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PRODUCT DESCRIPTION

The 10ZiG LTC Series of thin clients provides a powerful, simple, and affordable solution to desktop computing. The 10ZiG LTC 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 manager, which enables the following tasks:

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

INTRODUCTION TO CONFIGURATION

The 10ZiG LTC thin clients support five modes of operation:

Desktop – Windows XP look & feel (recommended!)
WBT – Windows Based Terminal (supporting full-screen only)
KIOSK – Restricted desktop that limits access to a specific connection.
TBT Mode - Text Based Terminal Mode
XDM Mode
CONFIGURING THE 10ZiG LTC

Upon first boot the wizard runs to set initial configuration
Setup Wizard

IP Address

Network Settings would be obtained from a local DHCP server. To use these settings press the button "Next". Otherwise, press "No" to configure the Network settings manually.

- Yes, I will use the DHCP settings.
- No, I will enter static network settings.

<Back  Next>  Cancel

Setup Wizard

Desktop Area and Refresh Frequency

Please choose the correct combination of Resolution and Refresh Frequency from this list.

Desktop Area and Refresh Frequency

- 800x600 - 60 Hz (4:3)

Color Depth (bits per pixel)

- 16 bpp
- 24 bpp

<Back  Next>  Cancel
Once the configuration wizard has finished, configuration of 10ZiG LTC Thin Client Linux terminals is accomplished by launching the Terminal Configuration Utility from the main toolbar by selecting Start-Settings Terminal Properties.

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

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

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

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

The terminal name can be changed by modifying the Terminal Name field.
If you do not have a DHCP server on the network, the IP address and gateway must be set manually.

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.

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.

**NOTE:** Some models come with an internal 802.11b/g wireless option

Select Wireless Parameters
Enter the Network Name (SSID)

To use WEP:

Check to Enable Encrypting and select the Encryption Model and enter the Hex or ASCII key configured in the wireless router.
Once configured correctly and connected to the network the signal strength will show on the network tab.
Terminal Properties – Input Tab

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

Enable numlock at startup is checked by default, to disable, uncheck.
Mouse Type options below:

Mouse type must be selected correctly or the keyboard may not respond as expected. The default is type PS/2. If no mouse is to be used, the No Mouse type must be selected by either using the BOSmanager to configure or by using a mouse, applying the change and then removing the mouse.
System Language options below:
Terminal Properties – Display Tab

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.

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.

Terminal Modality

There are five modes for the Window Manager, the WBT mode, the KIOSK mode, the Desktop mode, the TBT Mode and the XDM mode. The WBT, or Windows Based Terminal mode, only allows the user to launch predefined applications; these applications may include RDP, 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. The TBT mode is text based only (dumb terminal). The XDM mode is used with an X Windows System. All available programs loaded on the terminal are present on the start menu in this mode. Once the configuration is complete, the Terminal Properties can be hidden using the Security Tab.
Full Desktop mode, there are a number of features shown on the task bar which may be enabled or disabled. These include the clock, the CPU load, the network load, and the virtual desktop. Additionally the taskbar position may be at the bottom or right. The taskbar also has an auto hide feature.

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

KIOSK mode is a user restricted mode.

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

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

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

To use the XDM client, check Remote Window Manager - XDM - select the protocol and enter the IP of the XDM server.
When you select the Remote Window Manager - XDM Parameters are presented:

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

Add a new Internet Browser connection
Enter a connection name

Set the Initial Page and check to Enable Kiosk Mode and check to Hide the Address, Navigation and Status bars. Screen appearance.
From the connections manager highlight the browser connection 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 select Terminal Modality and check KIOSK mode.
Terminal will reboot and immediate execute the browser application.
Screen Appearance

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`

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

![Choose background col.](image)

Desktop Properties

If a share has been defined in the Control Panel, check the Show User Partition for the share ICON to appear on the desktop check the Permit to Write to allow the user to write to the Partition.

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

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

![Desktop Properties](image)
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.
<table>
<thead>
<tr>
<th>Package</th>
<th>Installed</th>
<th>Dim inst</th>
<th>Available</th>
<th>Dim upgr</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOS Kernel and RootFS (DoM)</td>
<td>6.17.11</td>
<td>---</td>
<td>2007040</td>
<td></td>
</tr>
<tr>
<td>Thin Manager Tools</td>
<td>3.0.1</td>
<td>811008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CompuMaster CrossRun Client</td>
<td>1.0.1</td>
<td>618496</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FireFox 2.0.0.1</td>
<td>2.0.1</td>
<td>13021184</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrix ICA Program Neighborhood Agent</td>
<td>1.0.0</td>
<td>21020672</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Java Virtual Machine (Sun)</td>
<td>1.42.2</td>
<td>442368</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TrueType Fonts</td>
<td>1.0.0</td>
<td>1101824</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X Remote Desktop</td>
<td>1.0.0</td>
<td>1000040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acrobat Reader 5</td>
<td>1.0.10</td>
<td>2494464</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Used space: 115203072
Free space: 0
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 LTC thin client support CUPS, a common UNIX printing system. It is aimed at providing a common printing interface across a local network, masking differences among the printing systems on each computer. CUPS provides interactivity with SMB and Windows printers.

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

Select **Add Printer**.
Adding a Local Printer

Welcome to the Add Printer Wizard

This wizard helps you to install a printer or make printer connections.

- Select local or network printer
- Select local port or protocol
- Select printer driver
- Choose printer name
- Choose type of share
- Print test page

To continue, click Next.

Select the option that describes the printer you want to use:

- Local printer attached to this thin client
- A network printer, or a printer attached to another computer
Although the unit may have multiple USB ports, only one USB printer connection can defined.
Add Printer Wizard

Name Your Printer
You must assign a name to this printer.

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

Printer name:

CUPS name:

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

- Yes
- No

Add Printer Wizard

Printer Sharing
You can share this printer with other network users.

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

- Do not share this printer

Share with SMB protocol:
Samba name:

Share with LPD/LPR protocol:
Queue name:

Share with RAW protocol:
Port: 9100

< Back Next > Cancel
Queue name must be the same on the Printers tab and in the Network printer configuration.

Export for Terminal Server

You can export this printer on Terminal Server

Export this printer on Terminal Server:

RDP or ICA

- [ ] RDP
- [ ] ICA

Manufacturer:
- [ ] HP

Driver name:
- [ ] Hewlett-Packard HP-GL/2 Plotter
- [ ] Hewlett-Packard HP-GL/2 Plotter

SSGD
- [ ] SSGD

PCL
Add Printer Wizard

Printing Preferences
Set the printing preferences

Paper Size:
- Letter
- Continuous feed
- A4
- Letter
- Legal

Add Printer Wizard

Print Test Page
To confirm that the printer is installed properly, you can print a test page.

Do you want to print a test page?
- Yes
- No
Adding a Network Printer

Select the option that describes the printer you want to use:

- Local printer attached to this thin client
- A network printer, or a printer attached to another computer
To share a local attached printer check associated connection type.

Add Printer Wizard

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

What printer do you want to connect to?

- Connect to this printer (SMB protocol):
  IP/Name: [IP Address]
  Printer name: [Name]

- Connect to this printer (LPD/LPR protocol):
  IP/Name: [IP Address]
  Queue name: [Queue]

- Connect to this printer (RAW protocol):
  IP/Name: [IP Address]
  Port: [Port]

SMB Credentials

Add Printer Wizard

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

What printer do you want to connect to?

- Connect to this printer (SMB protocol):
  IP/Name: [IP Address]
  Printer name: [Name]

- Connect to this printer (LPD/LPR protocol):
  IP/Name: [IP Address]
  Queue name: [Queue]

- Connect to this printer (RAW protocol):
  IP/Name: [IP Address]
  Port: [Port]

SMB Credentials
Add Printer Wizard

Install Local Driver
The manufacturer and model determine which local driver to use.

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

Manufacturers
- Fujitsu
- Generic
- Gestetner
- HP
- Heidelberg
- Hitachi

Models
- HP-LaserJet_4L-jet4
- HP-LaserJet_4M-Postscript
- HP-LaserJet_4M-hpijs
- HP-LaserJet_4M-lj4dith
- HP-LaserJet_4M-ljet4
- HP-LaserJet_4M-ljet4d

HP LaserJet 4M Foomatic/Postscript (recommended) Have Disk

< Back Next > Cancel

Add Printer Wizard

Printer Sharing
You can share this printer with other network users.

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

- Share with SMB protocol: Samba name:
- Share with LPD/LPR protocol: Queue name:
- Share with RAW protocol: Port: 9100

< Back Next > Cancel
Printer Sharing
You can share this printer with other network users.

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

- [ ] Do not share this printer

- [ ] Share with SMB protocol
  - Samba name:

- [ ] Share with LPD/LPR protocol
  - Queue name:

- [ ] Share with RAW protocol
  - Port: 9100

< Back  Next >  Cancel
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 - Control Panel Tab

The Control Panel configuration page allows the configuration of the RDP Global Settings, Cisco VPN Client, Network File System, VNC Shadowing, ICA Global Settings, Sound Configuration, Java Cache, Date & Time, Provision AppPortal, ICA PNAgent, and CrossRun Agent.
RDP Global Settings

Remote desktop size
- Choose the remote desktop size and behaviour.
  - Desktop Size: Maximized
  - Width (pixels): 800
  - Height: 600

Colors
- High Color (16 bit)

Note: Settings on the remote computer might override this setting.

Remote computer sound
- Bring to this computer

Keyboard
- Apply Windows key combinations (for example ALT+TAB)
  - In full screen mode only

Local devices
- Connect automatically to these local devices when logged on to the remote computer:
  - Disk drives
  - Printers
  - Serial ports
  - Smart cards
  - Clipboard
Cisco VPN Client
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.

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

[Image: Client ICA - Global Properties Preferences tab with options for Default Colors and Default 256 Color Mapping]

- Default Colors: 16 colors, 256 colors, 32K colors
- Default 256 Color Mapping: Shared - Approximate Colors, Private - Exact Colors
- Enable Windows Alert Sounds

Hot Keys

[Image: Client ICA - Global Properties Hot Keys tab with a table of key combinations]

<table>
<thead>
<tr>
<th>Key Combination</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alt+F1</td>
<td>Ctrl+Shift F1</td>
</tr>
<tr>
<td>Alt+F2</td>
<td>Ctrl+Shift F2</td>
</tr>
<tr>
<td>Alt+F3</td>
<td>Ctrl+Shift F3</td>
</tr>
<tr>
<td>Alt+F4</td>
<td>Ctrl+Shift F4</td>
</tr>
<tr>
<td>Alt+F5</td>
<td>Ctrl+Shift F5</td>
</tr>
<tr>
<td>Alt+F6</td>
<td>Ctrl+Shift F6</td>
</tr>
<tr>
<td>Alt+F7</td>
<td>Ctrl+Shift F7</td>
</tr>
</tbody>
</table>
ICA Server Location

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

**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.
Advanced

Sound Configuration

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

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

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

NOTE: This feature is not supported on all models.
Date & Time

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

![Date and Time](image)

Provision AppPortal

![Provision AppPortal](image)
ICA PNAgent
Settings

CompuMaster PNAgent Properties

Server URL

Logon mode:

Autostart Options...

OK  Cancel
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.

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 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 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 wizard will auto detect the attached keyboard. If a 10ZiG 122 keyboard is attached, it will default to 122 keys 10ZiG. If a standard 101/102 keyboard is attached it will default to 101 Terminal (right control = enter). For the enter key to be enter using a 101/102 keyboard, select 101 PC.
The connection will appear in the connection manager and an ICON will be placed on the desktop for the session.

To modify the connection, highlight the connection name and select edit.
Display Session Properties - Connection Tab

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

### Display Session Properties

<table>
<thead>
<tr>
<th>Connection</th>
<th>General</th>
<th>Attributes</th>
<th>Hot Spot</th>
<th>Key Pad</th>
<th>Sign On</th>
<th>Advanced</th>
</tr>
</thead>
</table>

#### Host Connection

<table>
<thead>
<tr>
<th>Host Name/IP Address:</th>
<th>172.16.6.156</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Number:</td>
<td>23</td>
</tr>
</tbody>
</table>

Advanced options...

#### Session

<table>
<thead>
<tr>
<th>Connection Name:</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Name:</td>
<td>DSP05</td>
</tr>
<tr>
<td>Device Type:</td>
<td>3477-FC</td>
</tr>
</tbody>
</table>

OK  | 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.

![Advanced Connection options](image)

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: Check to enable - SSL must be configured on the host.

**NOTE:** Currently IBM only supports Telnet NOP as a Keep Alive
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.

![Print-Screen configuration dialog box](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.
Type the ScanCode in the Edit Box or Click over the PC Keyboard keys to see the mapping.
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 TENZIG in the upper right hand of the screen and the macro named signoff will run.
Display Session Properties - Key Pad Tab

This option allows to change the options on the keypad that can be displayed in a 5250 session. You can Add, Edit or Remove commands on the keypad buttons.
Display Keyboard Pad displays at the bottom of the 5250 screen.
Display Session Properties - Sign On

**NOTE:** Make certain the System Value **QRMTSIGN** is set to **VERIFY** for this to work.

Enter credentials

![Display Session Properties - Sign On](image_url)
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.

More Emulation Options:

Allow request of QPADEVXXX device if Device Conflict Error - check to allow the use of a default host name if there is a device conflict error.

Miscellaneous - do not change any of these options unless instructed to do so by a 10ZiG technical support engineer.
TN5250e Printer

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

Enter the Host Name or IP of the host and the default port should be left at 23.
Enter the connection name - the name to be associated with the printer session ICON and the name displayed in the connection manager. Enter the Device Name which will be the printer name on the host when created.

**Wizard**

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

Connection Name: PRT-1

Device Type: 3812

Device Name: PRTBOS

Press Cancel to abort this Wizard

< Back Next > Cancel

**Wizard**

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

Host Code Page:

[U.S.] Canadian (CP 037)

Printer Driver:

HP PCL (Letter Format)

Press Cancel to abort this Wizard

< Back Finish Cancel
Select the printer driver closest related to the attached printer.

If unsure of the printer driver, try Generic\Text Only and/or use Host Print Transform in the Advanced tab.
Upon completion of the wizard an ICON will be placed on the desktop and the printer session can now be found in the Connections Manager window.
To start a session on startup, highlight the session in the connection manager and select the startup option at the bottom of the screen.

Enable this connection as the Default connection along with Enable connection autostart and it start this as 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 Edit. To delete a session highlight the session and select Delete.
Printer Session - Properties - Connection Tab

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

Advanced Connection options
- Enable Automatic reconnection
- Show foreground reconnection dialog
- Send Keep Alive each (sec): 0
- Send connection reset packets at session connection
- Bind local TCP port to fixed value: 10010
- Enable SSL encryption
- SSL port: 992

OK | Cancel
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 timeout 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 timeout. For a network printer, you want something that allows for network delays, etc.
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

Security Configuration
- Enable "Properties" menu option and toolbar button

Printing error handling options
- Error notification using foreground MessageBox
- Printing retry without operator intervention

Misc
- Enable debug trace
  Destination IP address:

[Buttons: OK, Cancel]
CITRIX ICA CLIENT

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

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

ICA Connection Configuration Name Tab

Enter the connection name - name that will be displayed with the desktop ICON and in the connections manager.
ICA Connection Configuration Server Tab

Enter the Citrix Server Name or enter the Published Application.

Select Server Location to set multiple locations of Citrix servers.
Add or Delete server information.

ICA Connection Configuration Applications Tab

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

- Command Line:
- Working Directory:
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: 32K colors
Color Mapping: Shared - Approximate Colors, Private - Exact Colors

--- Window Size
Window size: Maximized
Select fixed size: 800 600
Select percentage of screen: 75
```

OK  Cancel
ICA Connection Configuration Options Tab

ICA Connection Configuration Configuration Firewall Tab
An ICON will be created on the desktop.

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

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

![Log On to Windows](image-url)
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.

![Please Confirm...](image)

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.

Connection Name:
RDP
Server:
MY_SERVER
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.

![RDP Connection Configuration - Application Tab](image)
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.

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

User Name: myname
Password: **********
Domain: 

Note: If the application is an anonymous published application any login information will be ignored.
RDP Connection Configuration - Window Tab

Enter the RDP session desktop settings.

- Color bits per pixel:
  - 8 bpp
  - 16 bpp
  - 24 bpp
  - 32 bpp

- Window Size:
  - Window size: Maximized
  - Fixed Size: Width 800, Height 600
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.
Internet Browser Connection

Choose add connection and select Internet Browser

Enter connection name - this is the name associated with the desktop ICON and will be displayed in the connection manager.
Enter the Initial page to load when starting the browser session. This is not the default home page and will only be called as the initial page.

To limit users from accessing the browser connection, you can require a password by checking the password box and entering a password.

Enable Kiosk Mode will limit the use of the browser - by checking associated boxes, the address bar, navigation bar, and status bar can be hidden.

An ICON will be placed on the desktop and the connection will be available in the connection manager.
To start the session double click on the ICON or select the session and choose connect in the connection manager. The Firefox splash screen is displayed.

The initial page is loaded.
File Menu

Print Options

NOTE: Printers from the browser will be either Postscript of PCL using ghostscript. Ghostscript translates the Postscript to PCL which can degrade the print output quality.
Edit Menu

View Menu
Tools Menu

Help Menu
Thunderbird Email Client

Select to add a new connection - Thunderbird Mail Client

![New Connection dialog box]

Enter the connection name - this is the name associated with the ICON on the desktop and will be displayed in the connection manager.

![Thunderbird connection configuration dialog box]

An ICON will be created on the desktop.
Double click on the ICON and the Thunderbird Email Client will open and the account configuration screen will be presented.

Select Email Account

![Account Wizard](image)

In order to receive messages, you first need to set up a Mail or Newsgroup account.

This Wizard will collect the information necessary to set up a Mail or Newsgroup account. If you do not know the information requested, please contact your System Administrator or Internet Service Provider.

Select the type of account you would like to set up:

- **Email account**
- **Unix Mailspool (Movemail)**
- **RSS News & Blogs**
- **Gmail**
Enter your name and email address.

Each account has an identity, which is the information that identifies you to others when they receive your messages.

Enter the name you would like to appear in the "From" field of your outgoing messages (for example, "John Smith").

Your Name: 

Enter your email address. This is the address others will use to send email to you (for example, "user@example.net").

Email Address: 
Select the server type and the fully qualified domain name of the incoming server.

The LTC Unit will very likely be limited on disk space so mail for this account should be stored in its own directory on a server or mapped drive. Configure a mapped network drive in terminal properties under Misc Tab and uncheck the Use Global Inbox option.

Enter the full qualified domain name of the outgoing server.
Enter User Names

Enter the account name that will refer to this account.

Enter the incoming user name given to you by your email provider (for example, "jsmith").

Incoming User Name: support

Enter the outgoing user name given to you by your email provider (this is typically the same as your incoming user name).

Outgoing User Name: support

Enter the name by which you would like to refer to this account (for example, "Work Account", "Home Account" or "News Account").

Account Name:

Cancel  Back  Next
Uncheck Download Messages Now.
To change account settings select Edit > Account Settings.
To save emails on the mapped drive, enter the mapped drive information in the Local directory area:
A list of other connection types available can be seen below through the Program menu.
# Hot Key Combinations

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* On 122-key keyboards, use Alt+Jump
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