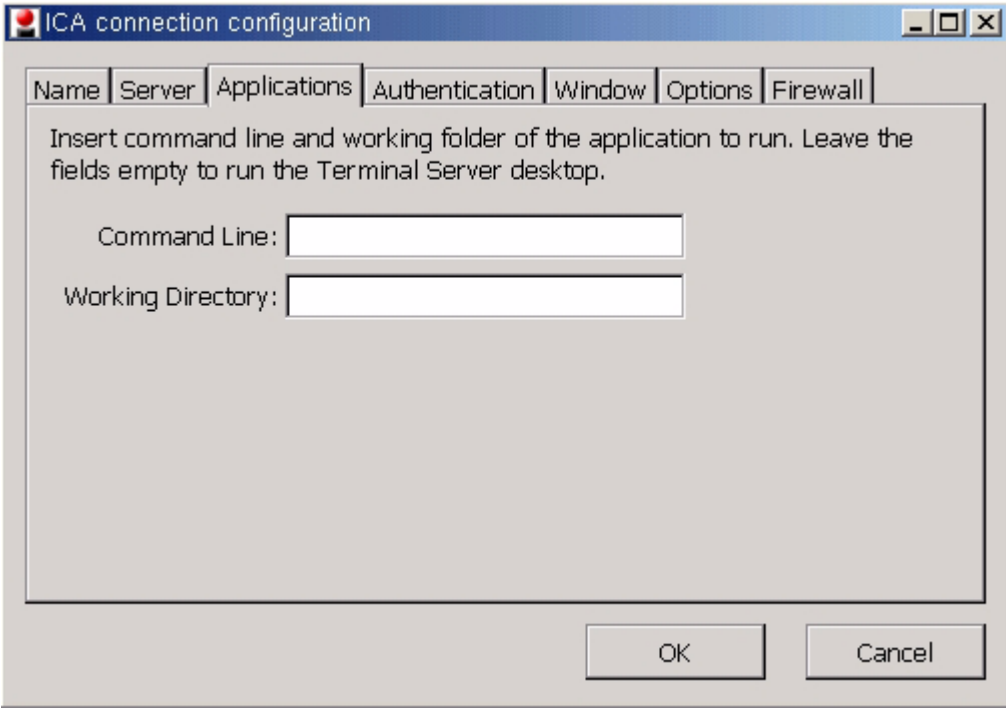
Select Server Location to set multiple locations of Citrix servers.

Add or Delete server information.



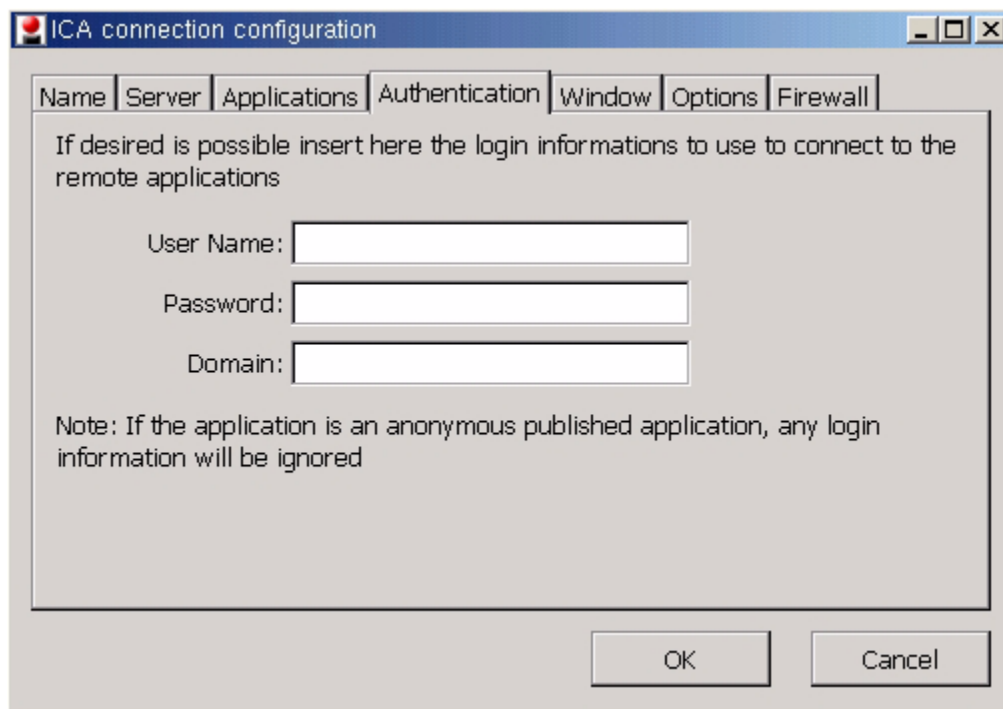
The **Server Location** dialog box is used to manage server information. It features a **Server Group** dropdown menu currently set to **Primary**. To the right of this menu is a red circular icon. Below the dropdown are **Add** and **Delete** buttons. In the center is a large **Address** text area. To the right of the address area are **OK** and **Cancel** buttons. At the bottom is another dropdown menu currently set to **HTTP browser**.

## ICA Connection Configuration Applications Tab



The **ICA connection configuration** dialog box has several tabs: **Name**, **Server**, **Applications** (which is the active tab), **Authentication**, **Window**, **Options**, and **Firewall**. The **Applications** tab contains the following text: "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 right of the dialog are **OK** and **Cancel** buttons.

## ICA Connection Configuration Authentication Tab



ICA connection configuration

Name | Server | Applications | **Authentication** | Window | Options | Firewall

If desired is possible insert here the login informations to use to connect to the remote applications

User Name:

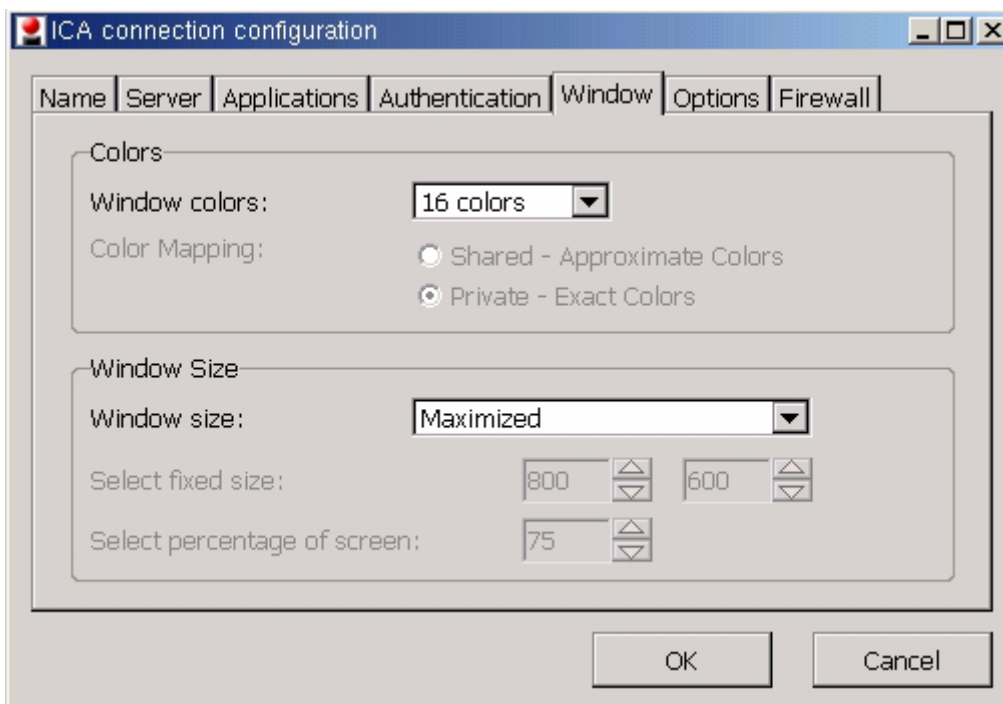
Password:

Domain:

Note: If the application is an anonymous published application, any login information will be ignored

OK Cancel

## ICA Connection Configuration Window Tab



ICA connection configuration

Name | Server | Applications | Authentication | **Window** | Options | Firewall

Colors

Window colors:

Color Mapping: ☐ Shared - Approximate Colors ☒ Private - Exact Colors

Window Size

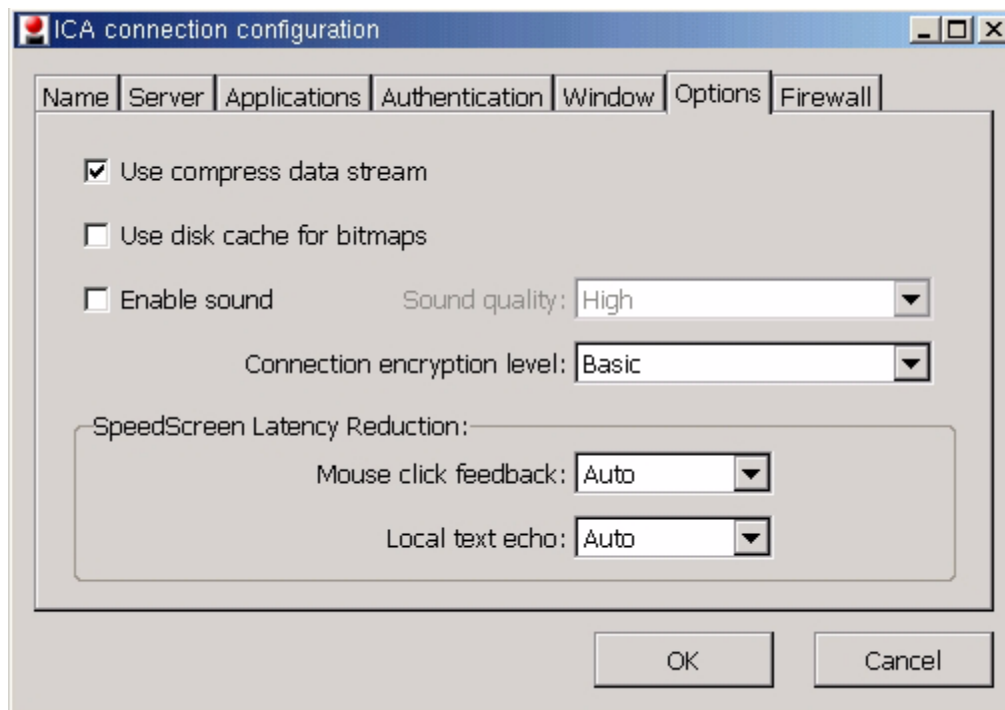
Window size:

Select fixed size:

Select percentage of screen:

OK Cancel

## ICA Connection Configuration Options Tab



The screenshot shows the 'ICA connection configuration' dialog box with the 'Options' tab selected. The 'Name' tab is also visible. The 'Options' tab contains several settings: 'Use compress data stream' is checked, 'Use disk cache for bitmaps' is unchecked, 'Enable sound' is unchecked with a 'Sound quality' dropdown set to 'High', and 'Connection encryption level' is set to 'Basic'. A 'SpeedScreen Latency Reduction' section contains 'Mouse click feedback' and 'Local text echo', both set to 'Auto'. 'OK' and 'Cancel' buttons are at the bottom.

ICA connection configuration

Name Server Applications Authentication Window Options Firewall

☒ Use compress data stream

☐ Use disk cache for bitmaps

☐ Enable sound      Sound quality: High

Connection encryption level: Basic

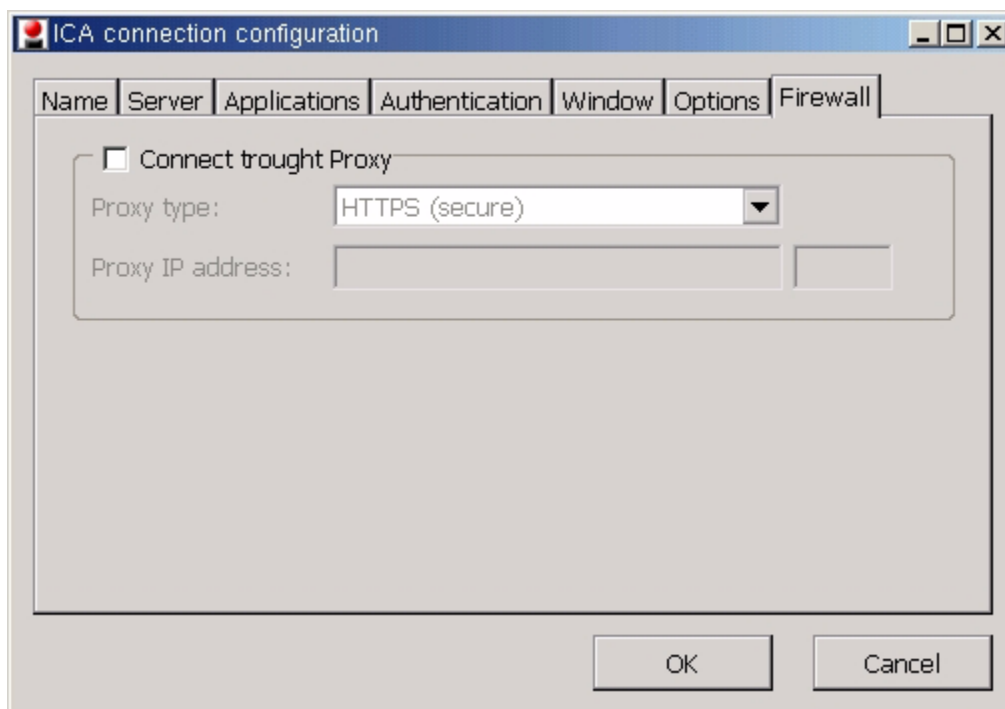
SpeedScreen Latency Reduction:

Mouse click feedback: Auto

Local text echo: Auto

OK Cancel

## ICA Connection Configuration Firewall Tab



The screenshot shows the 'ICA connection configuration' dialog box with the 'Firewall' tab selected. The 'Options' tab is also visible. The 'Firewall' tab contains a 'Connect through Proxy' section with a checkbox that is unchecked. Below the checkbox, 'Proxy type' is set to 'HTTPS (secure)' and 'Proxy IP address' is empty. 'OK' and 'Cancel' buttons are at the bottom.

ICA connection configuration

Name Server Applications Authentication Window Options Firewall

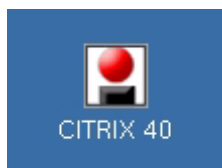
☐ Connect through Proxy

Proxy type: HTTPS (secure)

Proxy IP address:

OK Cancel

An ICON will be created on the desktop.



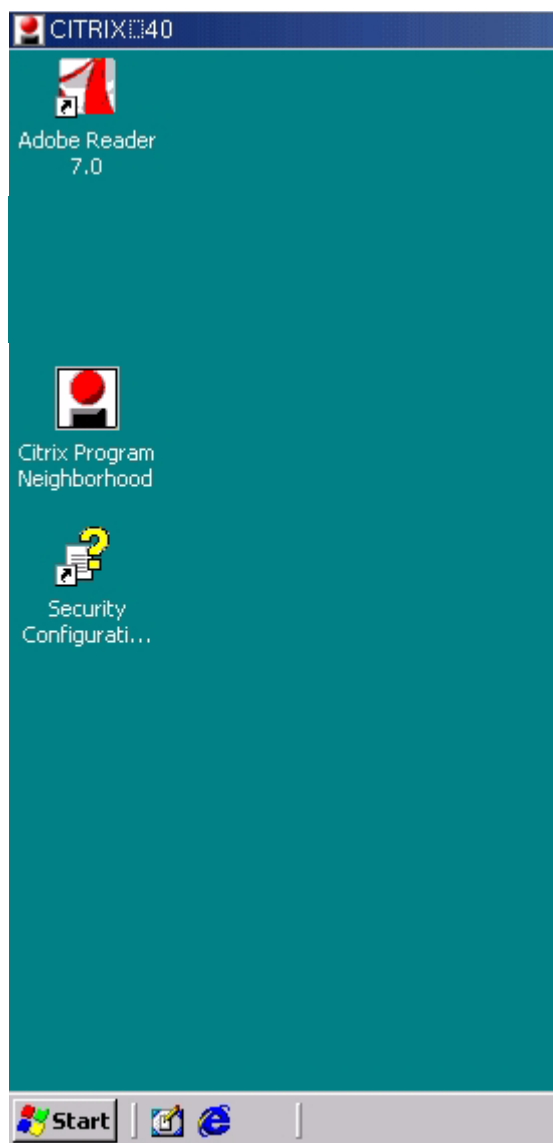
Double click ICON to start CITRIX session or from the connection manager highlight the session and select connect.

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

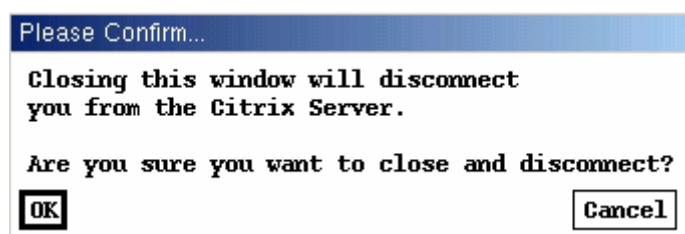




Credentials will be verified and if passed successfully, the Citrix Session will be presented.



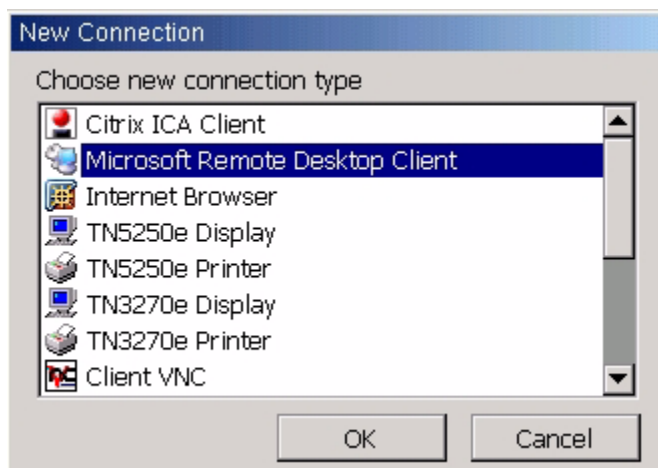
To close the session when minimized, right click on session in taskbar and select close. A message confirming the close will be presented.



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

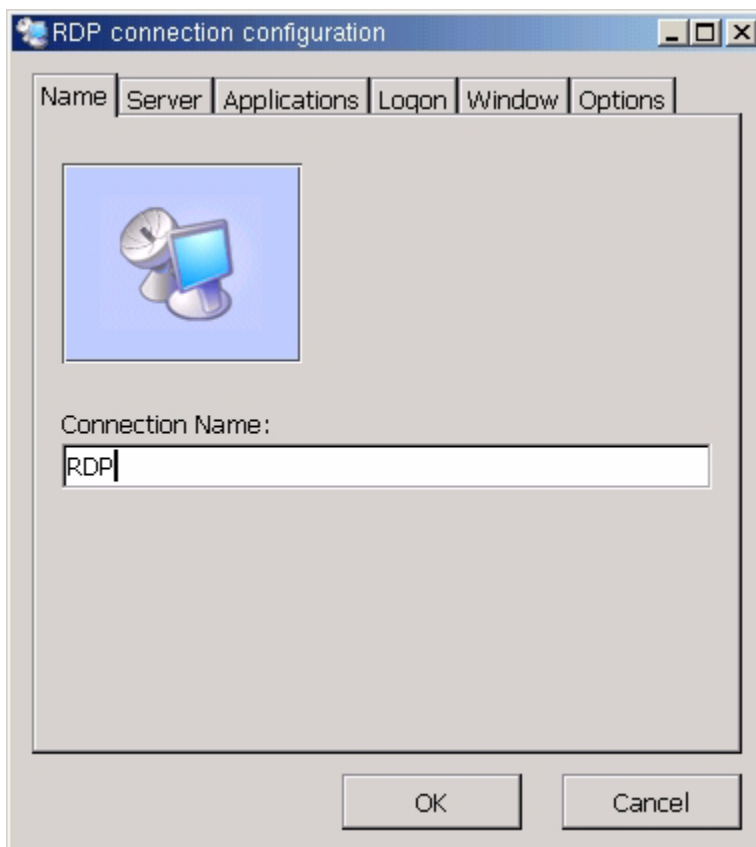
# Microsoft Remote Desktop Client

Select to add a new connection type.



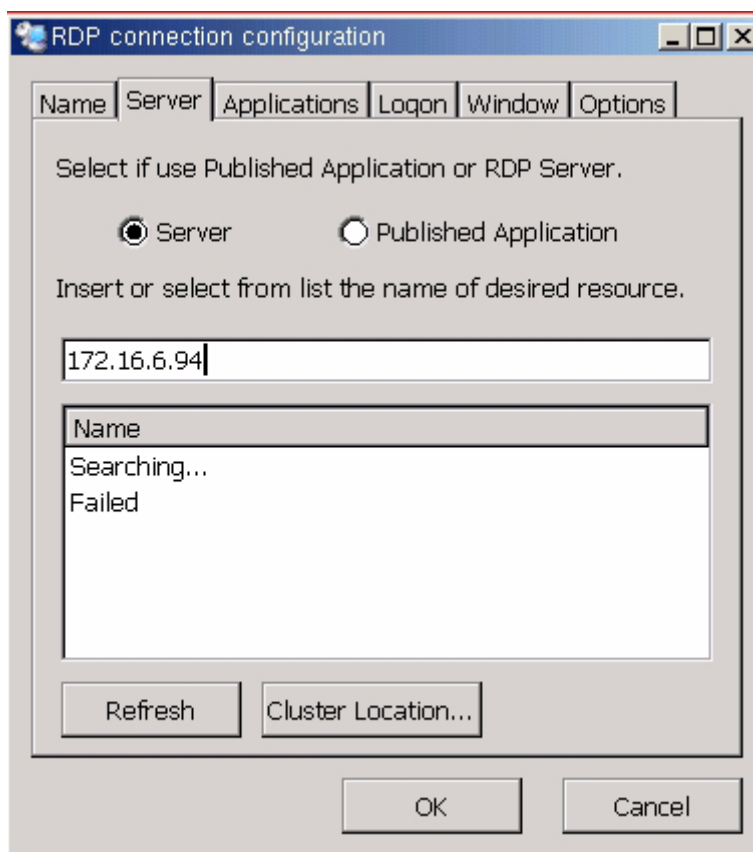
## RDP Connection Configuration - Name Tab

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.



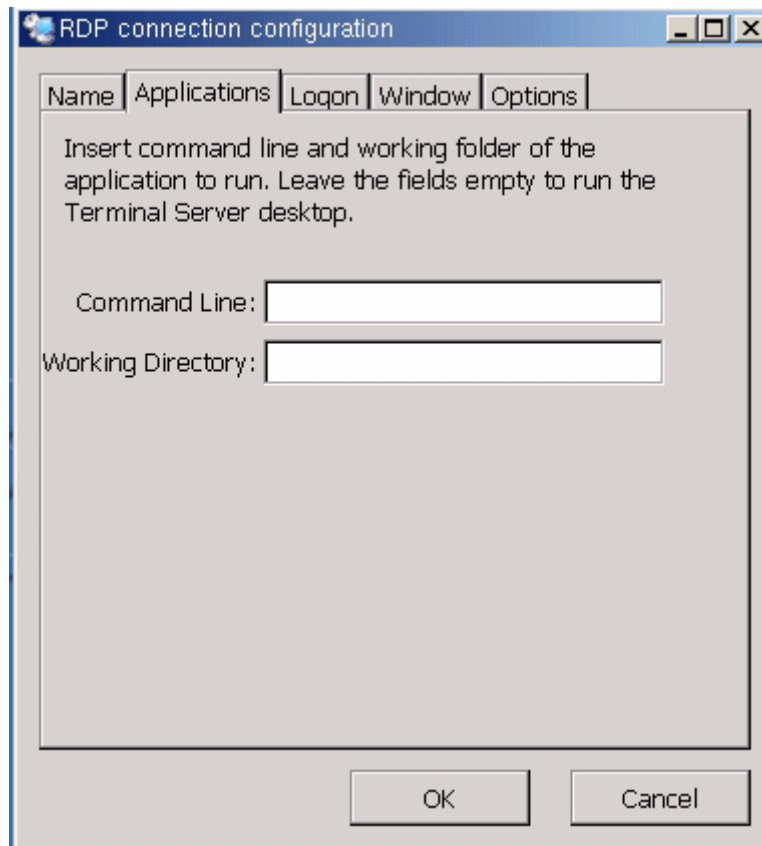
The screenshot shows the 'RDP connection configuration' dialog box with the 'Server' tab selected. The dialog has a title bar with standard Windows window controls. Below the title bar is a tabbed interface with tabs for 'Name', 'Server', 'Applications', 'Logon', 'Window', and 'Options'. The 'Server' tab is active, displaying the following content:

- A label: 'Select if use Published Application or RDP Server.'
- Two radio buttons: 'Server' (selected) and 'Published Application'.
- A label: 'Insert or select from list the name of desired resource.'
- A text input field containing '172.16.6.94'.
- A list box with a header 'Name' and two entries: 'Searching...' and 'Failed'.
- Two buttons: 'Refresh' and 'Cluster Location...'.

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

## 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.

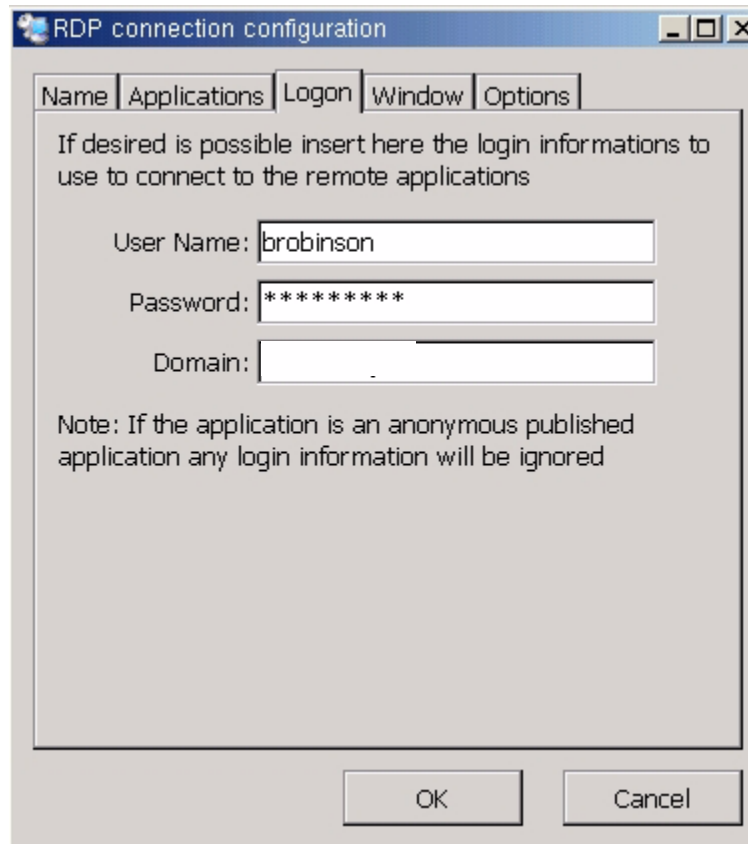


The image shows a screenshot of the 'RDP connection configuration' dialog box, specifically the 'Applications' tab. The dialog box has a title bar with the text 'RDP connection configuration' and standard window controls. Below the title bar, there are five tabs: 'Name', 'Applications' (which is selected), 'Logon', 'Window', and 'Options'. The main area of the dialog contains the following text: 'Insert command line and working folder of the application to run. Leave the fields empty to run the Terminal Server desktop.' Below this text, there are two input fields: 'Command Line:' and 'Working Directory:'. At the bottom of the dialog, there are two buttons: 'OK' and 'Cancel'.

## 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.

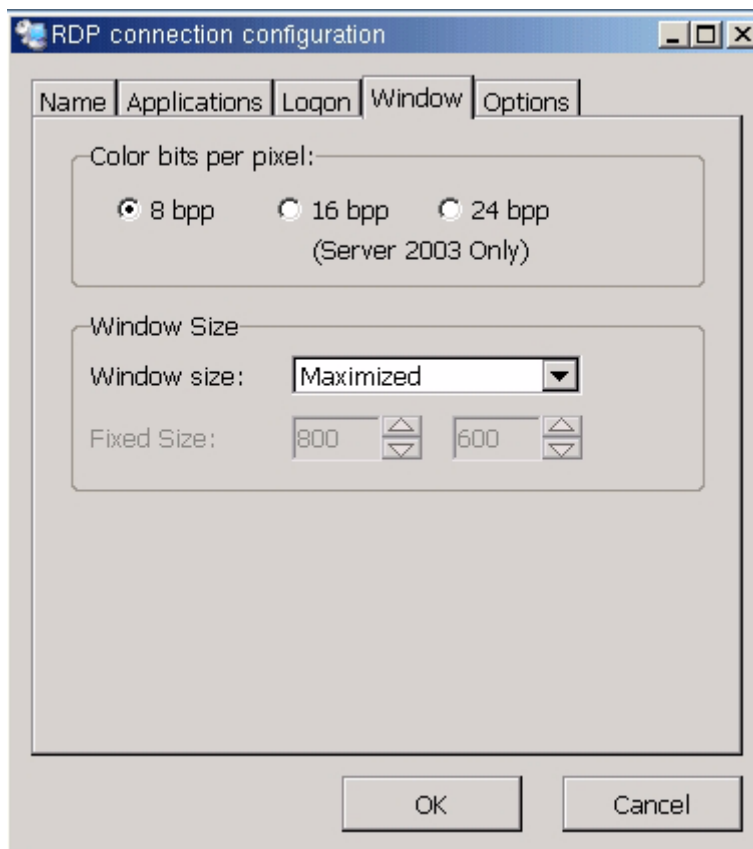


The screenshot shows the 'RDP connection configuration' dialog box with the 'Logon' tab selected. The dialog has five tabs: 'Name', 'Applications', 'Logon', 'Window', and 'Options'. The 'Logon' tab contains the following text: 'If desired is possible insert here the login informations to use to connect to the remote applications'. Below this text are three input fields: 'User Name:' with the value 'brobinson', 'Password:' with the value '\*\*\*\*\*', and 'Domain:' with the value '.'. A note at the bottom of the tab states: '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.

Name	Applications	Logon	Window	Options
If desired is possible insert here the login informations to use to connect to the remote applications				
User Name: <input type="text" value="brobinson"/>				
Password: <input type="password" value="*****"/>				
Domain: <input type="text" value="."/>				
Note: If the application is an anonymous published application any login information will be ignored				
<input type="button" value="OK"/> <input type="button" value="Cancel"/>				

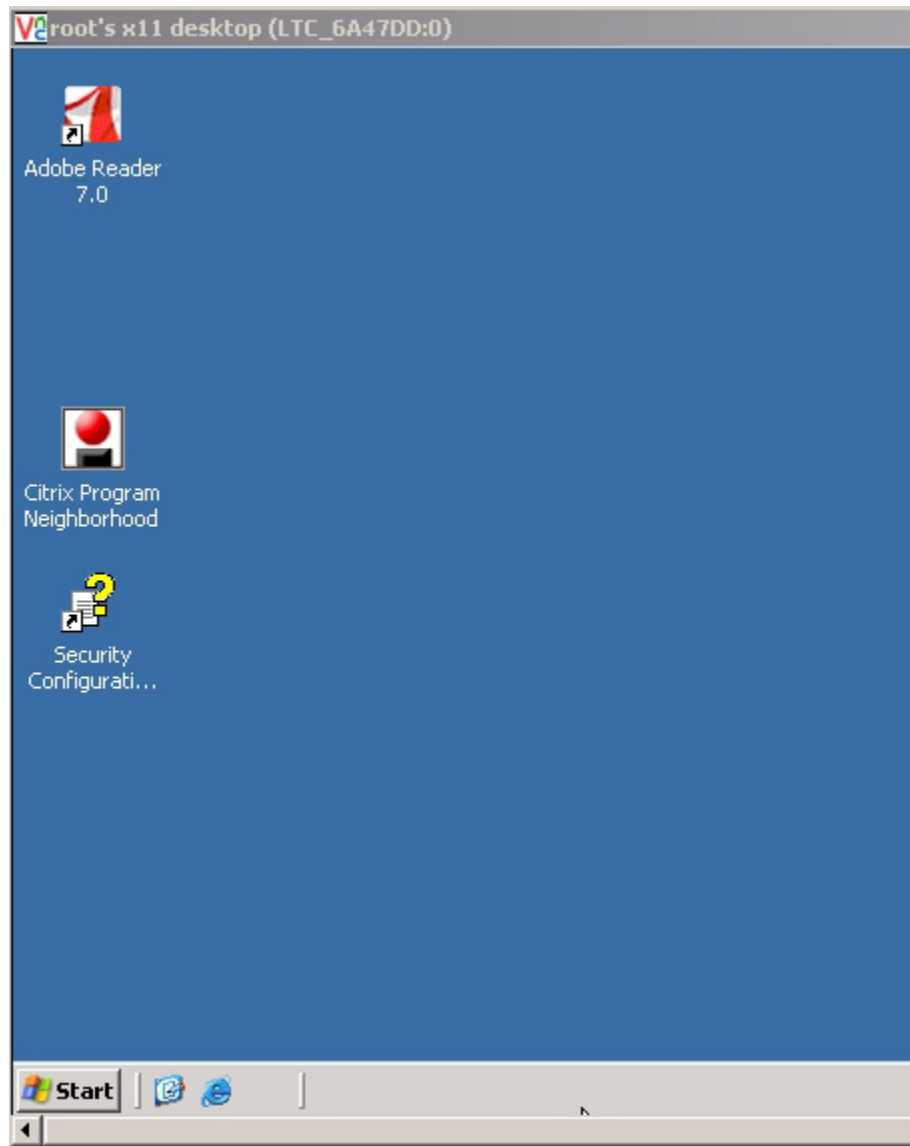
## RDP Connection Configuration - Window Tab

Enter the RDP session desktop settings.



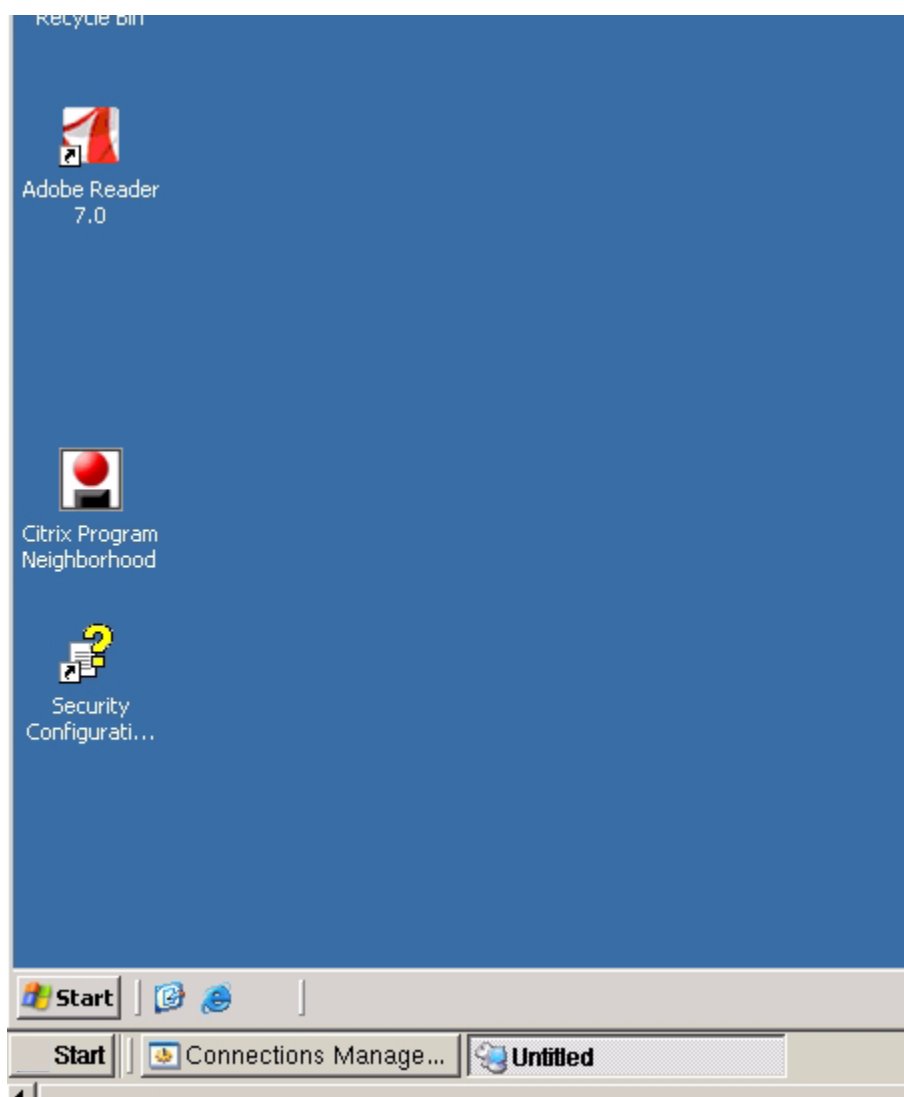
## Window Size:

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.





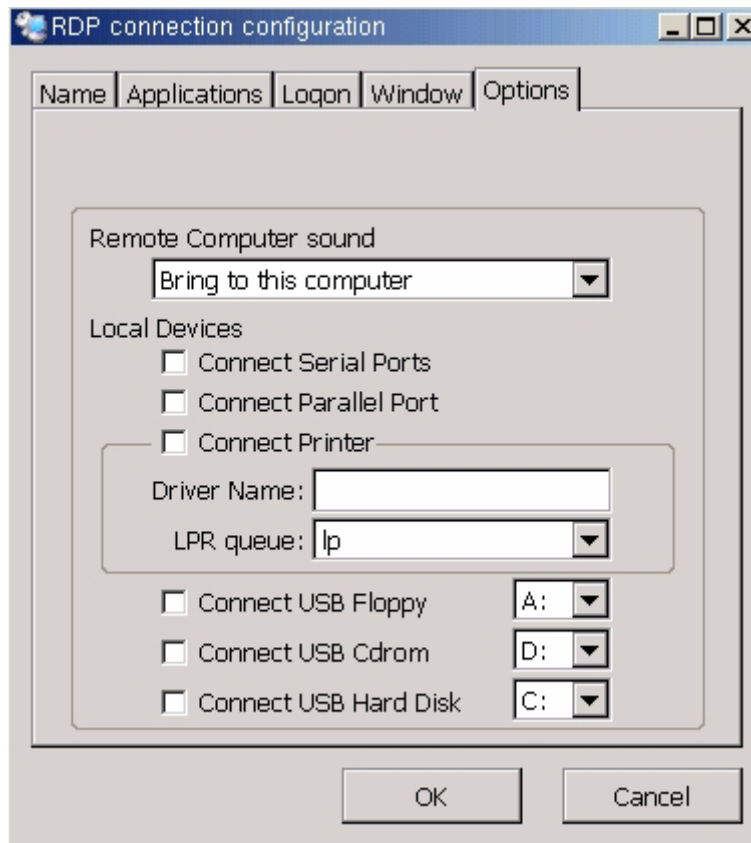
Maximized mode maximizes the RDP desktop but leaves the thin client toolbar visible underneath it.



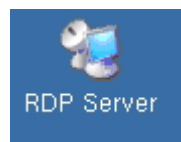
**NOTE:** The greater the color depth, the more bandwidth the connection will use.

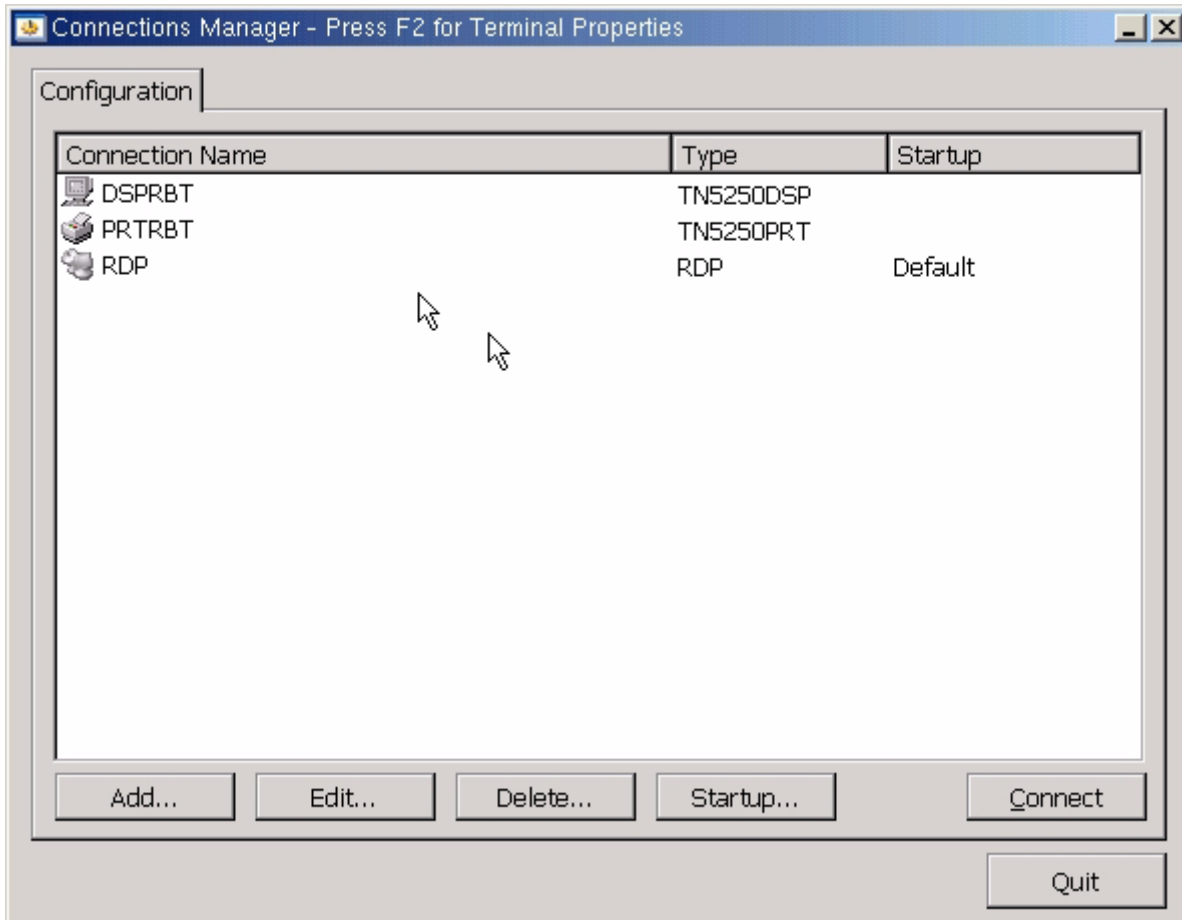
## RDP Connection Configuration - Options Tab

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



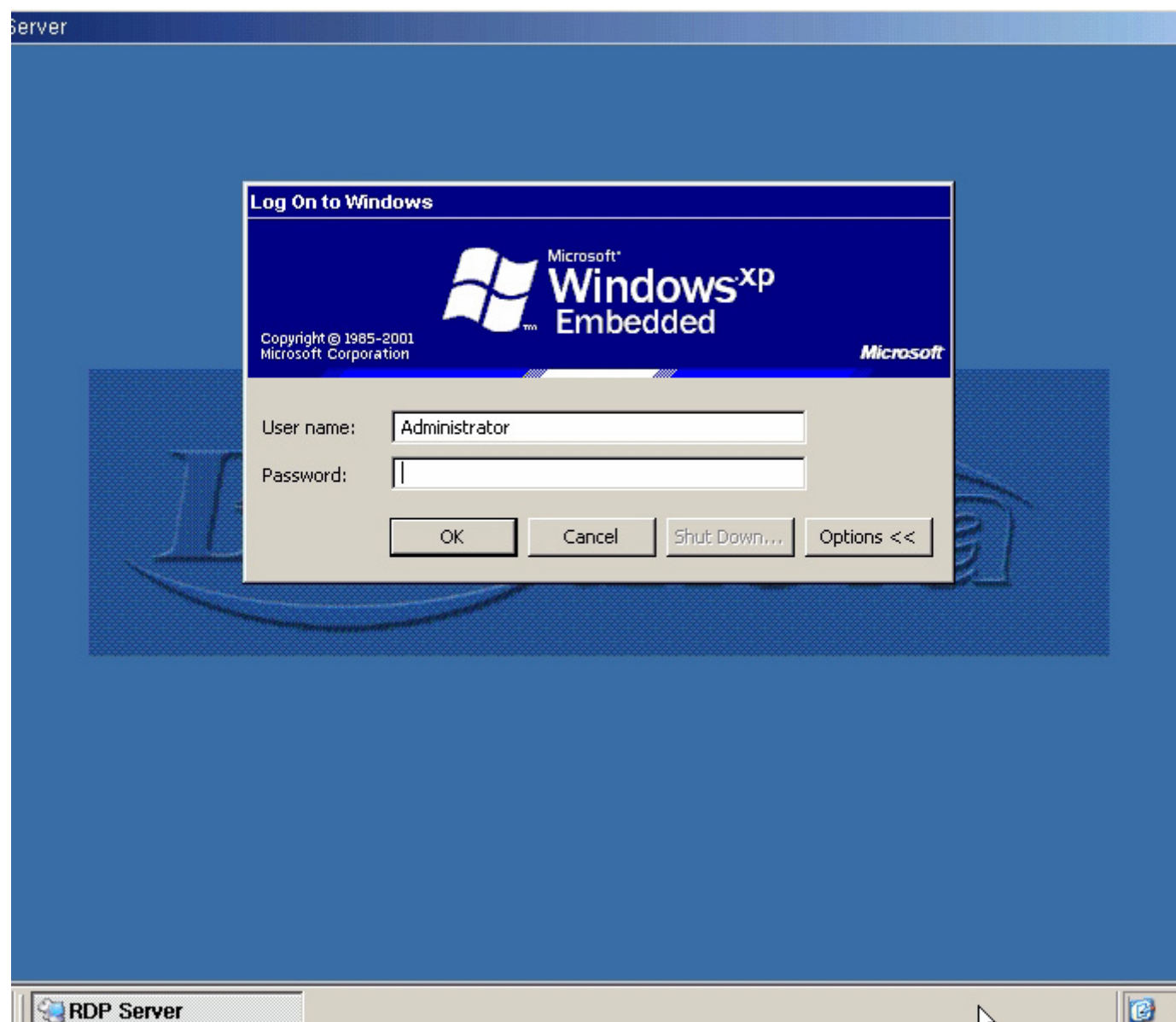
An ICON will be created on the desktop and a connection will be added to the connection manager.





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			

Client Side Software	
	<b>RBT-366</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.

Server Side Software	
	<b>RBT-366</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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