



Supported Equipment Manual

for the 2840 device manufactured by Symbol Technologies

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Chapter 1 • Introduction

2840 Description

The features of the PPT 2800 Series include real-time wireless communication options, extensive Internet browsing capabilities, WLAN or WWAN communication, and a high resolution 1/4 VGA display. The PPT 2800 Series offers fully integrated bar code scanning and Pocket PC functionality. Its rigorous drop, sealing and temperature specifications meet the needs of many industrial environments. The PPT 2800 also features conveniently-placed scan triggers and an ergonomic design.

The PPT 2800 Series runs at 206 MHz, has 32 MB RAM and 32 MB ROM and uses the Intel® StrongARM SA 1110 processor. It provides the standard PIM software and synchronization capabilities of the Pocket PC platform, compatible with 32-bit application development tools from Microsoft and third parties. An application-programming interface (API) makes it easy to integrate bar code data capture and wireless communication into new or existing applications. To learn more about the PPT 2800 Series, visit www.symbol.com/mobile.

2840 Picture

PPT 2800 Series Portable Pen Terminals



Requirements

Setup Requirements

Installation of PowerNet Twin Client requires, at a minimum, the following:

- A Pentium-class processor
- 32 MB of RAM
- 10 MB of free hard disk space available
- Microsoft Windows CE operating system

ActiveSync needs to be installed on the PC before downloading files to the terminal. For instructions, go to www.MSDN.Microsoft.com.

Accessories

In addition to a Lithium Ion battery, accessories for the 2840 terminal include:

- **Synchronization Charging Cable** synchronizes the PPT 2800 with a desktop computer, and can also be used to charge the terminal using an external power supply.
- **Single-Slot Charging Cradle (CRD 2700-1000S)** can be used to charge the terminal.
- **4-Slot Charging Cradle (CHX 2700-4000C)** can also be used to charge the terminal.
- **4-Slot Ethernet Cradle (CRD 2700-4000E)** charges the PPT 2800 and synchronizes the terminal with a desktop computer.
- **Vehicle Cradle (VCD X700-R000)** powers the terminal and charges its battery, and can be used to communicate with other devices such as printers.
- **Snap-On Modem Module (MDM 3003)** allows dial-up connections of the PPT 2800 terminal to a remote host computer, while maintaining the portability of the terminal.
- **Auto Charging Adapter (VCA 3000)** connects to the cigarette lighter in a vehicle to charge the terminal.
- **Trigger Handle (TRG 3000)** adds a trigger in scanning gun form to the PPT 2800, increasing comfort when using the terminal in scan-intensive applications for extended periods of time.
- **Magstripe Reader Attachment (MSR 3006)** snaps on to the PPT 2800 to add magstripe capabilities.

Synchronization Tools

Pocket PC devices require at least version 3.1 of ActiveSync for desktop synchronization and communication. ActiveSync 3.1 is freely downloadable from the Microsoft web site, at www.microsoft.com/pocketpc/downloads/activesync.asp.

Chapter 2 • Terminal Setup

Downloading from the WEB

The PowerNet Twin Client software package can be downloaded from the Connect web site at <http://www.connectrf.com>. Click on *Partner Services* and then click on *Software Downloads*. Select the file named *PowerNet Twin Client for Symbol*.

Running Setup from a Download File

The downloaded file is a compressed archive. After extraction using a utility such as WinZip or PKWARE, folders are created on the hard disk as shown in the following figure.

Name	Size	Type
disk1		File Folder
disk2		File Folder
disk3		File Folder
disk4		File Folder

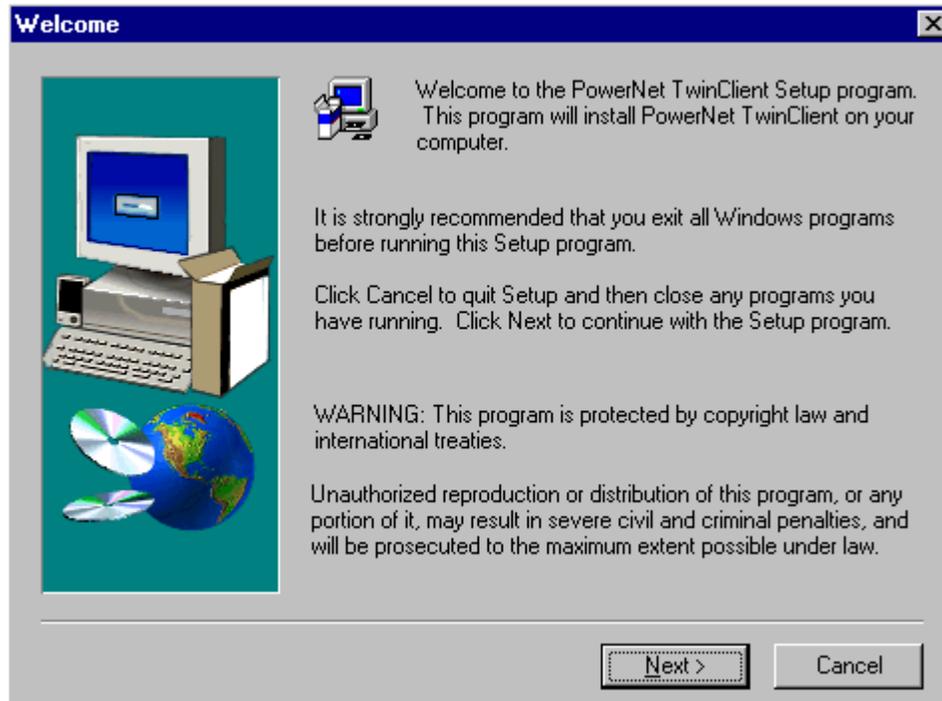
Click on the **Disk1** folder to view the files as shown in the following figure.

Name	Size	Type
inst3...	292KB	EX File
_ISD...	27KB	Application
_Setu...	34KB	Application Extension
_sys1...	172KB	WinZip File
_sys1...	4KB	HDR File
_user...	1KB	WinZip File
_user...	5KB	HDR File
Data.t...	1KB	TAG File
data1...	3,629KB	WinZip File
data1...	16KB	HDR File
hhp0...	4,270KB	WinZip File
lang.dat	5KB	DAT File
layout...	1KB	BIN File
os.dat	1KB	DAT File
setup...	185KB	Bitmap Image
Setup...	70KB	Application

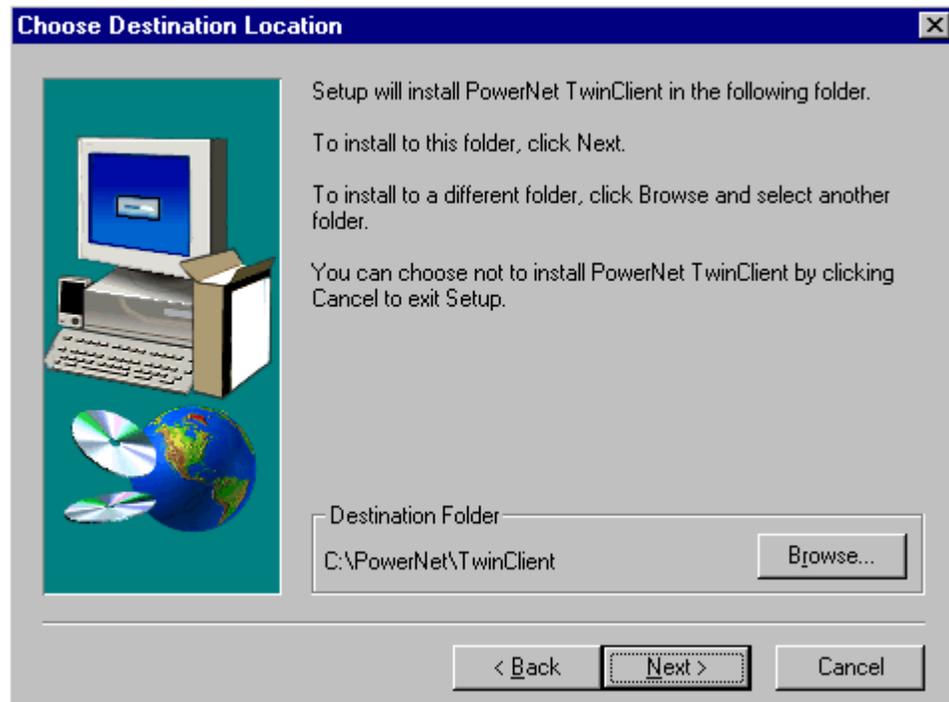
Click on the **Setup** application and proceed to the following section entitled *Installation* for further instructions.

Installation

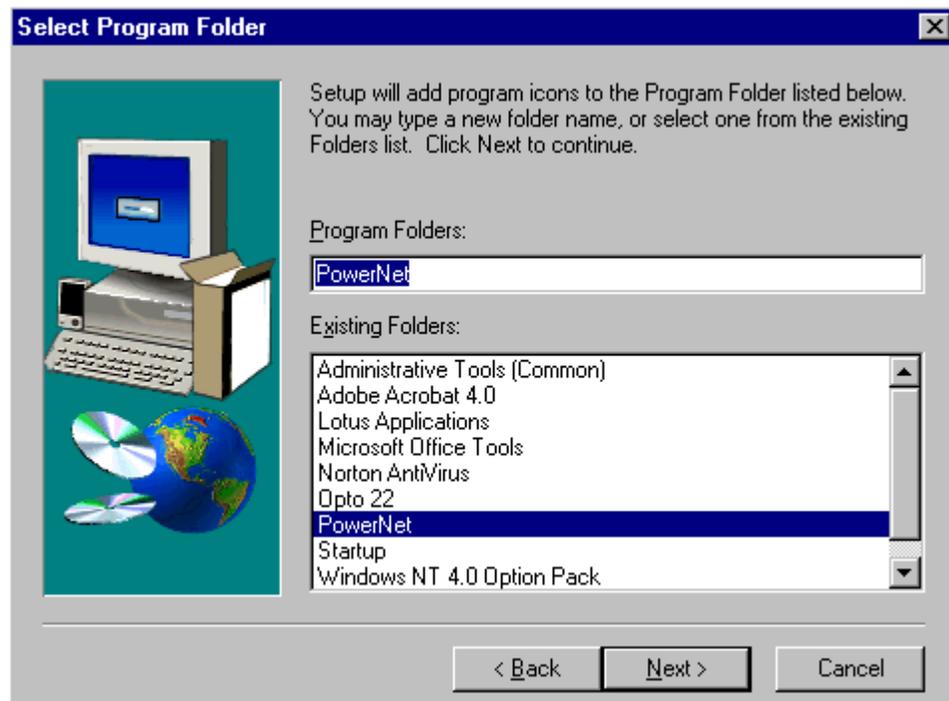
The InstallShield wizard runs and presents the following screen.



Click on **N**ext to begin the installation process.



To change the default Destination Location, click on **Browse** and select a location. Then click on **Next**.



The default folder is **PowerNet**. This default may be changed either by selecting an existing program group or by typing in a new name at the prompt. Then click on **Next**.



When the installation is complete, reboot the system to initialize the Twin Client software.

- a. To reboot the system immediately, click on **Finish**.
- b. To reboot later, click on the option to restart the computer later, and click on **Finish**.

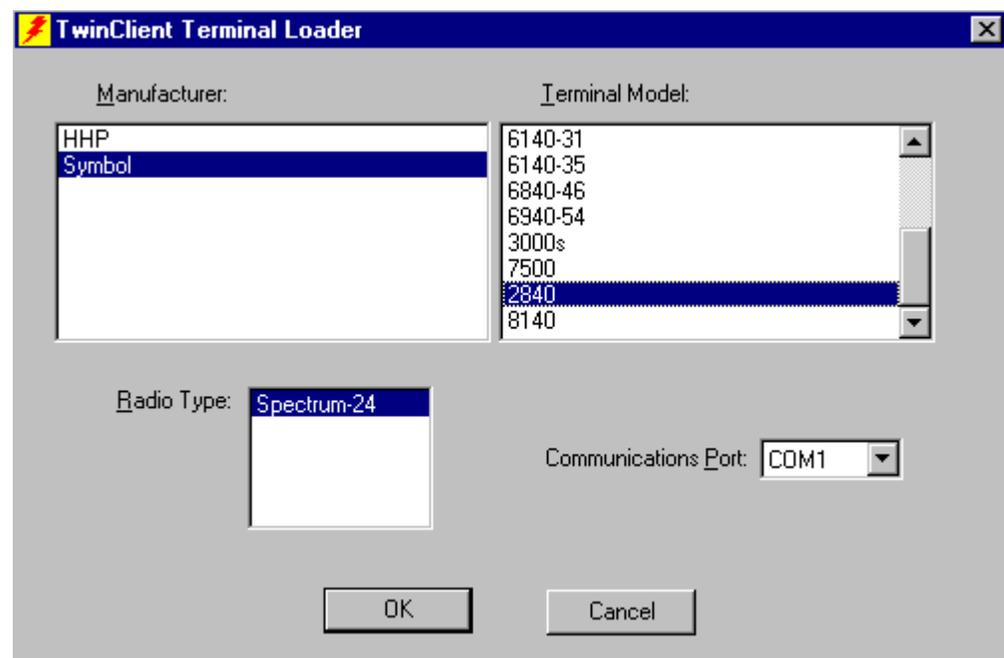
To run the Twin Client Configuration Wizard, click on Start, Programs, PowerNet, and Twin Client Manager. From the **File** menu, choose **Wizard**, as shown below.



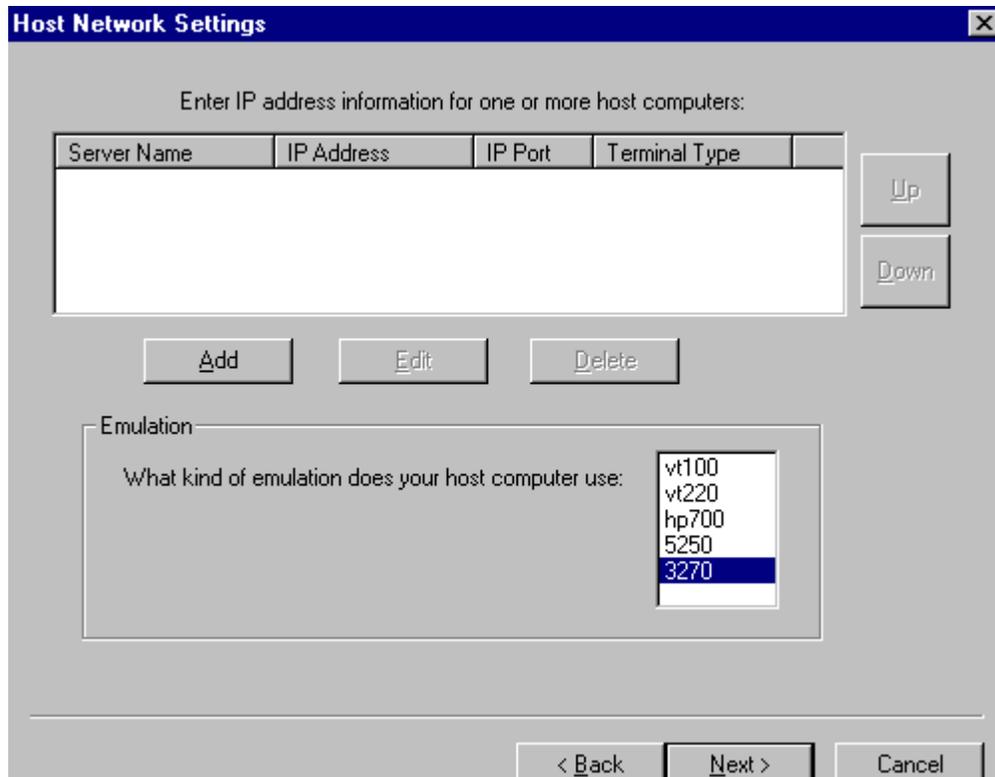
The Twin Client Configuration Wizard runs and presents the following screen.



Click on **Next** to begin the installation process.



Choose the terminal model, radio type, and communications port, and then click on **Next**.



Host Network Settings

Enter IP address information for one or more host computers:

Server Name	IP Address	IP Port	Terminal Type

Up

Down

Add Edit Delete

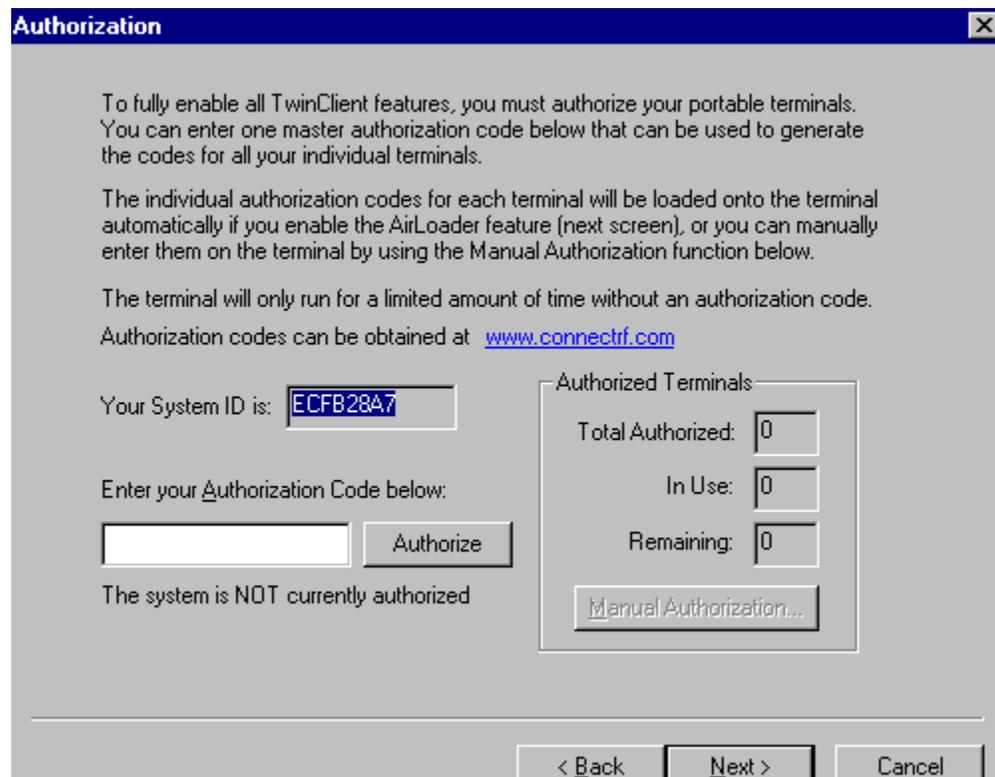
Emulation

What kind of emulation does your host computer use:

- vt100
- vt220
- hp700
- 5250
- 3270

< Back Next > Cancel

Enter the IP address information and choose the emulation, and then click on **Next**.



Authorization

To fully enable all TwinClient features, you must authorize your portable terminals. You can enter one master authorization code below that can be used to generate the codes for all your individual terminals.

The individual authorization codes for each terminal will be loaded onto the terminal automatically if you enable the AirLoader feature (next screen), or you can manually enter them on the terminal by using the Manual Authorization function below.

The terminal will only run for a limited amount of time without an authorization code. Authorization codes can be obtained at www.connectrf.com

Your System ID is:

Enter your Authorization Code below:

The system is NOT currently authorized

Authorized Terminals

Total Authorized:

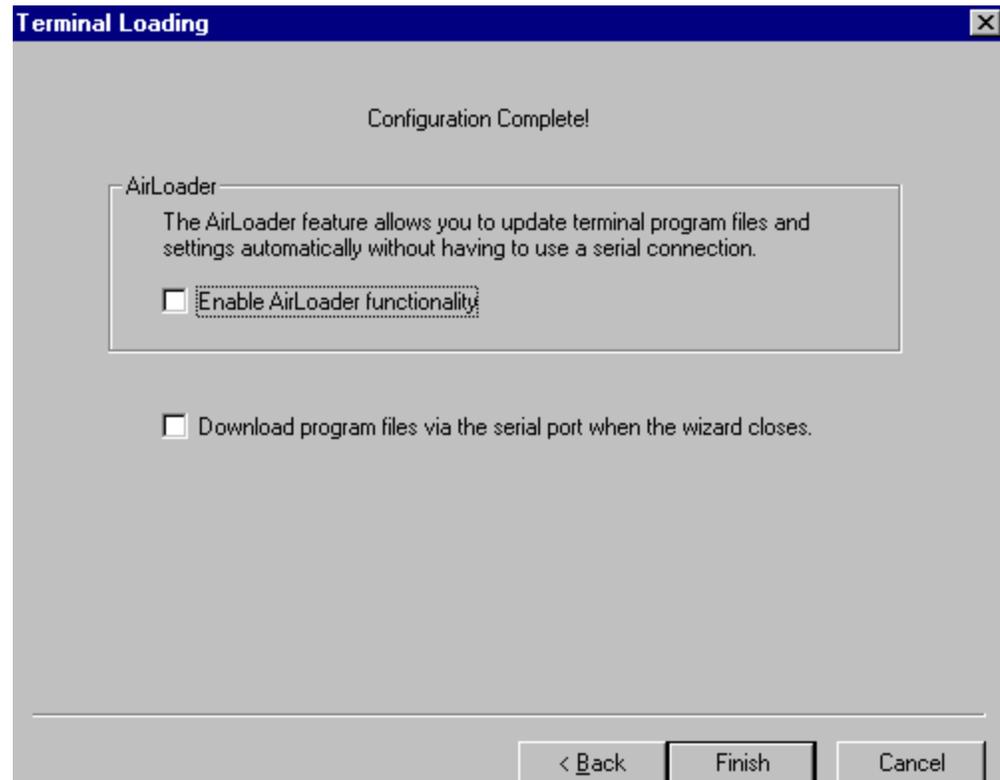
In Use:

Remaining:

< Back Next > Cancel

Enter the authorization code for Symbol, or choose the **Enable AirLoader functionality** feature on the next screen to load the individual authorization codes for each terminal

onto the terminal automatically. Click on **Next**. The PowerNet Twin Client Manager and terminal files are then installed.



Enable the second box to download the program files via the serial port when the wizard closes. Click on **Finish** to reboot the system to initialize the Twin Client software.

Running the Manager

The PowerNet Twin Client Manager is the utility that manages the terminal software and configurations.

Select **Start, Programs, PowerNet, and Twin Client Manager**. The PowerNet Twin Client Manager screen appears as shown in the following figure. This is the administrator's main screen, and all functions are accessed from its menu bar, tool bar, and tabs.

Menu Bar

The menu bar provides access to the functions used to configure the terminals and manage their software.



Toolbar

Under the menu bar, the tool bar provides shortcuts to major features. The toolbar can be turned on or off by changing the Toolbar parameter found on the **View** menu. The shortcuts available from the toolbar are as follows:



Create a new terminal configuration.



Open an existing terminal configuration.



Save the current terminal configuration.



Download the configuration to terminal.



Download software to terminal.



Automatically configure terminals over the wireless network.



PowerNet Twin Client Manager version.

The PowerNet Twin Client Manager is now successfully installed and ready for use. The section below entitled *Quick Start* provides detailed instructions for quickly configuring the terminal and starting a telnet session.

Quick Start

This section describes how to prepare the Twin Client Manager and the Symbol terminal for a Telnet session with the host. Following an initial serial download, the terminal software and configuration is managed automatically, over the wireless network.

Note: Symbol terminals are normally delivered with Symbol files pre-installed.

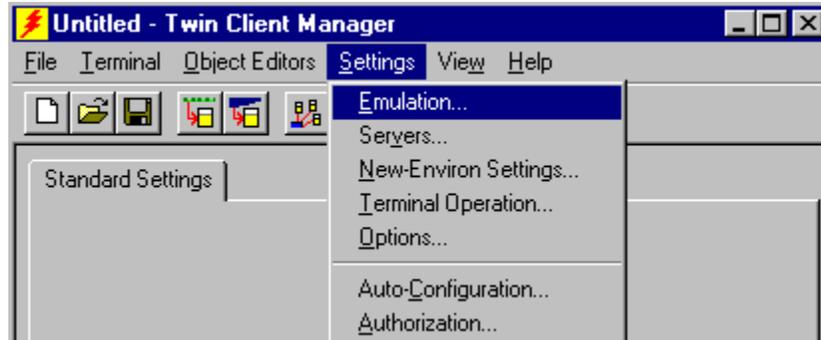
However, if the terminal does not have those files installed refer to the section entitled *Downloading Symbol 2840 Terminal Files* before proceeding.

Configuring the Manager

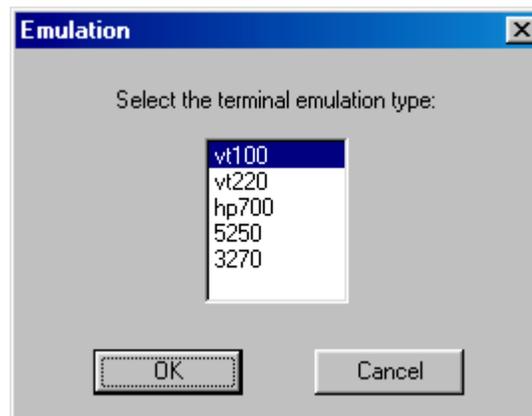
The first step is to configure the Twin Client Manager to meet site-specific requirements, and then prepare it for the automatic management of the terminal software and IP addresses. This simple procedure will require only a few minutes to complete.

Setting the Emulation

Click on **Start, Programs, PowerNet, and Twin Client Manager**. Select the **S**ettings menu, as shown below.

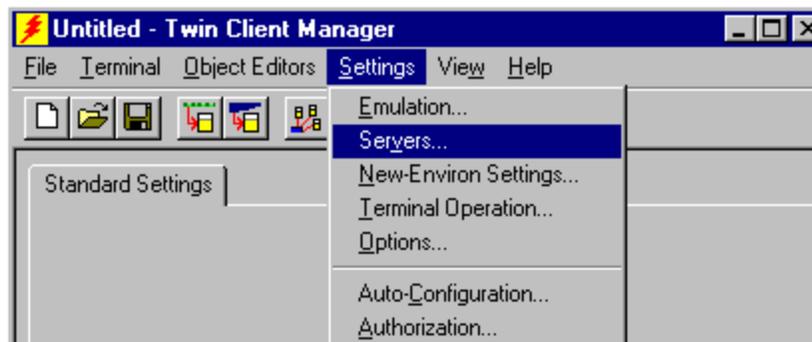


Click on **Emulation**, select the desired emulation, and click on **OK**.

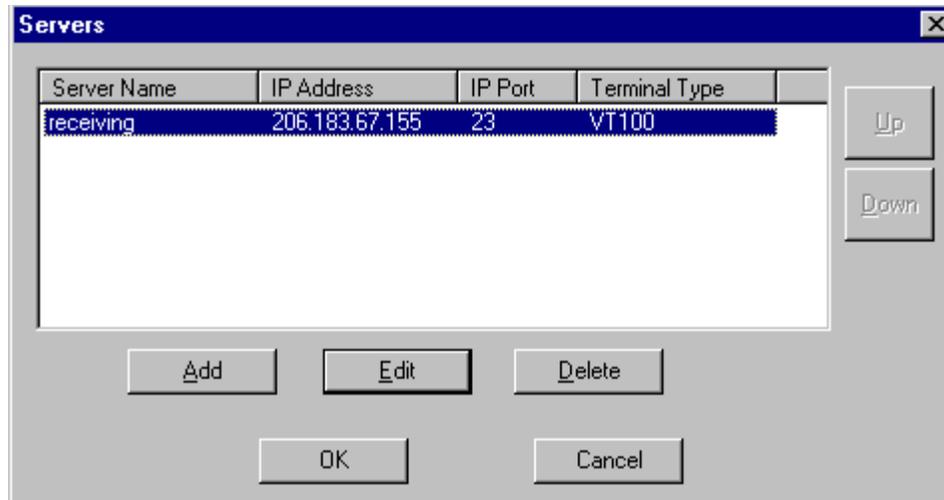


Setting the Servers

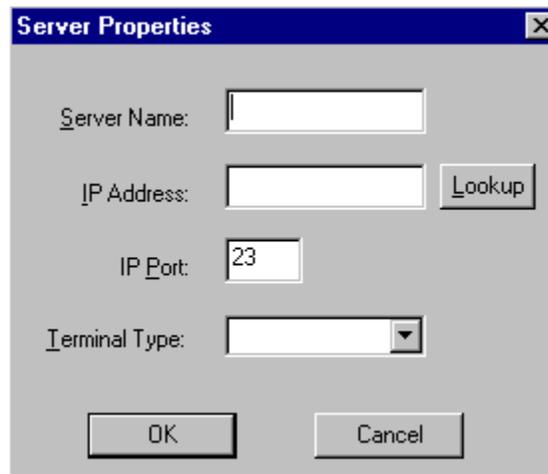
The Servers are the Telnet host systems the terminals will access.



To set these addresses from the **Settings** menu, click on **Servers**.



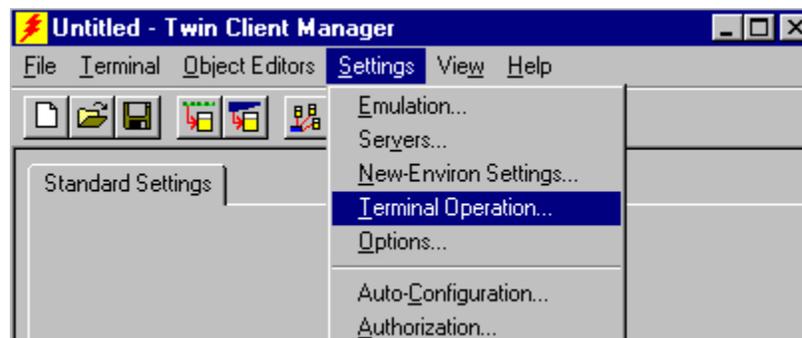
Then click on **Add**. Enter the name of the Server, its IP Address and IP Port (normally 23 for Telnet servers), and Terminal Type. Then click on **OK**.



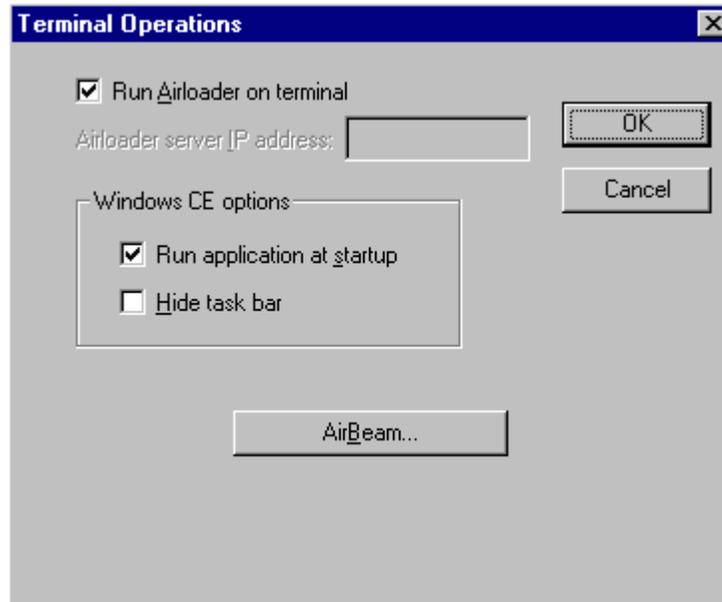
Repeat this step for each telnet server the terminals are required to access. If an error is made in the name, IP Address, IP Port number, or Terminal emulation type, click on the line that is in error and then click on the **Edit** button to make the corrections.

Terminal AirLoader and AirBEAM Operations

In the Twin Client menu under Settings, choose Terminal Operation.



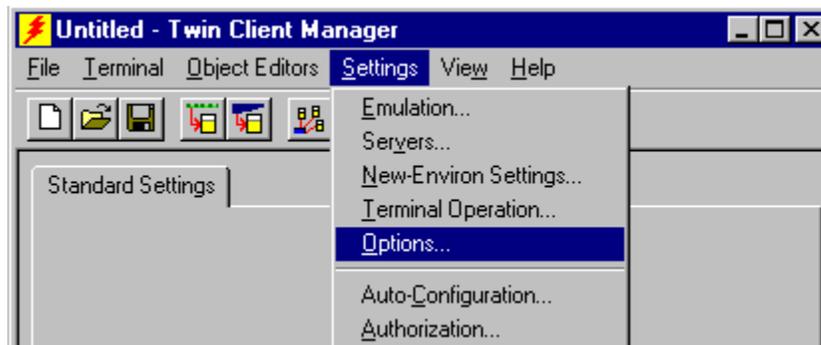
Run AirLoader on terminal can be selected, the AirLoader server IP address can be entered, and the Windows CE options of Run application at startup and Hide task bar can be selected, as shown below. Click OK.



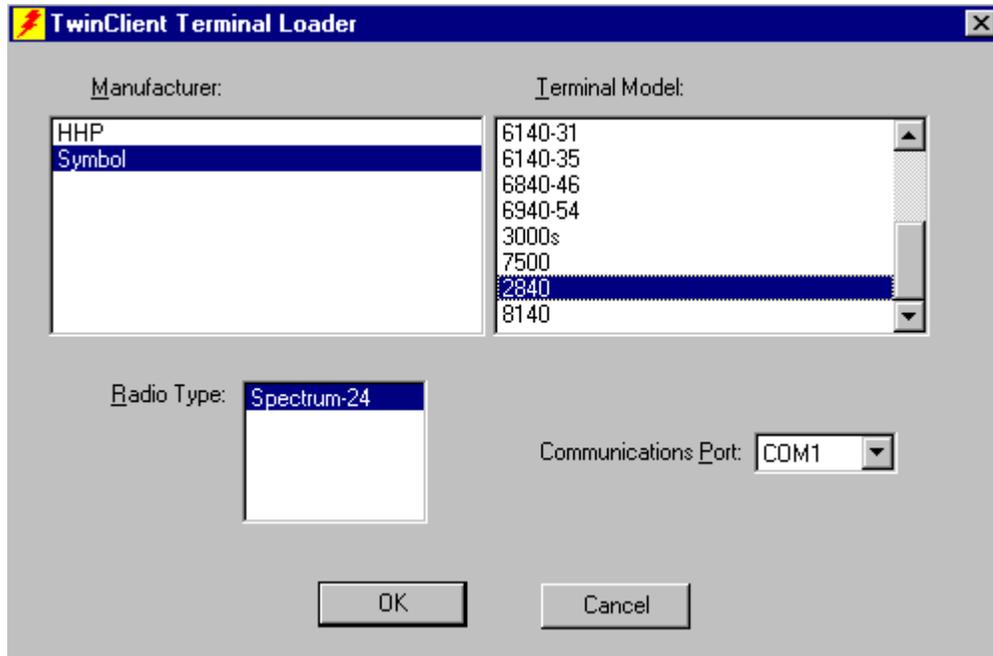
See the AirBEAM Operation section in the Symbol Twin Client manual for instructions on the AirBEAM option in this screen.

Setting Terminal Model and COM Port

The terminal model is 2840, and the default serial connection is through COM1. To select a specific Symbol terminal model and keypad, or to change the COM port assignment, click on the **Options** menu as shown.



To maintain compatibility with existing Symbol Telnet client keyboard layouts, a specific terminal model and keypad must be selected from the Terminal Model window.



The following illustrates the terminal model option to select based on your terminal model, under **Settings**, **Options**, and **Terminal Model**.

Terminal Model	Terminal Model Option
2840	2840

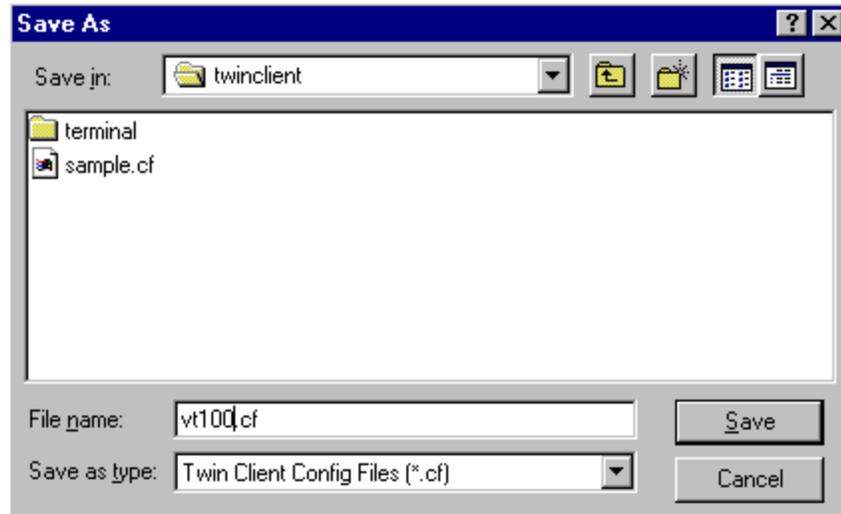
Note: Click on **New** the first time around to ensure that all defaults are set, especially when changing emulations.

Saving the Configuration

Click on **File** and **Save As**. Enter a name for this configuration.



For the purposes of this example, the name is vt100.



Setting Auto-Configuration

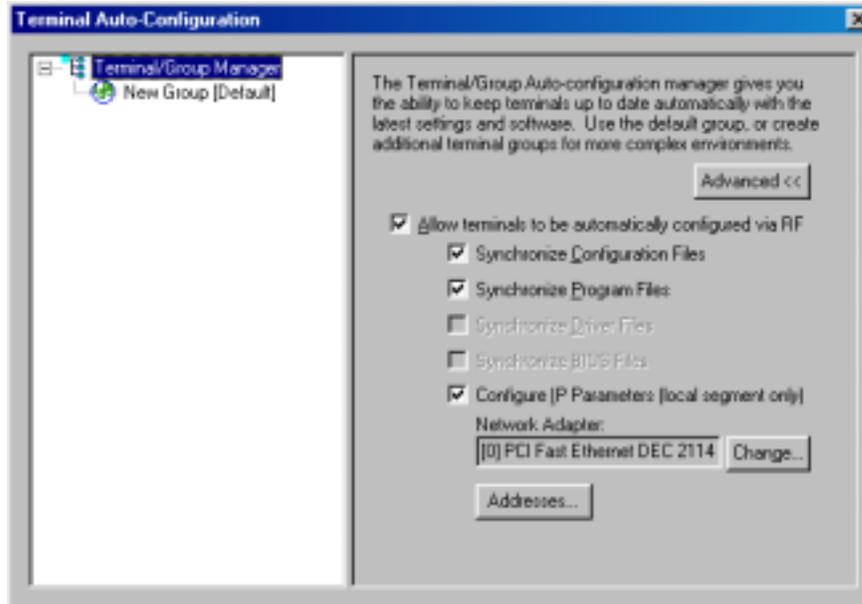
The configuration download and IP address assignment for each terminal will take place automatically by setting the Auto-Configuration options.



Click on the **Auto-Configuration** option in the **Settings** menu.

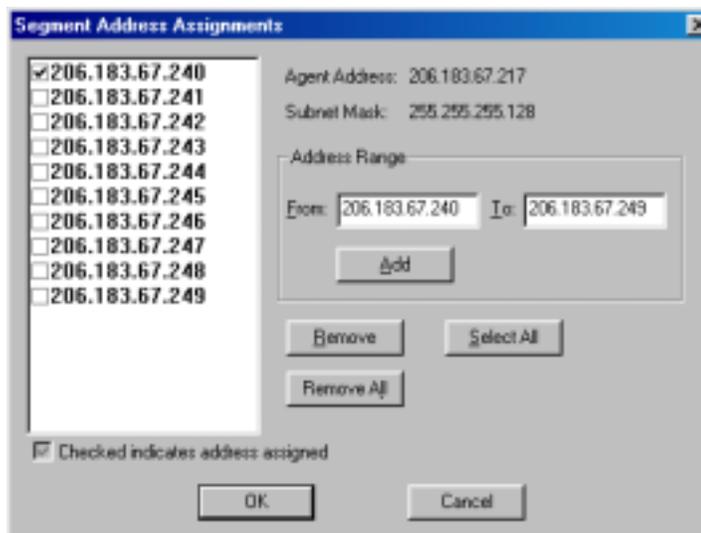
Note: If the Auto-Configuration window does not display the options, click on the **Advanced<<** button.

If multiple network adapters are installed on the PC, ensure that the desired network adapter is selected. The adapter selection can be changed by clicking on the **Change** button.



This powerful software management tool is described in detail in the section entitled *Software Management*. For now, it is sufficient simply to use it for assignment of the initial terminal configuration and IP address, all of which can be easily changed later. Ensure that all of the check boxes are checked as shown above.

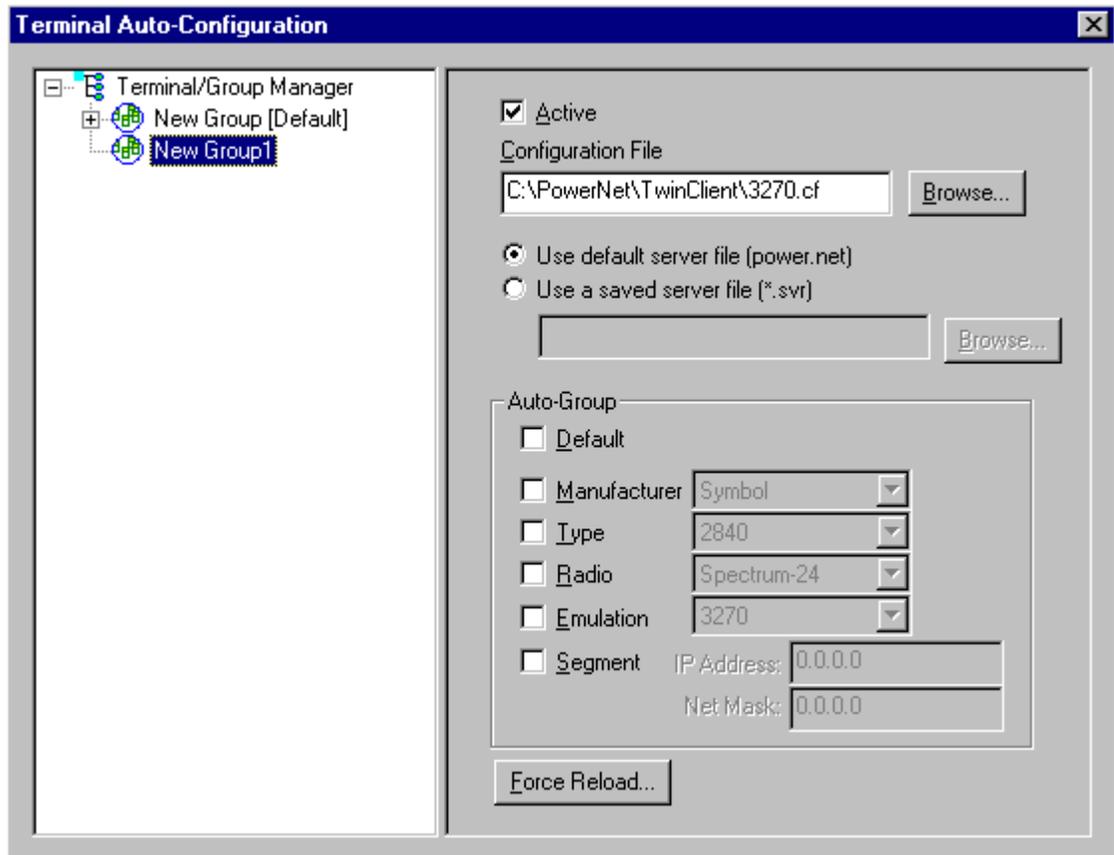
To assign terminal IP addresses automatically over the wireless network, check all of the boxes as shown above. Then click on the **Addresses** button and enter the desired range in the **From** and **To** boxes as shown in the following figure.



After setting the address range, click on **OK** to return to the Auto-Configuration screen and then click on the box next to the terminal group manager.



The display expands to include the default terminal Group. Next, click on the **New Group** icon and use the **Browse** button to select the configuration file saved earlier.



Check the **Active** box, and the system is now configured to automatically download IP addresses, software, and configuration files to the terminals. Click on the  box at upper right corner to return to the main menu.

Note: The software does not need to be authorized now. It can be authorized later, after a Telnet session has been established. The procedure is described in the section of this chapter entitled *Authorizing PowerNet*.

Cold Booting the Terminal

At any time it is necessary to update the terminal software and/or configuration, the terminal must be cold-booted. Instructions on performing a cold boot (also known as a hard reset) are as follows.

Cold Boot Sequence

Following Power Off

Remove the battery cover. While holding down the function button, use the stylus to gently press the reset button. Replace the battery cover and press the power button. The symbol splash screen will display for about a minute. When the welcome screen appears, tap anywhere on the screen to continue to the align screen.

Configuring the 2840 Terminal for Download

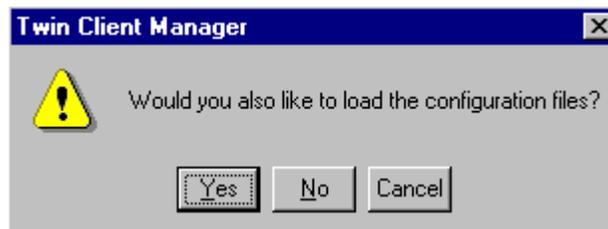
The terminal download requires a serial connection between the terminal and the PC through a cable. In preparation for this download, connect the cable to the selected serial port on the PC and to the 2840 terminal.

On the terminal, select **Start**, and choose **Programs** from the drop-down menu. Press the **Connection** icon, and then the **ActiveSync** icon.

On the PC, click on **Start, Programs, PowerNet, and Twin Client Manager**. Under the **Terminal** menu, choose **Send Program Files to Terminal**, as shown in the following screen.



The following screen is displayed.



Choose **Yes** at the prompt. The following screen is displayed.



Click on **OK**.

The PC is now configured to download to the terminal.

Starting a Telnet Session

At the Twin Client main menu on the terminal, press any key to establish the connection. Until the terminal has been authorized, the following screen is displayed.

```
RECOVERABLE ERROR
Terminal not
Authorized for
Twin Client

Keypress to Continue...
```

It is not necessary to authorize the terminal at this time, so press any key to continue. The terminal will establish a connection with the host system and start emulation.

After a Telnet session has been successfully established, the terminal will remain in session for a maximum of 30 minutes at a time until it has been authorized. Once authorized, there is no software restriction to the session time. The instructions for authorizing the terminal are presented later in this chapter.

Standard Setup

The default terminal setup is sufficient for most installations. However, to meet site-specific requirements it may be necessary to customize terminal operation. The standard setup options simplify this process and can be modified using any one of the following methods:

- Using the Twin Client Manager.
- Using the Twin Client terminal menu system.

To simplify the task for experienced Symbol installers, the standard setup options of both the Twin Client Manager and the terminal menu system match those of other Symbol products. As an additional conversion aid, customized Symbol configuration files can be imported and automatically converted to Twin Client.

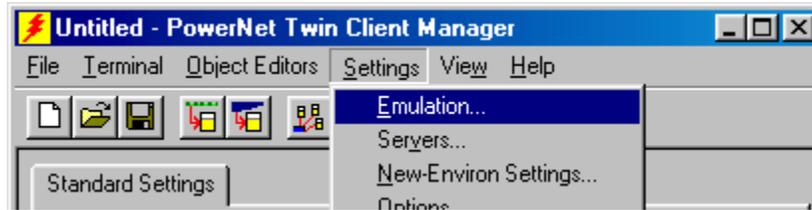
This section describes how to use the Twin Client Manager and the terminal menu system to setup the terminal. Also described are the methods for authorizing the terminal software.

Setup Using Twin Client Manager

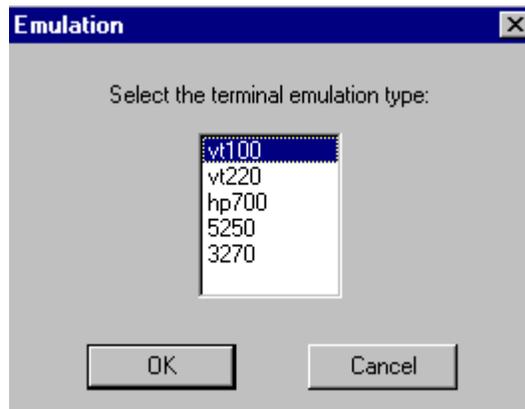
The Twin Client Manager provides a **Standard Settings** tab for automatic setup of the terminals. The options within this tab vary according to the emulation selected, each of which is described in the following sections.

VT and HP Settings

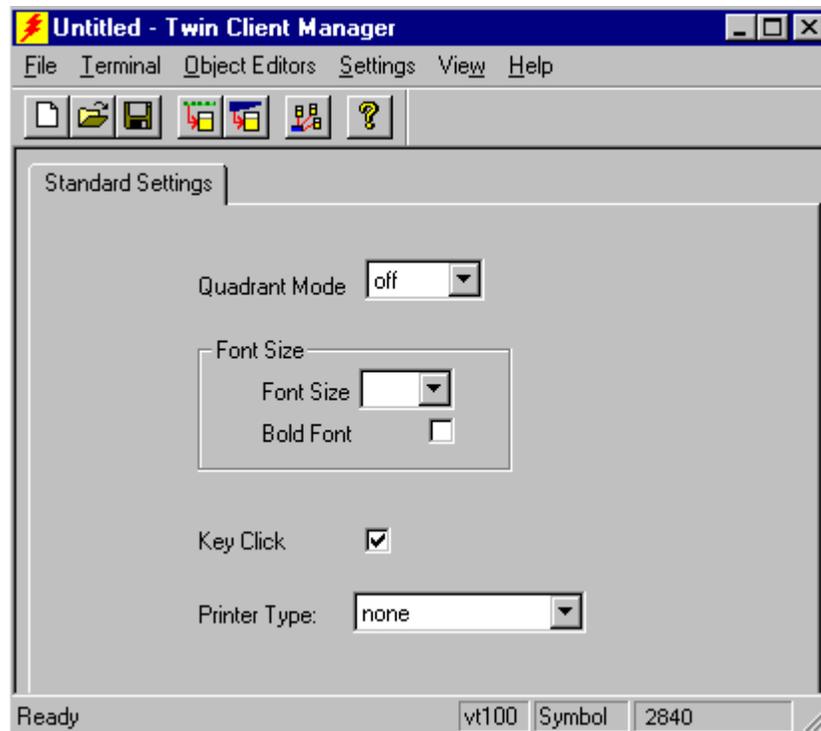
Select the VT and HP emulation setup by clicking on the **S**ettings menu and then the **E**mulation menu, as shown below.



Then click on the **VT100**, **VT220**, or **HP700** selection, as shown below.



Click on **OK** after the selection is made, and return to the main Twin Client Manager menu. The standard settings tab will now reflect the settings for VT/HP emulation.



Quadrant Mode

This scrolling list option defines the rules by which the terminal display is positioned in the larger host display. As defined by Twin Client, quadrants are fixed position "windows" in the host display, and the terminal display is located on whatever quadrant contains the current cursor position.

Off disables quadrant processing and Twin Client simply centers the current host input field in the terminal display.

On enables quadrant processing. However, input fields that cross quadrant boundaries result in a shift to the left in order to locate as much of the current input field on the terminal display.

Soft always positions on a quadrant boundary regardless of input field boundaries. Viewing keys are enabled.

Hard is the same as **Soft** except the viewing keys are disabled.

Lock locks the terminal display origin (upper left corner) to fixed row and column (x,y) coordinates in the host display. The coordinates are zero-based.

Lock Row defines the Y coordinate for display position locking. Range is zero (0) to maximum number of rows on the host screen. Default is zero (0).

Lock Column defines the X coordinate for display position locking. Range is zero (0) to the maximum number of columns on the host screen. Default is zero (0).

Font Size and Bold Font

Font size has a scrolling list of font size options. Bold Font has a check box that enables (checked) or disables (unchecked) the display of characters in bold font.

Key Click

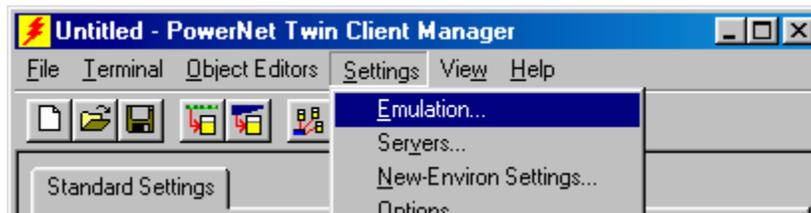
This check box enables (checked) or disables (unchecked) audible key clicks from the terminal. Default is on (checked).

Printer Type

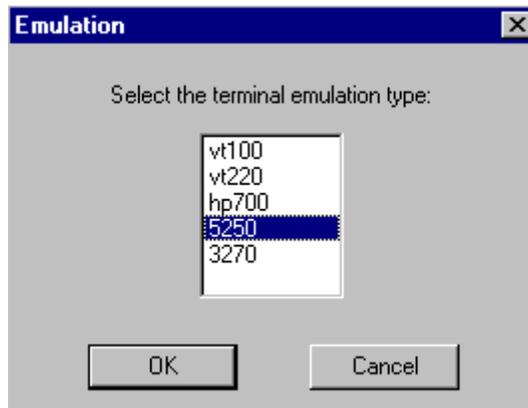
This scrolling list selects the attached printer type. The default value is **none**, indicating no printer is attached.

5250 Settings

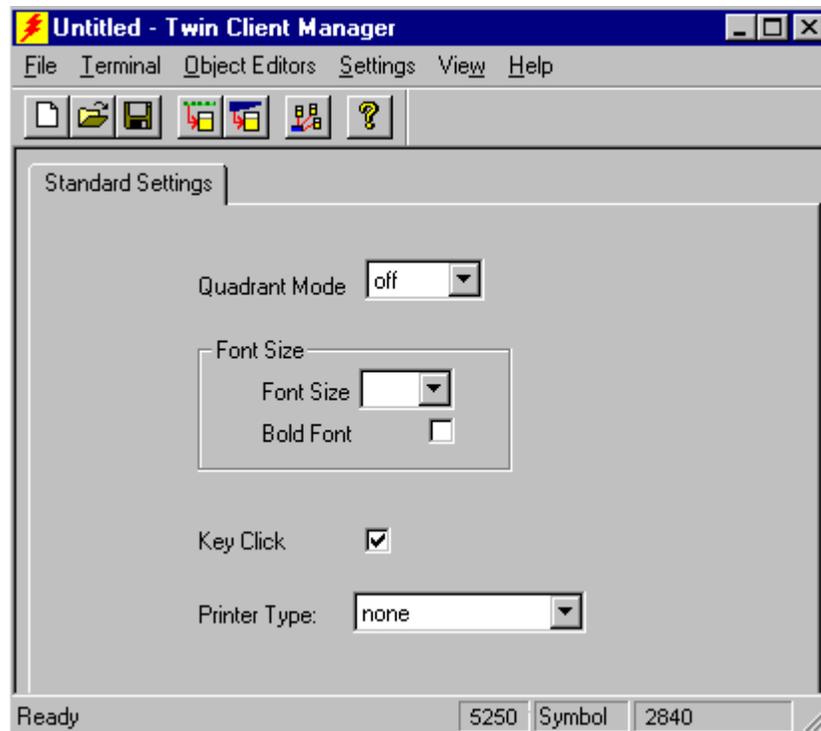
Select the 5250 emulation setup by clicking on the **S**ettings menu and then the **E**mulation menu, as shown below.



Then click on the **5250** selection, as shown below.



Click on **OK** after the selection is made, and return to the main Twin Client Manager menu. The standard settings tab will now reflect the settings for 5250 emulation.



Quadrant Mode

This scrolling list option defines the rules by which the terminal display is positioned in the larger host display. As defined by Twin Client, quadrants are fixed position "windows" in the host display, and the terminal display is located on whatever quadrant contains the current cursor position.

Off disables quadrant processing and Twin Client simply centers the current host input field in the terminal display.

On enables quadrant processing. However, input fields that cross quadrant boundaries result in a shift to the left in order to locate as much of the current input field on the terminal display.

Soft always positions on a quadrant boundary regardless of input field boundaries. Viewing keys are enabled.

Hard is the same as **Soft** except the viewing keys are disabled.

Lock locks the terminal display origin (upper left corner) to fixed row and column (x,y) coordinates in the host display. The coordinates are zero-based.

Lock Row defines the Y coordinate for display position locking. Range is zero (0) to maximum number of rows on the host screen. Default is zero (0).

Lock Column defines the X coordinate for display position locking. Range is zero (0) to the maximum number of columns on the host screen. Default is zero (0).

Font Size and Bold Font

Font size has a scrolling list of font size options. Bold Font has a check box that enables (checked) or disables (unchecked) the display of characters in bold font.

Key Click

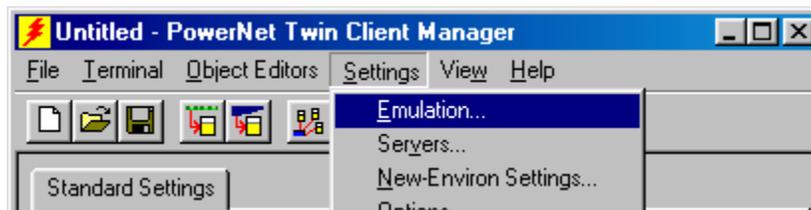
This check box enables (checked) or disables (unchecked) audible key clicks from the terminal. Default is on (checked).

Printer Type

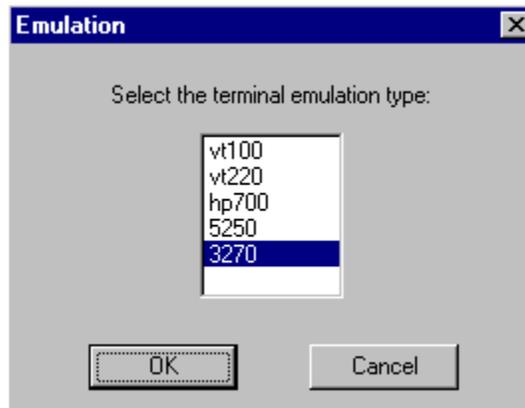
This scrolling list selects the attached printer type. The default value is **none**, indicating no printer is attached.

3270 Settings

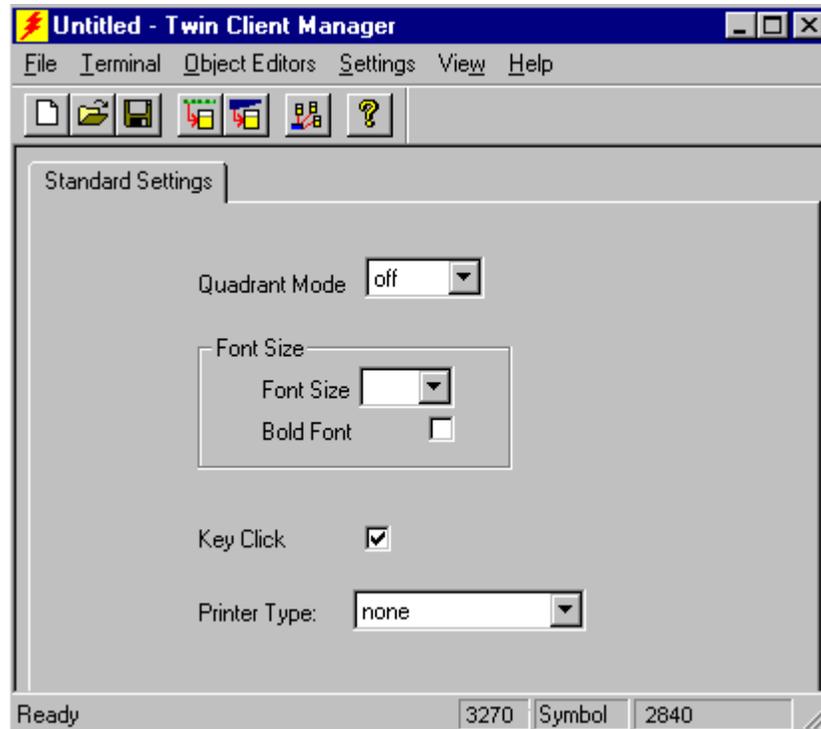
Select the 3270 emulation setup by clicking on the **S**ettings menu and then the **E**mulation menu, as shown below.



Then click on the **3270** selection, as shown below.



Click on **OK** after the selection is made, and return to the main Twin Client Manager menu. The standard settings tab will now reflect the settings for 3270 emulation.



Quadrant Mode

This scrolling list option defines the rules by which the terminal display is positioned in the larger host display. As defined by Twin Client, quadrants are fixed position "windows" in the host display, and the terminal display is located on whatever quadrant contains the current cursor position.

Off disables quadrant processing and Twin Client simply centers the current host input field in the terminal display.

On enables quadrant processing. However, input fields that cross quadrant boundaries result in a shift to the left in order to locate as much of the current input field on the terminal display.

Soft always positions on a quadrant boundary regardless of input field boundaries. Viewing keys are enabled.

Hard is the same as **Soft** except the viewing keys are disabled.

Lock locks the terminal display origin (upper left corner) to fixed row and column (x,y) coordinates in the host display. The coordinates are zero-based.

Lock Row defines the Y coordinate for display position locking. Range is zero (0) to maximum number of rows on the host screen. Default is zero (0).

Lock Column defines the X coordinate for display position locking. Range is zero (0) to the maximum number of columns on the host screen. Default is zero (0).

Font Size and Bold Font

Font size has a scrolling list of font size options. Bold Font has a check box that enables (checked) or disables (unchecked) the display of characters in bold font..

Key Click

This check box enables (checked) or disables (unchecked) audible key clicks from the terminal. Default is on (checked).

Printer Type

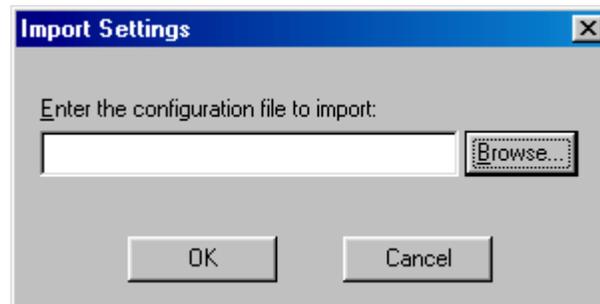
This scrolling list selects the attached printer type. The default value is **none**, indicating no printer is attached.

Importing Custom Configurations

Existing installations that use a custom Symbol configuration file are easily converted to Twin Client with the **Import** option found under the **File** tab of Twin Client Manager.



Click on **Import**, and if necessary then click on the **Browse** button to locate the file.



To further simplify conversion, the import utility displays all conversion errors and warnings so that potential compatibility problems can be easily identified and corrected.

Terminal Setup Using Twin Client Menus

The Twin Client terminal software provides an internal menu system for configuring certain parameters on the terminal and for switching between "server" and "telnet" mode of operation. To access this menu system, press uppercase **C** at the startup screen as shown in the following figure.

```

Twin Client
© 1991-2003, Connect, Inc.

Keypress to Continue

```

Use the **Up-Arrow** and **Down-Arrow** keys to navigate the menu, and press **Enter** to select the highlighted option. Each menu option is described in the following sections.

Editing the IP

The IP list contains the terminal IP address, the Subnet Mask and the Router IP address. Enter the appropriate address and select <F3> to save and/or <F7> to Quit.

```

IP 206.232.71.38
SN 255.255.255.0
RT 206.232.71.1

<F3> Save <F7> Quit

```

Edit Radio

This function acts as a password to join the radio network. Terminals associating with an Access Point must supply a matching value, determined by their configurations, or their association requests will be ignored.

```

ID tsunami_____

<F3> Save <F7> Quit

```

Editing the Host List

If the host IP address or addresses were not pre-configured as described earlier in the section *Setting the Servers*, or if you wish to change those settings using the terminal menus, select **Edit Host List** and enter up to four Host IP addresses as required.

```

Host 0
IP 206.183.67.155
Port 23__

<F3> Save <F7> Quit

```

Press **F3** to save the configurations.

Editing the Authorization

The client software can be authorized automatically, as described in the next section. This menu option permits authorization of each terminal manually. Select **Edit Authorization** to obtain the terminal's *Identification Code*, which is then used to obtain the Authorization code from the Connect web site as described in the next section.

The 12-digit hexadecimal value displayed at the top of the terminal screen is the Identification Code for the terminal.

```
00A0F826E614
Authorization
_____
not authorized
<F3> Save <F7> Quit
```

Type the authorization code into the field as it appears on the WEB site. Punctuation characters, such as the hyphen (-), are required. Press **F3** to save the authorization code.

Switching Modes

The PowerNet Twin Client normally operates in "telnet" mode, which provides direct connection to Telnet hosts. It can also operate in "server" mode, through a PowerNet OpenAir server. Select the **Switch Modes** menu option to switch between server and telnet modes of operation. Note that the host socket address for the PowerNet OpenAir servers is 1800, which must also be changed in the **Edit Host List** menu described at the beginning of this section.

Running the Emulator

After all desired changes have been made, select the **Run Emulator** option to return to the Twin Client main menu. Then press any key to establish the Telnet session and begin emulation. Refer to *Starting a Telnet Session* for further instructions.

Authorizing PowerNet

Each PowerNet Twin Client will run for 30 minutes at a time without authorization. Uninterrupted operation for a production environment is the result of authorizing the software. Authorization codes are obtained from the Connect web site at <http://www.connectrf.com> on the **Partner Services** page. Click on the **Generate Authorization** icon at the top of the page. A **PowerNet Key** is required and can be obtained by contacting Connect Tech Support at 630.353.1800.

Automatic Authorization

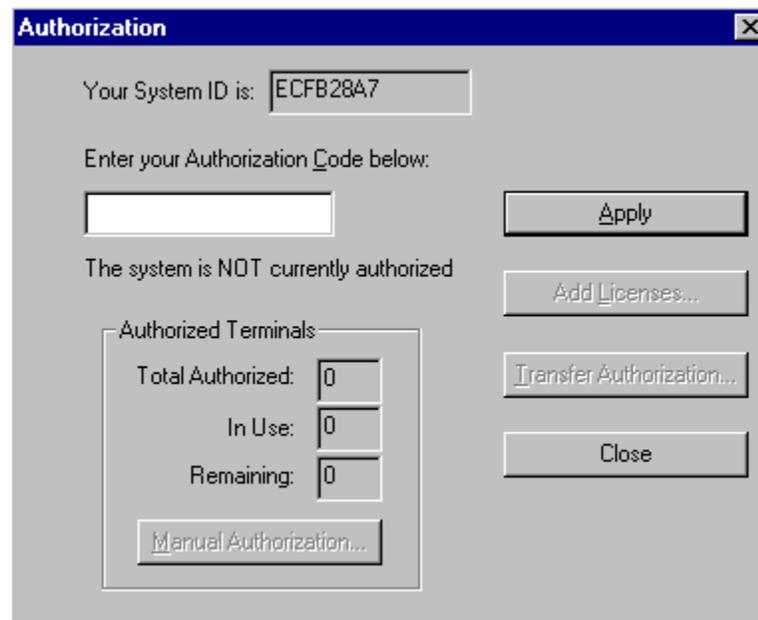
The Twin Client Manager can automatically authorize the terminal over the wireless network if the following requirements are met:

- A PC running Twin Client Manager is connected to the wire LAN segment with at least one access point within range of the terminal.
- The AirLoad HEX file is installed on the terminal as described earlier in this chapter.
- The **System ID** of the PC on which Twin Client Manager is installed has been used to obtain a site license Authorization code from the Connect web site.

To obtain the System ID of the Twin Client Manager, click on the **Authorization** option in the **Settings** menu, as shown below.



The Authorization window is displayed as shown below.



The **System ID** (in this case, ECFB28A7) is the value that is entered as the **Identification Code** on the Connect WEB site authorization page.

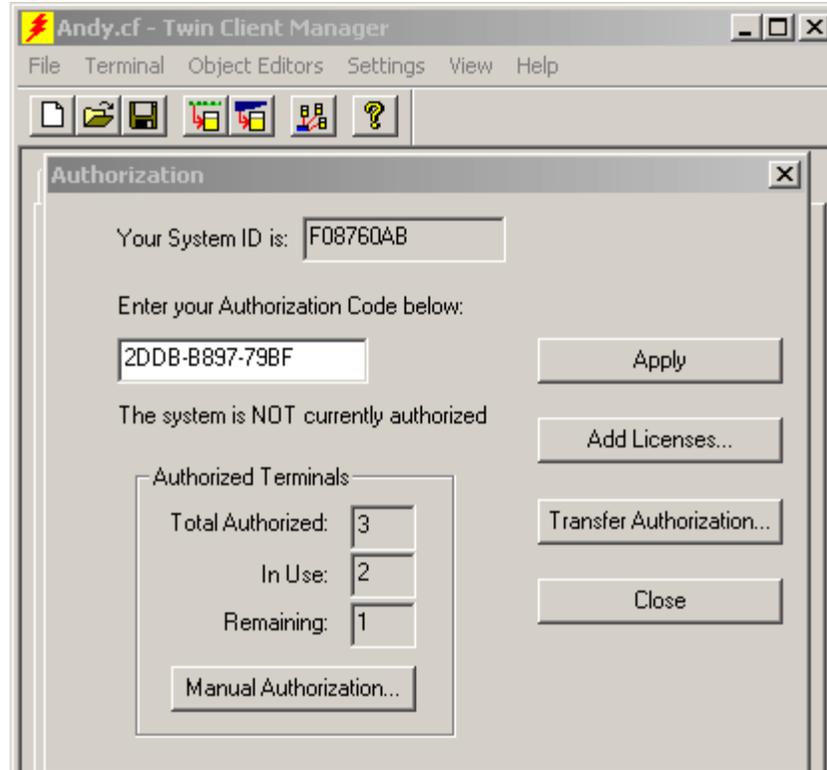
Manual Authorization

The procedure for manually setting the Authorization code on the terminal is described in the previous section entitled *Editing the Authorization*.

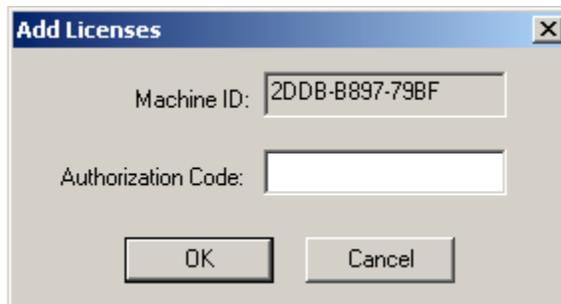
Adding Licenses

The Add Licenses feature is used when adding additional licenses to an already site licensed Twin Client manager. (i.e. Twin Client manager is licensed for 10, and the customer purchases another 10 licenses to make a total of 20.)

From Twin Client manager, choose **Authorization** from under the **Settings** menu. Click on the **Add Licenses** button.



A pop-up box appears with the machine ID and a space for the additional licenses authorization code.



Use the machine ID in the pop-up box instead of the original machine ID to get your authorization code.

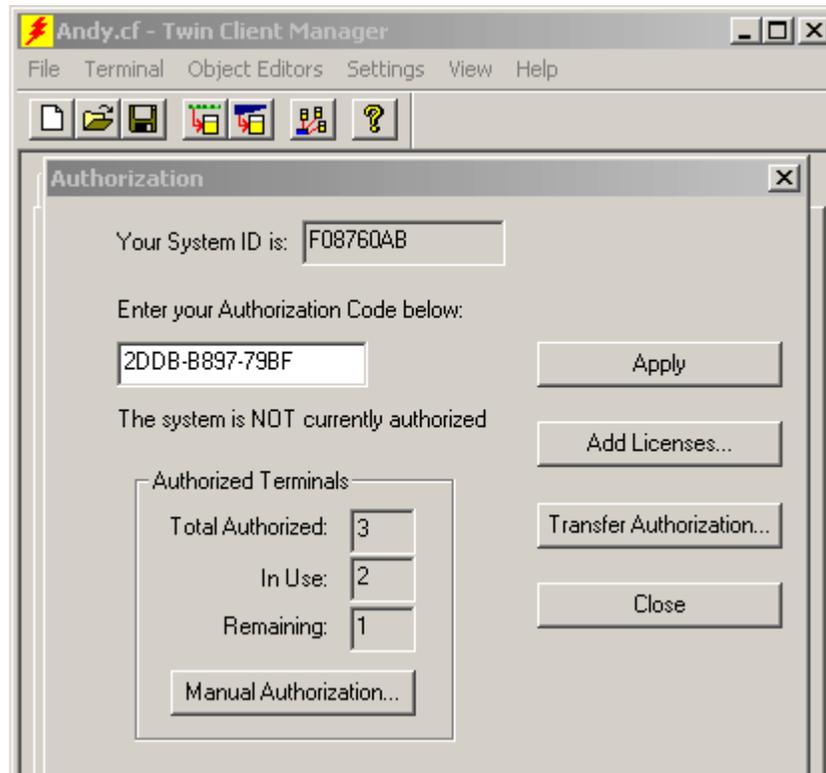
If adding users, click on the **Add Licenses** button before generating the authorization code to get the most current machine ID.

Transferring Licenses

The Transfer Licenses feature is used when moving a site license from one PC to another. After Twin Client manager is installed on a new PC, you will need the system/machine ID for it.

From Twin Client manager, select **Authorization** from under the **Settings** menu.

Click on the **Transfer Authorization** button on the old PC. You will be asked for the new system ID. Enter this new system ID. It will generate an authorization code for the new PC's Twin Client manager.



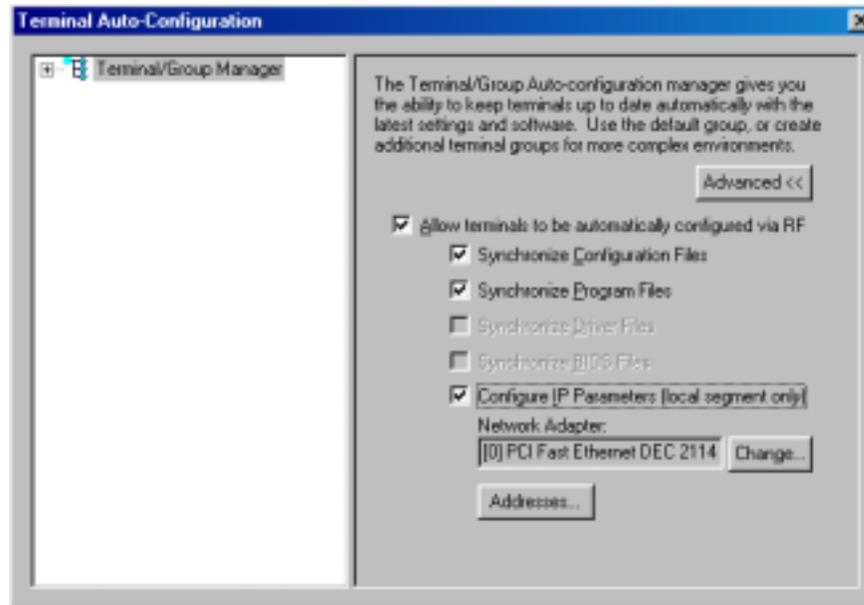
Note: This feature only works if there are licenses remaining on the old PC.

Software Management

In addition to providing functions for the download of files to the terminal via the traditional serial connection, the Twin Client Manager also provides for the management of terminal software and configurations automatically, over the wireless network. This section describes the automated capability in detail.

Auto-Configuration

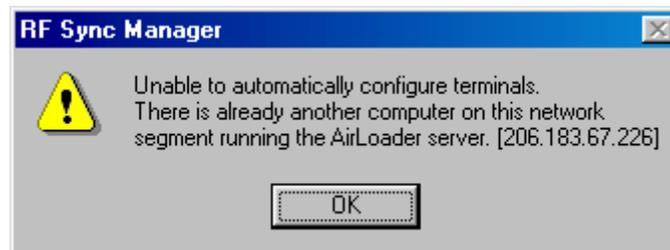
The software and supporting configuration files for all Twin Client terminals can be configured for automated management after installing the Twin Client AirLoad Hex file in the terminals, as described in the section entitled *Quick Start*. The Auto-Configuration from is accessed from the Twin Client Manager **Settings** menu.



Note: If no options are displayed, click on the Advanced<< button.

Enabling Automatic Downloads

Click to put a check in the box that allows terminals to be automatically configured via RF to enable automatic downloading. In the event another PC on the network is already configured and active, the following warning message is displayed.



Synchronizing Configuration Files

Click to put a check in the Synchronize Configuration Files box to enable automatic synchronization of configuration files on the terminal. When the terminal is cold booted, its configuration files will be compared with the most recent on the PC. The terminal is updated automatically if it does not have the latest revision.

Synchronizing Program Files

Click to put a check in the Synchronize Program Files box to enable automatic synchronization of program files on the terminal. When the terminal is cold booted, its program files will be compared with the most recent on the PC. The terminal is updated automatically if it does not have the latest revision.

Automatic IP Address Assignment

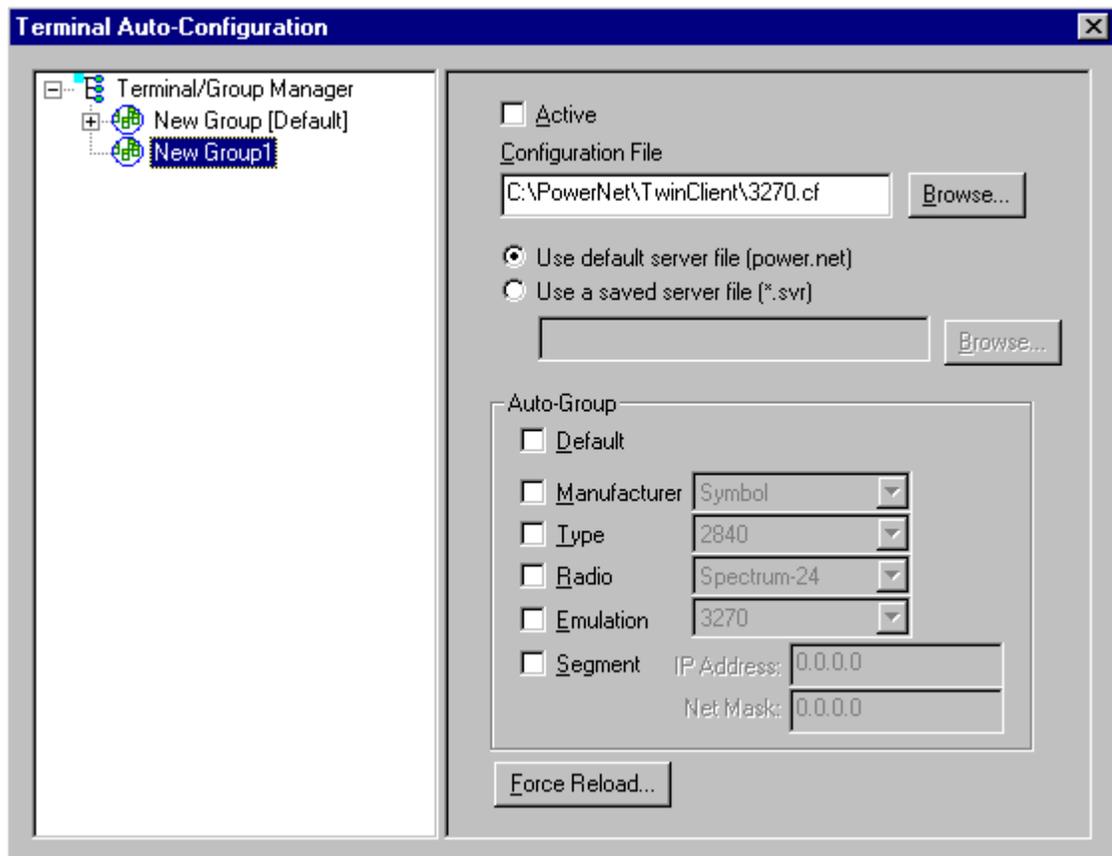
Automatic IP assignment does not work on the 2840 because of limitations in its TCP/IP stack. However, a DHCP server will work with the device.

Creating New Groups

New groups, with different configurations, can be created by clicking on the Terminal Group Manager, and then clicking the right mouse button as shown.



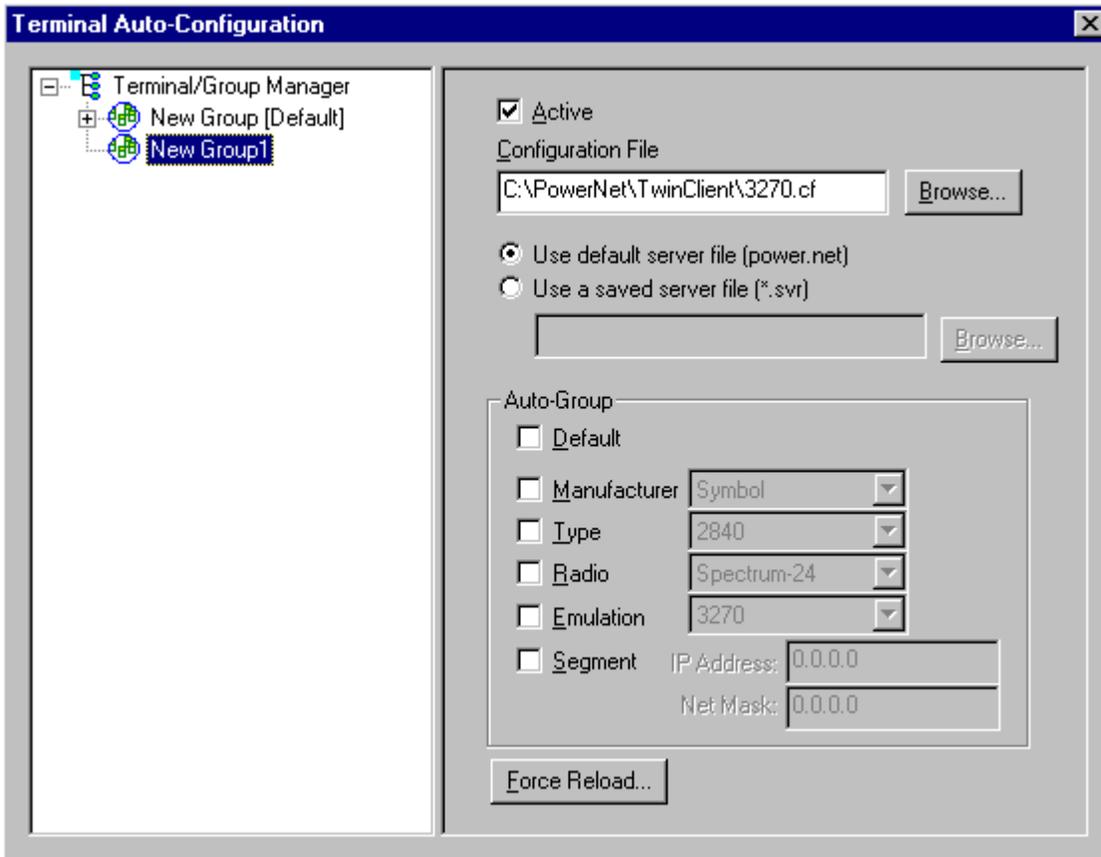
After the new group has been created, the group settings option become available for change, as shown below.



After the Configuration File and all of the other parameters have been set, the group is made active by clicking in the **Active** check box.

Note: A setting under the Group allows you to associate a saved server file (.svr file) with a particular group. This means that the .svr file will get sent to the terminal

in place of the default power.net file. The .svr files are created in Twin Client Manager under Tools/Servers.

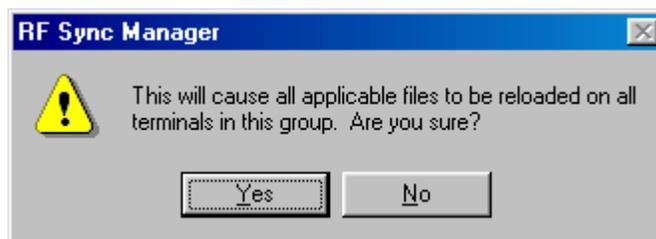


Setting the Segment

Checking the **Segment** button restricts a terminal group to a range of IP addresses. The IP Address can be any valid address on the segment as it is used only to identify the segment. The setting of the Net Mask can be used to restrict the range. This feature is useful for segregating terminal groups by location.

Setting Force Reload

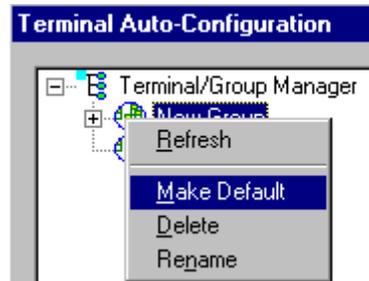
Clicking on the **Force Reload** button forces all terminals within a group to be automatically updated. The following warning message appears.



Click on the **Yes** button to force the reload.

Setting the Default Terminal Group

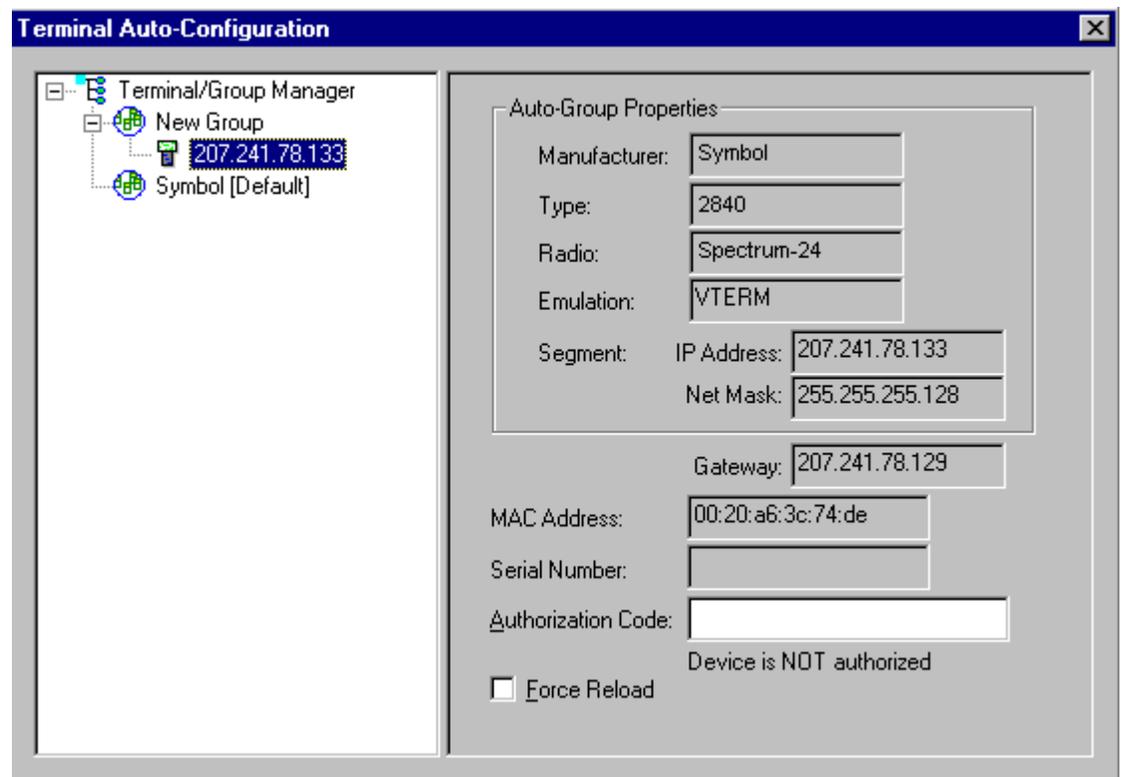
New terminals that have not yet been assigned to any group are initially assigned to the default group in effect when they are cold-booted.



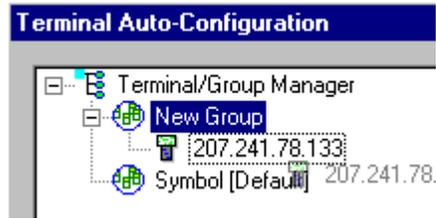
Any group can be made the default group by clicking on the group, and then clicking on the right mouse button. Then click on the **Make Default** option.

Reassigning Terminals

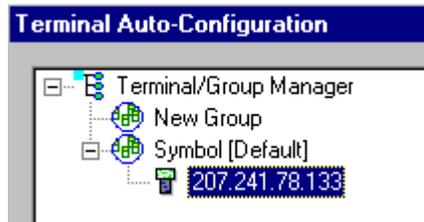
After a terminal has been configured and assigned to the default group, it can be reassigned to a new group by clicking on the terminal icon as shown below.



Then, holding the mouse button down, drag the terminal icon to the desired group as shown next.



Release the mouse button, which reassigns the terminal.



The next time the terminal is rebooted, it will be reconfigured as defined in the group specification.

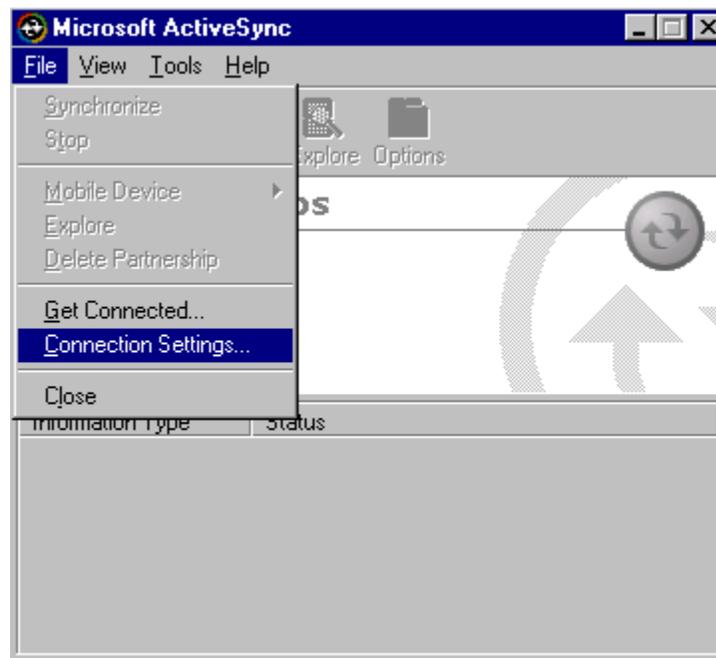
AirLoad Configuration

On the typical Symbol terminal, the client software will automatically find the autoconfiguration server and check for updates. On the 2840, however, this is not possible. Instead, this terminal requires that the IP address of the AirLoad server be specified. AirLoad automatically downloads program and configuration files to the terminal.

AirLoad Configuration is selected on the 2840 terminal by selecting **File Explorer**, **Programs Files**, **Connect**, **CE**, and **CE Load Configuration Application**. A screen appears in which the IP address can be entered and a choice of **Run AirLoad** can be checked.

Sending Program and Configuration Files to the Terminal

1. Boot the terminal.
2. Go to **Start**, **Settings**, and **Control Panel**.
3. Double-click on the **Communications** icon.
4. Select the **PC Connection** tab.
5. Click on **Change Connection** if you want to change the baud rate.
6. Change the baud rate here if necessary, and click **OK**.
7. On the PC, choose **Connection Settings** from the **File** menu in ActiveSync.

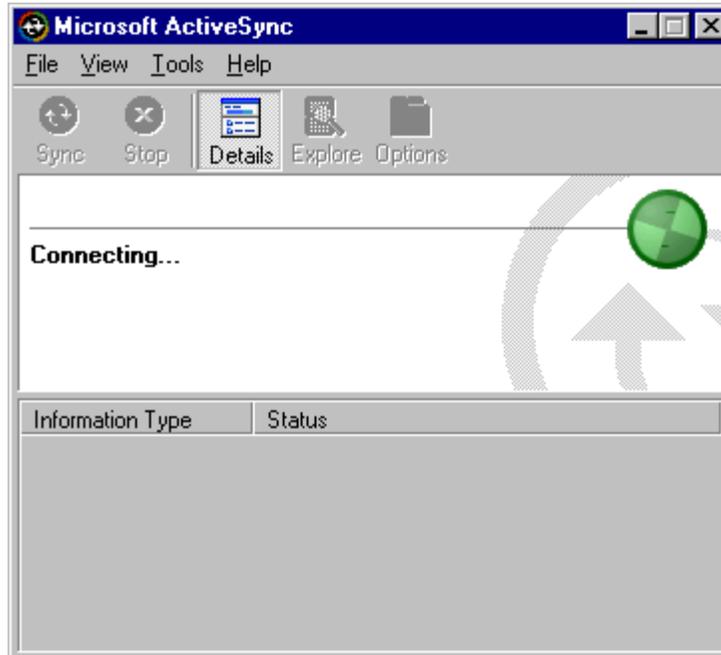


The **Connection Settings** screen appears as follows.

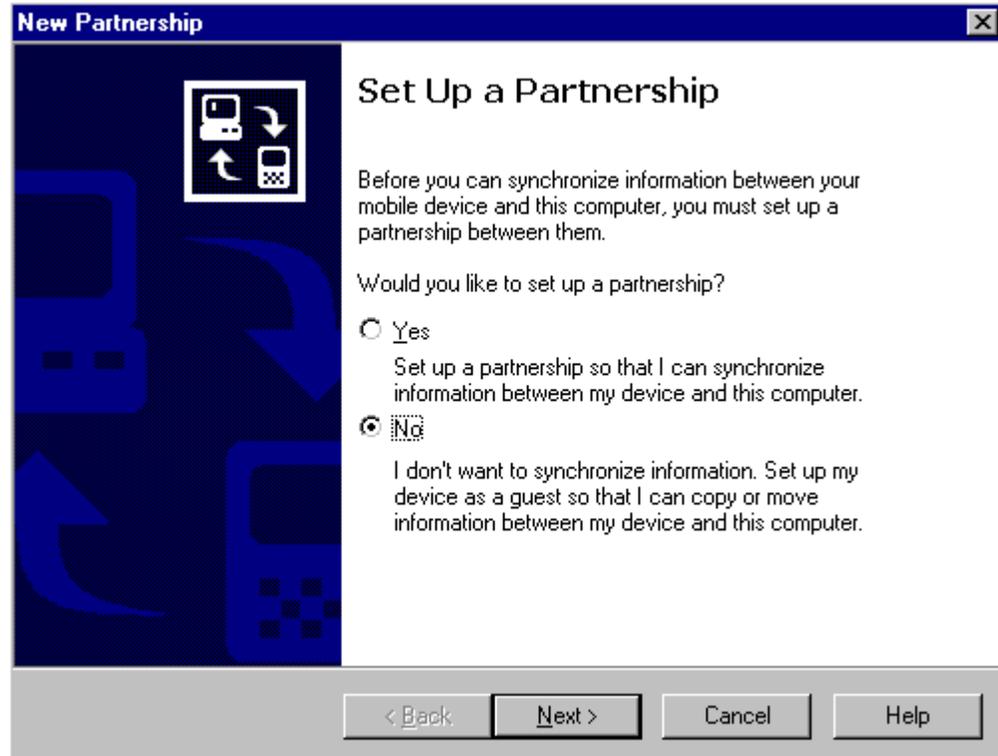


8. Make sure that the box is checked in front of the option entitled, **Allow serial cable or infrared connection to this COM port.**
9. Click on **OK.**

While ActiveSync is connecting, you will see the following screen.

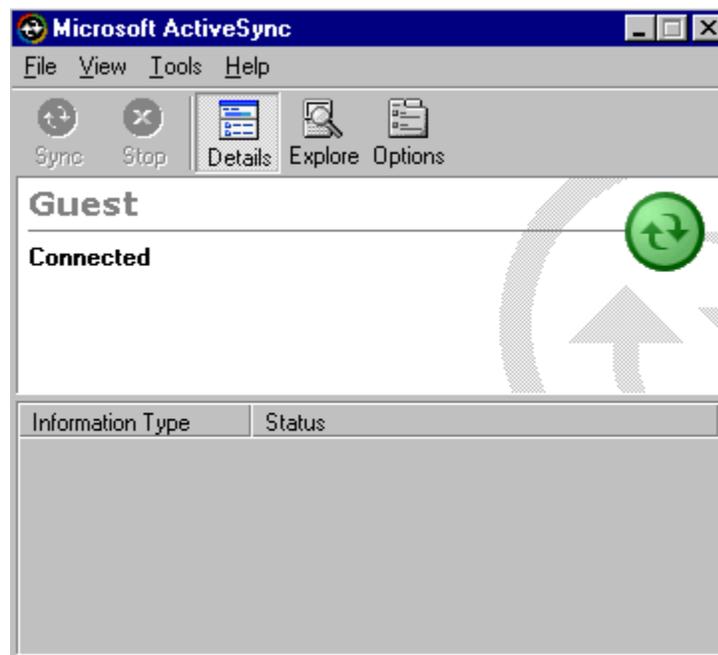


When ActiveSync has connected, you will see the screen below.



10. Select **No**, and then click **Next**.

The **Connected** screen appears.



11. On the PC, select **Send Program Files to Terminal** from the **Terminal** menu in Twin Client Manager.



The following screen will appear.



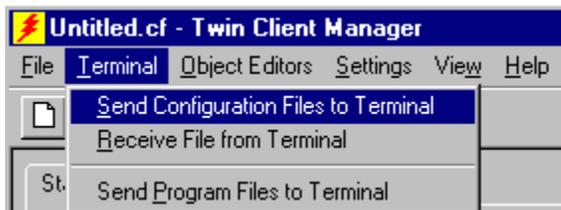
12. Click on **OK**.

The following screen will appear.

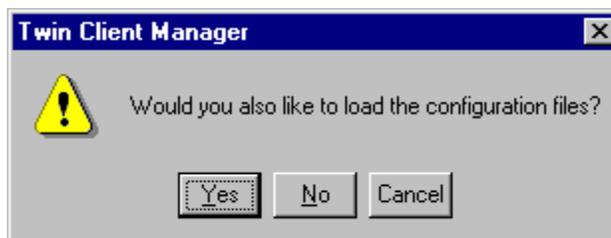


13. Click on **OK**.

14. On the PC, choose **Send Configuration Files to Terminal** from the **Terminal** menu in Twin Client Manager.



You will see the following screen.



15. Choose **Yes**.



16. Click on **OK**.

The following screen will appear.



17. Click on **OK**.
18. On the terminal, click on **Start, Programs, File Explorer, and Windows**.
19. Select the **Aironet Client Utility** icon.
20. Enter the SSID, etc..
21. Click on **OK**.
22. Click on **Start, Settings, and Control Panel**.
23. Select the **Network** icon and choose on the **Properties** tab.
24. Set the **IP Address, Subnet Mask, and Default Gateway**, and click on **OK**.
25. Click on **Start, Programs, TwinClient, and AirloaderSetup**.
26. Make sure that the **Run AirLoad** checkbox is checked or unchecked, as desired.
27. Click on **OK**.
28. Warm boot the terminal.

Warm Boot the Terminal

To perform a warm boot also known as a soft reset, hold down both the up and down scroll buttons and press the App 4 button.

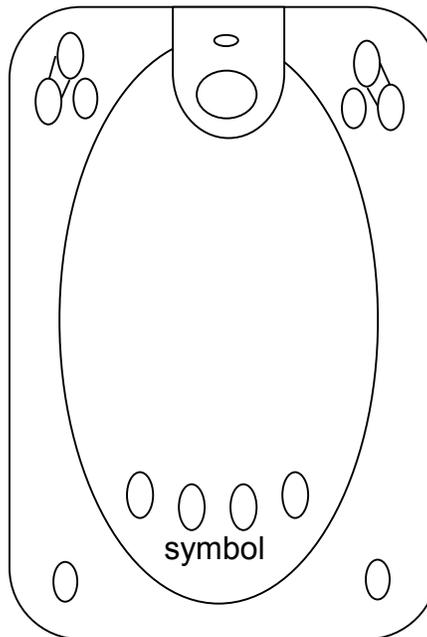
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Chapter 3 • Keypad Configuration

This chapter describes the default Twin Client key assignments applied to Symbol 2840 terminals. The figures and tables identify the key assignments by emulation.

The software keyboard is accessed by tapping the arrow at the bottom, right corner of the terminal and selecting **Twin Client Keyboard**.

Keypad Figures



The Symbol 2840 Terminal

Home	Insert	Pg Up	Pg Dn
Find	Remove	Select	←

VT100 Keys

Standard	Function	Special
----------	----------	---------

Home	Reset	EOF	Clear	Sys Req
PA1	PA2	PA3	←	

3270 Keys

Standard	Function	Special
----------	----------	---------

Help	Attention	Sys Req	Field Exit	Field Plus	Field Minus
Home	Erase to End of Field	Reset	Erase	Clear	Insert
Roll Down	Roll Up	Print	Dup	FM	←

5250 Keys

Standard	Function	Special
----------	----------	---------

F1	F2	F3	F4	F5	F6	F7	F8
F9	F10	F11	F12	F13	F14	F15	F16
F17	F18	F19	F20	F21	F22	F23	F24

Shift	CTL	←
-------	-----	---

Function Keys

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10			
ESC	1	2	3	4	5	6	7	8	9	0	-	=
→	q	w	e	r	t	y	u	i	o	p	[]
Caps	a	s	d	f	g	h	i	k	l	;	'	
↑	z	x	c	v	b	n	m	,	.	/	←	
CTL	áü	`	\						↑	↓	←	→
Std				Func				Special				

Lowercase Character Standard Keyboard Mode

F1	F2	F3	F4	F5	F6	F7	F8	F9	F10				
ESC	ı	ı	œ	ƒ	£	¥	§	ß	±	μ	-	=	←
→	à	á	â	ã	ä	å	æ	ç	ð	ñ	[]	
Cap ~	è	é	ê	ë	ì	í	î	ï	þ	š	'		
↑	ò	ó	ô	õ	ö	ù	ú	û	ü	/	↵		
CTL	áü	ý	ÿ					↑	↓	←	→		
Std				Func				Special					

Lowercase International Symbol Keyboard Mode

Keypad Table

The keypad table in this section is organized by emulation. The key values represent the default keypad assignments applied to the terminal in Twin Client advanced mode.

Key	VT	3270	5250
a	<a>	<a>	<a>
b			
c	<c>	<c>	<c>
d	<d>	<d>	<d>
e	<e>	<e>	<e>
f	<f>	<f>	<f>
g	<g>	<g>	<g>
h	<h>	<h>	<h>
i	<i>	<i>	<i>
j	<j>	<j>	<j>
k	<k>	<k>	<k>
l	<l>	<l>	<l>
m	<m>	<m>	<m>
n	<n>	<n>	<n>
o	<o>	<o>	<o>
p	<p>	<p>	<p>
q	<q>	<q>	<q>
r	<r>	<r>	<r>
s	<s>	<s>	<s>
t	<t>	<t>	<t>
u	<u>	<u>	<u>
v	<v>	<v>	<v>
w	<w>	<w>	<w>
x	<x>	<x>	<x>
y	<y>	<y>	<y>
z	<z>	<z>	<z>
1	<1>	<1>	<1>
2	<2>	<2>	<2>
3	<3>	<3>	<3>
4	<4>	<4>	<4>
5	<5>	<5>	<5>
6	<6>	<6>	<6>
7	<7>	<7>	<7>
8	<8>	<8>	<8>
9	<9>	<9>	<9>
0	<0>	<0>	<0>
Esc	<Esc>	<Esc>	<Esc>
Tab	<Tab>	<Tab>	<Tab>
Caps Lock	<Caps Lock>	<Caps Lock>	<Caps Lock>
Shift	<Shift>	<Shift>	<Shift>
Ctrl	<Ctrl>	<Ctrl>	<Ctrl>
Alt	<Alt>	<Alt>	<Alt>
Bksp	<Bksp>	<Bksp>	<Bksp>
Enter	<Enter>	<Enter>	<Enter>
Space	<Space>	<Space>	<Space>
, comma	<,>	<,>	<,>
. period	<.>	<.>	<.>
/ forward slash	</>	</>	</>
; semicolon	<.>	<.>	<.>
' apostrophe	<'>	<'>	<'>
[left bracket	<[>	<[>	<[>
] right bracket	<]>	<]>	<]>
\ backslash	<\>	<\>	<\>
- hyphen	<->	<->	<->
= equal sign	<=>	<=>	<=>
` accent	<'>	<'>	<'>

Up	<Up>	<Up>	<Up>
Down	<Down>	<Down>	<Down>
Left	<Left>	<Left>	<Left>
Right	<Right>	<Right>	<Right>
Del	<Shift><Bksp>	<Shift><Bksp>	<Shift><Bksp>
A	<Shift><a>	<Shift><a>	<Shift><a>
B	<Shift>	<Shift>	<Shift>
C	<Shift><c>	<Shift><c>	<Shift><c>
D	<Shift><d>	<Shift><d>	<Shift><d>
E	<Shift><e>	<Shift><e>	<Shift><e>
F	<Shift><f>	<Shift><f>	<Shift><f>
G	<Shift><g>	<Shift><g>	<Shift><g>
H	<Shift><h>	<Shift><h>	<Shift><h>
I	<Shift><i>	<Shift><i>	<Shift><i>
J	<Shift><j>	<Shift><j>	<Shift><j>
K	<Shift><k>	<Shift><k>	<Shift><k>
L	<Shift><l>	<Shift><l>	<Shift><l>
M	<Shift><m>	<Shift><m>	<Shift><m>
N	<Shift><n>	<Shift><n>	<Shift><n>
O	<Shift><o>	<Shift><o>	<Shift><o>
P	<Shift><p>	<Shift><p>	<Shift><p>
Q	<Shift><q>	<Shift><q>	<Shift><q>
R	<Shift><r>	<Shift><r>	<Shift><r>
S	<Shift><s>	<Shift><s>	<Shift><s>
T	<Shift><t>	<Shift><t>	<Shift><t>
U	<Shift><u>	<Shift><u>	<Shift><u>
V	<Shift><v>	<Shift><v>	<Shift><v>
W	<Shift><w>	<Shift><w>	<Shift><w>
X	<Shift><x>	<Shift><x>	<Shift><x>
Y	<Shift><y>	<Shift><y>	<Shift><y>
Z	<Shift><z>	<Shift><z>	<Shift><z>
! exclamation	<Shift><1>	<Shift><1>	<Shift><1>
@ at sign	<Shift><2>	<Shift><2>	<Shift><2>
# pound	<Shift><3>	<Shift><3>	<Shift><3>
\$ dollar	<Shift><4>	<Shift><4>	<Shift><4>
% percent	<Shift><5>	<Shift><5>	<Shift><5>
^ carat	<Shift><6>	<Shift><6>	<Shift><6>
& ampersand	<Shift><7>	<Shift><7>	<Shift><7>
* asterisk	<Shift><8>	<Shift><8>	<Shift><8>
(left parenthesis	<Shift><9>	<Shift><9>	<Shift><9>
) right parenthesis	<Shift><0>	<Shift><0>	<Shift><0>
< less than sign	<Shift><, >	<Shift><, >	<Shift><, >
> greater than sign	<Shift><., >	<Shift><., >	<Shift><., >
? question mark	<Shift></ >	<Shift></ >	<Shift></ >
: colon	<Shift><.; >	<Shift><.; >	<Shift><.; >
" quotation marks	<Shift><' >	<Shift><' >	<Shift><' >
broken vertical bar	<Shift><\ >	<Shift><\ >	<Shift><\ >
_ underscore	<Shift><- >	<Shift><- >	<Shift><- >
+ addition sign	<Shift><= >	<Shift><= >	<Shift><= >
~ tilde	<Shift><` >	<Shift><` >	<Shift><` >
{ left brace	<Shift><[>	<Shift><[>	<Shift><[>
} right brace	<Shift><] >	<Shift><] >	<Shift><] >
View Up	<Shift><Up>	<Shift><Up>	<Shift><Up>
View Down	<Shift><Down>	<Shift><Down>	<Shift><Down>
View Left	<Shift><Left>	<Shift><Left>	<Shift><Left>
View Right	<Shift><Right>	<Shift><Right>	<Shift><Right>
F1	<F1>	<F1>	<F1>
F2	<F2>	<F2>	<F2>
F3	<F3>	<F3>	<F3>
F4	<F4>	<F4>	<F4>
F5	<F5>	<F5>	<F5>
F6	<F6>	<F6>	<F6>
F7	<F7>	<F7>	<F7>
F8	<F8>	<F8>	<F8>

F9	<F9>	<F9>	<F9>
F10	<F10>	<F10>	<F10>
F11	<F11>	<F11>	<F11>
F12	<F12>	<F12>	<F12>
F13	<F13>	<F13>	<F13>
F14	<F14>	<F14>	<F14>
F15	<F15>	<F15>	<F15>
F16	<F16>	<F16>	<F16>
F17	<F17>	<F17>	<F17>
F18	<F18>	<F18>	<F18>
F19	<F19>	<F19>	<F19>
F20	<F20>	<F20>	<F20>
F21	<F21>	<F21>	<F21>
F22	<F22>	<F22>	<F22>
F23	<F23>	<F23>	<F23>
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Field -	---	---	<Field ->
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International Symbols			
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Chapter 4 • Error Message Resolution Guide

Twin Client Error Message Resolution Guide

Message	Reason	Solution	Reference Tech Note
ENTRY TOO LONG;	Trying to key beyond the field size.	Ensure you are entering input into the correct field.	---
ALPHABETIC ONLY;	Trying to key a character that is not alphabetic.	Ensure you are entering input into the correct field.	---
MINUS NOT VALID;	Trying to key a Minus sign.	Ensure you are entering input into the correct field.	---
DECIMAL NOT VALID;	Trying to key a Decimal (period).	Ensure you are entering input into the correct field.	---
ALPHANUMERIC ONLY;	Trying to key characters other than Alphabetic and numeric.	Ensure you are entering input into the correct field.	---
NUMERIC ONLY;	Trying to key characters other than numeric.	Ensure you are entering input into the correct field.	---
ENTRY TOO SHORT;	Trying to exit the field before it is filled.	Ensure you are entering input into the correct field.	---

Message	Reason	Solution	Reference Tech Note
INVALID KEY;	The key pressed is not valid.	Ensure you are entering input into the correct field.	---
MUST CLEAR FIELD;	Trying to enter data in a field that must be cleared first.	Ensure you are entering input into the correct field.	---
SCAN NOT ALLOWED;	Trying to scan into a key only field.	Ensure you are entering input into the correct field.	---
KEY NOT ALLOWED;	Trying to key into a scan only field.	Ensure you are entering input into the correct field.	---
ENTRY TOO SHORT;	Trying to exit the field before it is filled.	Ensure you are entering input into the correct field.	---
RECOVERABLE ERROR;	Encountered and error which you can continue from.	Verify your configuration settings for the hardware being used, usually a printer and cable issue.	---
UNRECOVERABLE ERROR;	Encountered and error which you can NOT continue.	Verify your Network settings are correct and you are in the correct mode using the correct Port.	T1113, T1114, T1161, T1171, T1187 and T1194
FUNCTION: \n\nFILE: \nLINE: \nCODE;	Encountered and error which you can NOT continue.	Notify Connect over the WEB incident reporting system.	---
Press any key\nFor More Details...;	Press Enter for more information.	Advisory message.	---
Press any key;	Press a key to continue.	Advisory message.	---
Connection ERROR.\nREBOOT MOBILE UNIT;	Could not Connect.	Verify your Network settings are correct and you are in the correct mode using the correct Port.	T1113, T1114, T1161, T1171, T1187 and T1194

Message	Reason	Solution	Reference Tech Note
Disconnect ERROR.\nREBOOT MOBILE UNIT;	Could Not Disconnect.	Verify your Network settings are correct and you are in the correct mode using the correct Port.	T1113, T1114, T1161, T1171, T1187 and T1194
RF Send ERROR.\nREBOOT MOBILE UNIT;	Could not send.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
RF Receive ERROR.\nREBOOT MOBILE UNIT;	Could not Receive.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
RF Check ERROR.\nREBOOT MOBILE UNIT;	Could not run the RF Survey.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
RF Timeout ERROR.\nREBOOT MOBILE UNIT;	Have been trying to contact the host for the radio timeout period (2 minutes default).	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
REBOOT MOBILE UNIT;	Reboot the Mobile Unit do to loss of connection.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Retry (Y/N)?;	Try again.	Try to send or receive again, or perhaps ensuring the printer is cabled to the Mobile Unit and is on.	---
TIMEOUT\n\nSending Data;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194

Message	Reason	Solution	Reference Tech Note
TIMEOUT\n\nReceiving Data;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Host Received Data\nAwaiting App Reply!;	Mobile Unit has sent and received an acknowledgement form the IP stack and is waiting for the application to return data.	Most likely host or network issue. Troubleshoot the customers' environment. Probable causes are Database record locking, application program failure, Host failure or network failure.	T1113, T1114, T1161, T1171, T1187 and T1194
* WAITING TO SEND *;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customer's environment.	T1113, T1114, T1161, T1171, T1187 and T1194
TCP Error Reading\nMAC Address.\nREBOOT MOBILE UNIT;	Could not obtain the Mac Address form the Mobile Unit.	Possible hardware, driver or stack problem Contact the Mobile Unit manufacturer.	---
Invalid TIP Command;	Bad internal protocol.	Notify Connect over the WEB incident reporting system.	---
Session Ended\nBy User or Host;	User, Host, application or network has ended the session.	If the user did not end the session, most likely host or network issues. Troubleshoot the customer's environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Server Packet Error;	Bad Protocol detected.	Usually a result of bad cabling, power or faulty transceiver. Also, will receive this if the Mobile Unit is in the wrong mode for server operation.	---

Message	Reason	Solution	Reference Tech Note
Error receiving host\nlist from Server;	Bad Protocol detected.	Usually a result of bad cabling, power or faulty transceiver. Also, will receive this if the Mobile Unit is in the wrong mode for server operation.	---
Unexpected Server\ndata received;	Bad Protocol detected.	Usually a result of bad cabling, power or faulty transceiver. Also, will receive this if the Mobile Unit is in the wrong mode for server operation.	---
Error starting\nhost application;	Connected to the server but can not connect to the distant end.	Configure the server handler to access the host application.	---
Select Host or App;	Chose your Host/application destination.	User selection required.	---
Connecting...;	Attempting to connect to the Host/application.	Advisory message.	---
TCP Error\nReading IP Address\nREBOOT MOBILE UNIT;	Mobile Unit missing Network IP information.	Configure the Mobile Unit with the correct network IP information.	---
Printer start error;	Could not initialize the printer.	Cable or power issue with the printer.	---
Battery too low\nno print;	Not enough power to print.	Replace the battery with a fully recharged battery.	---
Paper Feed Error\nFix Then Hit Enter;	Paper in the printer is not ready.	Replace the paper or rethread the paper in the printer.	---
Printer Error\nPrint Ended;	Can not print.	Check cable, battery, communication settings and paper in the printer.	---

Message	Reason	Solution	Reference Tech Note
User Count Exceeded.\n Session Ended;	Possible authorization issue.	Verify that you have the correct number of licenses for the number of Mobile Units you are using.	---
Primary Unavailable\nTrying Alternate;	First Host IP address not available trying the remaining addresses in the Host list.	Verify the host address.	---
APMAC.DAT Error\nSession Ended;	Access point Media Access Control error.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
MUIP.DAT Error\nSession Ended;	Mobile Unit IP Error.	Most likely a Mobile Unit network setting issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Missing Subnet IP\nSession Ended;	Mobile Unit IP Netmask Error.	Most likely a Mobile Unit network setting issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Error Opening File;	File is missing.	Verify the configuration files are on the Mobile Unit. Or perhaps there is a hardware failure.	---
Telnet API\nnot found;	Program files are missing.	Reload program files.	---
Battery Low Warning\n\nReplace Battery Soon;	Not enough power to operate the Mobile Unit.	Replace the battery with a fully recharged battery.	---
No Host List.\nPress any key\nTo Edit Host IP's;	Have not configured your target hosts.	Configure the target host IP addresses.	---
Unable to Allocate\nFont Memory;	Mobile unit does not have enough memory to load the fonts.	Reduce the fonts in use or expand the memory in the mobile unit.	---
Font Loading Error;	Could not load the font.	Ensure the font is available to load.	---

Message	Reason	Solution	Reference Tech Note
Printer Not Ready\nPress R to Retry\nC to Cancel Print;	Can not print.	Check cable, battery, communication settings and paper in the printer.	---
Mobile Unit in\nDemonstration Mode\nfor TwinClient;	Running in demo mode.	Purchase a license from Connect.	---
Connected to Host;	Successful connection to the target Host.	Advisory message.	---
Telnet Mode not\nsupported on\nthis Mobile Unit;	This Mobile Unit must be used with a Connect Server.	Order a Connect Server.	---
Telnet Setup files\nnot found. Reload\nfiles then switch;	Customer specific configuration files are missing.	Load the configuration files into the Mobile Unit from Twin Client Manager.	---
Switched Client to\nTelnet Direct Mode;	Mobile Unit running in Telnet mode direct to the target Host.	Advisory message.	---
Switched Client to\nServer Based Mode;	Mobile Unit running through a Connect server in server mode usually at port 1800.	Advisory message.	---
Port 23 is only\nallowed in Telnet Mode;	Can not set the port to 23 in server mode. Port 23 is the standard Telnet port.	Advisory message.	---
Not Enough Memory\nTo Run;	Mobile Unit does not have the capacity to run the program do to memory restrictions.	Expand the Mobile Unit memory.	---
Press any key;	Press a key to continue.	Advisory message.	---
TwinClient Telnet;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
TwinClient Server;	Prompt.	Advisory message.	---
TwinClient TN3270;	Prompt.	Advisory message.	---
TwinClient TN5250;	Prompt.	Advisory message.	---
TwinClient TNVT/HP;	Prompt.	Advisory message.	---
(c)1991-2003 Connect;	Prompt.	Advisory message.	---
Edit Menu Options;	Menu Title.	Advisory message.	---
Edit Mobile Unit IP;	Menu Option.	Advisory message.	---
Edit Server/Host IPs;	Menu Option.	Advisory message.	---
Edit Radio Option;	Menu Option.	Advisory message.	---
Edit License Key;	Menu Option.	Advisory message.	---
Run Site Survey;	Menu Option.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Switch Client Modes;	Menu Option.	Advisory message.	---
Run TwinClient;	Menu Option.	Advisory message.	---
Exit to OS;	Menu Option.	Advisory message.	---
Printer may not be plugged in or turned on!	Can not print.	Check cable, battery, communication settings and paper in the printer.	---
OUT OF RANGE OF BASE;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
CONNECT SERIAL CABLE;	Serial cable not connected to the Mobile Unit.	Check cable, battery and communication settings for the Mobile Unit.	---
REMOVE SERIAL CABLE;	Remove serial cable from to the Mobile Unit.	Check cable, battery and communication settings for the Mobile Unit.	---
PLACE IN CRADLE;	Place the Mobile Unit in the cradle.	Advisory message.	---
REMOVE FROM CRADLE;	Remove Mobile Unit from the cradle.	Advisory message.	---
ACQUIRING CRADLE BUS;	Attempting to access the cradle through the serial port you have configured.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Printer Out\nOf Range;	Printer out of the coverage area.	Most likely range, access point or radio issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Connection Refused\nBy Host;	You connected to the target host but the host disconnected you.	Verify the configuration file has the correct Mobile Unit type and New environment variable set. Fallback to the Connect Default to verify the connection.	---
Connection Timed Out;	You connected to the host but did not logon in the appropriate time so the host disconnects you.	Modify the Host parameters for login on.	---
Connection Failed\nHost Not Responding;	Could not connect to the Host.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Connection Failed\nHost Unreachable;	Could not connect to the Host.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Mobile Unit Out\nOf Range, Unable\nTo Transmit;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Mobile Unit Out\nOf Range, Unable\nTo Receive;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	---
Printer Not\nResponding;	Can not print.	Check cable, battery, communication settings and paper in the printer.	---
Printer Out\nOf Range;	Printer out of the coverage area.	Most likely range, access point or radio issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194

Message	Reason	Solution	Reference Tech Note
Print Complete;	Prompt.	Advisory message.	---
Reprint (Y/N)?;	Yes or No prompt for a reprint.	Advisory message.	---
WARNING;	Prompt.	Advisory message.	---
Turning power off\nduring a session\nwill cause the\nprogram to restart;	This Mobile Unit will disconnect the session if powered off.	Mobile Unit manufacturer limitation. Advisory message.	---
Are you sure (y/n)?;	Yes or No prompt for a confirmation.	Advisory message.	---
You Sure? (YyNn);	Yes or No prompt for a confirmation.	Advisory message.	---
Domain Name Server\nNot Set;	DOMAIN NAME SERVER not configured.	Configure the Mobile Unit with the correct network IP information.	---
Domain Name Server\nQuery Memory Error;	Memory error on the Mobile Unit	Expand the Mobile Unit memory or return the Mobile Unit for repair.	---
Domain Name Server\nQuery Sending Error;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194

Message	Reason	Solution	Reference Tech Note
Domain Name Server\nQuery Receive Error;	Mobile Unit out of the coverage area.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Domain Name Server\nUnavailable;	Could not connect to the DOMAIN NAME SERVER.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Error loading\nparameter file; Could not load the parameter file.		Reload the correct configuration files.	---
Could not open\ntelnet interface;	Could not telnet.	Reload the program files.	---
Could not set\mtelnet options;	Could not use the telnet configuration.	Reload the correct configuration files.	---
Setup file\nsetting mismatch\nReload Setup;	Emulation program selected is not compatible with the configuration file on the Mobile Unit.	Remove the emulation and configuration files. Run clear Telnet on the Mobile Unit then reload the Mobile Unit with the proper emulation and configuration files.	---
Display formatting\ntoo large for\ncurrent screen;	Mobile Unit does not have enough memory to run your configured reformatted screens.	Expand the Mobile Unit memory or order a server from Connect.	---
Mobile Unit\ninitialization error;	Mobile Unit problem.	Return the Mobile Unit to the manufacturer for repair.	---
Host/App/Network\nclosed the session;	Customers' environment disconnected the Mobile Unit session.	Most likely range, access point, radio, host or network issue. Troubleshoot the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194

Message	Reason	Solution	Reference Tech Note
Disconnecting...;	Prompt.	Advisory message.	---
Scan Barcode;	Bar code scanning test.	Advisory message.	---
Enter Setup\nPassword;	Prompt.	Advisory message.	---
Enter Profile \nPassword;	Prompt.	Advisory message.	---
Host IP;	Host IP address prompt.	Enter target host IP address.	---
Host Name;	Host name prompt.	Enter target host Name.	---
Port;	Host IP port required.	Enter 23 for telnet or 1800 for a Connect server. Could also be a different number depending on the customers' environment.	T1113, T1114, T1161, T1171, T1187 and T1194
Mobile Unit Type;	Prompt.	Advisory message.	---
WARNING: This will \nend any\ncurrent session;	Prompt.	Advisory message.	---
Continue (Y/N)?;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
HOST ENTRY;	Prompt.	Advisory message.	---
VT(100/220)/HP Setup;	Prompt.	Advisory message.	---
Mobile Unit Info;	Prompt.	Advisory message.	---
Emulation Setup;	Prompt.	Advisory message.	---
ANSI Setup;	Prompt.	Advisory message.	---
Miscellaneous Setup;	Prompt.	Advisory message.	---
Mobile Unit Type;	Prompt.	Advisory message.	---
Control Codes;	Prompt.	Advisory message.	---
Local Echo;	Prompt.	Advisory message.	---
<BK SP> Sends;	Prompt.	Advisory message.	---
New Line Mode;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Insert Mode;	Prompt.	Advisory message.	---
Autowrap Mode;	Prompt.	Advisory message.	---
Cursor;	Prompt.	Advisory message.	---
EMULATION SETUP;	Prompt.	Advisory message.	---
Mobile Unit Type;	Prompt.	Advisory message.	---
Local Echo;	Prompt.	Advisory message.	---
Map Underline;	Prompt.	Advisory message.	---
Break Key;	Prompt.	Advisory message.	---
ANSI Setup;	Prompt.	Advisory message.	---
Control Codes;	Prompt.	Advisory message.	---
Backspace Key;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
MISCELLANEOUS SETUP;	Prompt.	Advisory message.	---
Test Options;	Prompt.	Advisory message.	---
Login Options;	Prompt.	Advisory message.	---
TEST OPTIONS;	Prompt.	Advisory message.	---
Printer Test;	Prompt.	Advisory message.	---
Scan Code Test;	Prompt.	Advisory message.	---
LOGIN OPTIONS;	Prompt.	Advisory message.	---
User Name;	Prompt.	Advisory message.	---
User Password;	Prompt.	Advisory message.	---
ON;	Prompt.	Advisory message.	---
OFF;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Map;	Prompt.	Advisory message.	---
Don't Map;	Prompt.	Advisory message.	---
Enable Break;	Prompt.	Advisory message.	---
Disable Break;	Prompt.	Advisory message.	---
7 bit;	Prompt.	Advisory message.	---
8 bit;	Prompt.	Advisory message.	---
Send Delete;	Prompt.	Advisory message.	---
Send Backspace;	Prompt.	Advisory message.	---
Mobile Unit Setup;	Prompt.	Advisory message.	---
Scanner Options;	Prompt.	Advisory message.	---
Program Options;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Special Options;	Prompt.	Advisory message.	---
Beeper Options;	Prompt.	Advisory message.	---
Exit to DOS;	Prompt.	Advisory message.	---
Backlight Time;	Prompt.	Advisory message.	---
Enter Key Action;	Prompt.	Advisory message.	---
Reset Options;	Prompt.	Advisory message.	---
Font Size;	Prompt.	Advisory message.	---
Portable Printer;	Prompt.	Advisory message.	---
Reprint Option;	Prompt.	Advisory message.	---
Data IDs;	Prompt.	Advisory message.	---
Internal/External;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Modify Beeps;	Prompt.	Advisory message.	---
Message Beeps;	Prompt.	Advisory message.	---
Scan Identifier;	Prompt.	Advisory message.	---
AID Scan Setup;	Prompt.	Advisory message.	---
Long Scans;	Prompt.	Advisory message.	---
Scan Send;	Prompt.	Advisory message.	---
Yes;	Prompt.	Advisory message.	---
No;	Prompt.	Advisory message.	---
Normal;	Prompt.	Advisory message.	---
Double Wide;	Prompt.	Advisory message.	---
Double High;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Double High and Wide;	Prompt.	Advisory message.	---
Errors Only;	Prompt.	Advisory message.	---
Automatic;	Prompt.	Advisory message.	---
All Messages;	Prompt.	Advisory message.	---
Reject;	Prompt.	Advisory message.	---
Truncate;	Prompt.	Advisory message.	---
Split;	Prompt.	Advisory message.	---
Do Not Send;	Prompt.	Advisory message.	---
Always Send;	Prompt.	Advisory message.	---
Last Field Only;	Prompt.	Advisory message.	---
Internal;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
External;	Prompt.	Advisory message.	---
none;	Prompt.	Advisory message.	---
monarch;	Prompt.	Advisory message.	---
pddumb;	Prompt.	Advisory message.	---
comtec;	Prompt.	Advisory message.	---
rascal;	Prompt.	Advisory message.	---
codewriter;	Prompt.	Advisory message.	---
comtec(S);	Prompt.	Advisory message.	---
User Name;	Prompt.	Advisory message.	---
Password;	Prompt.	Advisory message.	---
Frequency: Hz;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Duration: ms;	Prompt.	Advisory message.	---
Delay: ms;	Prompt.	Advisory message.	---
Select Scanner;	Prompt.	Advisory message.	---
Setup Scanner;	Prompt.	Advisory message.	---
Scan Test;	Prompt.	Advisory message.	---
Scan Operation;	Prompt.	Advisory message.	---
Laser;	Prompt.	Advisory message.	---
Contact/Pulse;	Prompt.	Advisory message.	---
Contact/No Pulse;	Prompt.	Advisory message.	---
Auto/Pulse;	Prompt.	Advisory message.	---
Auto/No Pulse;	Prompt.	Advisory message.	---

Message	Reason	Solution	Reference Tech Note
Wand Simulation;	Prompt.	Advisory message.	---
VT100;	Prompt.	Advisory message.	---
VT220;	Prompt.	Advisory message.	---
HP700;	Prompt.	Advisory message.	---
SETUP;	Prompt.	Advisory message.	---
Mobile Unit IP/Radio;	Prompt.	Advisory message.	---
Host List;	Prompt.	Advisory message.	---
NULL;	Prompt.	Advisory message.	---