Tisio Linux Users Guide



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Tisio Linux User's Guide

This guide is for people who use Tisio Linux thin client terminals.

Tisio Linux Basics

This guide describes basic operating procedures for Tisio Linux Thin Client or Windows-based terminals (WBTs).

It explains how to turn on your terminal, how to create and start connections, and how to end your work session.

What is a Thin Client Terminal?

Your Tisio terminal is a thin device that allows you to use Microsoft Windows applications on servers running Microsoft Windows 2000/2003 Terminal Services or Citrix Presentation Server.

The Microsoft Windows servers may also be running Citrix Presentation Server. These Citrix products allow connections via the ICA (Independent Computing Architecture) protocol.

The terminal also allows you to run Local Firefox Browser sessions, Secure Shell sessions and XDM Sessions to Linux or UNIX hosts. In addition, your system administrator may have added optional software to your terminal that allows you access to other local user applications.

In this manual, Terminal Services refers to the Microsoft server software, and Terminal Server host refers to the server computer. Once you connect to a server and log on, the user's desktop or the application you request appears on your terminal screen and you can begin your work session.

What is a Client?

A client is an application or device that can communicate over a network with a server (a computer that provides services, such as applications). The Tisio Linux thin client is a relatively simple device, with built-in software, that can communicate with powerful servers.

The programs that provide the ability to connect to servers are called connection clients. Three connection clients are included in the software built into the Tisio Terminals: the Microsoft Terminal Server Client, the Citrix ICA Client, and the Microsoft IE Browser. The Tisio Terminal Emulation Client can be added an option.

Initial Screens

Your initial screen may be the application that you requested. Other possibilities are:

Windows desktop or logon information dialog.

If a "connecting" message briefly appears, and the Windows desktop or <u>logon dialog</u> appears, you are connected to a Windows host through either a Microsoft RDP (Remote Desktop Protocol) connection or Citrix ICA connection.

Connection Manager

If the <u>Tisio Connection Manager</u> appears, select a Connection Name and click Connect to connect to that server.

Startup Wizard

If the <u>Tisio Startup Wizard</u> appears, your terminal has not been configured. You need to take further steps in order to use it.

If automatic logon has not been configured, you need to log on before the desktop appears. The following sections describe the logon process and the two desktops that are likely to appear.

Logon Dialog Box

If a Logon Information dialog box appears:

- 1. Enter your user name and password.
- 2. If the domain in the Domain field is not correct, select another from the drop-down list. If you are not sure which domain to use, ask your system administrator.
- 3. Click OK.

Terminal Server Session

A Terminal server session is a connection to a Windows 2000/2003, Windows 4.0, Citrix Presentation Server or Meta Frame Desktop Windows server. Once connected, go to Start > Programs and select the program you wish to run.

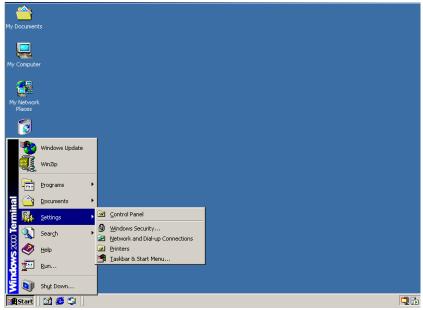


Figure 1 - Terminal Server Session

Linux XDM/GDM Desktop Session

An XDM/GDM Desktop session is a connection to a Linux or UNIX server. Once connected, go to Application > Office and select the program you wish to run.

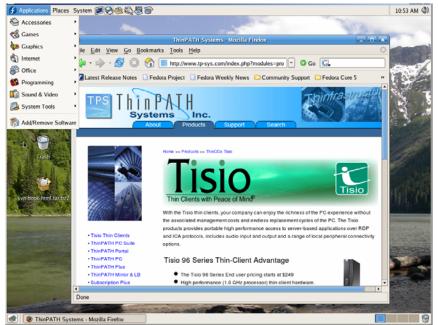


Figure 2 - Linux XDM/GDM Desktop Session

If just the Connection Manager Appears

Depending on how your terminal is configured, the Connection Manager lists one or more connections. To select a connection, select a Connection name in the connection list and click Connect.

- If the connection was defined for automatic log-on and the server it connects to is running, the terminal makes the connection and you are logged on.
- If the connection was defined for <u>automatic logon and automatic</u> <u>application startup</u>, and the server it connects to is running, the terminal makes the connection, you are logged on, and your application starts.
- Otherwise the connection contacts the server and the <u>logon</u> <u>dialog</u> appears.

Connecti	on Manager		
Connections	Configure		
Package	Connection Name	Startup	<u>R</u> un
lirefox	ThinPATH		
🍠 rdp	salespc1		
Vnc vnc	salespc1		
X xnest	XDM Chooser		
Active			
Package (Connection Name		
1			

See Using the Connection Manager.

Figure 3 - Connection Manager

If the Start Menu and Task Bar Appears

Depending on how your terminal is configured, the Start Menu displayed at the bottom of the display lists one or more connections. To open a connection, select a Connection name from the Start Menu list and click.

The Start Menu and Task Bar is included by default but can be disabled or set to Auto Hide.

- If the connection was defined for <u>automatic logon and automatic</u> <u>application startup</u>, and the server it connects to is running, the terminal makes the connection, you are logged on, and your application starts.
- Otherwise the connection contacts the server and its <u>logon</u> <u>dialog</u> appears.

See Using the Start Menu & Task Bar

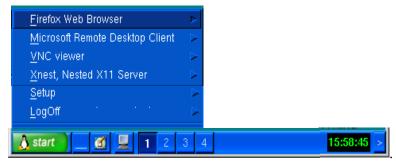


Figure 4- Start Menu & Task Bar

If the Setup Wizard Appears

The first time a terminal starts, the Setup Wizard appears. The Startup Wizard may also appear under other circumstances controlled by your system administrator.

Device Setup Wizard		
Device Information		
	Company Name: ThinCCo AG, Switzerland, TM2006 Website: http://www.thincco.com/ Copyright: ThinCCo AG copyright (c)2005-2007, All Rights Reserved. Product Kaw: Sibb3rd547c38141c80057146b4adad Operating System: Linux 2.4.28 System version: 2.0 Identification Hostname roudy Network device eth0 0:14:85:0E:75:89 Reset to Factory Defaults Reset to Defauls	
About	Back Next S	Cancel

Figure 5 - Device Setup Wizard

Ask your system administrator whether you need to change any of the data in the Setup Wizard screens. See <u>Using the Startup Wizard</u>. The following instructions assume you are using the terminal's default values.

To page through the Setup Wizard:

- 1. Enter a host name for the terminal or use the default value provided. Click Next.
- 2. Select the color and display resolution settings. Click Next
- 3. Set the default network settings and click Next.
- 4. Click Next to accept the default Device Manager Settings.

- 5. Set the desired system settings. Click Next.
- 6. Set the desired access settings. Click Next.
- 7. Set the desired printer settings. Click Next.
- 8. Set any optional packages to install.
- 9. Click Finish.

After you finish with the Tisio Setup Wizard, you will be required to reboot. Click yes to reboot.

Device Setup Wizard				_ 🗆 🛛
Software Update				
	alled pack	ages		
Pa	ackage	Description	Version	3
	dmc	Device Manager Client	1.0.Inx	
	firefox	Firefox Web Browser	1.5.0.2	
	Confirm S	ystem Restart 🛛 🔀	9.0.0.0	Update
		ve changed settings. For new	1.5.0.0	Remove
	is requir			
	Do you	want to restart now?	Version]
				Install
About		Back	Einish	<u>C</u> ancel

Figure 6 – Device Setup Wizard, Finish

Using Connection Wizards

A connection specific wizard appears when you add or edit a connection in the Connection Manager.

This section describes how to configure connections with the following wizards:

- Microsoft Remote Desktop Connection Wizard
- Citrix ICA Client Connection Wizard
- Firefox Browser Connection Wizard
- TeemX Terminal Emulator Client

Note Your terminal may display other client connection wizards if optional software has been added.

Ca	onnection	n Man	ager	
Conne	ctions	Confi	gure	
Packa	age C	Conne	ction Name Startup	New
	firefox T	hinPA	тн	Edit
	Sel	lect F	ackage	
V	Packag	je	Description	
X	in 🌔	refox	Firefox Web Browser	
	ic 📄	a	Citrix ICA Client	
	no 🍂	dp	Microsoft Remote Desktop Client	
	s:	sh	Secure Shell Terminal	1
	te	eemx	TeemX Terminal Emulator Client	4
	V2 V	nc	VNC viewer	
	X×	nest	Xnest, Nested X11 Server	
	Hel	p		<u>Cancel</u>
Abou	ut F	Press	F2 for System Settings	Exit

Figure 7 - Starting Connection Wizards

Once you finish with a connection wizard, the <u>Connection Manager</u> appears.

The Microsoft Remote Desktop Connection Wizard

If the Microsoft Remote Desktop Connection Wizard appears, create a Microsoft RDP connection using the name or network address of a server running Windows, Terminal Server Edition, referred to as the Terminal Server host in this Guide.

Connecti	on Manager	
Connections	Configure	
Package	Connection Name Startup	<u>N</u> ew
firefox	ThinPATH	Edit
a 🕂 🕹	reate Connection	
	Microsoft Remote Desktop Client	r T
Enter	connection name:	
Ц		Cancel
About	Press F2 for System Settings	Exit

Figure 8 - Microsoft Remote Desktop Wizard initial window

Conne	Remote Desktop Connection	
Connectio Package Trep Trep Connectio Package Trep Trep Connectio	Remote Desktop Connection	lew cdit opy elete
	Username Password Additional settings Domain Working directory Client hostname	artup
About	About Ok Cancel	Exit

Figure 9 - Microsoft Remote Desktop Wizard Settings window

To create a connection:

- 1. From the Connection Manager Window click on the Configure Tab. Next select New and double-click the Remote Desktop Connection from the list. If the Connection Manager window is not visible see section on <u>Using the Connection Manager</u>.
- 2. In the first dialog box of the Remote Desktop initial Connection Wizard, enter a brief name for the connection in the field and click Ok.
- 3. In the Server field, enter the name or network IP (Internet Protocol) address of a Terminal Server and click Next.
- 4. The tabs at the top of the window allow you to set Display, Local Resources and Experience parameters for your Microsoft Remote Desktop connection. Choose all desired settings.
- 5. Click Ok. The Connection Manager appears.
- 6. To open the connection you just created, select the Connection tab and the connection name, and click Run.

The Citrix ICA Connection Wizard

The Citrix ICA Connection Wizard creates a Network ICA connection to a Citrix Presentation Server, WinFrame or MetaFrame (Terminal Server) host using the name or network address of the host computer (server).

As with other connections, you can configure the automatic startup of an application or a published application (ICA connections only). A published application is one that your system administrator has named and made available to everyone on the network.

Connecti	on Manager	_ 🗆 🛛
Connections	Configure	
Package	Connection Name Startup	New
firefox	ThinPATH	Edit
	reate Connection	
	Citrix ICA Client	
	k	
Enter	connection name:	
H		Cancel
		-
About	Press F2 for System Settings	Exit

Figure 10 - ICA Connection Wizard

Connec	Remote ICA Connection	🛛 🖾
Connections Package firefo;	ICA TISIO	New
ica 🔮	General Display Connection Experience	<u>C</u> opy
🚑 rdp	ICA Connection	
Vnc Vnc	TS-ICA-03	<u>D</u> elete
💦 xnest		
× •	Server C Published Application	
	ts-ica-03	
	Application Working Directory	<u>S</u> tartup
	Logon Settings	
	User Name Password	
	Domain	
Ľ		
About	Ok Cancel	Exit

Figure 11 - ICA Connection Wizard Settings Window

To create the connection:

- 1. From the Connection Manager Window click on the Configure Tab. Next select New and double Click the Citrix ICA Connection from the list. If the Connection Manager window is not visible see section on Starting the Connection Manager.
- 2. In the first dialog box of the Citrix ICA initial Connection Wizard: Enter a brief name for the connection in the field and click ok.
- 3. Enter a Citrix server or Published Application for your connection.
- 4. If desired, specify logon information. Click Next.
- 5. Select Window Options, if needed. Click Next.
- 6. Select the ICA options, if needed. Click Next.
- The tabs at the top of the window allow you to set Display, Compression, Sound, Speed Screen, Windows Keys, and Encryption Level, if needed (at this time Cache and Microphone Input cannot be configured). Click Next.

- 7. Select the Firewall settings. Consult your network administrator for settings specific to your local network. Click Done. The Connection Manager appears.
- 8. Click Ok. The Connection Manager appears.
- 9. To open the connection you just created, select the Connection tab and the connection name, and click Run.

The Firefox Browser Connection Wizard

The Firefox Web Browser Connection Wizard allows you to create network connections to browse for information on the Web or connect to Web based applications.

ack	ons Configure	on		1 1	_ 🗆 🛛
	۲		f ox Web Browser action name: Google		
	Description	Value	Clear		
AL	Connection Name	Google			_
2	Start Page	http://www.google.c	:om/ + X		
X		k			
X		k			
X		×			
×		×			

Figure 12 – Firefox Web Browser Connection Wizard

To create the connection:

1. From the Connection Manager Window click on the Configure Tab. Next select New and double Click the Firefox Web Connection from the list.

- 2. In the first dialog box of the Firefox Web Browser initial Connection Wizard: Enter a brief name for the connection in the field and click ok.
- 3. Enter the URL or IP address of the web connection. Click Ok.
- 4. When the Connection Manager appears, open the connection you just created, select the Connection tab and the connection name, and click Run.

The TeemX Terminal Emulator Connection Wizard

The TeemX Terminal Emulator Connection Wizard allows you to connect to legacy UNIX and IBM Mainframe applications.

Edit Connection		_ 🗆 🛛	<u>N</u> ew
TeemX Terminal Emulat Connection name: TM			<u>E</u> dit <u>C</u> opy.
Description	Value	Clear	
Connection Name	TM-UNIX		<u>D</u> elete
Enter Server Name		• X	
Set Window Size in Columns, default 80		• X	
Set Window size in Lines, default 24		• X	
Set Number of Buffer Lines		• X	
Select Text Color, default White	White 🛛	• X	
Select Background Color, default Black	Black 🛛	• X	Startup
Select Cursor Color, default White	White 🗵	↔ X	
Select Number of Window Button Levels to Disp	lay 0 🛛	• X	
Enter Window Title		• ×	
Enable Login Shell	III.	• X	
Enable Full Screen		↔ X	
Enable Scroll Bar		• X	
Help Experi	<u>o</u> k	<u>C</u> ancel	

Figure 13 - Terminal Emulation Connection Wizard

To create the connection:

- 1. From the Connection Manager Window click on the Configure Tab. Next select New and double click on the TeemX Terminal Emulator Connection from the list.
- 2. In the first dialog box of the TeemX Terminal Emulation initial Connection Wizard: Enter a brief name for the connection in the field and click ok
- 3. Give the connection a name, and click Ok.
- 4. Enter the server name or IP you will be connecting to. Consult your Network Administrator for details.
- 5. Set any other settings required and click Ok.

6. When the Connection Manager appears, open the connection you just created, select the Connection tab and the connection name, and click Run.

Getting Started

The Startup Wizard runs the very first time the terminal is turned on and is used to do the initial configuration. Basic information on the wizard is presented in this section with details provided in the section <u>Setting Tisio Properties with the Setup Wizard</u>.

The Tisio Linux Thin Client provides a choice of User environments to make the experiences of Tisio thin clients seamlessly integrate into existing requirements. These choices include:

■ Windows User Environment with Start Menu & Task Bar

Traditional Windows Based Terminal User Environment

The Windows Environment provides users the traditional Windows Start Menu and Task Bar. From here connections to other servers can be started and active windows managed. For details, see <u>Using</u> <u>the Start Menu and Task Bar</u>. By default the Windows User Environment is initially enabled.

The Windows Based Terminal (WBT) Environment provides users a simpler, controlled environment. From here a single Connection Manager Window is used to start and manage active windows. For details, see <u>Using the Connection Manager</u>. In this environment the Start Menu and Task Bar are disabled.

To control which environment to enable, see the <u>Access Control</u> section in <u>Using the Setup Wizard</u>.

Using the Startup Wizard

The first time a terminal is powered on, the Setup Wizard appears. The Setup Wizard may also appear if the Tisio thin client was reset to factory defaults or a <u>System Recovery</u> was performed.

This section describes the configuration settings associated with the Startup Wizard, with each screen described in more detail in sections below:

Device Information – Lists basic device information.

■ Display Settings – Color, Resolution and screen saver settings.

- Network Settings Defines network connectivity settings
- Device Manager Defines the Management server settings
- System Settings Language, Time, Mouse and Sound settings.
- Access Control User modes, Security and Diagnostics settings.
- Printer Settings Define printer settings.
- Software Updates Manage software updates.

Once you exit from the Startup wizard, the <u>Connection Manager</u> and <u>Start Menu and Task Bar</u> appears.

Device Information Screen

The device information screen displays basic identification information.

Host Name

The Host Name field defines the name of the Tisio and is the same as the <u>Terminal Name</u>. By default, "*TTC-*" is added to the device's MAC address, e.g. *TTC-000fea6ebc71*. Enter a new host name or use the default. Click Next to continue.

Display Settings Screen

The Display Settings screen allows you to initially set the Tisio display settings that will be used for the attached video monitor or LCD flat panel display. These settings include:

- Desktop Area and Refresh Frequency setting
- Color depth selection for 256 Color, High Color or True Color
- Monitor Controls and settings

Set the desired Display settings for optimum use with your attached monitor. For a full description of these settings see <u>Display Settings</u>.

Network Settings Screen

The Network Settings window provides information and access to modify the Tisio Network settings that will be used when attached to a Local Area or Wide Area Network. These settings include:

- Network Adapter Settings Defines the network IP Address, Subnet Mask and Default Gateway settings.
- Domain Name View and modify the domain name of the Tisio thin client.

Network Adapter Settings

The Network Adapter Settings allows configuration of all TCP/IP Network parameters. The network parameters can be automatically assigned or statically set.

The setting *Enable DHCP* is the normal choice. To manually set the IP Address settings refer to <u>Network Adapter Settings</u> section.

Domain Name

The Domain Name field defines the domain name portion of the host name that will be used on the network to distinguish it from other network devices.

Enter the Domain Name matching your local network requirement. See your network administrator if you are unsure what your domain name is. A domain name is in the form *yourdomain.com* and an example is ibm.com.

Device Manager Screen

The Device Manager screen provides settings to specify the management server, also known as the Device Manager.

The controls and settings under the Device Manger screen include:

- Device Manager (TDM) Server name field Add/modify the host name of the thin client management server.
- HTTP Proxy Used to specify a Proxy server for your Tisio Linux device.
- Test button Used to validate connections to the Tisio thin client management server.

Device Management Server

The Device Manager field defines the network host name and URL of the Tisio Device Management server. This field can contain a simply hostname, IP address or a full URL address. Enter a new Tisio Device Manager server URL or accept the default. Enter an HTTP Proxy server if required.

See **Device Management Server** description for more details.

Testing the Device Manager Connection

In the Device Manager window the **Test** button verifies communication to the Device Management server.

Click on the Test button. A message indicating a pass or fail will be returned in the message box.

System Settings Screen

The System Settings screen provides general settings for the Tisio Linux thin client.

The controls and settings under the System Settings screen include:

- Language, Keyboard and Number Lock fields Define Language and Number Lock start up state.
- Time Zone, Time and Time Server fields. Used to specify the local Time Zone, Time and Time server for the Tisio Linux device.
- Mouse Control and Sound Level fields. Used to specify Mouse and Sound settings for the Tisio Linux device.

See System Settings description for more details. Set desired settings and click Next.

Access Control Screen

The Access Control screen provides user access, security and troubleshooting settings for the Tisio Linux thin client.

The controls and settings under the Access Control screen include:

- User Access Control Defines what local controls the user has access to.
- Remote Display Management. Enable/Disable VNC for remote display Access.
- Troubleshooting Access. View diagnostic log files and enable local shell access.

See Access Control descriptions for more details. Set desired settings and click Next.

Printers Screen

The Printers Screen provides printer settings for the Tisio Linux thin client to establish local printers or establish connections to network print servers. See <u>Printers</u> descriptions for more details.

Set desired settings and click Next.

Software Update Screen

The Software Update screen provides access to controlling software and local package updates for the Tisio Linux thin client.

See <u>Software Update</u> descriptions for more details.

Click *Finish* to begin using your Tisio thin client. You also have the opportunity to go *Back* and modify any previous Tisio Setup Wizard setting.

Once you have selected Finish you will be required to reboot your Tisio thin client before using it. To change any settings once you have finished the Tisio Setup Wizard, refer to <u>Setting Tisio</u> <u>Properties with the Setup Wizard</u>.

Using the Start Menu and Task Bar

The Start Menu and Task Bar provide the user with a more traditional Windows user access to start and manage application sessions. In this environment users will typically open multiple sessions of different types in order to access their UNIX, Linux, Web and Terminal Server applications.

The Start Menu initially includes a Setup (open the Tisio Setup Wizard and Connection Manager) and Logoff choice (turn off the Tisio thin client). See <u>Using the Setup Wizard</u> and <u>Using the Connection Manager</u> for more details on these.

All connections created in the Connection Manager are automatically added to the Start Menu.

From the Task Bar, active windows can be displayed or temporarily hidden, and up to four workspaces can be selected. See <u>Using the</u> <u>Task Bar</u> for more details.

Workspaces offer the user an alternative to managing multiple full screen windows. Each workspace can contain its own set of window or the user can choose to make specific windows visible on all workspaces. See <u>Using Workspaces</u> for more details.

The Window Manger Hot Keys offer yet another level of control when managing active windows and workspaces. For details see <u>Window Manager Hot Keys</u>.

Using the Start Menu

The Start Menu traditionally allows connections to be started and offers access to configuration settings and software power off. The following features are offered from the Start menu:

- Starting Connections To start a connection select it from the start menu connection list.
- Add/Edit Connections Adding and Editing connections are managed from the Connection Manager. Connections from the Connection Manager are automatically added to the Start menu.
- Power Off By default there is a Menu item to Turn off or Reboot the Tisio device.
- Starting the Setup Wizard By default the menu item Setup > Setup Wizard opens the Setup Wizard if it is not already running.
- Starting the Connection Manager By default the menu item Setup > Application Launcher opens the Connection Manager if it is not already running.

Using the Task Bar

From the Task Bar active windows can be displayed or temporarily minimized and up to four workspaces can be used. The table below describes the icons just to the right of the Start Menu.

Icon or Item	Action and Description
Start	Start Menu, See <u>Using Start Menu</u> .
Clock	A Clock is displayed on the right side.
Active	Each active window in the current workspace is listed
Windows	by name to the left of the Workspace icons. Clicking on
	these will Maximize or Minimize active windows.
Hide All	This is a toggle function. It minimizes all windows on
	the selected workspace. Clicking again make them all
	visible.
List Windows	This displays a list of open windows in all workspaces.
	This is like a menu to select any active window in any
	workspace.
Workspace	Choose one of the four workspaces to be visible.
Local Shell	This is only present when the Enable Local Access
	Shell is enabled in the Setup Wizard's Access Control
	section. Allows a local shell to run.

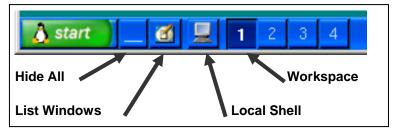


Figure 14 - Task Bar Icon Functions

Using Workspaces

There are four workspaces available on the Tisio Linux thin client device. Workspaces offer the user an alternative to managing multiple full screen windows in one window session. Each workspace can contain its own set of windows. Also specific windows can be made visible on all workspaces.

Workspaces only mange the specific windows launched by the Start menu or by the Connection Manager window. Windows inside a remote Terminal Server session or Linux XDM session are always managed by the remote server.

Workspaces are selected through hot keys and the Task Bar Workspace and Window List Icons. For details on how to select different Workspaces from the Window List menu on the Task Bar see <u>Using the Task Bar</u>. For details on how to select different workspaces see the sections on <u>Window Manager Hot Keys</u>.

Window Control Menu

The Windows Control menu is used to manage active application windows. Right click in the title bar of any active window or select any active window in the Task Bar. Selecting the item or initiating the hot key will perform the function described in the Table below.

<u>R</u> estore	Alt+F5
<u>M</u> ove	Alt+F7
<u>S</u> ize	Alt+F8
Mi <u>n</u> imize	Alt+F9
Maximize	Alt+F10
<u>F</u> ullscreen	Alt+F11
<u>H</u> ide	Alt+Shift+F12
Roll <u>u</u> p	Alt+F12
R <u>a</u> ise	Alt+F1
<u>L</u> ower	Alt+F3
La <u>y</u> er	\triangleright
Move <u>T</u> o	
Occupy <u>A</u> ll	Alt+F2
Tray <u>i</u> con	
<u>C</u> lose	Alt+F4
<u>W</u> indow list	Alt+Ctrl+Esc

Figure 15 - Window Control Menu

This table describes the functions in the Window Control menu.

Item and Hot Key	Action and Description
Restore Alt+F5	Restore Window.
Move Alt+F7	Move window Function
Minimize Alt+F9	Minimize selected window.
Maximize Alt+F10	Maximize selected window.
Fullscreen Alt+F11	Maximize window and remove all window
	manager decorations.
Hide	Hide the selected window, no longer listed in task
	bar. Click on Windows List icon to un-hide.
Rollup Alt+F12	Make only the title bar of a window visible.
Raise Alt+F1	Maximize selected window.
Lower Alt+F3	Minimize selected window.
Layer	Force the selected window to always display over
	or under other windows.
Move To	Move window to the selected workspace.
Occupy All Alt+F2	Display selected window in all workspaces.

Action and Description
Close window.
Disabled

Table 1 - Window Control menu functions

Window Manger Hot Keys

The Tisio Linux thin client window manager supports a number of hot keys to control and manipulate active windows. The supported hot key functions are described below.

Hot Key	Action and Description	
Alt+Tab	Cycle thought an icon list to select a window to	
	raise, top to bottom.	
Alt+Shift+Tab	Cycle thought an icon list to select a window to	
	raise, bottom to top.	
Alt+Escape	Select the next window to display on top.	
Alt+shift+Escape	Select the previous window to display on top.	
Ctrl+Alt+LeftArrow	Switch to the previous workspace (cycle).	
Ctrl+Alt+RightArrow	Switch to the next workspace (cycle).	
Ctrl+Alt+DownArro	Switch to the previous active workspace.	
w		
Alt+F2	Display selected window in all workspaces.	
Alt+F3	Lower the window to the bottom of the list in	
	the current workspace.	
Alt+F4	Close selected window.	
Alt+F6	Select the next window to display on top.	
Alt+Shift+F6	Select the previous window and display it to the	
	top.	
Alt+F7	Move selected window.	
Alt+F8	Initiate resize of selected window. Next press	
	arrow keys to change the size of window.	
Alt+F9	Minimize selected window to Task Bar.	
Alt+F10	Maximize selected window.	
Alt+Shift+F10	Maximize selected window vertically (toggle).	
Alt+F11	Maximize window and remove all window	
	manager decorations.	
Alt+F12	Make only the title bar of a window visible.	

Hot Key	Action and Description	
Ctrl+Escape	Display Start Menu. Use arrow keys to select	
	menu item.	
Ctrl+Alt+Escape	Display the windows list. Use arrow keys to	
	select a window.	
Ctrl+Alt+LeftArrow	Move the focused window to the previous	
	workspace and activate it.	
Ctrl+Alt+RightArrow	Move the focused window to the next	
	workspace and activate it.	
Ctrl+Alt+DownArro	Move the focused window to the previously	
W	active workspace and activate it.	
Ctrl+Alt+KP1	Move selected window to lower left corner.	
Ctrl+Alt+KP2	Move selected window to bottom middle side.	
Ctrl+Alt+KP3	Move selected window to lower right corner.	
Ctrl+Alt+KP4	Move selected window to left middle side.	
Ctrl+Alt+KP5	Move selected window to middle.	
Ctrl+Alt+KP6	Move selected window to right middle side.	
Ctrl+Alt+KP7	Move selected window to upper left corner.	
Ctrl+Alt+KP8	Move selected window to top middle side.	
Ctrl+Alt+KP9	Move selected window to upper right corner.	

Table 2 - Window Manager Hot Key functions

Window manager Mouse functions

The following describes the available mouse controls. The Tisio Linux thin client uses the click to raise mouse pointer model. Clicking with the left mouse button on any part of a window will cause it to be displayed over all other windows and make it active for keyboard input.

Each window contains a frame. The frame of the window is the small area on all four sides of a window. When the mouse pointer is in this area and selected mouse buttons are pressed the frame functions are initiated.

■ Window Frame functions – when mouse pointer is in the frame. Left Button click – Select and raise the window. Left Button press & hold – Move mouse to resize window; if over one of the four sides, makes the side smaller or larger. If over a corner, makes the window smaller or larger on both sides.

Right Button click - Display window control menu.

Right Button press & hold - Move mouse to move window.

Each window displays a title bar at the top of each window. When the mouse pointer is in this area and selected mouse buttons are pressed the title bar functions are initiated.

■ **Title Bar functions** – when the mouse pointer is in the title bar.

Any Button press & hold - Move mouse to move window.

Alt + Left Button - Minimize the window to the Task Bar.

Middle Button Double Click – Roll up the window making only the title bar of a window visible. Double click again to restore window.

Active windows are displayed in the Task Bar. Moving the mouse pointer over active windows in the Task Bar activates Task bar functions.

Task Bar Functions – when mouse pointer is in the Task Bar.

- Left Button click Activate the workspace and display the window. Toggles between the active and minimized state of a window.
- Ctrl + Left Button click Activate the workspace and display the window. Toggles between the active and minimized state of a window.
- Middle Button click Toggle to lower the window so it is under all windows or raise the window so it is displayed over all other windows.
- Right Button Click Display the Window Control menu.

Switching between Active Sessions

There are a number of ways to switch between active sessions. The method you use depends on the how the Tisio device is configured, how the session was started, if the session is full screen or just a window or which session is showing.

In general when switching between active sessions and sessions are not full screen, mover the mouse pointer to the title bar or over the background press Press Alt+Tab to cycle through the list of active connections. The connection list reflects the order in which the connections were started, the most recent being on top. If they are in different workspaces you can also press Ctrl+Alt+RightArrow.

When sessions are started in full screen mode use the following methods depending on the current active session.

Switching from ICA or RDP sessions

ICA and RDP sessions connect to MS Terminal Services requiring special considerations when sessions are started in full screen mode and the user wants to switch to another session type before logging off or disconnecting from the Terminal Server connection. These session types offer a choice to open in Full Screen mode hiding the local window controls. When opening in this mode requires special actions to switch to other active sessions.

RDP/Rdesktop Session is Active				
Window mode	Action to switch sessions			
Window	Press Alt+TAB with mouse pointer on title			
	bar or on desktop background to select a			
	different active session.			
Full screen	Press Alt+TAB with mouse pointer on title			
with title bar	bar to select a different active session			

RDP/Rdesktop Session is Active			
Window mode Action to switch sessions			
Full screen	Press Ctrl+Alt+Enter to toggle to Full Screen with title bar showing. Press Alt+TAB with mouse pointer on title bar to select a different active session.		

Helpful Hints – When creating the RDP or ICA session set the size to the window to the maximum resolution of the display so the title bar will show by default (do not select Full Screen mode). Press the Alt+F11 to toggle on/off the title bar to switch to another session or workspace. Press Alt+TAB with mouse pointer on title bar to select a different active session.

ICA Session is Active				
Window mode	Action to switch sessions			
Window	Press Alt+TAB with mouse pointer on title			
	bar or on desktop background to select a			
	different active session			
Full screen	Press Alt+TAB with mouse pointer on title			
with title bar	bar to select a different active session			
Full screen	In this mode the ICA client restricts changing			
	sessions. See Helpful Hints above to allow a			
	ICA session to switch to another session			

Switching from other Session Types

These local client sessions include all client connection type except for the ICA and RDP connections types. The other local client sessions offer a similar or same method for switching between active sessions. These local client session when started in Full Screen mode, always initially display the title bar at the top of the screen or window requiring the user to use the Alt+F11 (Window title toggle). The Alt+F11 sequence switches between a Full Screen window and a Full Screen Window displaying the title bar.

Any Session is Active (Not ICA or RD)

Window mode	Action to switch sessions		
Window	Press Alt+TAB with mouse pointer on title		
	bar or on desktop background to select a		
	different active session		
Full screen	Press Alt+TAB with mouse pointer on title		
with title bar	bar to select a different active session		
Full screen	Press Alt+F11 to toggle to Full Screen with		
	title bar showing. Press Alt+TAB with mouse		
	pointer on title bar to select a different active		
	session.		

Using the Connection Manager

The Connection Manager lists all defined network connections. Active connections are designated in the active section in the lower portion of the window.

This section explains how to use the Connection Manager to run, stop, add, edit, autostart, and manage connections.

By default the Connection Manager is initially started. The Tisio device can be configured not to start the Connection Manager window. If the Connection Manager is not running, you can display the Connection Manager by pressing Ctrl+Alt+End or Selecting from the Start Menu > Setup > Application Launcher. When the Connection Manager is covered by another session, press Alt+Tab and select it from the list of running applications; if the Start Menu and Task Bar are visible, click on the Connection Manager in the Task Bar.

Connection Manager							
Connections	Connections Configure						
Package	Connection Name	Startup	Bun				
irefox	ThinPATH						
ica	thor						
🎢 rdp	salespc1						
teem×	spook						
Vnc Vnc	salespc1						
X xnest	XDM Chooser						
	k						
Active							
Package C	Connection Name						
About	Press F2 for System Settings		Exit				

Figure 16 - Connection Manager

The Connection Manager lets you:

Start connections

Select the connection name and click Run.

Switch among currently active connections.

See <u>Starting Multiple Connections</u> for more details.

Stop connections.

If problems on the server cause your connection to be unresponsive to a normal log off, select the connection name and click End. See Logging Off for more details.

Add or edit new connections.

See Adding or Editing Connections, for more details.

Set Connections to Auto Start and Reconnect.

See Autostart and Restart Connections, for more details.

Adding or Editing Connections

To add or edit a connection when connected to a server, bring up the Connection Manager, and click the Configure tab. See section above on how to start the Connection Manager

- To add a connection, click New. The Select Package dialog box appears. Select a client from the list and click OK.
- To edit a connection, select a connection name and click Edit.

In either case, the appropriate connection wizard for the client you selected appears.

-	Connec ection:	tion Ma s Co	anager nfigure	
Pac	kage	Con	nection Name Startup	<u>N</u> ew
٢	firefo	× Thini	РАТН	<u>E</u> dit
	\$	Select F	Package	. 🗆 🛛 🗖
2	Pack	age	Description	
E	٢	firefox	Firefox Web Browser	
Ň		ica	Citrix ICA Client	
Q		rdp	Microsoft Remote Desktop Client	
		ssh .	Secure Shell Terminal	
	2	teemx	TeemX Terminal Emulator Client	
	Ve	vnc	VNC viewer	
	Ŀ	ielp		icel
	-			1.
Ab	out	Pres	s F2 for System Settings	Exit

Figure 17 - Connection Manager, Add or Edit

Note If the Configure tab does not appear, your system administrator has disabled it.

Setting the Default Connections

Specifying a connection as the default connection:

Highlights that connection when the terminal starts up and the Connection Manager appears.

■ Allows you to simply click RUN in the Connection Manager or hit the "Enter" key to start this connection.

To select a connection as the default:

- 1. Select the Configure tab of the Connection Manager window.
- 2. Select a connection (defined previously) and click Startup.
- 3. Click "Select connection on device startup" and click OK.

Setting Autostart and Restart Connections

Specifying an auto start or restart connection: Automatically starts that connection when the terminal starts.

- Restarts the connection when it ends.
- 1. On the Configure tab of the Connection Manager, select the connection you want to start automatically.
- 2. To display the Connection Startup dialog box, click Startup.
- 3. Click "Automatically start this connection at startup" or "Restart device when connection is finished" and click OK.

For more information, see Ending Auto start Connections.

Note An auto start connection also functions as the default connection. Designating a different connection as the default makes any auto start connection revert to non-auto start status. When you log off an auto start connection, the connection restarts automatically. For details, see <u>Ending</u> <u>Auto start Connections</u>.

Starting Multiple Connections

The Tisio terminal allows multiple simultaneous LAN connections to one or more servers. The number of connections you can start depends on the amount of memory in your terminal.

To start additional connections:

- If Connection Manager is already running, press Alt+Tab or select it from the Task Bar to bring forward. If it is not running, press Ctrl+Alt+End or select Start > Setup > Application Launcher.
- 2. Select the connection name, and then click Connect.

To switch between running connections:

Press Alt+Tab to cycle through the list of active connections. The connection list reflects the order in which the connections were started, the most recent being on top. For full details refere to the section on **Switching between Active Sessions**.

Note <u>Hot keys</u> for managing multiple connections are explained in more detail in hot keys section and also, Managing multiple connections. See also <u>Window</u> <u>Manager Hot keys</u>

Device Hot Keys

Hotkeys are used to navigate through active connections and to display Tisio setup and configurations screens. These hot keys are used for local control of the Tisio client windows.

Client application windows used to connect to remote hosts are displayed in full screen mode. In most cases the full screen client application does not display a title bar allowing the full screen window to be lowered. Hotkeys are used to lower and raise these windows, to enable access to other active client application sessions and local configuration windows and even to local Operating System recovery scenarios.

Hot Key	Use		
Alt+Tab	Cycle through active connections in the		
	Connection Manager.		
Ctrl+Alt+Home	Go to the default connection. The		
	connection is started if it is not already		
	active.		
Ctrl+Alt+End	Start the Connection Manager Window		
F2	Display Device Setup Window. The		
	Connection Manager Window must be		
	visible and active.		
Ctrl+Alt+F8	Used to initiate a reboot, forcing video		
	settings to a standard VGA mode.		
Ctrl+Alt+F10	Used to initiate a Forced Recovery of the		
	Operating System. See System Recovery		
	for details on use.		
Ctrl+Alt+F2	Used to initiate a Forced Recovery of the		
	Operating System with logging enabled.		
	See System Recovery for details on use.		

Table 3 - Device Hot Keys Description

Logging Off

To log off and end your session:

- 1. If you are connected to an application instead of a server's desktop, closing the application terminates the connection.
- 2. If you connected to a Windows server running Microsoft Terminal Services or Citrix Presentation server:
 - Close all applications.
 - Click Start on the taskbar at the bottom of the Windows server desktop.
 - Select Logoff, and then click OK. The Windows server closes any programs that are still running.
- 3. If you are connected by local Terminal Emulator session:
 - Logoff as described by your application.
 - Close the Terminal Emulator window.
- 4. If problems on the server cause your connection to not respond to a normal log off, bring up the Connection Manager by pressing Ctrl-Alt-End, select the connection name and click End. Your session will be disconnected, but you may not be logged off. Contact your systems administrator for more assistance.

Once a session ends, a new session may start or the Connection Manager appears. Repeat the steps as necessary to end all active connections and then you can turn off the terminal.

Disconnecting vs. Logging Off

To disconnect from a server session:

Select Start > Disconnect on a Windows server or Citrix MetaFrame

Select File > Disconnect on Citrix WinFrame.

This suspends all open applications.

When you reconnect to the session later by logging on again, your applications resume. Because disconnected sessions still consume server resources, most system administrators prefer that you log off.

When you log off, your programs are terminated and the session is ended. You must restart the programs at the next log on.

Ending Autostart Connections

To end an autostart connection, follow these steps:

- 1. Press Ctrl+Alt+End to bring up the Connection Manager and select the Configure tab.
- 2. Select the connection labeled with "Autostart", click Startup and the Connection Startup Options dialog box appears.
- 3. Select "Select connection on device startup" and click OK.
- 4. Log off from the session as described above or select the Connections tab, select the connection name, and click End.

Using the Connection Manager Wizards

This section provides a quick reference and some additional detail on the Connection Manager. There is a separate wizard used to create the different types of connections. This section describes the individual settings for making client connections to application servers.

Modifying your terminal's configuration can cause unexpected and undesirable results — ask your system administrator before attempting any of these procedures.

After initial configuration, you can modify connections using the Connection Manager.

The Start Menu, Task Bar and the Connection Manager appear on the screen by default, unless you have chosen to disable any of them. To access the Connection Manager Wizards, the Connection Manager window must be running.

Each connection type in the Connection Manager uses a separate connection wizard to create and edit connections. They are:

- Firefox Web Browser Used to browse the World Wide Web
- Citrix ICA Client Connects to Citrix Presentation Services
- Microsoft Remote Desktop Client Connects to Microsoft Terminal Services
- Secure Shell Terminal Connects to secure legacy Unix and Linux servers
- TeemX Terminal Emulator Client Connects to legacy mainframe servers, VMS, IBM, UNIX
- VNC Viewer Connects to VNC Servers

Xnest Nested X11 Server – Connects to Linux and UNIX servers using XDMCP login services

Firefox Web Browser

The Tisio Linux thin client includes the Firefox web browser V1.5.0.2. For full details on using Firefox please refer to the Firefox web site for user documentation.

When creating a Firefox connection, first enter a name describing the connection. Next, the Firefox connection edit screen is displayed and it is here that you can enter the initial web page to display on startup of the browser. Once a connection has been created it can be edited by selecting the Edit button in the Connection Manager Window. The following connection settings are available for Firefox.

Connection Setting	Description	Default
Connection Name	Connection Name This is the name describing the	
	connection defined in the first	
	window that appeared when the	
	connection was first created. Enter	
	a valid Connection name.	
Start Page	Enter a World Wide Web URL	www.tp-
-	address as the initial start page.	sys.com

Table 4 - Firefox Basic Settings

Citrix ICA Client

The Tisio Linux thin client includes the Citrix ICA client V9.0. For full details on using the Citrix Server, please refer to the Citrix Systems web site for user documentation.

When creating an ICA connection, first enter a name describing the connection. Next the ICA connection Wizard screen is displayed. Once a connection has been created it can be edited by selecting the Edit button in the Connection Manager Window. The following connection settings are available in the Citrix ICA Client Connection

window.

Connection Setting	Description / Action	Default			
General Tab	General Tab				
Connection Name	This is the name describing the connection defined in the first window that appeared when the connection is first created.	Value first entered			
Connection Server	When Server is selected enter the name or IP address of the Citrix ICA server.	Blank			
Connection - Published Application	In the Connection section when Published Application is selected enter a published application to connect to.	Blank			
Connection - Application	Enter the name of application to run on the Citrix Server. Connect to Server required.	Blank			
Connection - Working Directory	Enter the name of working directory on the Citrix Server. Connect to Server required.	Blank			
Logon Settings – User Name	Enter the Windows Login name	Blank			
Logon Settings – password	Enter the Windows Login password	Blank			
Logon Settings – Domain	Enter the Windows Login Domain name	Blank			
Display Tab					
Window Size	The window size can be full screen, a percentage of the screen or a specific size.	Full Screen			
Window Colors	Select Default, 16, 256, 32 thousand, or 16 million colors. It is recommended that at lease 16 million colors be selected.	Use Default			
Window Colors 256	When set to 256, colors can be shared with other application on the Tisio screen. Select the desired color share mode.	Default Color			

Connection Setting	Description / Action	Default
Connection Tab		
Network Protocol	Select the network protocol to connect to the Citrix server.	Blank
Server Location	Enter the IP address or hostname of a Citrix server in a different network to access Citrix services.	Blank
Proxy Type	Select Proxy type used on your network.	Use Default
Proxy Server	Enter the IP address or hostname of the Proxy server.	Blank
Experience Tab		
Use Data Compression	Enable Data Compression	Enabled
Enable Middle Button Paste	Enable when using a 3 button mouse. Enable X windows cut and paste features.	Disabled
Use Disk Cache for Bitmaps	Use local memory to speed up the redraw of bitmaps in ICA session window.	Disabled
Enable Default Printer	The Tisio defined local default printer will automatically be mapped back from the Citrix server.	Enabled
Enable Sound	Select high, medium or low sound quality.	Disabled
Enable Comport mapping	Map local serial and parallel ports to be with local attached peripherals.	Enabled
Enable USB Drive mapping	Enable USB Drive mapping. Select which drive letter to map.	Enabled, Drive A
Encryption Level	Defines the Encryption level use for the ICA connection.	Basic
Speed Screen – Mouse Feedback	Control mouse local (Enabled) or remote from server (Disabled).	Disabled
Speed Screen - Keyboard	Control keyboard local Text echo	Off
Auto Reconnect	Reconnect to server when connection ends	Disabled

Connection Setting	Description / Action	Default
Maximum Retries	Maximum times to try reconnect	Blank
Delay Retry	Number of seconds to wait between retries	Blank

Table 5 - ICA client Settings

Remote Desktop Client

The Tisio Linux thin client includes the Remote Desktop client V1.5. For full details on using the Microsoft Terminal Server please refer to the Microsoft web site for user documentation.

When creating a Remote Desktop Connections, first enter a name describing the connection. Next, the Remote Desktop connection Wizard screen is displayed. Once a connection has been created it can be edited again by selecting the Edit button in the Connection Manager Window. The following connection settings are available in the Remote Desktop Client Connection window.

Connection Setting	Description / Action	Default
General Tab		
Connection Name	This is the name describing the	Value first
	connection defined in the first	entered
	window that appeared when the	
	connection was created.	
Connection Server	When Server is selected enter the	Blank
	name or IP address of the Microsoft	
	Terminal server.	
Logon Settings -	Enter the Windows Login name	Blank
User Name		
Logon Settings -	Enter the Windows Login	Blank
password	password	
Domain	Enter the Windows Login Domain	Blank
	name	
Working Directory	Enter the name of working	Blank
	directory on the Terminal Server.	
Protocol	Select RDP client support version	RDP 5
Display Tab		

Connection Setting	Description / Action	Default
Window Size	The window size can be full screen,	smallest
	or a specific size.	
Window Title	Enter the title for the window	Blank
Window Colors	Select 256, Hi-Color 16 bit, True	True Color
	Color (24). It is recommended that	
	at lease Hi-Color be selected.	
Window Colors 256	When set to 256, colors can be	Disabled
	shared with other application on	
	the Tisio screen. Select the desired	
	color share mode.	
Hide Decorations	Currently not supported.	Disabled
Keep Key Bindings	Grab all key entered in RDP	Enabled
	session. Do not pass to local	
	window manager.	
Include in other	Enter Window ID number	Disabled
window		
Local Resources Tab		
Shell	Enter a shell other that explorer to	Blank
	run on the Windows Terminal	
	Server.	
Attach to Console	Instead of opening a new session	Disabled
	grab the Terminal Servers local	
	console.	
Enable Numlock	Synchronize local Number lock	Use
	with server Number lock key.	Default
Keyboard layout	Pass local keyboard setting to	en_us
	Windows Terminal Server.	
Enable Serial port	Map local serial ports to local	Enabled
Redirection	attached peripherals.	
Enable LPT port	Map local parallel ports to local	
Redirection	attached peripherals.	
Enable USB Drive	Enable USB Drive mapping.	Enabled
Redirection		
Enable Sound	Select local, remote or off sound	Local
Enable Default	The Tisio defined local default	Enabled
Printer	printer will automatically be	
	mapped back from the Windows	
	Terminal server.	

Connection Setting	Description / Action	Default
Experience Tab		
Connection Speed	Controls local user experience.	LAN (10
	Select LAN setting for all network connections	Mbps)
Force bitmap	Force server to send screen updated	Disabled
updates	as bitmaps rather than using	
	higher-level drawing operations.	
RDP Compression	Encrypt RDP protocol	Enabled
	communication between client and	
	server.	
Use Backing store	Use backing store on the local	Disabled
_	Xserver in place of the one in the	
	Rdesktop client.	
Use Encryption	Disable Data Encryption between	Enabled
	client and server. When disabled	
	only the login is Encrypted.	
Use Persistent	Use local memory to speed up the	Disabled
Bitmap Caching	redraw of bitmaps in RDP session	
	window.	

Table 6 - Remote Desktop Settings

Secure Shell Terminal

The Tisio Linux thin client includes the Secure Shell Terminal (ssh) V2.5.2.0. For full details on using Secure Shell please refer to Linux documentation on using.

When creating an ssh connection, first enter a name describing the connection. Next the ssh connection edit screen is displayed. Once a connection has been created it can be edited again by selecting the Edit button in the Connection Manager Window. The following connection settings are available for Secure Shell.

Connection Setting Description / Action Default

Connection Setting	Description / Action	Default
Connection Name	This is the name describing the	Blank
	connection defined in the first	
	window that appeared when the	
	connection was created. Enter a	
	valid Connection name.	
Remote Server	Enter a valid hostname or an IP	Blank
Hostname	address of the remote Secure Shell	
	server.	
Remote username	Enter the user name logging into	Blank
	the remote Secure Shell server. If	
	the username is not entered the	
	server will prompt for a user name.	

TeemX Terminal Emulator

The Tisio Linux thin client includes the TeemX Terminal Emulator V5.0.26.0. The TeemX Terminal Emulator includes support to VT100, VT52, VT320, IBM3270, IBM5250, Wyse50/60 and many others. For full details on using TeemX Terminal Emulator and all supported terminal emulators, please refer to TeemX Reference and User documentation from Pericom.

When creating a TeemX Terminal Emulator connection, first enter a name describing the connection. Next the TeemX connection edit screen is displayed. Once a connection has been created it can be edited again by selecting the Edit button in the Connection Manager Window.

By default only the basic settings are listed, by clicking on the **Expert** box will display all available settings for TeemX connections. The **Default** button will reset all values to their stated default value.

The following connection settings are available for TeemX.

Connection Setting	Description / Action	Default
Connection Name	This is the name describing the	Blank
	connection defined in the first	
	window that appeared when the	
	connection was created. Enter a	
	valid Connection name.	
Server Name	Enter the hostname or an IP	Blank
	address of the remote server. A	
	valid hostname or IP address must	
	be entered.	
Window Columns	Enter the window size in columns	80
	of characters.	
Window Lines	Enter the window size in lines of	24
	characters.	
Buffer lines	Set the number of buffer character	24
	lines that can be scrolled off screen.	
	The maximum is 10,000.	
Text Color	Select the color to use for characters	White
	in the TeemX Window.	
Background Color	Select the color to use for the	Black
	background of the window.	
Cursor Color	Select the color of the cursor in the	White
	TeemX window.	
Button Levels	Sets the levels of soft buttons to	1
	display at the bottom of the TeemX	
	window. Soft buttons can be used	
	in place of keyboard function keys.	
Window Title	Enter the Title of the window.	TeemX
Enable Login Shell	Request UNIX/Linux host to	Enabled
	execute user shell startup scripts,	
	i.eprofile, .login.	
Enable Full Screen	Start initially in full screen mode.	Enabled
Enable Scroll Bar	Display Scroll bar on right edge of	Enabled
	window.	

Table 7 - Basic TeemX Settings

Connection Setting	Description / Action	Default
Telnet Port	Set the TCP/IP port number to use	23
	for the telnet connection.	
Internal Border	Enter the width in pixels of the	1
	internal border on the TeemX	
	window.	
Program	Specify the program to run in place	Blank
	of telnet. Currently this feature is	
	disabled. Entering a name may	
	cause the TeemX window to not	
	open.	
Arguments	Specify the program arguments to	Blank
	be used with the program above.	
	Currently this feature is disabled.	
	Entering a name may cause the	
	TeemX window to not open.	
Set TERM variable	Force the TERM variable to be set	vt220
	to value entered.	
XRM Resource	Enter any X11 xrm resource setting	Blank
	to override internally controlled	
	TeemX settings.	
Class Name	Change X11 Class Name of the	Xteemx320
	TeemX window.	
Script File	Enter the name of the script file to	Blank
	run when starting TeemX.	
Alternate setup file	Enter the name of an alternate	teemx340.n
	setup file name.	v
Keyword & Binding	Enables the configuration of keys	Blank
Characters	to perform specific tasks when	
	pressed. Valid keywords are brk,	
	dsusp, eof, eol, erase, flush, intr,	
	kill, lnext, quit, rprnt, start, stop,	
	susp, swtch, & weras. Control keys	
	are specified buy including the hat	
	character (^). For ^a is the same as	
	Ctrl + a, ^? is delete. Place double	
	quotes around entered string.	

Below list the advance settings for the TeemX window.

Connection Setting	Description / Action	Default
Zmodem Startup	When enabled, check incoming	Disabled
	data for remote ZMODEM startup	
	sequence.	
Enable Debug	Track all character	Disabled
Mode	communications between server	
	and client.	
Input Queue	Set input queue size for network	255
	data. Can be set to 0-4096.	
Enable Quite Mode	Disable message from being sent to	Disabled
	the console display.	
EOL Cut & Paste	Define End of line character during	CR (carriage
	a cut & paste function.	return)
Mouse Multi-Click	Defines the mouse double click	250
Time	time. Enter a value in milliseconds.	milliseconds
Enable Cursor to	Cursor Line Selection Extent,	Enabled
EOL	define how much of the line is	from cursor
	selected when the mouse is clicked	to end of
	3 times. Either Cursor to end of	line
	line or entire line.	
Keyboard Type	Keyboard types are PC, VT, HP,	PC
	Sun4 or Sun5.	
Bell volume	Select the Bell Volume	100%
Enable IBM Reply	Enabling will prevent color	Disabled
Mode	information from being sent in	
	reply to an IBM host. IBM	
	emulation only.	
Use Printer	Use the entry for the print output	Blank,
Program	of the TeemX window. Currently	Defined by
	this is disabled. Defining a printer	Setup
	in the Tisio Setup Wizard will	Wizard.
	force TeemX to send screen data to	
	this printer. This field should be	
	blank.	
Display Printer	Display the aliased printers listed	All
Aliases	in the printer names list. Display	
	the First, Last or All.	
Exit String	Send string of characters to host	Blank
	when TeemX window closes.	

Connection Setting	Description / Action	Default
Enable Telnet	Enable keepalive messages to be	Enabled
Keepalive	sent to the connect host.	
Suppress Telnet	Suppress generation of Telnet Echo	Disabled
Echo	option on connection with host.	
Closing Telnet	Select the telnet close option,	Prompt
Action	Prompt or Exit.	_
Closing Telnet	Select telnet close option when	Prompt
Option	Closing Telnet Action is set to	-
	Prompt. Select Prompt, Exit,	
	Reconnect or Close.	
Use Backing Store	Use the Backing Store feature on	Disabled
	Tisio X11 server.	
Start as an Icon	When TeemX starts place it in a	Disabled
	lowered state on the task bar.	
Window size	Enter the X11 geometry window	Blank
	size to use for the TeemX window	
	to use. Enter	
	=WxH+xoffset+yoffset in screen	
	pixels.	
Enable Top Menu	Enable the menu bar at the top of	Enabled
Bar	the Teem X window.	
Enable Menu Items	Enable the File, Edit, and Settings	Enabled
	Menu on the Menu bar.	
Cursor type	Select cursor type, Blinking or	Blinking
	Static.	
Border Color	Enter window border color.	Black
Font Lists	The Font lists define the various	Blank
	font sizes to use as the TeemX	
	window is resized. As the window	
	is resized the number of character	
	lines and columns is maintained.	
	The font size is changed to	
	compensate for the changing	
	window size. See TeemX Reference	
	Manual for details.	
Preload Fonts	Preload fonts at startup or load as	Disabled
	needed.	

Table 8 - Advanced TeemX settings

VNC Viewer

The Tisio Linux thin client includes the VNC Viewer V3.3.7.0. For full details on using VNC Viewer please refer to the documentation on using VNC Viewer through the open source community.

When creating a VNC viewer connection, first enter a name describing the connection. Next the VNC Viewer connection edit screen is displayed. Once a connection has been created it can be edited again by selecting the Edit button in the Connection Manager Window. The following connection settings are available for the VNC viewer connections.

By default only the basic settings are listed; clicking on the **Expert** box will display all available settings for VNC viewer connections. The **Default** button will reset all values to their stated default values.

Connection Setting	Description / Action	Default
Connection Name	This is the name describing the	Blank
	connection defined in the first	
	window that appeared when the	
	connection was created. Enter a	
	valid Connection name.	
Remote Server	Enter a valid hostname or an IP	Blank
	address of the host running a VNC	
	server session and optionally the	
	display number to connect to.	
	Format is host:display	
Share Desktop	When a connection is made to a	Not Shared
	VNC server, all other existing	
	connections are normally closed.	
	This option requests that they be	
	left open, allowing the desktop to	
	be shared with other VNC viewer	
	sessions	
Full Screen	Start in full screen mode.	Enabled

The following connection settings are available for VNC Viewer:

Connection Setting	Description / Action	Default
Password	Specify a local password file on the	Blank
	server to be used. ~/.vnc/passwd	
Remote username	Enter the user name logging into	Blank
	the remote VNC server. If the	
	username is not entered, the server	
	will prompt for a user name if	
	required.	

Table 9 - VNC Viewer Basic Settings

Below is the list of advance settings for the VNC viewer connections.

Connection Setting	Description / Action	Default
Window Name	Enter the Window name or title of	Server
	the window.	Name
Pop Up Menu Key	The key which brings up the popup	F8
	menu	
Debug Delay	Milliseconds to display inverted	0
	pixel data - a debugging feature. 0	
	is disabled. Enter 0 – 9.	
Display Number	The X Window System display	Blank
	number, overrides the DISPLAY	
	variable value.	
Geometry	Enter the X11 geometry window	Blank
	size to use for the TeemX window	
	to use. Enter =WxH+xoffset+yoffset	
	in screen pixels.	
Listen for	Listen for connections from VNC	0
Connections	servers on the given TCP/IP port	
	number.	
Send Primary	Send the primary selection and cut	Enabled
Selection	buffer to the server as well as the	
	clipboard selection	
Send Clipboard	Send clipboard changes to the	Enabled
	server.	
Receive Clipboard	Accept clipboard changes from the	Enabled
	server	

Connection Setting	Description / Action	Default
View Only	Don't send any mouse or keyboard	Disabled
-	events to the server, view only	
	mode.	
Show Dot Cursor	Show the dot cursor when the	Enabled
	server sends an invisible cursor	
Use Local Cursor	Render the mouse cursor locally	Enabled
Decoration Height	Height of window manager	24
	decoration around a window in	
	pixels.	
Decoration Width	Width of window manager	6
	decoration around a window in	
	pixels.	
Pointer Event	Time in milliseconds to rate-limit	0
Interval	successive pointer events	
Log Target	Specifies which log output should	Blank
0 0	be directed to which target logger,	
	and the level of output to log.	
	Format is <log>:<target>:<level>[,</level></target></log>	
Compression Level	Zlib compression level	-1

Table 10 - VNC Viewer Advanced Settings

Xnest - Nested X11 Server

The Tisio Linux thin client includes the Xnest 2.1.1.0. client. Xnest allows for full XDM Login Sessions to legacy UNIX servers, from Sun, HP or IBM and Linux hosts where XDMCP has been enabled. A full desktop session from servers supporting KDE or Gnome and other X11 window technologies can be displayed in an Xnest client window. For full details on using Xnest please refer to the documentation on using Xnest client.

When creating an Xnest connection, first enter a name describing the connection. Next the Xnest connection edit screen is displayed. Once a connection has been created it can be edited again by selecting the Edit button in the Connection Manager Window. The following connection settings are available for the Xnest connections.

By default only the basic settings are listed, by clicking on the **Expert** box will display all available settings for Xnest connections. The **Default** button will reset all values to their stated default value.

The following basic connection settings are available for Xnest.

Connection Setting	Description	Default
Connection Name	This is the name describing the	Blank
	connection defined in the first	
	window that appeared when the	
	connection was created. Enter a	
	valid Connection name.	
Select Display	Select an alternate X11 Display	2
Number	number to be used by the Xnest	
	connection. If the VNC server	
	feature has been enabled in the	
	Setup Wizard, select a value 2 or	
	above.	
Select XDM Login	Select the type of XDM login	Direct
Connection Type	connection to make.	
	Direct – Display a Login window	
	from the server specified in the	
	Server Name field.	
	Indirect – Display a Chooser	
	window from the server specified	
	in the Server Name field.	
	Broadcast – Broadcast on the local	
	subnet and Display a Login	
	Window from the first server that	
	responds.	
	Multicast – Display a Login	
	window from a server with	
	Multicast support.	D1 1
Server Name	Enter the Server name or IP address	Blank
	for the Direct, Indirect or Multicast	
	connections.	

Connection Setting	Description	Default
Window Size	Enter the X11 geometry window	Blank
	size to use for the TeemX window	
	to use. Enter =WxH+xoffset+yoffset	
	in screen pixels.	
Window Name	Enter the Window name or title of	Server
	the window.	Name
Border Width	Set the window border width	Blank

Table 11 - Xnest Basic Settings

Setting Tisio Properties with the Setup Wizard

After initial configuration, you can modify settings using Setup Wizard.

To display the setup wizard if the Start Menu and Task Bar is on the screen, select **Start > Setup > Setup Wizard**.

To display setup wizard when the Connection Manager is on the screen, press F2.

After making changes, you can click **OK** to apply changes without closing Tisio Device Properties, click **OK** again to close Device Properties.

Note Your system administrator may have set a password in order to prevent you from making changes to Device Properties. In that case, access to the Device Properties window is denied until you enter the password when prompted. If no password has been set, you can make changes to any Device Properties field.

This section describes the configuration settings that can be managed by the Device Manager:

Device Information – Set terminal name and reset to factory

Display Properties - Color, Resolution and screen saver settings

- Network Configuration Defines network connectivity settings
- Device Manager Defines the Management server settings
- Systems Settings Defines basic Tisio thin client settings
- Access Control Defines user access to device features.
- Printers Define local and remote printers.

Software Manager – Defines software update settings

Device Information Tab

This introduction window provides information about the Tisio thin client, the terminal name and the option to reset the terminal to the factory-default settings.

- Tisio Thin Client Information
- Product Key Used to license Microsoft Terminal Server sessions.
- Software Version Tisio base software version.
- Identification View and modify the name of the Tisio thin client.
- Factory-defaults check box Reset all settings to their factory default.

Terminal Name

The Terminal Name field defines the name of the Tisio that will be used on the network to distinguish itself from other network devices.

The Terminal name can be viewed or modified. To modify it simply enter a new name. The next time the device is rebooted the new name will be registered with the Tisio Device Management server.

Factory-Default

The "Reset the terminal to Factory-default property settings" check box is used to force the Tisio thin client to reset all setting to factorydefaults on the next reboot or power-up. After a Factory-default, the Tisio Linux thin client will automatically start the <u>Device Manager</u> <u>Startup Wizard</u> requesting input on basic settings required for operation of the Tisio thin client.

To reset to factory the Tisio terminal, follow these steps:

1. When the Terminal Connection Manager is showing, press F2 to display the Tisio Device Manager Startup Wizard, or if the Start Menu is present select Start > Setup > Setup Wizard.

- 2. Select the Device Information Tab.
- 3. Click the "Reset to defaults" property settings check box.
- 4. At the prompt "All settings will be reset to default value. Would you like to do it now?" click Yes.

The Tisio device will now reboot and reset all settings to factory.

Display Properties Tab

The Display Settings window provides information and access to modify the Tisio display settings that will be used for the attached video monitor or LCD Flat Panel Display. These settings include:

- Desktop Area and Refresh Frequency setting
- Colors selection for 256 color, 16 bit and 32 bit color depths
- Monitor Selection and Display Size Settings
- Hide Video Settings check box
- Screen Saver Controls

The next sections describe in detail these individual controls, settings and how to modify and test a new video resolution.

Desktop Resolution and Refresh Frequency

The Desktop Area and Refresh Frequency setting is used to allow the resolution to be changed. By default the best desktop resolution and refresh frequency will be automatically selected based on the capabilities of the attached video display device. The default resolution and Frequency is set to a value recommended by the video display manufacture. The Tisio device supports the following list of video settings.

Supported Video settings:

- 640 x 480 @60Hz, 70Hz, 75Hz, 85Hz
- 800 x 600 @60Hz, 70Hz, 75Hz, 85Hz
- 1024 x 768 @60Hz, 70Hz, 75Hz, 85Hz
- 1280 x 1024 @60Hz, 70Hz, 75Hz, 85Hz
- 1600 x 1200 @60Hz, 70HZ, 75Hz, 85Hz
- Note Your terminal may not display all resolutions listed here. The list of resolutions depends on the capabilities of the attached video display device.

Show all Video Modes

This setting is currently disabled. Uncheck the box labeled "**Show All**". See the full list of supported video resolution settings. The video settings not supported by the Monitor are hidden by default.

Note Selecting a video setting not supported by your monitor may cause severe damage to your monitor. Please consult the Monitors operator's manual for supported settings not in the supported list.

Desktop Colors

The color depth setting allows selection for 256 colors, High Color (16 Bit), and True Color (32 Bit). For proper support of Windows 2003 Terminal Server sessions, 16 or 32 Bit color modes must be selected.

Monitor Autodetect

By default the Monitor auto detect is enabled. This enables the video adapter to use Display Data Channel (DDC). Using DDC, a monitor can inform the video card about its properties, such as maximum resolution and color depth. The video card can then use this information to ensure that the user is presented with valid options for configuring the display.

If your monitor does not support DDC or the auto detection is not working properly, you can disable **Autodetect** and select your monitor from a list to define the **Hsync** and **Vsync** minimum and maximum values.

To disable auto detect and manually select the monitor specifications, follow these steps:

- 1. When the Terminal Connection Manager is showing, press F2 to display the Tisio Device Setup Wizard.
- 2. Select the Display Setting Tab.
- 3. Click on the Autodetect box to enable the Configure button.
- 4. Click on the Configure button and select the Monitor type connected to the Tisio device and click OK.
- 5. If the Monitor is not found in the monitor list you can enter the correct value for **Hsync** and **Vsync**. The value entered should be the entered as **min-max**, where min is the minimum sync value and max is the maximum sync value support by the attached monitors specifications. There should be no space between the two values, just the (-) dash character.

The new settings will take affect on the next reboot.

Monitor Display Size

The Display Size is used to calculate the dots per inch value used by a number of applications in determining which font size the application should use. Having an incorrect Display Size can cause applications to display characters outside the graphical field or region or display characters that are too big or small.

The Display size is entered in millimeters. The first field is the Horizontal measurement and the second field is the Vertical measurement. By default the values are 324 and 242 respectively. This equates to a standard 17 inch monitor.

Measure your monitor and enter the appropriate Horizontal and Vertical values in millimeter.

Modifying Display Settings

When modifying display settings the Tisio Linux thin client will require restarting. After changing the display settings following a reboot, if the display is no longer visible then you will need to perform the Display is Blank – Reset Video to VGA Mode by pressing Ctrl+Alt+F8 during reboot in the Troubleshooting section.

To change the display resolution, follow these steps:

- 1. When the Terminal Connection Manager is showing, press F2 to display the Tisio Device Manager Startup Wizard.
- 2. Select the Display Setting Tab.
- 3. Select a new display resolution and frequency from the drop down menu.
- 4. Select the desired Color settings and Monitor settings.
- 5. Click on OK button.
- 6. At the prompt "You have changed settings. For new settings to take effect, system restart is required. Do you want to restart now?" click **Yes** to restart the device.

When the Device Manager Setup Wizard window is closed The Tisio device will require rebooting for the new display settings to take affect.

Screen Saver

This setting is currently disabled. The Enable Screen Saver and Wait setting is used to allow the screen saver control to be changed. By default the screen saver is enabled and set to a wait time of 20 minutes. To disable the screen saver click the check box.

Network Configuration Tab

The Network Configuration window provides information and access to modify the Tisio Network settings used when attached to a Local Area or Wide Area Network. These settings include:

- DHCP Disable or Enable DHCP to automatically define IP information.
- Ethernet or MAC View the Ethernet or MAC address of the enabled network device.
- Domain Name View and modify the domain name of the Tisio thin client.
- Network Adapter Settings Defines the network IP Address, Subnet Mask and Default Gateway settings.
- Wireless settings Set SSID, WEP or WPA/WPA2-PSK settings.

Network Adapter

This displays the device name of the current enabled network adapter. In the current release only one Network adapter can be enabled at a time. If a supported wireless Network Adapter is connected, the Wireless Network device will be enabled and the standard wired Network Adaptor will be disabled.

Enable DHCP

By default Dynamic Host Configuration Protocol (DHCP) is enabled. DHCP is used by networked computers (thin clients) to obtain IP addresses and other parameters such as the default gateway, subnet mask, and IP addresses of DNS servers from a DHCP server. It facilitates access to a network because these settings would otherwise have to be made manually for the client to participate in the network.

The DHCP server ensures that all IP addresses are unique, i.e., no IP address is assigned to a second client while the first client's assignment is valid.

When you disable DHCP you must manually enter a unique IP address, subnet mask, gateway address, and DNS IP addresses.

Network Adapter Settings

The Network Adapter Settings allows configuration of all TCP/IP Network parameters. The network parameters can be automatically assigned or statically set. Normally the IP Address, Subnet Mask, Default Gateway, and DNS parameters are obtained via DHCP.

Adapter Name

This is the name assigned to the network interface hardware. The Adapter Name field is automatically defined by the local hardware configuration and can not be changed by the user.

Getting an IP Address via DHCP

By default the "Enable DHCP" is set so at initial boot the Tisio thin client will broadcast on the local subnet to automatically obtain all TCP/IP address settings. This includes the IP Address, Subnet Mask, Default Gateway, Domain name and DNS host.

When unchecked, the IP Settings fields for the Tisio Linux thin client become active, enabling them to be manually entered.

Note Assigning the same IP address to more that one TPC/IP network attached device can cause loss of data. Your network administrator is responsible for assigning the proper network addressing so each device will properly communicate over your network.

IP Address

This defines the address use on the local TCP/IP network. Use this field to manually enter an IP Address. An example IP address is 192.168.1.22

Subnet Mask

This field manually defines the subnet mask uses on the local TCP/IP network. An Example Subnet Mask is 255.255.255.0, where this defines a Class C network.

Default Gateway

This field manually defines the Tisio default gateway used on a TCP/IP network. An Example Default Gateway is 192.168.1.1, where this is the address of the local gateway on this subnet.

Domain Name

The Domain Name field defines the domain name portion of the host name that will be used on the network to identify it from other network devices.

The Domain name can be viewed or modified. To modify the Domain Name simply enter a new name, e.g. *yourdomain.com*. The next time the Tisio device is rebooted the new domain name will be activated.

The DNS network setting allows for manual setup of Domain Name Service (DNS) hosts. Use these settings to set the Primary and Secondary DNS server names providing domain name lookup on your local area network. The IP address of the DNS server **must** be used, not the host name of the primary and secondary DNS servers.

Note When using the Tisio local Web browser, the DNS setting must be properly configured to allow for World Wide Web URL host name lookups.

Wireless Network Settings

The Wireless network settings allow wireless security parameters to be defined to establish a wireless network connection to a wireless network access point. The Tisio Linux wireless device currently supports ESSID, WEP-64, WEP-128, WPA-PSK, WPA2-PSK, TKIP and AES wireless security standards.

The Tisio Linux device currently supports the following wireless devices.

Wireless Device	Description	Model
rausb0 –	External USB RT73 25A01G-4WB00-C01	Tisio95LX
WI-USBLX-11bg	wireless device from Gigabyte, model	Tisio96LX
	GN-WB01GS.	
ra0 –	Internal mini-PCI RT61wireless card	Tisio300LX
WI-PCI-11bg	from Gigabyte. This wireless device is	
	included in the standard Tisio300LX	
	thin client	

Wireless Network Name ESSID

The ESSID is a service set identifier (SSID), which defines a code attached to all packets on a wireless network to identify each packet as part of that network. The code consists of a maximum of 32 alphanumeric characters. All wireless devices attempting to communicate with each other must share the same SSID.

The SSID is defined by your wireless network administrator and the value entered must match the SSID define on your wireless access point. If your wireless network is enabled with no security, generally all that is required is to set the ESSID value.

WPA/WPA2 PSK Key

The Tisio Linux devices support the wireless security standards of WPA and WPA2. WPA and WPA2 use a sophisticated key hierarchy that generates new encryption keys each time a mobile device establishes itself with an access point. Both WPA's Temporal Key Integrity Protocol (TKIP) and WPA2's AES-CCMP encryption protocol are supported using the WPA Pre Share Key (PSK). The WPA-PSK or WPA2-PSK is a "passphrase" used by either TKIP or AES to automatically change the keys at a preset time interval, making it much more difficult for hackers to find and exploit them.

The WPA/WPA2-PSK Key is a "passphrase" defined by your wireless network administrator and the value entered must match the WPA/WPA2-PSK "passphrase" define on your wireless access point. If your wireless network is enabled with WPA/WPA2-PSK security, generally all that is required is to set the WPA/WPA2-PSK "passphrase" and the ESSID value for your wireless network. The Tisio Linux device uses the WPA Supplicant process to connect and stay connected to your secure wireless network.

WPA-PSK/WPA2-PSK requires a "passphrase" between 8 and 63 characters or 64 hexadecimal digits (256 bits).

WPA/WPA2-PSK security is the most secure and is the recommended method for connecting to your wireless network.

WEP Encryption Key

Wired Equivalent Privacy (WEP) is a scheme to secure IEEE 802.11 wireless networks. It is part of the IEEE 802.11 wireless networking standard. IT is not as secure as WPA and is no longer recommended in corporate wireless networks.

Both WEP-64 and WEP-128 are supported. For WEP-64 support, enter your 10 digit hexadecimal key and for WEP-128 enter your 26 digit hexadecimal key. The WEP key entered on the Tisio device must match the WEP key define on your wireless access point, typically set by the network administrator.

Connecting to your wireless Network

The following will describe how to connect to your wireless network.

Changing Wireless Network Settings

To change the settings, follow these steps:

- When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Select the Network Configuration Tab.
- 3. Click on the Wireless button to open the Wireless Network Settings window.
- 4. Set the desired Wireless security settings. See the section below, Determine Wireless Security Method, for full details.
- 5. Click on OK button.
- 6. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device.

Determine Wireless Security Method

The security method defined by your wireless network administrator will determine what will be required to connect the Tisio Linux device to your wireless network.

- If you are using no wireless security, then you will only need to set the **Network Name ESSID** value in the Tisio Setup Wizard Wireless Network. Leave the **WPA/WPA2 KEY (PSK)** and the **WEP Encryption Key** fields empty.
- If you are using WPA-PSK or WPA2-PSK security enter the SSID in the Network Name ESSID field and the "passphrase" in the WPA/WPA2 KEY (PSK) field. Leave the WEP Encryption Key field empty.
- If you are using WEP-64 or WEP-128 Key security enter the SSID in the **Network Name ESSID** field and the 10 or 26 hexadecimal digit in the **WEP Encryption Key** field. Leave the **WPA/WPA2 KEY (PSK)** field empty.

Device Management with TDM Server Tab

The Device Manager window provides settings to specify the Tisio management server also known as the Tisio Device Manager. The Tisio Device Manager provides administrators a simple and easy tool to perform remote management for all Tisio thin client configurations.

The controls and settings under the Device Manger tab include:

- URL: Device Manager Name field View and modify the host name of the Tisio Linux thin client management server.
- HTTP Proxy Used to specify a Proxy server for your Tisio Linux device.
- Test TDM Connection button Used to test connections to the Tisio thin client management server.

Device Management Server

The Device Manager "URL:" field defines the network host name and URL of the Tisio Device Management server. This field can contain a single hostname, IP address or a full URL address. The following syntax is supported:

http[s:]/[<username>:<password>@<hostname>.<domain name>:8080/ThinCCo/Servlet

Example: thinccodm.yourdomain.com or http://thinccodm/yourdomain.com/ThinCCo/Servlet

- At minimum a single host name or IP address must be entered to change it from the <u>default settings</u>.
- If the Tisio Device Manger server was set up as a secure web server, use *https://* otherwise use *http://*. If not included, the value *http://* will be used.
- The username and password can optionally be used if the Tisio Device Manger server was configured to require user name and password values for enhanced security.
- The Tisio Device Manger is configured by default to use *port :8080*, and can be left off. This value should be included however, if changed at the Tisio Device Manger server.
- The Tisio Device Manger server is configured by default to use the directory path /*ThinCCo/Servlet*, and can be left off. If the virtual directory path was changed on the Tisio Device Manger server, the directory path is required.

Tisio Device Manager Default Settings

The Device Manager field is initially set to *default settings*. When set to *default settings*, the Device Management server name used to contact the management server will be *http://thinccodm.<your domain>:8080/ThinCCo/Servlet*, where "*your domain*" is the Tisio thin client's domain name set by DHCP or from the <u>Domain Name under Network Setting</u>.

Testing the Device Manager Connection

The **Connection** button in the Device Manager window verifies communication to the Device Management server specified in the Device Management URL field.

- When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Click in the Device Manager tab.
- 3. Enter the <u>device Manger server name</u>.
- 4. Click on the Test button. A message indicating a pass or fail will be returned in the message box.

System Settings Tab

The Systems Settings window provides settings to control Language, Keyboard, Mouse, Time and Sound settings on the local Tisio Linux device.

The controls and settings under the Systems Settings tab include:

- Language field View and modify the language setting for local and remote applications.
- Keyboard field- View and modify the Keyboard language setting.
- Numlock field View and modify the state of the Number lock key at startup.
- Time Zone field View and modify the local time Zone setting.
- Date field Set the Date and Time on the local device. This sets the Date and time of the local, on-board clock.
- NTP Server field View and modify the name of the NTP (Network Time Protocol) server. This enables the Tisio Linux device to synchronize its local clock with a highly accurate network clock.
- Mouse Control View and modify the Mouse speed and orientation.
- Sound View and set the Volume level of sound.

Language Settings

Keyboar d Setting	Languag e Setting	Actual Language
en-us	en	English - US
de	de_DE	German
de_ch	de_CH	Swiss German
ru	ru_RU	Russian
es	es_ES	Spanish

The following languages are supported on the Tisio Linux device.

Mouse Acceleration and Threshold

The mouse Acceleration and Threshold controls the mouse movement. The movement parameters for the mouse are acceleration and threshold. The acceleration is specified as an integer. The mouse will go "acceleration" times as fast when it travels more than "threshold" pixels in a short time. This way, the mouse can be used for precise alignment when it is moved slowly, yet it can be set to travel across the screen in a flick of the wrist when desired. The default values are 2 and 4 respectively.

Mouse Orientiation

The mouse orientation reverses the order of the mouse buttons for easier left-handed use. Normally the mouse is defined as button 1 on the left, button 2 (scroll wheel "click") in the middle and button 3 on the right. Selecting **Left** as the orientation reverses this.

Access Control Tab

The Access Control window provides security settings to block access to all local settings and configurations. It also controls the user interface controls the user has access to. Setting a password here will require a password to be entered to change any setting under the Terminal Properties window. If "Hide the Configure tab" is checked, the Configure tab is not displayed in the Connection Manager window - so users are unable to edit or create new connections.

The controls and settings under the Access Control tab include:

■ Controlling Local Configuration Access

Set Settings Password field – Used to assign a local password to the Tisio device requiring a password be entered before any local Tisio settings can be changed.

Hide Configure page field – This is used to control access to the Configure tab in the Connection Manager window so users can not change or add connections to the Start Menu or Connection Manager window.

■ Controlling User Interface Access Modes

Autohide Taskbar field – Used to make the Start Menu and Task Bar auto hide or roll off the bottom of the display when not in use.

WBT mode field – Controls the startup of the Start menu and Task Bar.

Start Launcher field - Controls if the Connection Manager window is included on startup.

Controlling Remote Assistance Access

Enable VNC Server field – Controls the startup of the VNC Server service. This is required for remote control and viewing of the thin client's display from another PC or thin client device.

Set VNC Password field – Sets the password for the VNC server connection. By default the password is "remote".

■ Controlling Access to Diagnostic Tools

Enable Local Shell **Access** field – This enables local shell access to the local operating system.

Diagnostics Log field - View local log files on system status.

Controlling Local Configuration Access

For the Tisio thin client device, controlling user access to local setting is a requirement. The "Set Settings Password" and "Hide 'Configure' page" fields are used to control this access. By default

these are disabled, allowing anyone to change all settings and create connections.

To require that a password be entered to change any setting or connection, follow these steps:

- 1. When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Select the Access Control Tab.
- 3. Click on the **Set Settings Password** button to open the Access Control password window.
- 4. Enter the desired password twice.
- 5. Click on OK button.
- 6. Click on the Hide 'Configure' Page button.
- 7. Click on the OK button in the Device Setup Wizard window to accept the new settings.
- 8. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device.

Controlling User Interface Access Modes

The Tisio Linux Thin Client provides a choice of User environments to make the Tisio thin client experiences seamlessly integrate into existing requirements. These choices include:

■ Windows User Environment with Start Menu & Task Bar

■ Traditional Windows Based Terminal (WBT) User Environment

The Windows Environment provides users the traditional Windows Start Menu and Task Bar. From here connections to other servers can be started and active windows managed. For details see <u>Using</u> <u>the Start Menu and Task Bar</u>. By default the Windows User Environment is initially enabled. To enable the Full Windows-like user interface, follow these steps:

- When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Select the Access Control Tab.
- 3. Ensure that the **WBT mode** button is not enabled (button is out).
- 4. Optionally, you can choose to not display the Connection Manager window on startup. Click on the **Start Launcher** button so it is not enabled (button is out).
- 5. Optionally, you can choose to Autohide the Start Menu and Task Bar. Click on the **Autohide Taskbar** button so it is enabled (button is in).
- 6. Click on the OK button in the Device Setup Wizard window to accept the new settings.
- 7. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device

The Windows Based Terminal (WBT) Environment provides users a more simple and controlled environment. From here, a single Connection Manager Window is used to start and manage active windows. For details, see <u>Using the Connection Manager</u>. In this environment, the Start Menu and Task Bar are disabled.

To enable the WBT mode or a more limited user interface, follow these steps:

- When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Select the Access Control Tab.
- 3. Click on the **WBT mode** button so it is enabled (button is in).
- 4. Click on the **Start Launcher** button so it is enabled (button is in).

- 5. Click on the OK button in the Device Setup Wizard window to accept the new settings.
- 6. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device

Controlling Remote Assistance Access

The Tisio Linux device also offers remote assistance or remote access to the local desktop. This allows full mouse and keyboard controls to the remote session and is password protected. The Tisio device includes a VNC Server service that can be enabled when the device is started. It also includes a VNC viewer client so you can view the desktop of a Tisio Linux device from another Tisio Linux device. By default this service is disabled.

To enable remote assistance or remote display access, follow these steps.

- 1. When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Setup Wizard.
- 2. Select the Access Control Tab.
- 3. Click on the **Enable VNC Server** button so it is enabled (button is in).
- 4. Click on the **Set VNC Password** button to open the Access Control password window. By default the password is predefined as "remote".
- 5. Enter the desired password twice.
- 6. Click on OK button.
- 7. Click on the OK button in the Device Setup Wizard window to accept the new settings.
- 8. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device

Controlling Access to Diagnostic Tools

The Diagnostic tools include access to view local log files and to allow a user to open a local shell window for access to the local operating system and file system. By default the local shell window access is disabled.

When the local shell access is enabled, the Task Bar includes a terminal icon. Clicking on this icon will open a local xterm window.

Pressing Ctrl+Alt+F2 will switch the Tisio device to a black screen also enabling access to a local shell. This can be used in case there is a problem with the Local X11 server. Login as the root user and issue the password "!3+me1n". Press Ctrl+Alt+F3 to switch back to the X windows desktop.

To enable local shell access, follow these steps.

- When the Terminal Connection Manager is showing, press F2 or if the Start Menu is present, select Start > Settings > Setup Wizard to display the Tisio Device Manager Startup Wizard.
- 2. Select the Access Control Tab.
- 3. Click on the **Enable Local Shell Access** button so it is enabled (button is in).
- 4. Click on the OK button in the Device Setup Wizard window to accept the new settings.
- 5. At the prompt "You have changed settings, Do you want to restart?" click **Yes** to restart the device

Printers Tab

The Printers tab is used to setup local or remote printers to enable local printing support. Local printers normally connect to one of the serial, USB or Parallel port. Remote printer can either be network attached printers or printers connected to another server. The Tisio Linux device includes a full functioning LPD print spooler and can also function as a small print server for other Tisio thin client devices.

The controls and settings under the Printers tab include:

- Select Printer field When multiple printers are defined, select the printer to modify.
- Printer Name field Defines the printer name. This is also the common LPD print spooler name.
- Printer Driver field Defines the printer driver to use when in a RDP or ICA Windows Terminal Server session.
- Printer Device field Defines how the Printer is attached to the Tisio Linux device.
- Options field Defines baud rate settings when Serial attached printers are used.
- Remote Host Defines the remote printer name or print server name when the Device field is set to "Remote LPD".
- Remote Queue Defines the remote printer queue name when the Device field is set to "Remote LPD".

Below are three examples of printer settings. When one printer is defined as the default printer, then applications on the Tisio thin client will use this printer to print. With RDP or ICA connections the default printer will be auto-created in a Windows Terminal Server session.

Printer Example 1

In this first example a USB printer is attached to the Tisio Linux device.

The following settings are defined in the Printer section of the Setup Wizard:

- Printer Name: hp5500

- Printer Driver: HP DeskJet 5500
- Printer Device: USB
- Options:
- Set as Default

Printer Example 2

In this example, a generic serial printer is attached to the Tisio Linux device.

The following settings are defined in the Printer section of the Setup Wizard:

- Printer Name: generic
- Printer Driver: Generic
- Printer Device: COM1
- Options: speed 38400 -imaxbel
- Set as Default

Printer Example 3

In this example, a network printer is used by the Tisio Linux device.

The following settings are defined in the Printer section of the Setup Wizard:

- Printer Name: lj4000
- Printer Driver: HP LaserJet 4000 Series PS
- Printer Device: Remote LPD
- Options:
- Remote Host: 192.43.154.50
- Remote Queue: ps
- Set as Default

Printing to Microsoft Windows LPD print spooler

Windows 2000, Windows XP, and Windows Server 2003 support an optional LPD print server. This enables the Tisio Linux device to print to a Windows LPD shared printer.

Installing LPD (UNIX) Print Services on Windows

To install UNIX LPD Print Services on Windows follow the following procedure:

- On the Windows PC Select Start->Control Panel->Add or Remove Programs. The Add or Remove Programs dialog box displays.
- 2. Scroll down and double click on TCP/IP Print Server Properties. The Dialog box is displayed.
- 3. Select Other Network File and Print Services. The Other Network File and Print Services box is displayed.
- 4. Select Print Services For UNIX and Click OK. Follow the prompts that ask for the Windows CD.
- This installs LPD on Windows. Next you need to start the service and ensure that it starts at boot. Select Start->Programs->Administrative Tools->Services.
- 6. Scroll down and double click on TCP/IP Print Server Properties.
- 7. Set Startup type to: Automatic.
- 8. Click Start button, then click OK.

Create a LPD printer on Windows

When creating a LPD printer on Windows you must have installed the TCP/IP Print Server feature for Windows. See section above on how to install the Windows TCP/IP Print Server feature. The TCP/IP Print Server feature allows windows PC's to print to network attached printers and to print to UNIX/Linux Print servers. To create a TCP/IP Printer on a Windows PC, do the following:

- 1. On the Windows PC Select Start->Control Panel->Printers.
- 2. From the Printers window select Add Printer or New Printer.
- 3. From the Add Printer Wizard, select a "Local Printer Attached to this Computer" and click Next.
- 4. Select "Create a new Port" and from the drop down box select "LPR Port".
- 5. Next in the Add LPR Compatible printer enter the name or IP address of the Printer or UNIX/Linux server and enter the name of the print queue on the server. For network attached printers just us **1p** or **ps**.
- 6. Next select the Printer manufacture and driver name and click Next.
- 7. Set the Printer name and enable sharing. The printer share name should be shortened and not contain any space characters. Click Next to finish.
- 8. On the Tisio Linux device open the Setup Wizard and select the Printer section. Using the Printer example 3 above create a printer to use the Windows printer created in step 7 above. Use the share name as the Remote Queue and the host name or IP address of the Windows PC.

Printing from Local Clients

The ICA client, RDP (Rdesktop) client, TeemX Terminal Emulator, and the Firefox Browser support local printing. These clients will automatically use the printer defined as the Default Printer in the Setup Wizard on the Printer screen. Printing from other clients on the Tisio Linux device are supported only through the remote host computer the local client has connected to.

Software Update Tab

The Update Manager window allows new client components to be installed from the Tisio Device Manager (TDM) server. The TDM server must be correctly defined under the Device Manager tab.

The Software Update window shows Installed Software components and any new available components to install.

Installed Packages

The Installed Packages window displays the version of installed software client components. The Information button displays detailed information about the selected installed component. Select the Uninstall button to remove the selected component.

Available Packages

The Available Packages window displays either newer versions of installed software or new software client components that can be installed from the TDM server. Click on the Install button to install optional or updated packages.

Tisio System Recovery

When the terminal is powered on, the "Tisio" logo appears while loading its operating system. After the operating system has been loaded, the Tisio will display the <u>initial screens</u> for normal use. If the initial screens do not display properly or the Tisio boot screen never disappears, then a system recovery should be performed.

The Tisio system recovery process downloads a new Operating System image from the Tisio Device Management recovery server. See the Tisio Device Manager Installation documentation on installing and configuring the Tisio Device Management recovery server.

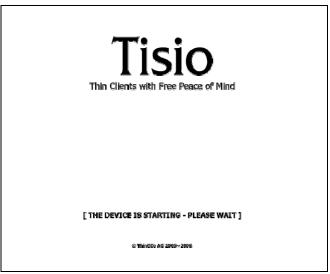
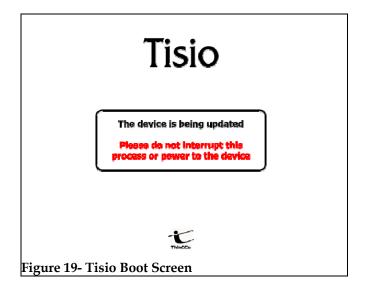


Figure 18 - Tisio Boot Screen

The Tisio system recovery process is initiated just after power on by a key press sequence. During the system recovery process the boot screen image below is shown.

Note The power to the Tisio terminal should not be interrupted until the system recovery has completed.



Initiating System Recovery

When the terminal is powered on, system recovery can be initiated using the key sequences below.

Key Press Sequence	Use
Ctrl+Alt+F10	Used to initiate a normal system recovery
	of the Operating System.
Ctrl+Alt+F2	Used to initiate an advanced system
	recovery of the Operating System with
	logging enabled.

The system recovery key sequence can only be pressed within a short period of time and only during the initial power up sequence. After power on, wait for a second beep before pressing the system recovery key sequence. There is a 3 second window in which the system recovery key sequences can be pressed. If the system recovery key sequence is pressed after the 3 second window it will be ignored. The diagram below shows what happens during power on and the recovery process.

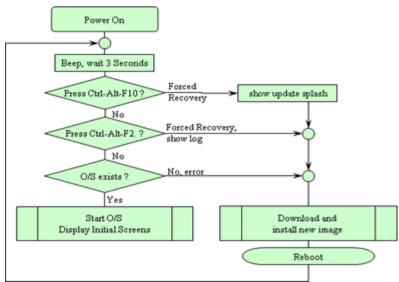


Figure 20 - Tisio Recovery Process

Start System Recovery

The system recovery key sequence can only be pressed within a short period of time and only during the initial power up sequence. To start Tisio system recovery, follow these steps.

- 1. Power on the Tisio terminal.
- 2. After power on wait for a first beep, and a short while later there will be a second beep. After the second beep there is a three second window in which the system recovery key sequences can be pressed.
- 3. Press the system recovery key sequence during the three second window. You will be prompted to approve the recovery.

4. If the system recovery key sequence is pressed after the three second window it will be ignored. Repeat the steps until the prompt to approve the recovery is shown.

After the Tisio recovery sequence completes, the <u>Tisio Startup</u> <u>Wizard</u> will appear indicating Tisio thin client has been fully recovered and set to factory defaults. Follow the steps in the section When the Tisio Setup Wizard Appears to configure your Tisio terminal.

In Case of Trouble

This section describes some exceptional circumstances that may occur when you power on the Tisio terminal or while using it. This is the place to look for information if the initial screen on your terminal does not resemble those described in initial screens.

If your problem is not addressed in this section, see your system administrator.

This section explains the steps to take if a network error dialog box or other error message appears and how to handle upgrade messages. Also discussed are screen display problems and blinking LEDs.

Display is Blank – Reset Video to VGA Mode

When the attached display is blank the video setting defined on the Tisio device may not match the supported video rates of the attached monitor. When the terminal is powered on, a video system initialization can be sent using the key sequences below. This will reset all Tisio video settings to a default VGA mode.

Key Press Sequence	Use
Ctrl+Alt+F8	Used to initiate a normal video system
	initialization of settings stored in the
	Operating System.

ALT+TAB does not work in a Remote Server Session

A remote server session is defined as a session from a Windows Terminal Server, A Citrix Presentation Server or a Linux/UNIX X Windows session. By default, the Atl+Tab key sequence is used by the Tisio's local window manager. Pressing the **Scroll Lock** key will allow the Alt+ Tab to be passed through to all remote server sessions.

The Tisio IP address is set to 0.0.0.0

If the terminal cannot detect the network connection, the Tisio IP address is set to "0.0.0.0". Check that the network cable is properly attached and the network indicator LED next to the network connector is on. Also ensure there is a DHCP server running on your network or open the Tisio Device Properties window and, under the <u>Network Settings</u> tab, assign a valid IP address.

Fixing a Cable Problem

If there is a problem with the terminal's network cable, the Network dialog box appears indicating that the terminal may not be connected to the network.

First, check the network cable connection at the terminal and at the outlet on the wall or hub. If the cable is not secure, make sure it is plugged. Once properly attached the Tisio terminal will automatically initialize its network interface and obtain an IP address from a DHCP server.

Fixing an Address Problem

If the terminal does not automatically receive the address information required for network communication, contact your system administrator.

If the system administrator is able to fix the problem on the DHCP address host, click Restart when told to do so.

If you have to fix the problem at the terminal:

- 1. Obtain the necessary address information from the system administrator.
- 2. Open the Tisio Device Properties window and under the <u>Network Settings</u> tab, assign the valid IP address provided by your administrator.

The Screen Looks Garbled

If the screen is unreadable or blank when you turn on the terminal, this means that the terminal's monitor settings (desktop area and/or refresh frequency) may be incorrect.

To restore the screen to a readable state, you must perform the <u>Reset</u> <u>Video to VGA mode</u>.

Error Messages Appear

If error messages appear right after you power on the terminal, the terminal may not be able to start. For example:

Unable to Load Operating System

If such messages appear and the terminal does not connect to a Terminal Server host or display a panel, contact your system administrator.

LEDs Blink on Front of Base Unit

If there is a problem and the terminal is not able to display an error

on the screen, the screen goes blank, the base unit beeps, and an LED on the front of the base unit blinks, contact your system administrator.

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