

TRAKKER[®] Antares[™] Terminal Emulation



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Manual Change Record

This page records the changes to this guide. The guide was originally released as version 001.

Version	Date	Description of Change
002	March 1998	<p>This guide was changed to add an addendum (Part No. 067223-001). The addendum documents the new terminal emulation version and explains how to use TE on the TRAKKER Antares stationary terminals (T2480, T2481, T2485, and T2486). The new information includes:</p> <ul style="list-style-type: none">• TRAKKER Antares TE version 5.0 including VT100/220/320 and ANSI (VT/ANSI) printing support.• Corrections to the VT/ANSI remapping information in this manual.• Keypad, viewport, and command support for the TRAKKER Antares stationary terminals (T2480, T2481, T2485, and T2486).
003	August 1998	<p>This guide was changed to incorporate the information in the addendum (Part No. 067223-001) and to explain how to use TE on the TRAKKER Antares 2455 vehicle-mount terminal.</p>

Contents

Before You Begin ix
Warranty Information ix
About This Manual ix

1

Getting Started

Introduction 1-3

RF Network Protocol Options 1-3

Starting Terminal Emulation 1-6

Unsupported Terminal Emulation Functions 1-7

2

Using Terminal Emulation Applications

Using 3270 and 5250 Terminal Emulation 2-3

Using the 3270 or 5250 Keyboard or Keypad 2-4

Understanding Status Line Messages 2-8

Auto-Advancing Through Fields on 5250 Terminal Emulation Screens 2-10

Using the Roll Keys (5250 Only) 2-12

Using VT100/220/320 or ANSI Terminal Emulation 2-14

Using the VT/ANSI Keyboard or Keypad 2-15

Using the VT220/320 Editing Key Functions 2-18

VT100/220/320 and ANSI Printing 2-18

Connecting Your Terminal to a Printer 2-18

Connecting Your T2425 to a Printer 2-19

Connecting Your T2455 to a Printer 2-20

Connecting Your T248X to a Printer 2-21

Using the Print Modes 2-22

Using the Viewport 2-25

How the Viewport Works 2-26

Using the Cursor Keys 2-27

Using the Paging Keys 2-28

3

Customizing Your Configuration

Configuring 3270 or 5250 Terminal Emulation Parameters 3-3

Configuring Terminal Emulation Screens and Options 3-3

Exiting the TE Configuration Menu 3-7

Configuring VT/ANSI Terminal Emulation Parameters 3-8

Configuring Terminal Emulation Screens and Options 3-8

Exiting the TE Configuration Menu 3-13

Setting Security for the TE Configuration Menu 3-14

Configuring Terminal Emulation on the T2480 and T2485 3-17

Uploading the TE Configuration File 3-17

Modifying the TE Configuration File 3-19

3270 or 5250 TE Configuration File Parameters 3-19

VT/ANSI TE Configuration File Parameters 3-22

Downloading the TE Configuration File 3-27

Restarting Terminal Emulation 3-28

Using the Auto-Login Feature 3-31

Developing Auto-Login Script Files 3-31

Control Characters for Auto-Login Script Files 3-32

Loading the Auto-Login Script File 3-33

Disabling the Auto-Login Feature 3-34

Configuring Terminal Emulation to Display International Characters 3-35

3270 and 5250 TE International Mapping Files 3-36

VT/ANSI TE International Mapping Files 3-37

4

3270 and 5250 Commands

Command Descriptions 4-3

Attention 4-3

Auto-Login Restart 4-3

Backtab 4-4

Clear 4-4

Cursor Home 4-4

Delete 4-5

End 4-5

Enter 4-5

Enter TE Configuration Menu 4-6

Erase to End of Field 4-6

Erase Field 4-6
Erase Input 4-7
Erase Last Word 4-7
Error Reset 4-7
Fast Cursor Right or Left 4-8
Field+ and Field- 4-8
Field Exit 4-9
Help 4-9
Home 4-9
Insert 4-10
New Line 4-10
Paging Keys (Viewport) 4-11
Reset 4-12
Reshow 4-12
Roll Up and Roll Down 4-12
Scroll Viewport Keys 4-13
Status 4-13
System Request 4-14
Tab 4-14

Program Function Keys 4-15

Program Attention Keys for 3270 Terminals 4-18

Other Keys 4-19

5

VT100/220/320 and ANSI Commands

Editing Key Commands for VT220/320 Terminals 5-3

Auto-Login Restart 5-3
Backspace 5-3
End 5-4
Find 5-4
Home 5-4
Insert 5-4
Next Screen 5-4
Paging Keys (Viewport) 5-5
Previous Screen 5-6
Remove 5-6
Select 5-6

Program Function Keys 5-7

Additional Functions 5-10

6

Troubleshooting

Problems Using Terminal Emulation Applications 6-3

Problems Connecting to a Host 6-6

Problems Accessing the TE Configuration Menu 6-7

A

Commands, Files, and Auto-Login Script Files

3270 and 5250 TE Command Summary A-3

3270 and 5250 TE Keyboard or Keypad A-3

3270 and 5250 TE Command Summary A-6

3270 and 5250 Additional Functions A-9

VT100/220/320 and ANSI TE Command Summary A-11

VT/ANSI TE Keyboard or Keypad A-11

VT/ANSI TE Command Summary A-13

VT/ANSI Additional Functions A-14

Program Function Keys A-15

Viewport Commands Compatible With JANUS Devices A-17

Terminal Emulation Files A-19

Sample Auto-Login Script Files A-20

B

VT100/220/320 and ANSI Keyboard Remapping

Understanding VT/ANSI Key Support B-3

VT100 Terminals B-3

VT220/320 Terminals B-4

Remapping the TRAKKER Antares Keys B-7

TEANT.CFG Configuration File B-14

I

Index



Before You Begin

This section introduces you to standard warranty provisions and document formatting conventions. A list of Intermecc manuals is also provided to guide you in finding the appropriate information.

Warranty Information

To receive a copy of the standard warranty provision for this product, contact your local Intermecc support services organization. In the U.S. call 1-800-755-5505, and in Canada call 1-800-688-7043. Otherwise, refer to the Worldwide Sales & Service list that ships with this manual for the address and telephone number of your Intermecc sales organization.

About This Manual

This manual contains all of the information necessary to configure, operate, and troubleshoot the TRAKKER® Antares™ terminal emulation applications.

This manual was written for two audiences:

- All users who need to know how to use terminal emulation.
- MIS personnel, operations personnel, analysts, and programmers who need to know how to configure, test, and use the terminal emulation application to operate in a network. You should have a good knowledge of your company's network and data collection software. You should be familiar with data communications and network protocols.

What You Will Find in This Manual

This table summarizes the information in each chapter and appendix.

Chapter	What You Will Find
1	Provides basic information for using your TRAKKER Antares terminal with terminal emulation.
2	Describes and explains how to use the terminal's keypad or keyboard and how to use terminal emulation functions on the keypad or keyboard.
3	Tells you how to customize your TRAKKER Antares terminal emulation application.
4	Lists the terminal emulation commands you can use with your 3270 and 5250 terminals.
5	Lists the terminal emulation commands you can use with your VT100/220/320 and ANSI terminals.
6	Provides information about error messages that you may encounter while using terminal emulation applications.
A	Provides a summary of available terminal emulation commands for all supported devices. It also provides a list of the terminal emulation files and sample auto-login script files.
B	Provides information about VT/ANSI key support and instructions for remapping keys on your TRAKKER Antares terminal. It also lists the configuration file for the VT/ANSI terminal emulation application.

Note: *This guide covers only terminal emulation applications. For information about installing, configuring, or operating your TRAKKER Antares terminal, see your TRAKKER Antares user's manual.*



Terminology

You should be aware of how these terms are being used in this manual:

Term	Description
Host	The term “host” refers to a personal computer or other computer that communicates with the terminal.
T2425, T2455, or T248X	The terms “T2425,” “T2455,” or “T248X” indicate the specific type of terminal; for example, T2425 stands for the TRAKKER Antares 2425 terminal.
Terminal	The generic term “terminal” indicates any TRAKKER Antares terminal that supports terminal emulation.
TE	The abbreviation “TE” stands for terminal emulation.
TRAKKER Antares	The term “TRAKKER Antares” identifies the product family of TRAKKER Antares terminals.

Notes: Notes are statements that either provide extra information about a topic or contain special instructions for handling a particular condition or set of circumstances.

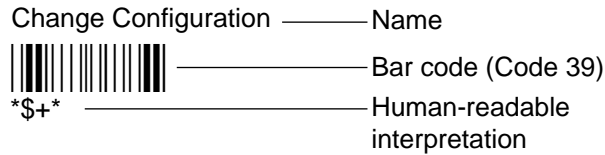
Conventions for Input From a Keypad or Keyboard

This table describes the formatting conventions for input from PC or host computer keyboards and terminal keyboards or keypads:

Convention	How to Interpret the Convention	
Special text	Shows the command as you should enter it into the terminal.	
<i>Italic text</i>	Indicates a variable, which you must replace with a real value, such as a number, filename, or command.	
Bold text	Indicates the keys you must press on a PC or host computer keyboard. For example, “press Enter ” means you press the key labeled “Enter” on the PC or host computer keyboard.	
<input type="text" value="↵"/>	Shows the key you must press on the terminal. For example, “press <input text"="" type="text" value="f"/> <input type="text" value="Q"/> <input type="text" value="T"/> <input type="text" value="2"/> <input type="text" value="M"/>	Shows a series of terminal keys you must press and release in the order shown. For example, “Press <input type="text" value="f"/> <input type="text" value="Q"/> <input type="text" value="T"/> <input type="text" value="2"/> <input type="text" value="M"/> to run the TRAKKER Antares 2400 Menu System.”
<input type="text" value="f"/> – <input type="text" value="↵"/> – <input type="text" value="Ⓜ"/>	Shows a series of terminal keys you must press simultaneously. Also, you must press and hold the keys in the order shown. For example, “Press <input type="text" value="f"/> – <input type="text" value="↵"/> – <input type="text" value="Ⓜ"/> to reset the terminal.”	

Conventions for Bar Codes

You can scan the bar codes listed in this manual to enter data or perform a command. The bar code labels in this manual are printed in the Code 39 symbology. Each bar code includes the name and human-readable interpretation. For example:

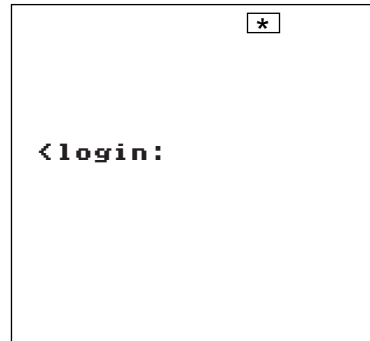


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The asterisks (*) at the beginning and end of the human-readable interpretation are the start and stop codes for a Code 39 bar code label. If you are using a bar code printing utility, it may automatically supply the asterisks as the start and stop code, so that you only need to type the actual text of the command. You can also create and print configuration labels and reader command labels in Code 93, which has its own start and stop codes.

Conventions for Software Screens and Messages

This manual includes illustrations that represent how the TRAKKER Antares terminal displays software screens and messages. Here are two examples:



TE24XXUG.029



Other Intermec Manuals

You may need to refer to the manuals listed below for additional information about your TRAKKER Antares terminal, terminal emulation, or the 2.4 GHz radio frequency network. To order additional manuals, contact your local Intermec representative or distributor.

Manual	Intermec Part No.
<i>0110/0111/0115 Access Point User's Manual</i>	065053
<i>2100 Universal Access Point User's Manual</i>	067150
<i>The Bar Code Book</i>	051241
<i>DCS 300 System Manual</i>	067296
<i>DCS 300 Technical Reference Manual</i>	067717
<i>EZBuilder Getting Started Guide</i>	066450
<i>EZBuilder Tutorial</i>	066449
<i>Model 200 Controller System Manual</i>	063439
<i>Model 200 Controller Technical Reference Manual</i>	064398
<i>TRAKKER Antares 2420 and 2425 Hand-Held Terminal Getting Started Guide</i>	064183
<i>TRAKKER Antares 2420 and 2425 Hand-Held Terminal User's Manual</i>	064024
<i>TRAKKER Antares 242X Serial Interface Module Instruction Sheet</i>	067690
<i>TRAKKER Antares 2455 Vehicle-Mount Terminal Getting Started Guide</i>	067359
<i>TRAKKER Antares 2455 Vehicle-Mount Terminal User's Manual</i>	067358
<i>TRAKKER Antares 248X Stationary Terminal Getting Started Guide</i>	066961
<i>TRAKKER Antares 248X Stationary Terminal User's Manual</i>	066960
<i>TRAKKER Antares 248X COM4 Adapter Cable Installation Instruction Sheet</i>	068251
<i>TRAKKER Antares Application Development Tools System Manual</i>	064433
<i>TRAKKER Antares Optical Link Adapter Quick Reference Guide</i>	065826
<i>TRAKKER Antares TD2400 Communications Dock Quick Reference Guide</i>	065555



Getting Started

This chapter provides basic information for setting up and using your TRAKKER® Antares™ terminal with terminal emulation software.

Introduction

The TRAKKER Antares terminal is a programmable terminal that can run terminal emulation (TE) applications. Your terminal is configured and loaded with one of these applications:

- IBM 3270 terminal emulation (IBM-3278-2)
- IBM 5250 terminal emulation (IBM-3179-2)
- VT/ANSI terminal emulation

All TRAKKER Antares terminals are programmable. The main difference between the terminals is the application and keypad or keyboard that is shipped on each terminal. For example, you can download client/server applications to a TE terminal and run either the TE application or your client/server application. For help downloading applications to any TRAKKER Antares terminal, see your TRAKKER Antares user's manual.

The TE applications use either the Intermec UDP Plus network protocol or the TCP/IP network protocol to provide reliable data transfer between a host computer and the terminals. In a UDP Plus network, the terminal communicates with the host computer through the DCS 300 or Model 200 Controller. In a TCP/IP network, the terminal communicates through the access point, which is directly connected to the host computer on an Ethernet or token ring network.

Note: The terminal will communicate with either the DCS 300 or the Model 200 Controller. The DCS 300 is a new data collection server that replaces the Model 200 Controller.

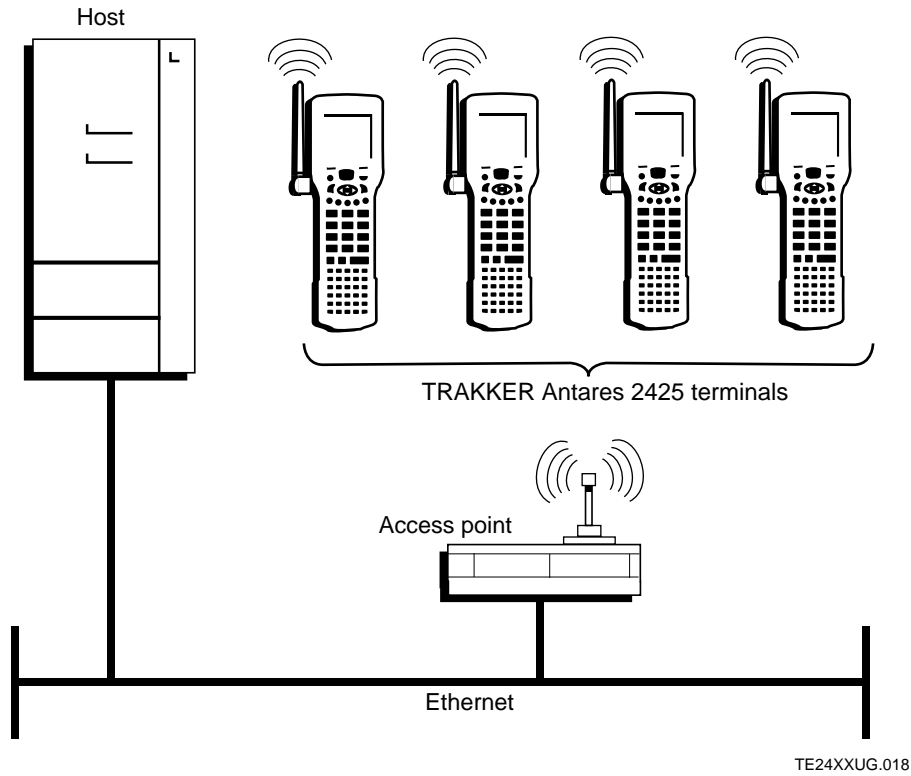
RF Network Protocol Options

The TRAKKER Antares terminal has two 2.4 GHz radio frequency (RF) network protocol options:

- UDP Plus
- TCP/IP

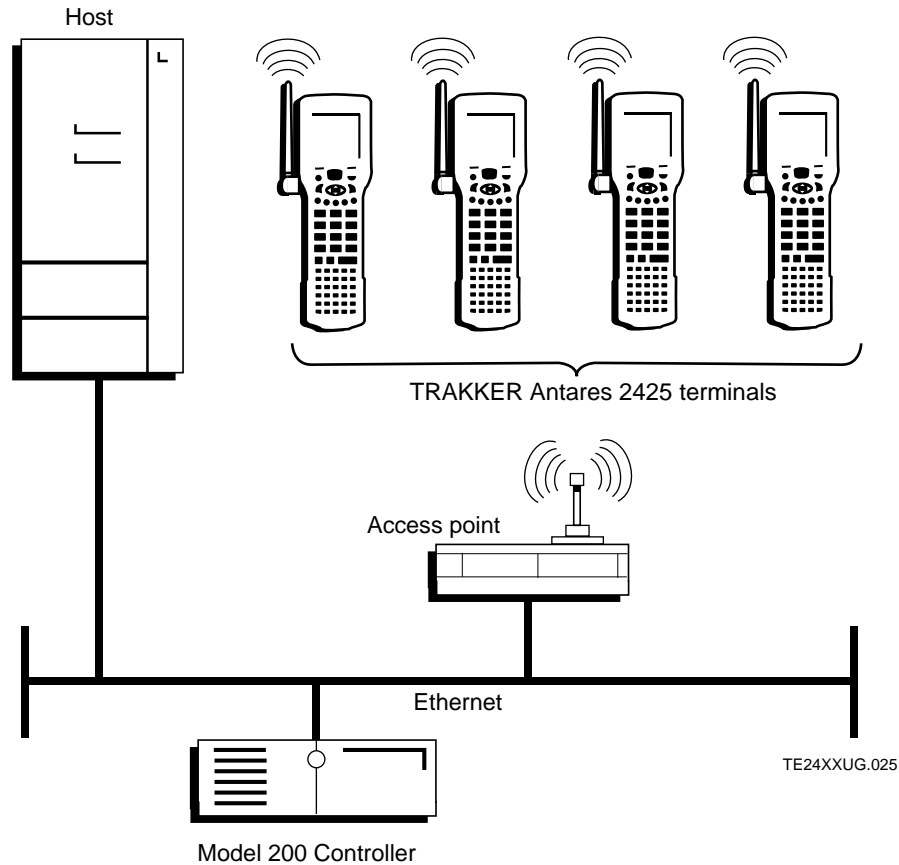
Each terminal is loaded with only one network protocol at a time. The following illustrations show the network configuration for the two RF protocol options.

TCP/IP Direct Connect 2.4 GHz RF Network



TE24XXUG.018

In a TCP/IP direct connect network, one or more host computers communicate with one or more access points on an Ethernet or token ring network. The access points in turn communicate with terminals that are running terminal emulation applications. The host side of terminal emulation is provided through a Telnet Session Manager.

UDP Plus 2.4 GHz RF Network

In a UDP Plus network, one or more host computers communicate with a DCS 300 or Model 200 Controller, which in turn communicates with one or more access points on separate networks. The access points communicate with terminals that are running terminal emulation applications. The host side of terminal emulation is provided by an SNA or Telnet Session Manager on the DCS 300 or controller.

For more information about 2.4 GHz RF networks and network protocols, see your TRAKKER Antares user's manual.

Starting Terminal Emulation

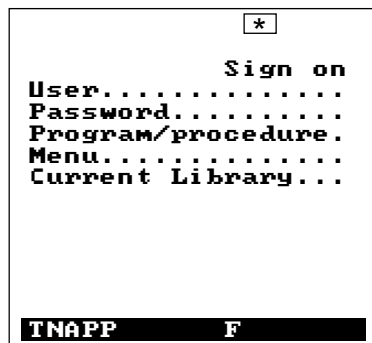
Make sure you have installed the terminal in your Intermec 2.4 GHz RF network. For help, see your TRAKKER Antares user's manual. If you have already completed these tasks, you can start your application.

To start your application

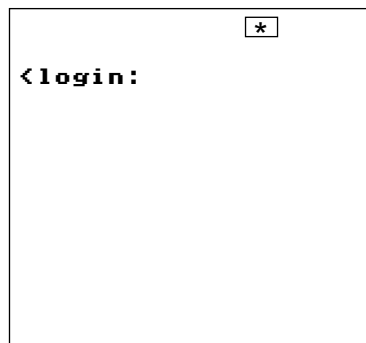
1. Press the Ⓜ key to turn on the terminal.
2. Wait a few seconds while the screen clears and the application starts.

Once the screen on the terminal shows the sign-on screen, you are ready to use your terminal.

3270/5250 Sign-On Screen



VT/ANSI Login Screen



TE24XXUG.001

Note: If your application does not start after a few seconds, you may not have configured the terminal correctly. For help, see your TRAKKER Antares user's manual.

Now that you have started your application, you need to learn how to use it. For help, turn to Chapter 2, "Using Terminal Emulation Applications," and Chapter 3, "Customizing Your Configuration."

Unsupported Terminal Emulation Functions

These functions are not supported for the current terminal emulation applications.

Terminal Type	Unsupported Functions
3270 and 5250	<ul style="list-style-type: none"> • 3270 SFE (Start Field Extended) Order and Write Structured Field commands. • 5250 PRINT (X'F6) AID. • 5250 transparent data. • 5250 Write Control Character (WCC) supports error line adjustment field only. • 5250 Start of Header supports error line adjustment only. • 5250 write error code to window and write single structured field. • 5250 write to display structured field. • 5250 alternate commands. • 5250 extended attributes. • 5250 I/O Feature Input Field accepts any character from all sources of input. • AutoTab, Autorepeat, and Macro functions. • Scan ahead. Available through screen mapping application on the DCS 300 or Model 200 Controller. • Telnet 3270 Regime option (RFC1041).
VT100/220/320 and ANSI	<ul style="list-style-type: none"> • VT100 does not support these edit keys: home, insert, delete, page up, and page down. • VT52 mode, Column mode, Reverse Screen mode, and Interlace mode. • Double height and double width characters. • Programmable LEDs. • Screen alignment test and self-tests. • Report terminal parameters command. The terminal does not send a response. • Identify terminal function. • Select character protection attribute. • National replacement and downloadable character sets. • Autorepeat mode.

Unsupported Terminal Emulation Functions (continued)

Terminal Type

All Types

Unsupported Functions

- Printing is not supported.
- Macro keys (M1, M2, and M3) not supported.

Using Terminal Emulation Applications

This chapter explains how to run terminal emulation applications on your TRAKKER Antares terminal.

Using 3270 and 5250 Terminal Emulation

Your TRAKKER Antares terminal contains a special keyboard or keypad and terminal emulation (TE) application that provide most of the commands available to emulate an IBM 3270 or 5250 terminal.

You can use your terminal to:

- view host screens on your screen.
- enter data into the host screens using the scan module or keypad or keyboard.
- access host commands and perform host functions.
- automatically transmit data to the host.
- use auto-login capability.
- set password security.
- choose SNA or Telnet protocols for UDP Plus TE.
- display single byte international characters.
- configure for 5250 Field Advance.
- run host applications using the 3270 or 5250 TE features.

After you have installed the terminal in your system, you need to learn how to use the TE application. The next sections cover these topics:

- Using the 3270 or 5250 keyboard or keypad
- Understanding status line messages
- Auto-advancing through fields on 5250 TE screens
- Using the roll keys (5250 only)

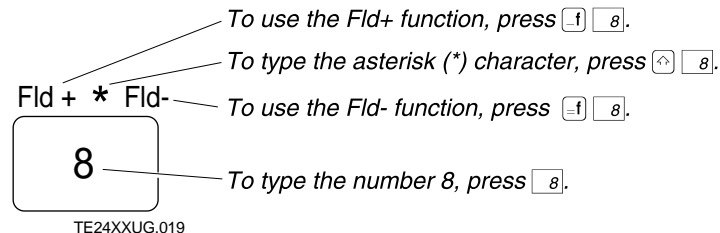
Using the 3270 or 5250 Keyboard or Keypad

The TRAKKER Antares 2425, 2455, and 248X terminals (T2425, T2455, and T248X) come with a special keyboard or keypad that contains most of the keys available on your 3270 and 5250 terminal keyboard.

Note: You must use the T2455 keyboard accessory (Part No. 067028) with the TE applications.

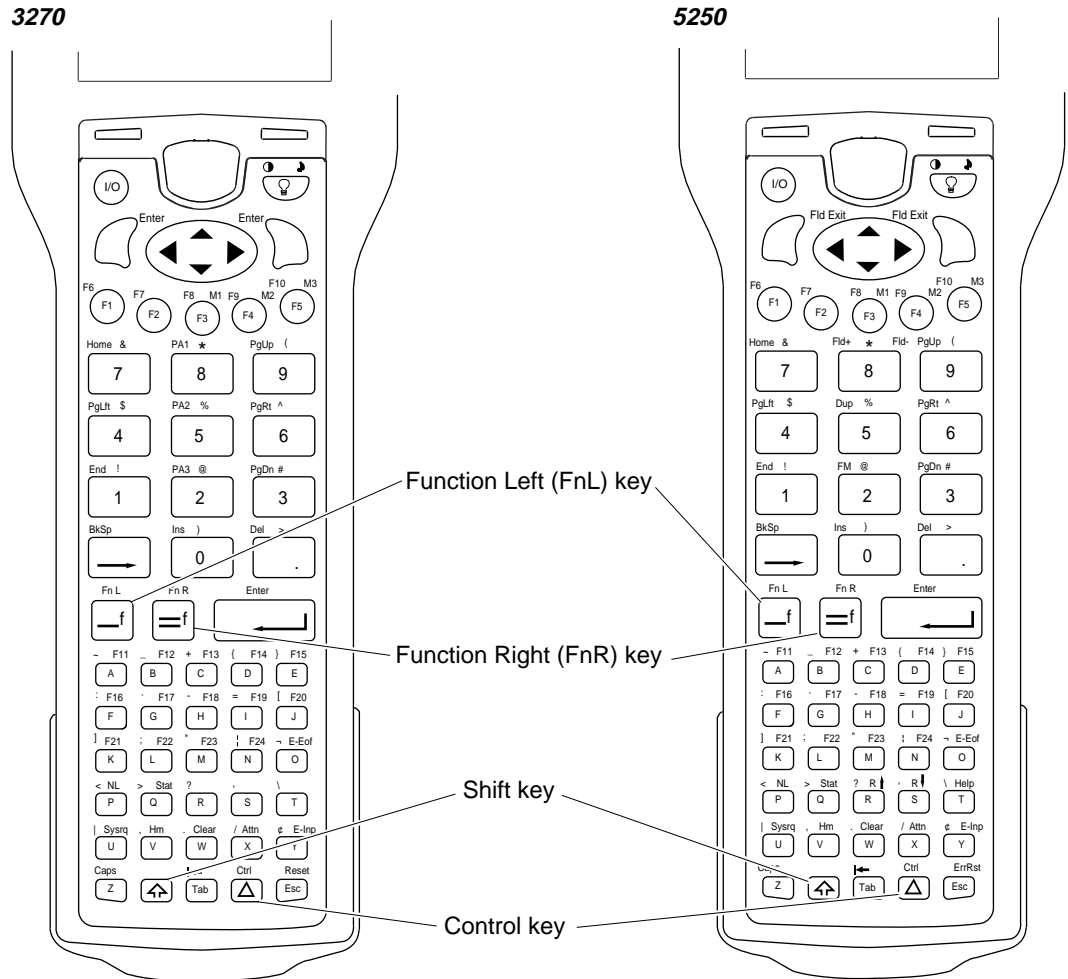
Use the terminal keyboard or keypad to enter data in the TE screens. As on all terminal keyboards, the keys on the terminal keyboard or keypad have their main character or function marked directly on the key itself. To access that character or function, just press the key.

Your terminal keyboard or keypad provides access to TE commands and functions printed above the keys by pressing key combinations. Use the Function Left (**f**), Function Right (**f**), Shift (**⇧**), and Control (**△**) keys to access those characters or functions that do not have an actual key on the keyboard or keypad. Use this illustration from the 5250 keypad to understand how the keyboard or keypad works:



For help on how the keyboard or keypad works, see your TRAKKER Antares user's manual.

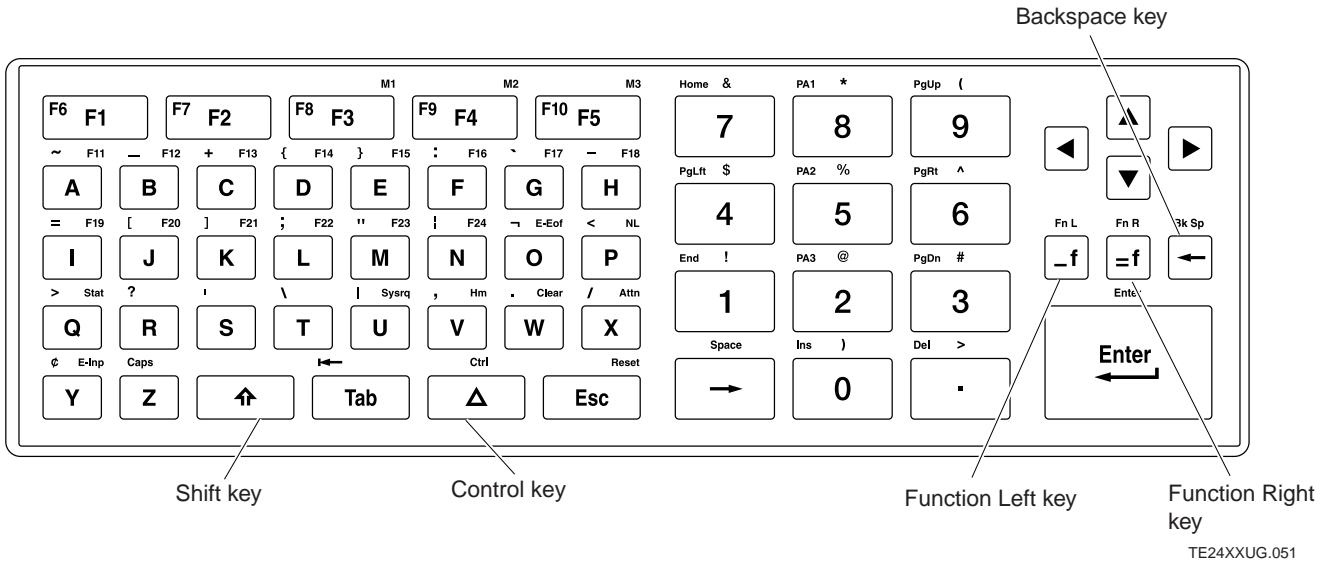
Using the T2425 3270 or 5250 Keypad



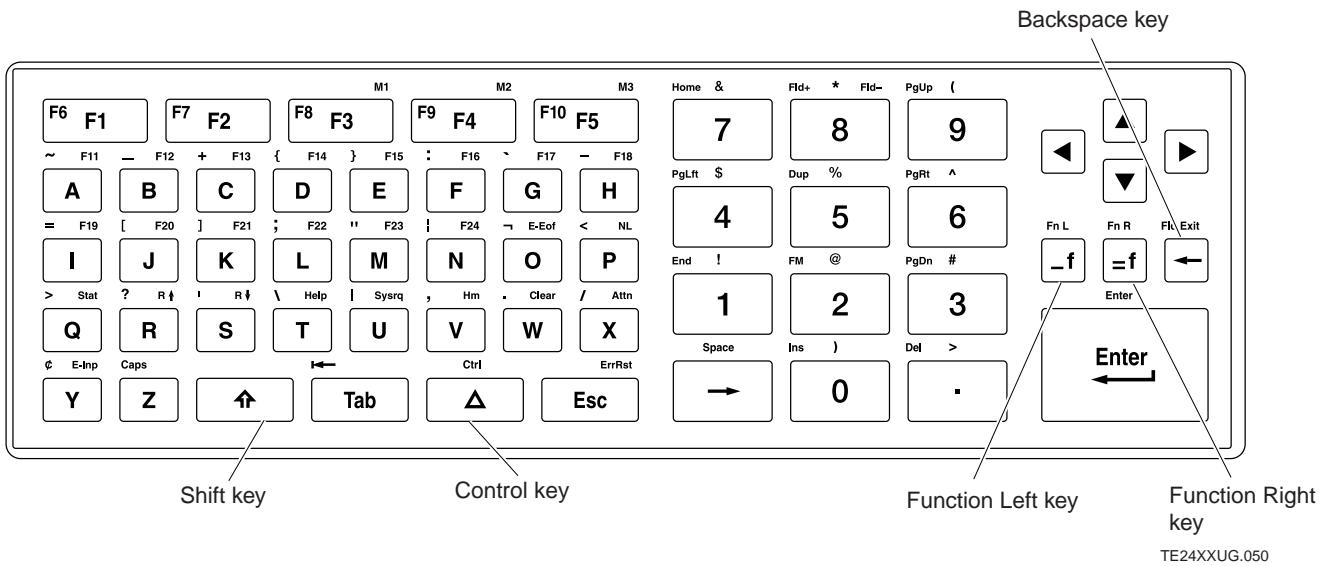
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TRAKKER Antares Terminal Emulation User's Guide

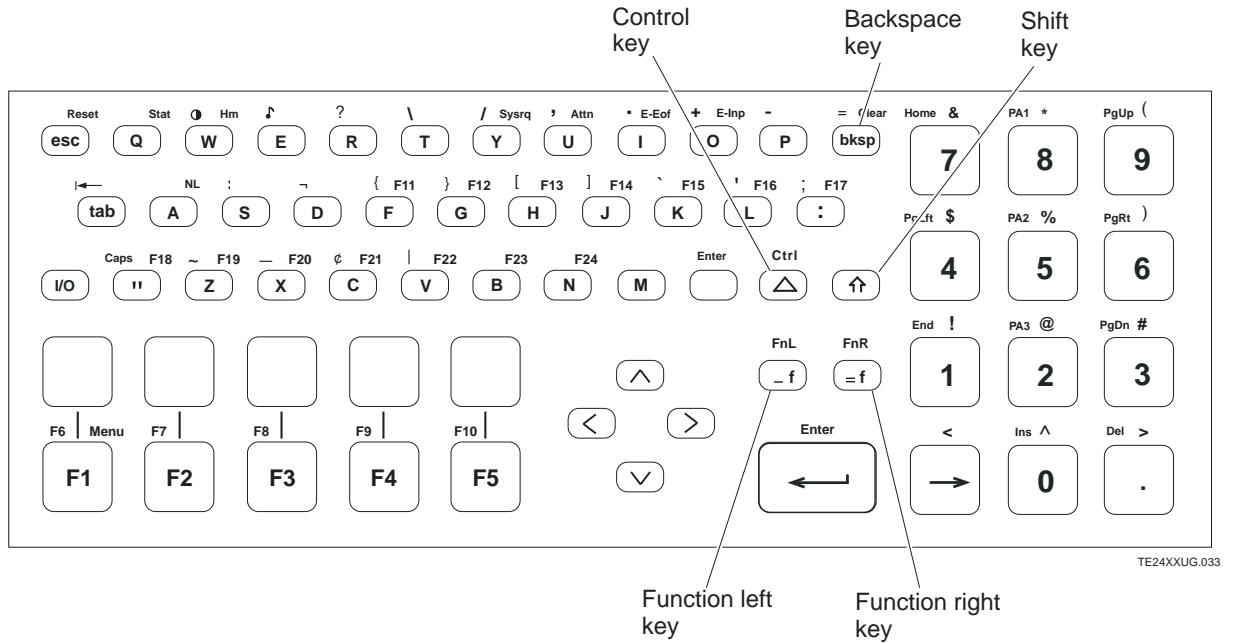
Using the T2455 3270 Keyboard



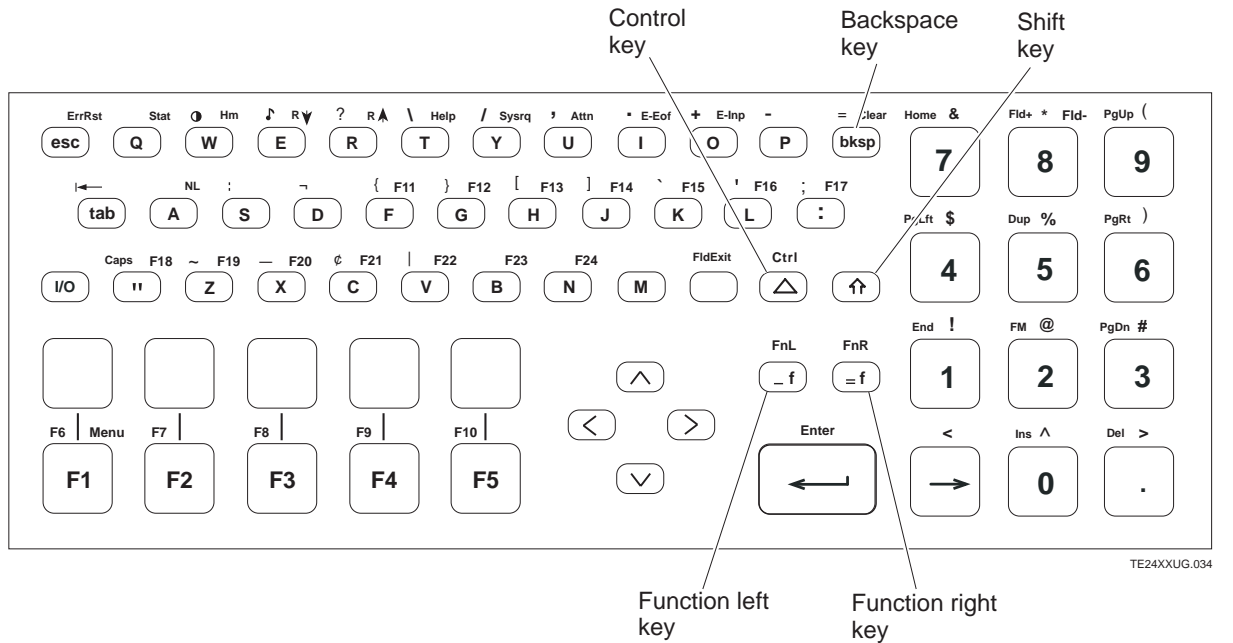
Using the T2455 5250 Keyboard



Using the T248X 3270 Keypad





Using the T248X 5250 Keypad



Understanding Status Line Messages

TRAKKER Antares terminals provide a status line when configured as 3270 or 5250 terminals. You see the status messages on the status line, which is the bottom line of the terminal screen. The status messages report the operating status of both the terminal and the host system.

Use   to toggle the status line on and off, or scan this bar code:

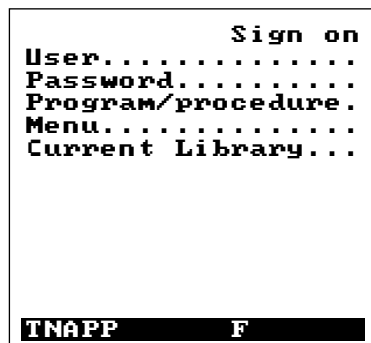
Status



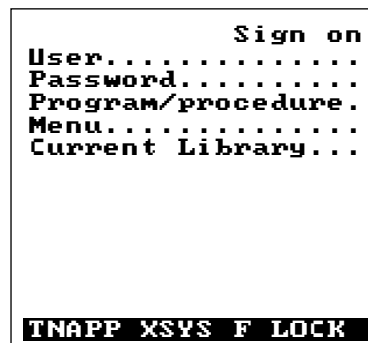
%STAT

You may see screens similar to these:

TE Session Established



Host Processing Data



TE24XXUG.032

The next table summarizes information you may see in the status line.

Status Line Message	Description
blank	No activity, ready for operator input.
ERR (5250 only)	The user pressed an AID key to transmit data to the host. The host did not accept the data and transmitted a Write Error command to the TE application indicating the field where the error occurred. The TE application is in an error state. Use the viewport to view the error message and corrective procedure. Press ErrRst or Esc to clear this message and enter data. You cannot type or scan data while ERR appears on the status line.

Status Line Messages (continued)

Status Line Message	Description
INIT	The terminal is attempting to connect to the server.
INS	The terminal is in Insert mode.
LOCK	The keypad or keyboard is locked by the host application.
MSGWAIT (5250 only)	There is a system message that is waiting to be read.
PEND	The terminal is connected to the server and is waiting for an active host session.
TNAPP	The terminal is in session with a host application.
TNSVR	The terminal is connected to the server.
F, C, or D	Shows the current Viewport mode of the terminal. One of these characters appears to indicate the Viewport mode status: F Viewport Follow mode is enabled C Viewport Center mode is enabled D Viewport movement is disabled
XSYS	The host is busy and the TE application is waiting for a host response. You cannot type or scan data and the scanner will not turn on until the host is free.

Auto-Advancing Through Fields on 5250 Terminal Emulation Screens

You can set up your TRAKKER Antares terminal to auto-advance through the fields on a 5250 TE screen. When you scan data into a field on a 5250 TE screen, a Field Exit command clears the rest of the field, advances to the next field, and triggers an auto-enter field to send an ENTER to the application and submit the data. You can just scan data and never touch the keyboard or keypad.

To set this up, you need to disable Auto Field Advance in the TE Configuration menu and set the Postamble command to the 5250 Field Exit code. There are three ways to configure the Postamble command:

- Use the TRAKKER Antares 2400 Menu System.
- Download the Postamble command from the DCS 300 or Model 200 Controller to one or more terminals.

Note: The terminal will communicate with either the DCS 300 or the Model 200 Controller. The DCS 300 is a new data collection server that replaces the Model 200 Controller.

- Download the Postamble command from a host using either the TCP/IP direct connect protocol or UDP Plus protocol.

The first two configuration methods are listed in this section. The third method involves creating an application and then downloading the application to the terminals. For help creating the application, see your TRAKKER Antares user's manual.

The 5250 Field Exit code is a character in the extended ASCII character set. The terminal supports the full and extended ASCII character sets. For a list of the full and extended ASCII characters, see your TRAKKER Antares user's manual.

Note: You can also configure the postamble by scanning the Postamble command. However, you cannot scan in extended ASCII characters like the 5250 Field Exit code.

To disable Auto Field Advance

1. Configure the Auto Field Advance setting to Disable. For help, see Chapter 3, "Customizing Your Configuration."

With the Auto Field Advance feature disabled, the terminal functions as if the field has a mandatory field exit turned on (an AS/400 activated feature known as Check FE). As a result, legacy AS/400 applications do not have to be modified to turn this field on properly for bar code support.

Note: The default is Auto Field Advance enabled.

2. Save your new TE configuration.

To add Field Exit to the postamble using the TRAKKER Antares 2400 Menu System

1. Press **[f]** **[Q]** **[T]** **[2]** **[M]** to access the TRAKKER Antares 2400 Menu System.
2. From the Main Menu, choose Configuration Menu.
3. From the Configuration Menu, choose Terminal Menu.
4. From the Terminal Menu, choose Preamble/Postamble.
5. Move the cursor to the postamble field.

Note: You can also set the preamble to an extended ASCII character in this same screen.

6. Type `\x9A` for the literal Field Exit code.
7. Press **[↵]** or choose OK to save your changes and exit the screen.
8. Exit the TRAKKER Antares 2400 Menu System and save your new configuration to flash memory.

To download Field Exit as a postamble from the DCS 300 or controller

You must configure the postamble to the Field Exit's literal value using the download server on the DCS 300 or Model 200 Controller. You can use the download server on the DCS 300 or controller to configure one or more terminals in the network.

1. In the download server on the DCS 300 or controller, select the terminal or group to receive the Postamble (AE) configuration command. For help on configuring a group of terminals, see the *DCS 300 System Manual* or *Model 200 Controller System Manual*.

Note: You can continue running the 5250 TE application on the terminal while configuring a terminal from the DCS 300 or controller.

2. Choose the option to enter a command.
3. Type the string `$(+AE)` and then enter the ASCII code 154 by holding down the Alt key while typing 154 on the numeric keypad. You should see an `Ü` to represent the literal Field Exit code in the edit box, which now shows this command and value:
`$(+AEÜ)`
4. Download the commands to change the runtime configuration of the terminals selected. The changes are saved in RAM, but not in flash memory.

TRAKKER Antares Terminal Emulation User's Guide

- To save the configuration change in flash memory, download this command:

.+1

Or scan this bar code:

Save Configuration in Flash Memory



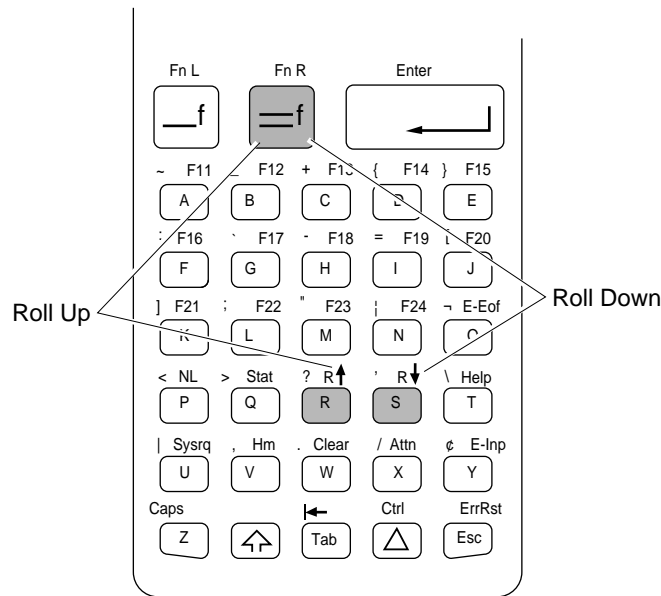
.+1

You can also use the TRAKKER Antares 2400 Menu System to save the configuration in flash memory. For help, see your TRAKKER Antares user's manual.

You can set the postamble or preamble to any character from the extended ASCII character set using these instructions. Type the literal ASCII value in Step 3 instead of the Field Exit code. To set the preamble, use the syntax \$+AD instead of \$+AE.







Using the Roll Keys (5250 Only)

If you are running the 5250 TE application on the terminal, you can use the roll keys to request and display additional host screens. The next illustration shows the T2425 5250 keypad.



TE24XXUG.016

Using the Roll Keys (continued)

To Enter	Press These Keys		Or Scan This Bar Code	Description
Roll up	T2425/T2455	T248X	 *%ROUP*	Causes the host to send down additional screens above what appears on the user screen.
Roll down	 	 	 *%RODN*	Causes the host to send down additional screens below what appears on the user screen.

5250 terminals support the Roll command (Hex 23) received from a host application. Using this command, a host application can roll an area of the screen up or down. The direction of the roll and number of lines to roll are specified in the command.

The Roll command should not be confused with the Roll Up and Roll Down keys. The Roll keys cause the host to send down additional screens when you are at a Roll screen. A Roll screen typically has text in the lower right hand corner of the screen indicating that there are additional screens to view. For example, the text “More...” or “+” in the lower right hand corner of the screen indicates that you can press a Roll Up key to view additional information.

- A Roll command received from a host application moves the screen, but not the viewport. You can see the screen scroll through the viewport when you roll up or down, but the viewport itself remains stationary.
- Paging keys (viewport page up, viewport page down, viewport page right, viewport page left) are used to move the viewport within one screen; they do not move the screen itself.

For help on the Roll keys and paging keys, see Chapter 4, “3270 and 5250 Commands.” For help on the Roll command, see the *IBM 5494 Remote Control Unit Functions Reference*.

Using VT100/220/320 or ANSI Terminal Emulation

Your terminal contains a special keyboard or keypad and application that provide most of the commands available to emulate a VT100/220/320 or ANSI terminal.

Note: You must use the T2455 keyboard accessory (Part No. 067028) with the TE applications.

You can use your terminal to:

- automatically transmit data to the host.
- use auto-login capability.
- set password security.
- choose SNA or Telnet protocols for UDP Plus TE.
- display single byte international characters.
- emulate VT100/220/320 and ANSI keyboards by using the scan module or the keyboard or keypad.
- run host applications using the VT100/220/320 or ANSI terminal emulation features.

After you have installed the terminal in your system, you need to learn how to use the TE application. The next sections cover these topics:

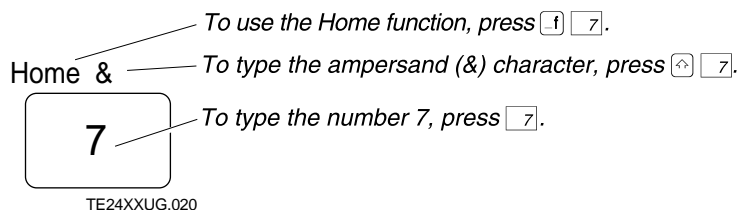
- Using the VT/ANSI keyboard or keypad
- Using the VT220/320 editing key functions

Using the VT/ANSI Keyboard or Keypad

The TE terminal comes with a special keyboard or keypad that contains most of the keys available on your VT/ANSI keyboard.

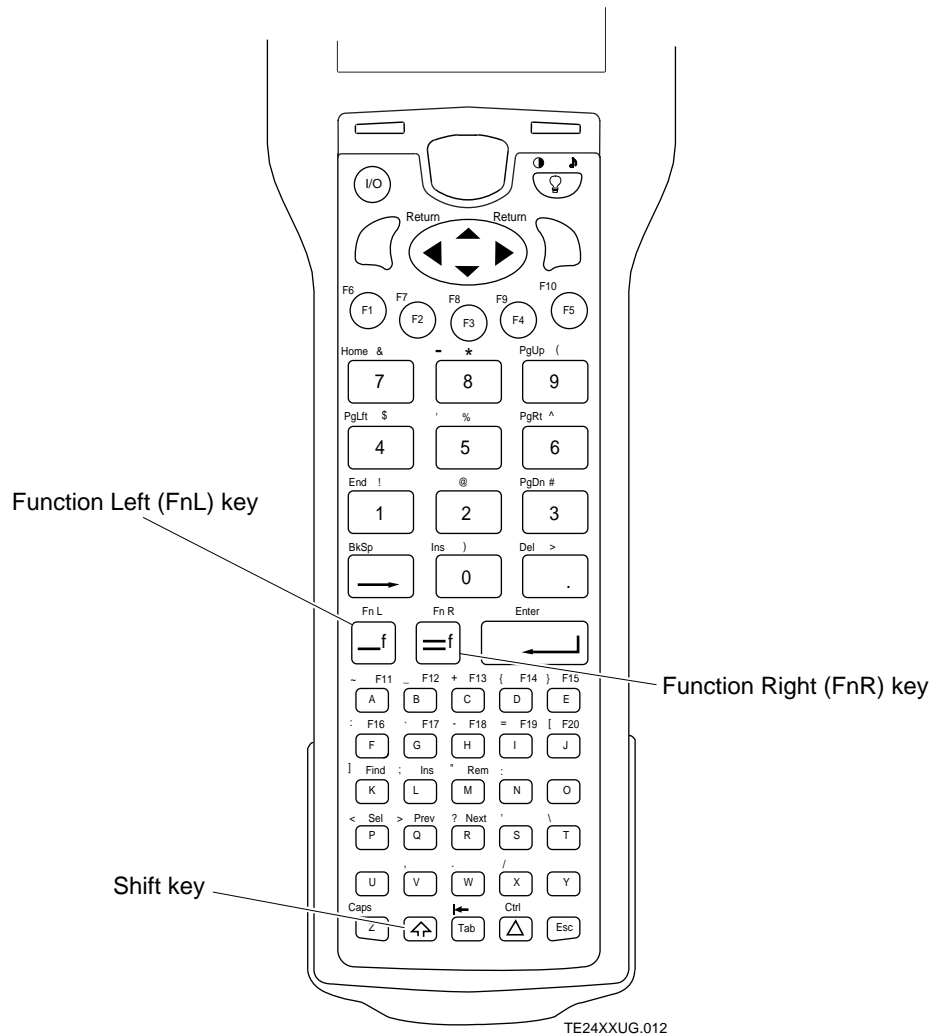
Use the terminal keyboard or keypad to enter data in the TE screens. As on all terminal keyboards, the keys on the terminal keyboard or keypad have their main character or function marked directly on the key itself. To access that character or function, just press the key.

Your terminal keyboard or keypad provides access to TE commands and functions printed above the keys by pressing key combinations. Use the Function Left (**f**), Function Right (**f**), and Shift (**^**) keys to access those characters or functions that do not have an actual key on the keyboard or keypad. Use this illustration and the illustration on the next page to understand how the keyboard or keypad works:































For help on how the keyboard or keypad works, see your TRAKKER Antares user's manual.

Using the T2425 VT/ANSI Keypad



Using the VT220/320 Editing Key Functions

Use this table to locate the VT220/320 editing key functions on the TRAKKER Antares keyboard or keypad.

VT220/320 Editing Key	T2425/T2455 Key	T248X Key
Find	 	 
Insert	  or  	  or  
Remove	 	 
Select	 	 
Previous screen	 	 
Next screen	 	 

VT100/220/320 and ANSI Printing

While running the VT/ANSI TE application version 5.1 on your TRAKKER Antares terminal (T2425, T2455, T2480, T2481, T2485, or T2486), you can print data from a VT100/220/320 or ANSI host. This section explains how to connect your terminal to a printer and how to use the various printing modes.

VT/ANSI TE supports these printing modes:

- Auto Print
- Printer Controller
- Print Screen
- Print Form Feed
- Print Cursor Line

Connecting Your Terminal to a Printer

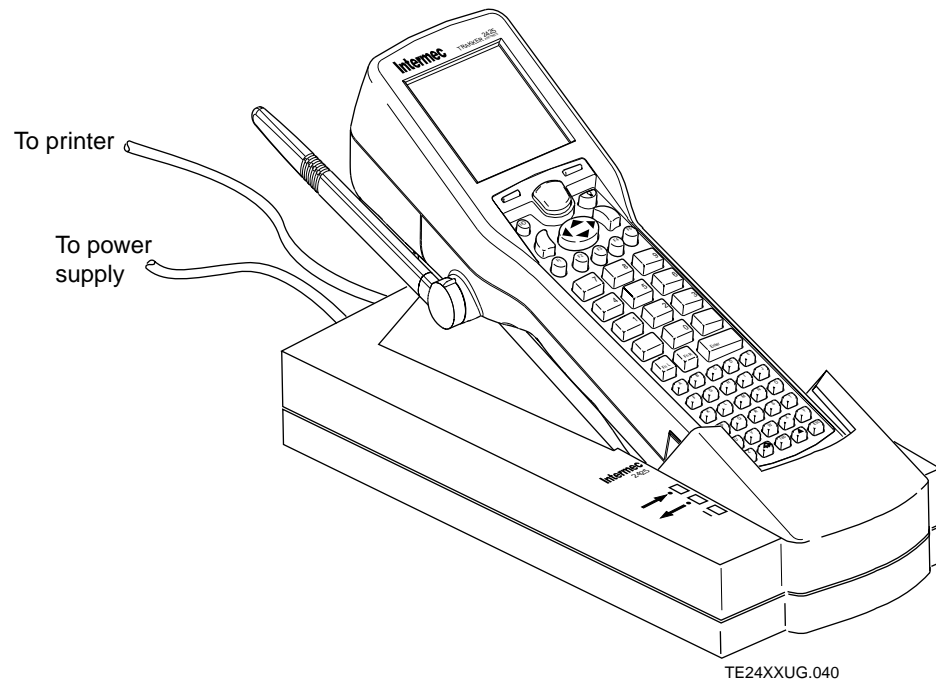
You can use different methods to connect your terminal to your printer depending on the type of terminal and printer you have. The next instructions explain how to:

- Connect your T2425 to a printer
- Connect your T2455 to a printer
- Connect your T248X to a printer

Connecting Your T2425 to a Printer

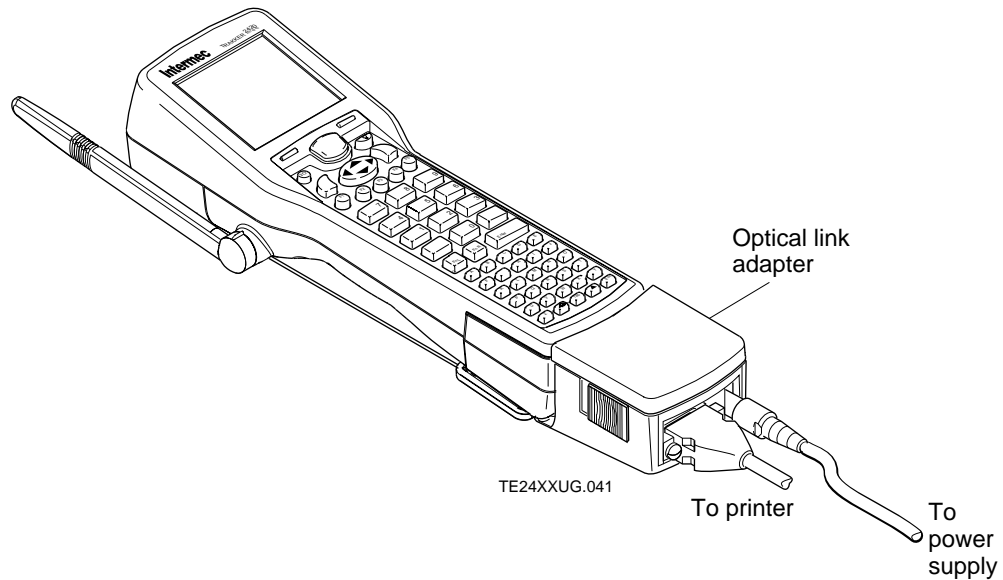
For the T2425, you will need either a TRAKKER Antares TD2400 Communications Dock or a TRAKKER Antares Optical Link Adapter to connect a 9-pin RS-232 serial cable. How to connect these accessories to the T2425 is described next.

TRAKKER Antares TD2400 Communications Dock Connect the communications dock to the printer using an RS-232 null-modem serial cable (Part No. 047569 or 059167). Connect the power supply to the dock. Insert the T2425 in the dock. The TE application can now send data to the printer. For help, see the *TRAKKER Antares TD2400 Communications Dock Quick Reference Guide*.



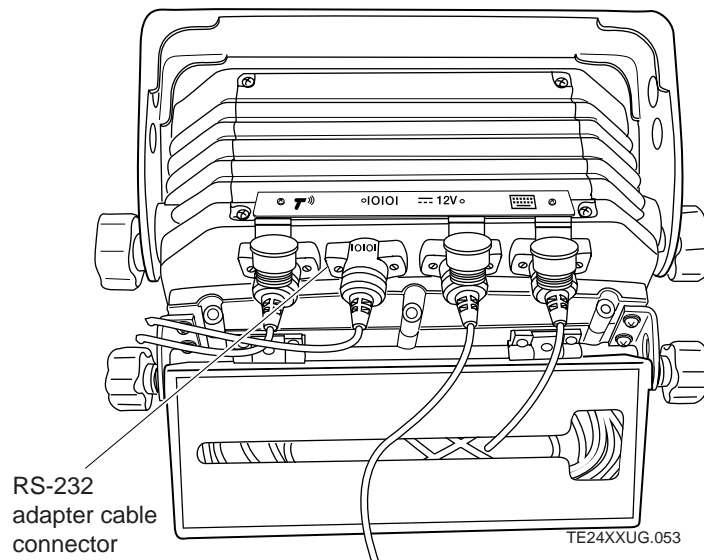
TRAKKER Antares Optical Link Adapter Connect the optical link adapter to the printer using an RS-232 null-modem serial cable (Part No. 047569 or 059167). Connect the power supply to the optical link adapter (optional). Connect the optical link adapter to the serial port on the end of the T2425. The TE application can now send data to the printer. For help, see the *TRAKKER Antares Optical Link Adapter Quick Reference Guide*.

TRAKKER Antares Optical Link Adapter



Connecting Your T2455 to a Printer

You can connect the TRAKKER Antares T2455 terminal to a printer by the RS-232 adapter cable (Part No. 066847) to COM1 on the terminal. To connect the RS-232 adapter cable, unplug the rubber plug from the COM1 port on the terminal. Insert the RS-232 adapter cable connector into the COM1 port on the terminal and tighten the two screws on the RS-232 adapter cable connector. Connect the other end of the RS-232 adapter cable to the printer.

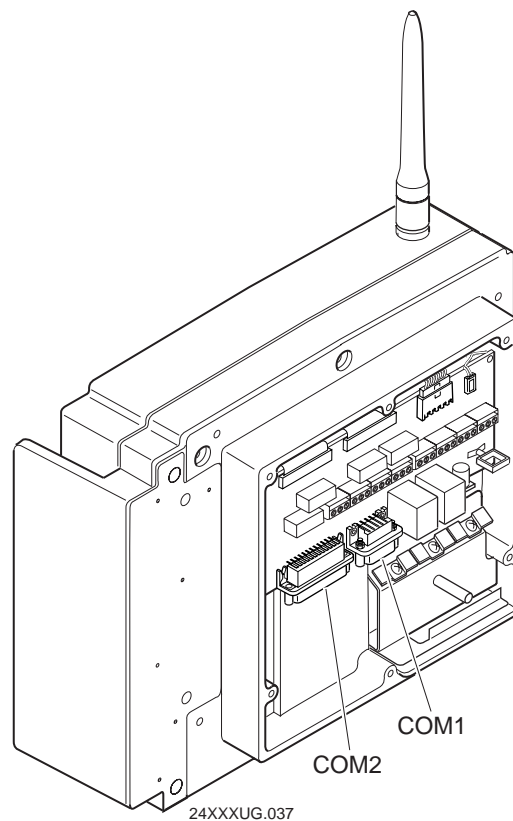


Connecting Your T248X to a Printer

You can connect the TRAKKER Antares T248X terminal to a printer by using one of the terminal's serial ports.

- COM1 has a 9-pin connector that supports RS-232 serial communications.
- COM2 has a 25-pin connector that supports RS-232/422/485 serial communications. COM2 is only available on a T248X with an enhanced input/output board option.
- COM4 supports RS-232 serial communications with an adapter cable accessory (Part No. 067185).

You need to remove the terminal's back panel to connect a printer to a serial port. For help, see the *TRAKKER Antares 248X Stationary Terminal User's Manual*.



Using the Print Modes

You can use these Print modes with the VT/ANSI TE application:

- Auto Print mode
- Printer Controller mode
- Print Screen mode
- Print Form Feed mode
- Print Cursor Line mode

These modes are defined in the following table.

Mode	Definition
Auto Print	Prints each line after the cursor leaves that line using a carriage return or when auto-advancing through fields. This mode can be turned on and off from a VT/ANSI host or from the TE Configuration menu.
Printer Controller	Prints all data from a VT/ANSI host. This mode should be turned on and off from the host because all host screens are printed without allowing the user to respond. You cannot log on or off while in this mode. If the connection to the host fails, this mode can be turned off from the TE Configuration menu.
Print Screen	Prints a VT/ANSI host screen (25 x 80 screen) when you press <input type="checkbox"/> <input type="checkbox"/> on your terminal. Only one screen is printed per hot key or command.
Print Form Feed	After a screen is printed, the printer advances the printed screen out of the printer. This mode can be turned on and off from a VT/ANSI host or from the TE Configuration menu.
Print Cursor Line	Prints the line that the cursor is on. This mode can only be turned on from a VT/ANSI host and turns off after the line prints.

Refer to the programmer's guide for your VT100/220/320 or ANSI host to send commands from the host. The following instructions explain how to use the menu system to set Auto Print and Print Form Feed modes and to turn off Printer Controller mode.

Important: To configure a T2480 or T2485 to print, see "Configuring Terminal Emulation on the T2480 and T2485" in Chapter 3. Do NOT use the following procedure.

To configure the printing options by using the TE Configuration menu

1. Connect your terminal to a printer.
2. Configure the terminal serial port to match the parameters set for the serial port on the printer. Flow Control must be set to XON/XOFF on both the terminal and the printer. For help configuring the serial port parameters, see your terminal user's manual.
3. At the TE welcome screen or anywhere in a TE session, press **[F1]** to access the Terminal Emulation menu.

TE welcome screen

```

Intermec
TRAKKER Antares
VT/ANSI
Terminal
Emulation
Version 04.1

```

TE session screen

```

*
<login:

```

TE24XXUG.029

Note: If you are not connected to the host or DCS 300 or controller or have problems accessing the TE Configuration menu, reset your terminal to get to the TE welcome screen. For help, see Chapter 6, "Troubleshooting."

The Terminal Emulation menu appears.


```

TERMINAL EMULATION
Configure TE
Set Password
Exit TE

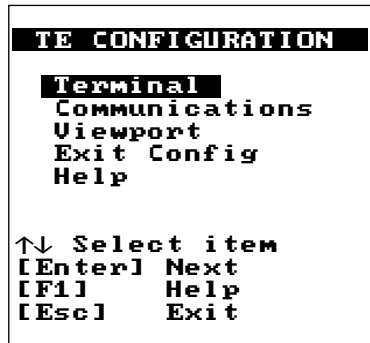
↑↓ Select item
[Enter] Next
[F1] Help
[Esc] Exit

```

TE24XXUG.004

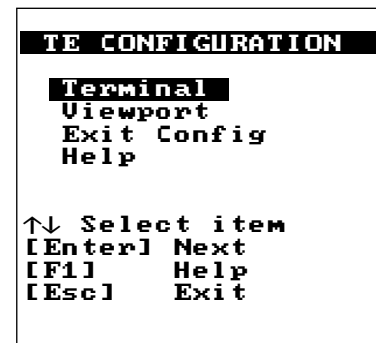
4. Choose Configure TE and press . The TE Configuration menu appears.

UDP Plus Network Terminal



TE24XXUG.005

TCP/IP Network Terminal




TE24XXUG.030

5. Press ▲ or ▼ to highlight Printer and press . The Printer screen appears.



TE24XXUG.039

6. Under Printer Ready, check that Yes is highlighted. Printer ready means the printer is turned on and connected to your terminal.
7. Press ▼ to move to the Print mode you want to configure, press ► until On is highlighted, and press .

Note: To avoid problems logging on or off, do not turn on Printer Controller mode from the menu system. If you lose the connection between your terminal and the host, use the TE Configuration menu to turn off Printer Controller mode.

- From the TE Configuration menu, choose Exit Config and press . The Save new configuration screen appears.



TE24XXUG.009

- Choose Yes and press to save the TE configuration. Your terminal saves the printer configuration to flash memory.

Using the Viewport

When you start your application, you see all or part of a host screen on the TRAKKER Antares terminal screen. This section describes how you view other parts of the host screen on the terminal.

The default screen sizes for the TRAKKER Antares terminals are:

- 16 lines x 20 characters for the T2425
- 25 lines x 80 characters for the T2455
- 4 lines x 40 characters for the T2480 and T2485
- 25 lines x 40 characters for the T2481 and T2486

You can use the terminal screen as a viewport to access the full host screen by using the paging keys described in this section.

Note: There are several display exceptions for non-EBCDIC keypad or keyboard characters when you are working in TE mode. Brackets [] display as parentheses (). The ^ character cannot be used in TE mode.

How the Viewport Works

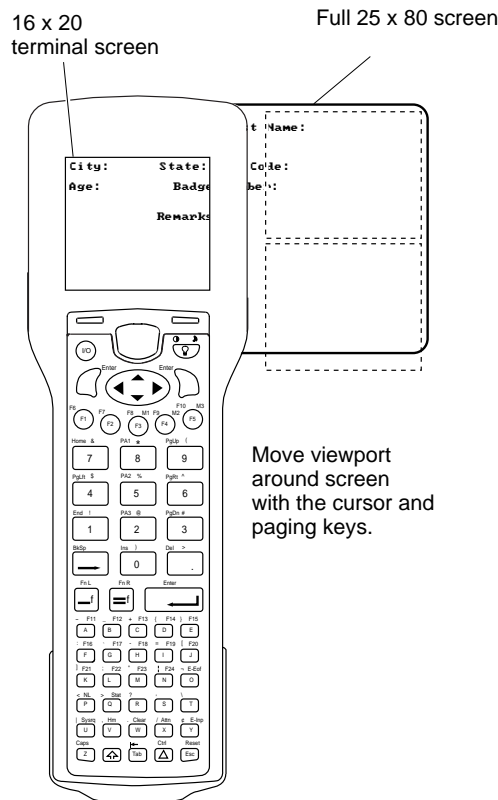
The viewport lets you view 25 x 80 screens and enter data by showing the part of the screen you are using. When you need to view part of a screen that does not appear on the terminal screen, you can move the viewport to show that part of the screen. The viewport acts as a window to the larger screen and it behaves as if it were “moving” across the screen.

There are two ways to move the viewport:

- Manually
- Automatically

To manually move the viewport, you use the viewport cursor keys and paging keys. To automatically move the viewport, you use a 3270, 5250, or VT/ANSI TE application and configure the Viewport mode. Even if the viewport automatically follows or centers the cursor in a screen, you can still manually move the viewport around the 25 x 80 screen to see other information. The next illustration shows how to use the T2425 screen as a viewport.

Note: To scan the bar code labels in this section, you must configure the terminal to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual.



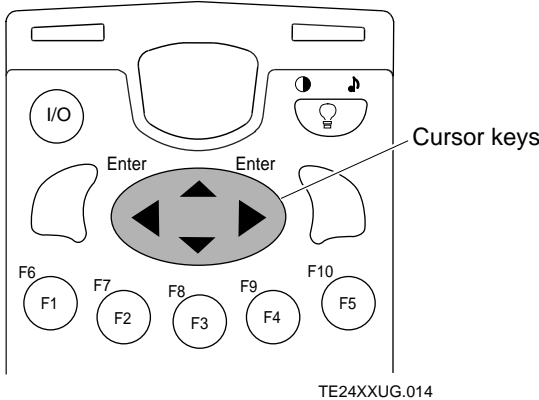
TE24XXUG.013

Use the next sections to learn how to use these keys to move the viewport:

- Cursor keys
- Paging keys

Using the Cursor Keys

Use the cursor keys to move the cursor around the TE screen when you are running an application or entering data. You can also use the cursor keys to move the viewport when you need to see the next line or column in a TE screen. When you move the viewport, the cursor does not move. Viewport commands are only sent to the terminal, not the host computer. The next illustration shows the cursor keys on a T2425.



Use the cursor key sequences and bar code labels listed in the next table to move the viewport.

To Enter	Press These Keys T2425/T2455	T248X	Or Scan This Bar Code	Description
Viewport up			 *%UP*	Moves the viewport up one line or row.
Viewport down			 *%DN*	Moves the viewport down one line or row.
Viewport right			 *%RT*	Moves the viewport one character to the right.
Viewport left			 *%LF*	Moves the viewport one character to the left.

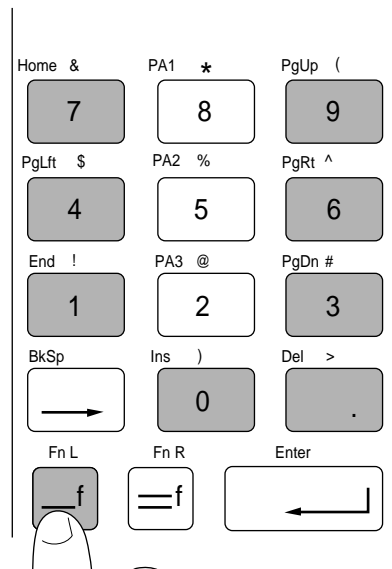
Note: There are alternate viewport commands that work on both the TRAKKER Antares terminals and JANUS devices. For help, see "Viewport Commands Compatible With JANUS Devices" in Appendix A.

Using the Paging Keys

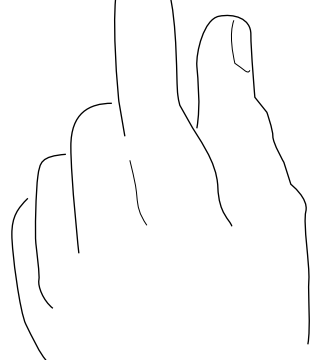
You can use paging keys to move around a TE screen on the terminal. Paging keys move the terminal screen to the next adjacent area or page on the host screen. The size of a page depends on the screen size of your terminal and the font size for the display. These paging keys move the screen as a viewport within the host screen; the screen itself does not advance or scroll.

The paging keys let you view the rest of the TE screen without entering data. When you page, you move only the viewport, not the cursor, and the cursor may disappear from the screen. For help on the paging keys, see Chapter 4, "3270 and 5250 Commands," or Chapter 5, "VT100/220/320 and ANSI Commands." The next illustration shows the paging keys for a T2425 terminal with a 3270 keypad.

3270 Example

























TE24XXUG.015



Use the paging key sequences and bar code labels listed in the next table to move the viewport.

Paging Keys to Move the Viewport

To Enter	Press These Keys T2425/T2455/T248X	Or Scan This Bar Code	Description
Home	 	 *%HOME*	Moves the viewport to the top left corner of the TE screen.
End	 	 *%END*	Moves the viewport to the end of the last line displayed on the TE screen.
Page up	 	 *%PGUP*	Moves the viewport up one page.
Page down	 	 *%PGDN*	Moves the viewport down one page.
Page right	 	 *%PGRT*	Moves the viewport right one page.
Page left	 	 *%PGLT*	Moves the viewport left one page.
Insert	 	 *%INS*	Each character you type is inserted after the cursor until you exit Insert mode by pressing   again. Normally, you type text in Overwrite mode. Characters are typed over the existing characters on the screen.
Delete	 	 *%DEL*	Deletes or erases the character displayed above the cursor.

Note: There are alternate viewport commands that work on both the TRAKKER Antares terminals and JANUS devices. For help, see “Viewport Commands Compatible With JANUS Devices” in Appendix A.

Customizing Your Configuration

This chapter explains how to configure the terminal emulation applications.

Configuring 3270 or 5250 Terminal Emulation Parameters

You can configure several parameters for 3270 and 5250 TE on the TRAKKER Antares terminal. These are the TE parameters you can configure:

- Terminal
- Communications (for UDP Plus network only)
- Viewport

Important: Do NOT use the TE Configuration menu to configure terminal emulation on your T2480 or T2485. The TE Configuration menu screens do not fit in the screen window area and you cannot read all the options. If you do get into the menu, try pressing `[esc]` to exit. For help configuring TE on the T2480 or T2485, see “Configuring Terminal Emulation on the T2480 and T2485” later in this chapter.

Configuring Terminal Emulation Screens and Options

You can access the TE Configuration menu when the TE welcome screen appears or once a TE session is established. The TE welcome screen appears each time you reboot the terminal or restart your application. Use this procedure to configure your 3270 or 5250 TE program.

Note: You cannot enter the TE Configuration menu when the terminal is trying to connect to the DCS 300, Model 200 Controller, or host.

To configure 3270 or 5250 TE options

1. At the TE welcome screen or anywhere in a TE session, press `[F1]` `(F1)` to access the Terminal Emulation menu.

TE welcome screen

```

Intermec
TRAKKER Antares
  3270
Terminal
Emulation
Version 04.1
  
```

TE session screen

```

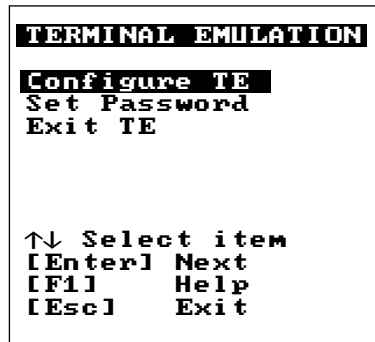
                                Sign on
User.....
Password.....
Program/procedure.
Menu.....
Current Library...

TNAPP  F
  
```

TE24XXUG.031

Note: If you are not connected to the host or DCS 300 or controller or have problems accessing the TE Configuration menu, reset your terminal to get to the TE welcome screen. For help, see Chapter 6, "Troubleshooting."

The Terminal Emulation menu appears.

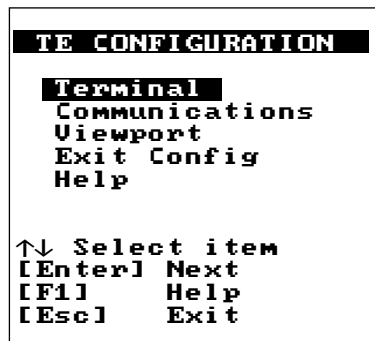


TE24XXUG.004

Note: If the Terminal Emulation menu does not appear, you need to reset the terminal firmware for the TE keypad or keyboard. For help resetting the keypad or keyboard, see "Problems Accessing the TE Configuration Menu" in Chapter 6.

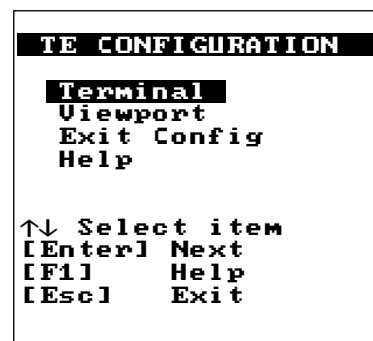
2. Choose Configure TE and press . The TE Configuration menu appears.

UDP Plus Network Terminal



TE24XXUG.005

TCP/IP Network Terminal



TE24XXUG.030

Note: If you are using the 3270 or 5250 TE application for a TCP/IP direct connect network, you do not need to set communications parameters in the TE Configuration menu.

3. Press ▲ or ▼ to highlight the option you want to configure and press . The Terminal, Communications, and Viewport screens are defined next. To exit, see "Exiting the TE Configuration Menu" later in this section.

Definitions for the TE Configuration Screens
TE Configuration Screen

```

TERMINAL
Text Size
Regular Height
Auto Field Advance
Enable
OK          CANCEL
  
```

TE24XXUG.006

```

COMMUNICATIONS
Upline Protocol
TELNET
Host Name
IMSYSD
OK          CANCEL
  
```

TE24XXUG.003

Description

The Terminal screen contains these options:

Text Size Selects the size of text the terminal displays on the terminal screen. Options are regular height (normal characters) and double height (double high text).

Auto Field Advance (5250 only) Enables or disables the auto field advance option. Auto field advance enabled is the default. For more information about using auto-advance, see “Auto-Advancing Through Fields on 5250 Terminal Emulation Screens” in Chapter 2.

The Communications screen (UDP Plus network only) contains these options:

Upline Protocol Select either Telnet or SNA protocol. SNA forces the TRAKKER Antares terminal to use the SNA 5250 Terminal Session Manager (TSM) on the DCS 300 or Model 200 Controller for communicating with the host. Telnet forces the terminal to use the Telnet TSM in the DCS 300 or controller to communicate with the host. Both TSM components reside on the DCS 300 or controller and are transparent to the terminal emulation user.

Host Name Enter the name of the host to which you want the terminal to connect. You can enter a host name that is up to 15 characters long. The name must match a host name in the list of available hosts defined on the DCS 300 or Model 200 Controller.

***Note:** If you have linked a terminal with a host name on the DCS 300 or Model 200 Controller, you do not need to enter a host name in this screen. If you have not linked a terminal with a host name on the DCS 300 or controller, you must enter a host name for this parameter.*

Definitions for the TE Configuration Screens (continued)

TE Configuration Screen



TE34XXUG.008

Description

The Viewport screen contains these options:

Viewport Mode Select one of these viewport movement modes:

- **Follow** Enables viewport Follow Cursor mode.
- **Center** Enables viewport Center mode. The viewport always centers around the cursor.
- **Manual** Disables viewport movement. You must manually move the cursor to each field in the screen.

You can set these parameters for Follow Cursor mode only:

Side Boundary The viewport moves when the cursor is this number of characters (1 to 10) from the right or left side boundary.

Side Jump The number of characters (1 to 10) the viewport moves right or left when you reach a horizontal boundary.

Vertical Boundary The viewport moves when the cursor is this number of characters (1 to 10) from the top or bottom boundary.

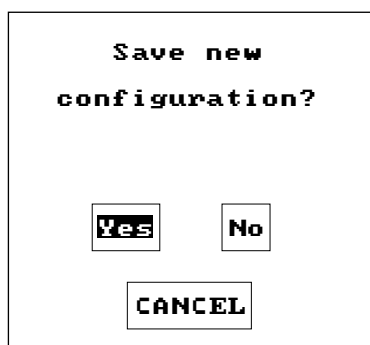
Vertical Jump The number of characters (1 to 10) the terminal moves up or down when you reach a vertical boundary.

Exiting the TE Configuration Menu

After entering all configuration parameters, you want to save the new configuration and exit the TE Configuration menu.

To exit the TE Configuration menu

1. From the TE Configuration menu, choose Exit Config and press . The Save new configuration screen appears.



TE24XXUG.009

2. Choose Yes and press if you want to save the TE configuration. Your terminal saves the configuration options to flash memory and the sign-on or TE screen appears.

Choose No and press if you do not want to save the TE configuration. You exit the TE Configuration menu without saving any changes and the sign-on or TE screen appears.

Choose Cancel and press to return to the TE Configuration menu. You can continue making changes to the TE configuration.

If you change the communications parameters during TE startup, the new parameters will start when you exit the TE Configuration menu. If you already have a session running and change any communications parameters, you must restart your TE application for the changes to take effect. For help, see “Restarting Terminal Emulation” later in this chapter.

Configuring VT/ANSI Terminal Emulation Parameters

You can configure several parameters for VT/ANSI TE on the TRAKKER Antares terminal. These are the TE parameters you can configure:

- Terminal
- Communications (UDP Plus network only)
- Viewport

Important: Do NOT use the TE Configuration menu to configure terminal emulation on your T2480 or T2485. The TE Configuration menu screens do not fit in the screen window area and you cannot read all the options. If you do get into the menu, try pressing `esc` to exit. For help configuring TE on your T2480 or T2485, see “Configuring Terminal Emulation on the T2480 and T2485” later in this chapter.

Configuring Terminal Emulation Screens and Options

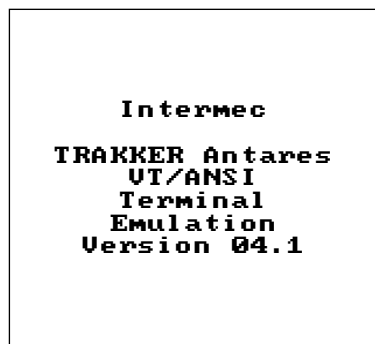
You can access the TE Configuration menu when the TE welcome screen appears or once a TE session is established. The TE welcome screen appears each time you reboot the terminal or restart your application. Use this procedure to configure your VT/ANSI TE application.

Note: You cannot enter the TE Configuration menu when the terminal is trying to connect to the DCS 300, Model 200 Controller, or host.

To configure VT/ANSI TE options

1. At the TE welcome screen or anywhere in a TE session, press `⌘ F1` to access the Terminal Emulation menu.

TE welcome screen



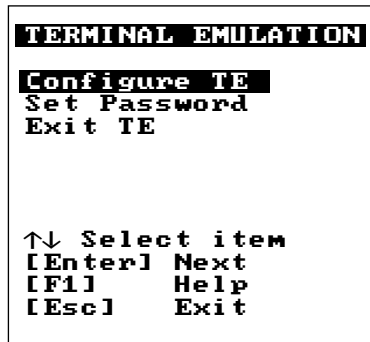
TE session screen



TE24XXUG.029

Note: If you are not connected to the host or DCS 300 or controller or have problems accessing the TE Configuration menu, reset your terminal to get to the TE welcome screen. For help, see Chapter 6, “Troubleshooting.”

The Terminal Emulation menu appears.

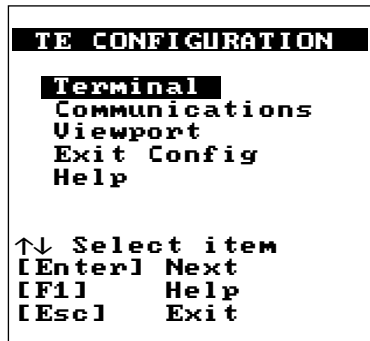


TE24XXUG.004

Note: If the Terminal Emulation menu does not appear, you need to reset the terminal firmware for the TE keypad or keyboard. For help resetting the keypad or keyboard, see “Problems Accessing the TE Configuration Menu” in Chapter 6.

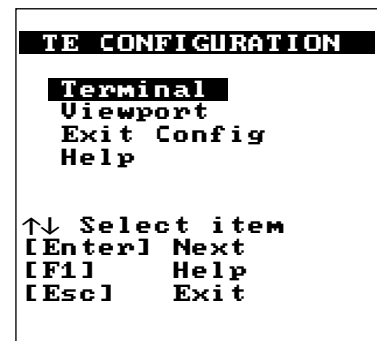
2. Choose Configure TE and press . The TE Configuration menu appears.

UDP Plus Network Terminal



TE24XXUG.005

TCP/IP Network Terminal



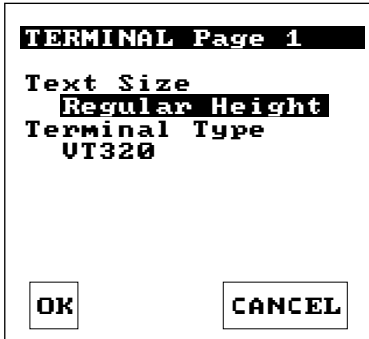
TE24XXUG.030

Note: If you are using the VT/ANSI TE application for a TCP/IP direct connect network, you do not need to set communications parameters in the TE Configuration menu.

3. Press ▲ or ▼ to highlight the option you want to configure and press . The Terminal, Communications, and Viewport screens are defined in the next table. To exit, see “Exiting the TE Configuration Menu” later in this section.

Definitions for the TE Configuration Screens

TE Configuration Screen



TE24XXUG.010

Description

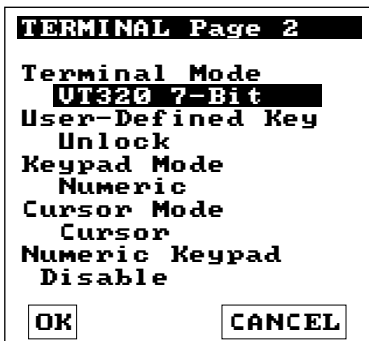
The Terminal screen contains these options:

Text Size Selects the size of text the terminal displays on the terminal screen. Options are regular height (normal characters) and double height (double high text).

Terminal Type Selects the terminal type of the host system. The supported terminal types are VT100, VT220, VT320, RDRANSI, and ANSI.

Note: If you select ANSI, RDRANSI, or VT100 as the terminal type, you will only see some of the options available on page two of the Terminal screens.

VT220 and VT320 Screen



TE24XXUG.017

Terminal Mode (VT220/320 only) Select the Terminal mode that corresponds to your terminal type. This field sets the mode VT-series terminals use to exchange escape sequences, control commands, and status reports with an application.

User-Defined Key (VT220/320 only) Select whether you want this parameter set to lock or unlock. When you select lock, you cannot reprogram user-defined keys. When you select unlock, you can program user-defined keys from the host application.

Keypad Mode Select Numeric or Application mode. These options generate different key codes. For a list of key codes, see “Understanding VT/ANSI Key Support” in Appendix B.

If you select Numeric mode, you generate ANSI cursor control ESC sequences that correspond to what appears on the face of the keys.

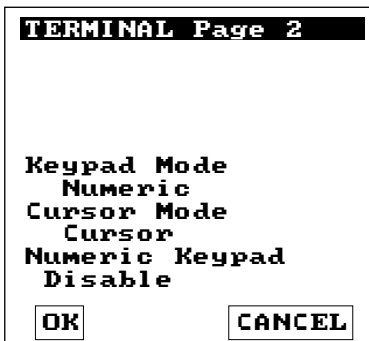
If you select Application mode, you generate application ESC sequences for the key code. For help, see your VT manual.

Cursor Mode Select Cursor or Application mode. These two options generate different key codes.

If you select Cursor mode, you generate ANSI cursor control ESC sequences that correspond to what appears on the face of the cursor key.

If you select Application mode, you generate application ESC sequences for the key code. For help, see your VT manual.

ANSI and VT100 Screen



TE24XXUG.021

Numeric Keypad Enables or disables Numeric Keypad mode on the terminal. When you enable Numeric Keypad mode, the terminal numeric keys function like the numeric keys on a PC's numeric keypad. When you disable Numeric Keypad mode, the terminal numeric keys function like the numeric keys on the main section of a PC keyboard.

Definitions for the TE Configuration Screens (continued)
TE Configuration Screen

```

TERMINAL Page 3
Input Mode
Character Mode

Answerback
devicename <CR>

OK          CANCEL
  
```

TE24XXUG.011

```

COMMUNICATIONS
Host Name
_____

OK          CANCEL
  
```

TE24XXUG.007

Description

Input Mode Select Line mode or Character mode. In Line mode, you can enter a line of characters on your terminal before transmitting data to the host. Press to send each line of text. Line mode reduces communications overhead because input is sent one line at a time instead of one or a few characters at a time. In Character mode, keypad or keyboard input is immediately sent to the host.

Answerback When the host computer sends an ENQ, the terminal responds by sending the Answerback field to the host. You can also press on the terminal to send the Answerback field to the host. Answerback can be up to 30 characters long including any ASCII character from 0 to 255. You can place a carriage return anywhere in the Answerback field. Enter these four characters for a carriage return: <CR>.

The Communications screen (UDP Plus network only) contains this option:

Host Name Enter the name of the host to which you want the terminal to connect. You can enter a host name that is up to 15 characters long. The name must match a host name in the list of available hosts defined on the DCS 300 or Model 200 Controller.

Note: If you have linked a terminal with a host name on the DCS 300 or Model 200 Controller, you do not need to enter a host name in this screen. If you have not linked a terminal with a host name on the DCS 300 or controller, you must enter a host name for this parameter.

Definitions for the TE Configuration Screens (continued)

TE Configuration Screen



TE34XXUG.008



TE24XXUG.039

Description

The Viewport screen contains these options:

Viewport Mode Select one of these viewport movement modes:

- **Follow** Enables viewport Follow Cursor mode.
- **Center** Enables viewport Center mode. The viewport always centers around the cursor.
- **Manual** Disables viewport movement. You must manually move the cursor to each field in the screen.

You can set these parameters for **Follow Cursor** mode only:

Side Boundary The viewport moves when the cursor is this number of characters (1 to 10) from the right or left side boundary.

Side Jump The number of characters (1 to 10) the viewport moves right or left when you reach a horizontal boundary.

Vertical Boundary The viewport moves when the cursor is this number of characters (1 to 10) from the top or bottom boundary.

Vertical Jump The number of characters (1 to 10) the terminal moves up or down when you reach a vertical boundary.

The Printer screen contains these options:

Printer Ready Printer ready means the printer is turned on and connected to your terminal.

Auto Print Mode Prints each line after the cursor leaves that line using a carriage return or when auto-advancing through fields.

Printer Controller Prints all data from a VT/ANSI host. You should turn this mode on and off from the host because, in this mode, all host screens are printed without allowing the user to respond. You cannot log on or off while in this mode. If the connection to the host fails, turn off this mode from the TE Configuration menu.

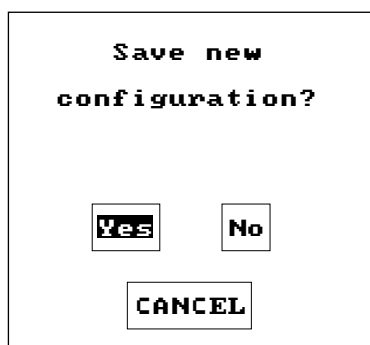
Print Form Feed After a screen is printed, the printer advances the printed screen out of the printer.

Exiting the TE Configuration Menu

After entering all configuration parameters, you want to save the new configuration and exit the TE Configuration menu.

To exit the Configuration menu

1. From the TE Configuration menu, choose Exit Config and press . The Save new configuration screen appears.



TE24XXUG.009



2. Choose Yes and press if you want to save the TE configuration. Your terminal saves the configuration options to flash memory and the sign-on or TE screen appears.

Choose No and press if you do not want to save the TE configuration. You exit the TE Configuration menu without saving any changes and the sign-on or TE screen appears.

Choose Cancel and press to return to the TE Configuration menu. You can continue making changes to the TE configuration.



If you change the communications parameters during TE startup, the new parameters will start when you exit the TE Configuration menu. If you already have a session running and change any communications parameters, you must restart your TE application for the changes to take effect. For help, see “Restarting Terminal Emulation” later in this chapter.

Setting Security for the TE Configuration Menu

You can set a password to control access to the TE Configuration menu. When a password is enabled, you are prompted to enter the password each time you access the TE Configuration menu ( ).

Note: The TE security feature is not supported on T2480 and T2485 terminals.

To enable or disable the TE Configuration menu password

1. At the TE welcome screen or anywhere in a TE session, press   to access the TE Configuration menu.

TE welcome screen

```
Intermec
TRAKKER Antares
  UT/ANSI
  Terminal
  Emulation
  Version 04.1
```

TE session screen

```
*
<login:
```

TE24XXUG.029

Note: If you are not connected to the host or DCS 300 or controller or have problems accessing the TE Configuration menu, reset your terminal to get to the TE welcome screen. For help, see Chapter 6, "Troubleshooting."


The Terminal Emulation menu appears.

```
TERMINAL EMULATION
Configure TE
Set Password
Exit TE

↑↓ Select item
[Enter] Next
[F1] Help
[Esc] Exit
```


TE24XXUG.004

Note: If the Terminal Emulation menu does not appear, you need to reset the terminal firmware for the TE keypad or keyboard. For help resetting the keypad or keyboard, see “Problems Accessing the TE Configuration Menu” in Chapter 6.

2. Press ▲ or ▼ to highlight Set Password and press . The Set TE Password screen appears.



TE24XXUG.022


3. Fill in the fields on the Set TE Password screen, select OK, and press .

Old Password Enter the current password in this field. Asterisks representing the password are displayed on the screen. An error message, “Incorrect Old Password Entry,” appears if the data you enter does not match the original password.

Note: Leave this field blank if no password is currently configured.

New Password Type the new password in this field. The password can be a maximum of 10 characters. Asterisks are displayed in the field for each keystroke you enter in this field. To disable the password security feature, leave this field blank.

Verify Password Enter the new password again to verify that it was entered correctly. Asterisks are displayed for each keystroke you enter in this field.

Note: To remove an existing password, enter the current password in the Old Password field and leave the New Password and Verify Password fields blank. Choose OK and press  to remove password protection.

4. If you disable the security feature, the Confirm screen appears. Choose OK and press to disable password security.



TE24XXUG.024

5. Exit the TE Configuration menu and save your new configuration. For help, see “Exiting the TE Configuration Menu” earlier in this chapter. The password is now changed.

The TE Configuration menu password is stored in an encrypted form in the TE.SEC file. When you restart TE and reconnect to the host through the DCS 300 or Model 200 Controller in a UDP Plus network, the permanent password stored on the DCS 300 or controller is again downloaded to the connected device and overwrites the TE.SEC file. When you restart TE and reconnect to the host in a TCP/IP direct connect network, the TE.SEC file remains unchanged.

After you set a password, the Verify TE Password screen appears each time you access the TE Configuration menu. Type the password and press to proceed.



TE24XXUG.023

Configuring Terminal Emulation on the T2480 and T2485

This section explains how to configure terminal emulation on the TRAKKER Antares 2480 and 2485 terminals by modifying the TE configuration files.

Important: Do NOT use the TE Configuration menu to configure terminal emulation on your T2480 or T2485. The TE Configuration menu screens do not fit in the screen window area and you cannot read all the options. If you do get into the menu, try pressing `[esc]` to exit.

To configure TE parameters on the T2480 and T2485, you need to

1. Upload the TE configuration file from the T2480 or T2485 to your PC, DCS 300, or Model 200 Controller.
2. Use a text editor to modify the TE configuration file.
3. Download the TE configuration file from your PC, DCS 300, or Model 200 Controller to the T2480 or T2485.

The next sections explain each step and explain what TE parameters can be set. The following table lists the TE applications and their configuration file names. To see an example of a TE configuration file, see the TEANT.CFG configuration file in Appendix B.

TE Application	Configuration File Name
3270	TE3270.CFG
5250	TE5250.CFG
VT/ANSI	TEANT.CFG

Uploading the TE Configuration File

You can use three different methods to upload the TE configuration file:

- FileCopy through a serial connection from your T2480 or T2485 to your PC
- The Download Server feature on the DCS 300 or controller to a T2480 or T2485 loaded with UDP Plus protocol
- The TFTP application on a PC or host to a T2480 or T2485 loaded with TCP/IP protocol

This section covers the first two methods. To use the TFTP application, see the *TRAKKER Antares 248X Stationary Terminal User's Manual*.

FileCopy is a Windows utility that lets you transfer files to or from a terminal by using serial communications. The FileCopy utility ships with the TRAKKER Antares Programmer's Software Kit (PSK) and EZBuilder. You can also download FileCopy from the Intermec Technologies Corporation web site at this address:

www.intermec.com/products/ezbuildr.htm

Choose Utilities & Tools to review information about FileCopy and to download a free copy of the utility to your PC.

To use FileCopy to upload the TE configuration file

1. Connect the T2480 or T2485 to a PC using COM1, COM2, or COM4 on the back of the T2480 or T2485. For help, see the terminal user's manual.
2. Use FileCopy to upload the TE configuration file from the terminal's drive C to your PC. For help using FileCopy, use the online Help.
3. Modify the TE configuration file using any text editor. For help, see "Modifying the TE Configuration File" later in this section.

To use the Download Server to upload the TE configuration file

1. Configure your T2480 with Ethernet or your T2485 to communicate with the DCS 300 or Model 200 Controller. For help, see the terminal user's manual.
2. Using the Download Server feature on the DCS 300 or controller, select the T2480 or T2485 that you want to upload the TE configuration file from. You can also select a group of terminals. For help, see the *DCS 300 System Manual* or *Model 200 Controller System Manual*.
3. Choose the Command option button.
4. Enter the Transmit File reader command and choose Add. The command appears in the Files and Data box.

```
%%R,c:fromfilename,tofilename
```

For example, to upload the TE configuration file for VT/ANSI, enter the following command:

```
%%R,c:teant.cfg,teant.cfg
```

5. Choose OK to save the Transmit File reader command and return to Terminal Download Configuration dialog box.
6. Choose Download to download the Transmit File reader command to the T2480 or T2485. The T2480 or T2485 will upload the TE configuration file to the D:\USERDATA directory on the DCS 300 or controller.
7. Modify the TE configuration file using any text editor. For help, see "Modifying the TE Configuration File" later in this section.

3270 and 5250 TE Configuration File Parameters

Parameter	Name in the TE Configuration File	Parameter Options	Description
Text Size	TextSize	RegularHeight DoubleHeight	Selects the size of text the terminal displays on the terminal screen. Options are regular height (normal characters) and double height (double high text).
Auto Field Advance (5250 only)	AutoAdvance	Enable Disable	Enables or disables the auto field advance option. Auto field advance enabled is the default. For more information about using auto-advance, see "Auto-Advancing Through Fields on 5250 Terminal Emulation Screens" in Chapter 2.
Upline Protocol (UDP Plus only)	TranId	\$TE3, \$TE5, \$TEV,	Select either Telnet (\$TEV,) or SNA (\$TE3, for 3270, or \$TE5, for 5250) protocol. SNA forces the TRAKKER Antares terminal to use the SNA 3270 or 5250 Terminal Session Manager (TSM) on the DCS 300 or Model 200 Controller for communicating with the host. Telnet forces the terminal to use the Telnet TSM in the DCS 300 or controller to communicate with the host. Both TSM components reside on the DCS 300 or controller and are transparent to the terminal emulation user.

3270 and 5250 TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
Host Name (UDP Plus only)	HostName	(blank)	<p>Enter the name of the host to which you want the terminal to connect. You can enter a host name that is up to 15 characters long. The name must match a host name in the list of available hosts defined on the DCS 300 or Model 200 Controller.</p> <p><i>Note: If you have linked a terminal with a host name on the DCS 300 or Model 200 Controller, you do not need to enter a host name in this screen. If you have not linked a terminal with a host name on the DCS 300 or controller, you must enter a host name for this parameter.</i></p>
Viewport Mode	ViewportMode	Follow Center Manual	<p>Select one of these viewport movement modes:</p> <ul style="list-style-type: none"> • Follow Enables viewport Follow Cursor mode. • Center Enables viewport Center mode. The viewport always centers around the cursor. • Manual Disables viewport movement. You must manually move the cursor to each field in the screen.
Side Boundary (Follow Cursor Mode only)	SideBoundary	1	Set this parameter to a value from 1 to 10. The viewport moves when the cursor is this number of characters (1 to 10) from the right or left side boundary.
Side Jump (Follow Cursor Mode only)	SideJump	10	Set this parameter to a value from 1 to 10. The number of characters (1 to 10) the viewport moves right or left when you reach a horizontal boundary.

3270 and 5250 TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
Vertical Boundary (Follow Cursor Mode only)	VerticalBoundary	1	Set this parameter to a value from 1 to 10. The viewport moves when the cursor is this number of characters (1 to 10) from the top or bottom boundary.
Vertical Jump (Follow Cursor Mode only)	VerticalJump	8	Set this parameter to a value from 1 to 10. The number of characters (1 to 10) the terminal moves up or down when you reach a vertical boundary.

VT/ANSI TE Configuration File Parameters

The following table explains the parameters you can set for VT/ANSI TE and lists what to look for in the TE configuration file to modify the parameter. The default settings will be shown in the TE configuration file (TEANT.CFG) when you upload it.




VT/ANSI TE Configuration File Parameters

Parameter	Name in the TE Configuration File	Parameter Options	Description
Text Size	TextSize	RegularHeight DoubleHeight	Selects the size of text the terminal displays on the terminal screen. Options are regular height (normal characters) and double height (double high text).
Terminal Type	TermType	VT100 VT220 VT320 ANSI RDRANSI	Selects the terminal type of the host system. The supported terminal types are VT100, VT220, VT320, RDRANSI, and ANSI.
Terminal Mode (VT220/320 only)	TermMode	VT100 VT220-7bit VT220-8bit VT320-7bit VT320-8bit	Select the Terminal mode that corresponds to your terminal type. This field sets the mode VT-series terminals use to exchange escape sequences, control commands, and status reports with an application.

VT/ANSI TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
User-Defined Key (VT220/320 only)	UserDefinedKey	Unlock Lock	Select whether you want this parameter set to lock or unlock. When you select lock, you cannot reprogram user-defined keys. When you select unlock, you can program user-defined keys from the host application.
Keypad Mode	KeypadMode	Numeric Application	Select Numeric or Application mode. These options generate different key codes. For a list of key codes, see “Understanding VT/ANSI Key Support” in Appendix B. If you select Numeric mode, you generate ANSI cursor control ESC sequences that correspond to what appears on the face of the keys. If you select Application mode, you generate application ESC sequences for the key code. For help, see your VT manual.
Cursor Mode	CursorMode	Cursor Application	Select Cursor or Application mode. These two options generate different key codes. If you select Cursor mode, you generate ANSI cursor control ESC sequences that correspond to what appears on the face of the cursor key. If you select Application mode, you generate application ESC sequences for the key code. For help, see your VT manual.

VT/ANSI TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
Numeric Keypad	NumericKeypad	Disable Enable	Enables or disables Numeric Keypad mode on the terminal. When you enable Numeric Keypad mode, the terminal numeric keys function like the numeric keys on a PC's numeric keypad. When you disable Numeric Keypad mode, the terminal numeric keys function like the numeric keys on the main section of a PC keyboard.
Input Mode	InputMode	CharMode LineMode	Select Line mode or Character mode. In Line mode, you can enter a line of characters on your terminal before transmitting data to the host. Press  to send each line of text. Line mode reduces communications overhead because input is sent one line at a time instead of one or a few characters at a time. In Character mode, keypad or keyboard input is immediately sent to the host.
Answerback	Answerback	(blank)	When the host computer sends an ENQ, the terminal responds by sending the Answerback field to the host. You can also press   on the terminal to send the Answerback field to the host. Answerback can be up to 30 characters long including any ASCII character from 0 to 255. You can place a carriage return anywhere in the Answerback field. Enter these four characters for a carriage return: <cr>.

VT/ANSI TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
Host Name (UDP Plus only)	HostName	(blank)	<p>Enter the name of the host to which you want the terminal to connect. You can enter a host name that is up to 15 characters long. The name must match a host name in the list of available hosts defined on the DCS 300 or Model 200 Controller.</p> <p><i>Note: If you have linked a terminal with a host name on the DCS 300 or Model 200 Controller, you do not need to enter a host name in this screen. If you have not linked a terminal with a host name on the DCS 300 or controller, you must enter a host name for this parameter.</i></p>
Viewport Mode	ViewportMode	Follow Center Manual	<p>Select one of these viewport movement modes:</p> <ul style="list-style-type: none"> • Follow Enables viewport Follow Cursor mode. • Center Enables viewport Center mode. The viewport always centers around the cursor. • Manual Disables viewport movement. You must manually move the cursor to each field in the screen.
Side Boundary (Follow Cursor Mode only)	SideBoundary	1	Set this parameter to a value from 1 to 10. The viewport moves when the cursor is this number of characters (1 to 10) from the right or left side boundary.
Side Jump (Follow Cursor Mode only)	SideJump	10	Set this parameter to a value from 1 to 10. The number of characters (1 to 10) the viewport moves right or left when you reach a horizontal boundary.

VT/ANSI TE Configuration File Parameters (continued)

Parameter	Name in the TE Configuration File	Parameter Options	Description
Vertical Boundary (Follow Cursor Mode only)	VerticalBoundary	1	Set this parameter to a value from 1 to 10. The viewport moves when the cursor is this number of characters (1 to 10) from the top or bottom boundary.
Vertical Jump (Follow Cursor Mode only)	VerticalJump	8	Set this parameter to a value from 1 to 10. The number of characters (1 to 10) the terminal moves up or down when you reach a vertical boundary.
Printer Ready	PrinterReady	No Yes	Printer ready means the printer is on and connected to your terminal.
Auto Print Mode	AutoPrintMode	Off On	Prints each line after the cursor leaves that line using a carriage return or when auto-advancing through fields. This mode can be turned on or off from a VT/ANSI host or in the TE configuration file.
Printer Controller	PrinterController Mode	Off On	Prints all data from a VT/ANSI host. This mode should be turned on and off from the host because all host screens are printed without allowing the user to respond. You cannot log on or off while in this mode.
Print Form Feed	PrintFormFeedMode	Off On	After a screen is printed, the printer advances the printed screen out of the printer.

Downloading the TE Configuration File

You can use three different methods to download the TE configuration file:

- FileCopy through a serial connection from your T2480 or T2485 to your PC
- The Download Server feature on the DCS 300 or controller to a T2480 or T2485 loaded with UDP Plus protocol
- The TFTP application on a PC or host to a T2480 or T2485 loaded with TCP/IP protocol

This section covers the first two methods. To use the TFTP application, see the *TRAKKER Antares 248X Stationary Terminal User's Manual*.

To use FileCopy to download the TE configuration file

1. Connect the T2480 or T2485 to a PC using COM1, COM2, or COM4 on the back of the T2480 or T2485. For help, see the terminal user's manual.
2. Use FileCopy to download the TE configuration file from your PC to the terminal's drive C. For help using FileCopy, use the online Help.

To use the Download Server to upload the TE configuration file

1. Configure your T2480 with Ethernet or your T2485 to communicate with the DCS 300 or Model 200 Controller. For help, see the terminal user's manual.
2. Using the Download Server feature on the DCS 300 or controller, select the T2480 or T2485 that you want to download the TE configuration file to. You can also select a group of terminals. For help, see the *DCS 300 System Manual* or *Model 200 Controller System Manual*.
3. Choose the Command option button.
4. Enter the Receive File reader command and choose Add. The command appears in the Files and Data box.

```
.%R,fromfilename,c:tofilename
```

For example, to upload the TE configuration file for VT/ANSI, enter the following command:

```
.%R,teant.cfg,c:teant.cfg
```

5. Choose OK to save the Receive File reader command and return to Terminal Download Configuration dialog box.
6. Choose Download to download the Receive File reader command to the T2480 or T2485. The T2480 or T2485 will download the TE configuration file to the terminal's drive C.

If you already have a TE session running and you changed TE communications parameters, you must restart your TE application for the changes to take effect.

To restart your TE application

- Scan this bar code label

Reset Firmware



_.

You can also send the Reset Firmware command over the network. For help, see your TRAKKER Antares terminal user's manual.

Or, use the TRAKKER Antares 2400 Menu System to configure the Resume Execution command to resume "not allowed." Choose Terminal Menu from the Configuration Menu and then choose Power Management. Each time you press to turn on the terminal, the terminal boots and restarts your application.

The terminal restarts your TE application using the configuration saved in the TE configuration file.

Restarting Terminal Emulation

You will need to restart your TE application if you are having problems or if you want to reconnect to the host with a new configuration. Restarting your TE application will also clear the auto-login information, preventing another user from establishing a TE session using your login information. You can restart your TE application by either scanning Reset Firmware or by using the Exit TE option in the TE Configuration menu. Both methods reset all terminal firmware and the application and run the application in a new session.

To restart TE

Scan this bar code label:

Reset Firmware



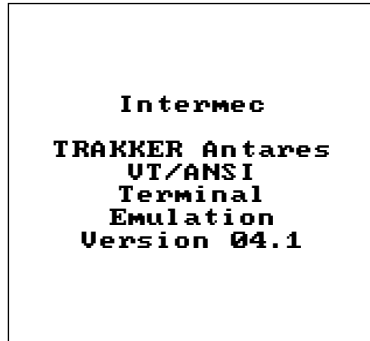
_.

The terminal restarts your TE application using the configuration saved in the TE configuration file.

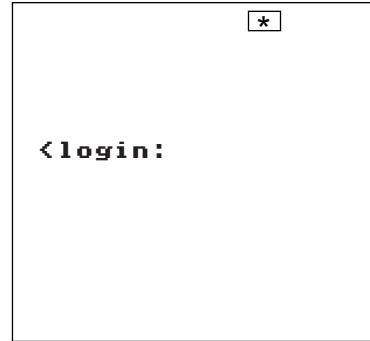
Or follow this procedure:

1. At the TE welcome screen or anywhere in a TE session, press **[F1]** **(F1)** to access the TE Configuration menu.

TE welcome screen



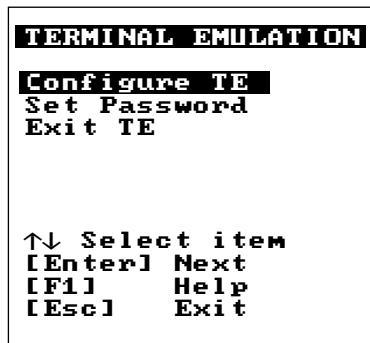
TE session screen



TE24XXUG.029


Note: If you are not connected to the host or DCS 300 or controller or have problems accessing the TE Configuration menu, reset your firmware to get to the TE welcome screen. For help, see Chapter 6, “Troubleshooting.”

The Terminal Emulation menu appears.



TE24XXUG.004

Note: If the Terminal Emulation menu does not appear, you need to reset the terminal firmware for the TE keypad or keyboard. For help resetting the keypad or keyboard, see “Problems Accessing the TE Configuration Menu” in Chapter 6.

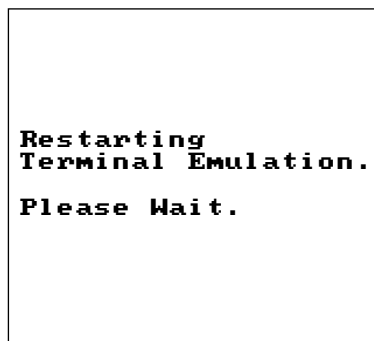
2. Press ▲ or ▼ to highlight Exit TE and press . The Exit Menu screen appears.



TE24XXUG.026

Note: If you changed the TE configuration without saving the changes, those changes will be lost if you restart the application. To save your configuration changes, see “Exiting the TE Configuration Menu” earlier in this chapter.

3. Select OK and press . The Restarting Terminal Emulation screen appears.



TE24XXUG.028

4. Wait a few seconds while the screen clears and the application starts. The terminal restarts your TE application using the configuration saved in the TE configuration file.

Once the screen on the terminal shows the sign-on or login screen, you can either start using the application or change the TE configuration.

Using the Auto-Login Feature

The auto-login feature allows you to send the same login information each time you login to the host. When you start the TE application, the terminal checks for an auto-login script file. The script file, AUTOLOG.SCR, must be stored in the same directory where the TE application is stored. If there is a script file, the terminal runs the login commands from the auto-login script file.

To use the auto-login feature, you need to:

1. Develop an auto-login script file.
2. Load the auto-login script file on the terminal.

These steps are covered in the next sections along with a list of the necessary control characters and the procedure for disabling the auto-login feature.

Developing Auto-Login Script Files

A typical auto-login script file consists of a few `Input` and `InputHidden` commands followed by a `HostName` command, followed by a series of `WaitFor` and `Send` commands. A very simple script file may not have any input commands if all of the TRAKKER Antares terminals are using the same account.

There are six commands you can use to create auto-login script files. All commands are case sensitive. For example, `WaitFor` is a command, but `Waitfor` is not a valid command. “Sample Auto-Login Script Files” in Appendix A provides examples of script files.

The auto-login script commands are defined next:


Input `Input` is called with two parameters. The first parameter is a character string enclosed in quotes that is used as a prompt to the user. The second parameter is a string variable name indicating where the text string will be stored.

InputHidden Same as the `Input` script command except that user input is echoed as a string of asterisks.

HostName `HostName` is followed by a character string enclosed in quotes. The character string can be a host name or an asterisk. The host name command acts as an IF clause. If the host name matches, the following section of the script file is executed up to the next host name command. If an asterisk is used, it matches any host name.

WaitFor Wait for a list of up to 10 strings. The strings must be enclosed in quotes and must be separated by a comma. The strings cannot exceed 20 characters in length.

Send This command sends a character string enclosed in quotes or a string variable to the host. The character string enclosed in quotes can have an embedded control key in VT/ANSI emulation and embedded IBM mnemonics in 3270 and 5250 emulation.

PromptSessionStart PromptSessionStart is a predefined variable. If this variable is defined and set to any value other than 0, the application prompts the user to press  before starting a Telnet session with the host.

Control Characters for Auto-Login Script Files

You can include control characters in your auto-login script file. The control character must be enclosed by < > (angle brackets) in the AUTOLOG.SCR file.

Note: For VT/ANSI terminal emulation, you can also use the corresponding hexadecimal value to represent the control character. For a description of control characters and their hexadecimal equivalents, see the "Full ASCII Table" in your TRAKKER Antares user's manual.

3270 and 5250 Control Characters

Control Character	Definition	Control Character	Definition	Control Character	Definition
<ATTN>	Attention	<RTAB>	Right Tab	<F12>	Function Key
<CLEAR>	Clear	<SPACE>	Space	<F13>	Function Key
<CUR_DN>	Cursor Down	<F1>	Function Key	<F14>	Function Key
<CUR_LF>	Cursor Left	<F2>	Function Key	<F15>	Function Key
<CUR_RT>	Cursor Right	<F3>	Function Key	<F16>	Function Key
<CUR_UP>	Cursor Up	<F4>	Function Key	<F17>	Function Key
	Delete	<F5>	Function Key	<F18>	Function Key
<ERS_EOF>	Erase EOF	<F6>	Function Key	<F19>	Function Key
<HOME>	Home	<F7>	Function Key	<F20>	Function Key
<INS>	Insert	<F8>	Function Key	<F21>	Function Key
<LTAB>	Left Tab	<F9>	Function Key	<F22>	Function Key
<NEWLN>	New Line	<F10>	Function Key	<F23>	Function Key
<RESET>	Reset	<F11>	Function Key	<F24>	Function Key

VT/ANSI Control Characters

Control Character	Definition	Control Character	Definition	Control Character	Definition
<ACK>	Acknowledgment	<ENQ>	Enquiry	<NUL>	Null, or all zeroes
<BEL>	Bell	<EOT>	End of Transmission	<RS>	Record Separator
<BS>	Backspace	<ESC>	Escape	<SI>	Shift In
<CAN>	Cancel	<ETB>	End Transmission Block	<SO>	Shift Out
<CR>	Carriage Return	<ETX>	End of Text	<SOH>	Start of Heading
<DC1>	Device Control 1 (XON)	<FF>	Form Feed	<STX>	Start of Text
<DC2>	Device Control 2	<FS>	File Separator	<SUB>	Substitute
<DC3>	Device Control 3 (XOFF)	<GS>	Group Separator	<SYN>	Synchronous Idle
<DC4>	Device Control	<HT>	Horizontal Tab	<US>	Unit Separator
<DLE>	Data Link Escape	<LF>	Line Feed	<VT>	Vertical Tab
	End of Medium	<NAK>	Negative Acknowledge		

Loading the Auto-Login Script File

Here's a summary of the steps you follow to download an auto-login script file to the TRAKKER Antares terminals. You can download more than one script file, but name the file that you want to use immediately as AUTOLOG.SCR and name any other script files with different names ending with .SCR. To learn more about transferring files, see your TRAKKER Antares user's manual.

To use the serial port to download an auto-login script file

1. Create your auto-login script file using any text editor or copy and modify one of the example script files in Appendix A.
2. Save the file you create as AUTOLOG.SCR.
3. Connect the terminal to the development PC or host using the optical link adapter or TD2400 communications dock. For help, see your TRAKKER Antares user's manual or your accessory documentation.
4. Use the FileCopy utility to download the AUTOLOG.SCR file to the terminal. You must load the AUTOLOG.SCR file into drive C, the same directory where the TE application is stored.

To use RF communications to download an auto-login script file

1. Create your auto-login file using any text editor or copy and modify one of the example script files in Appendix A.
2. Save the file you create as AUTOLOG.SCR.
3. Copy the AUTOLOG.SCR file to the DCS 300 or Model 200 Controller, or copy the AUTOLOG.SCR file to a host in a TCP/IP direct connect network.
4. In a UDP Plus network, use the Download Server option on the DCS 300 or controller to download the file to the terminal.

In a TCP/IP direct connect network, use your TFTP application to download the file to the terminal.

When you reset your TRAKKER Antares terminal, the terminal clears the auto-login information, such as the password and user's name. You can cancel the auto-login process by pressing any key during the auto-login sequence. When a host session is broken, you can restart the auto-login sequence by pressing \boxed{f} $\text{\textcircled{PS}}$, the Auto-Login Restart command. For more information on the Auto-Login Restart command, see Chapter 4, "3270 and 5250 Commands," or Chapter 5, "VT100/220/320 and ANSI Commands."

***Note:** Auto-login information is saved when you end a TE session by logging off from the host computer. This DOES NOT prevent another user from establishing a TE session using your login information. You must use Exit TE to clear auto-login information.*

Disabling the Auto-Login Feature

To disable the auto-login feature, you must rename the AUTOLOG.SCR file. Renaming AUTOLOG.SCR forces your TE application to use the default login. Renaming also ensures that you can use the same auto-login script file later by changing the name back to AUTOLOG.SCR. If you want to enable a new script file, you can use the instructions in this section to rename a different script file to AUTOLOG.SCR.

To disable the auto-login script file



1. Press \boxed{f} $\text{\textcircled{C}}$ \boxed{T} $\boxed{2}$ \boxed{M} or scan this bar code to access the TRAKKER Antares 2400 Menu System. The Main Menu appears.

Enter Test and Service Mode



..

2. Choose System Menu and then choose File Manager.
3. Select drive C.

4. Press ▲ or ▼ to highlight AUTOLOG.SCR and press  (F2).
5. Type the new name for the auto-login script file and press  or choose OK.
6. Exit the TRAKKER Antares 2400 Menu System to return to your current TE session. Restart your TE application to use TE without the auto-login feature.

You can also rename the auto-login script file from your host or by scanning bar codes. For help, see your TRAKKER Antares user's manual to rename the file using these methods.

Configuring Terminal Emulation to Display International Characters

With a TRAKKER Antares terminal running firmware version 2.20 or higher and TE applications version 4.0 or higher, you can configure your terminal to display international characters. You need to load a language mapping file on the terminal to begin displaying international characters in your TE application. The language mapping file must be loaded on the terminal's drive C and named DISPTBLS.MAP.

The TE international mapping files are available on the DCS 300 or Model 200 Controller (version 3.0 and higher) or in the TRAKKER Antares firmware upgrade kit for version 2.20 and higher.

On the DCS 300 or Model 200 Controller (version 3.0 and higher), international mapping files for 3270 and 5250 TE are stored in the USERDATA\TERMAPPS\IBMTE directory. International mapping files for VT/ANSI TE are stored in the USERDATA\TERMAPPS\VTTE directory.

For the TRAKKER Antares firmware upgrade kit (version 2.20 and higher), the international mapping files are available on a separate disk. For help finding the files, see the README text that comes with the upgrade kit. For help ordering an upgrade kit, see your local Intermec sales representative.

The following procedures explain how to download and rename an international mapping file.

To download an international mapping file

1. Decide which language you want to display and find the corresponding mapping file. For a list of the file names, see the tables later in this section.
2. Connect the terminal to your PC, DCS 300, or Model 200 Controller.

To download the mapping file using the serial port, connect the terminal to the PC or host using the optical link adapter or TD2400 communications dock. For help, see your TRAKKER Antares user's manual or your accessory documentation.

3. Download the file to drive C using one of these methods:
 - FileCopy utility on your PC
 - Download Server option on the DCS 300 or controller
 - An application on the hostFor help downloading the file, see your TRAKKER Antares user's manual.

To rename an international mapping file

1. Press **[f]** **[Q]** **[T]** **[2]** **[M]** or scan this bar code to access the TRAKKER Antares 2400 Menu System. The Main Menu appears.

Enter Test and Service Mode



.-.

2. Choose System Menu and then choose File Manager.
3. Select drive C.
4. Press **▲** or **▼** to highlight the mapping file and press **[f]** **[F2]**.
5. Type DISPTBLS.MAP and press **[↵]** or choose OK.
6. Exit the TRAKKER Antares 2400 Menu System to return to your current TE session. Restart your TE application to display the new language.

3270 and 5250 TE International Mapping Files

Language	File	Other Language
U.S. English	037-850.MAP	
German	273-850.MAP	
Norwegian	277-850.MAP	Danish
Swedish	278-850.MAP	Finnish
Italian	280-850.MAP	
Spanish	284-850.MAP	
French	297-850.MAP	
Portuguese	500-850.MAP	Belgian

VT/ANSI TE International Mapping Files

Character Set	File
ISO8859-1	ISO1-850.MAP
DEC Multinational	DEC-850.MAP

To use a custom translation table for VT/ANSI terminal emulation, rename ISO1-850.MAP (for UNIX hosts) or DEC-850.MAP (for DEC/VAX hosts) as DISPTBLS.MAP and download it to the TRAKKER Antares terminal. You can use either RF communications or the serial port to download your new DISPTBLS.MAP file.

4

3270 and 5250 Commands

This chapter lists all of the terminal emulation commands you can use on a TRAKKER Antares terminal that is running 3270 or 5250 terminal emulation.

Command Descriptions



This chapter contains an alphabetical listing of the 3270 and 5250 terminal emulation commands you can use on the TRAKKER Antares terminal. Each command contains a description, key sequence, and bar code. You will also find program function and program attention keys listed with their bar codes, but no description because you program the keys differently for each application.

Note: To scan the bar code labels in this chapter, you must configure the terminal to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual.

Attention

The Attention key contacts the host and asks permission to send data from the terminal screen. The keypad or keyboard locks automatically when you send this command or any other AID command. When the host computer grants permission to send data, the keypad or keyboard unlocks. This key is useful for finding out if the host computer is free before you attempt to transmit data.

For 5250 terminals, this key sequence prompts the host system to display the Operational Assistant Menu.

Keypad:  X (T2425 and T2455) or  U (T248X)



Scan: Attention



%ATTN

Auto-Login Restart

Auto-Login Restart restarts the auto-login sequence when a host session is broken. The Auto-Login Restart command starts the auto-login script file from the correct host name statement in the script file. For this command to work, the WaitFor string must match the last data sent from the host. For example, if the WaitFor string is the login prompt "login: " with a space after the colon, the WaitFor string must include a space for the auto-login restart to work.

Keypad:  F5 (T2425) or  F5 (T2455 and T248X)



Scan: Auto-Login Restart



%ALRS

Backtab

Backtab moves the cursor back to the most recent first field position. If the cursor is in the middle of a field, Backtab moves it to the first position of the same field. If the cursor is at the first position of a field, Backtab moves it to the first position of the preceding input field.

Keypad:   (T2425, T2455, and T248X)

Scan: Backtab







%BTAB

Clear

This command clears the terminal screen and moves the cursor to the home position. This is an AID key.

For 5250 terminals, this command sends the clear AID (X'BD) function to the host computer, which then clears the keyboard.

Keypad:   (T2425 and T2455) or   (T248X)





Scan: Clear



%CLR

Cursor Home

Cursor Home is one of two home commands. Cursor Home moves the cursor to the first input position on the terminal screen and moves the viewport to that position. If you want to move the viewport to the upper left corner of the terminal screen without moving the cursor, use the Home command.

Keypad:   (T2425 and T2455) or   (T248X)



Scan: Home



%Hm

Delete

This command deletes the character at the current cursor position. When you delete a character, all characters to the right of the cursor shift left one position. The cursor must be in an unprotected field when you use this key.

Keypad:   (T2425, T2455, and T248X)



Scan: Delete



%DEL

End

This command moves the viewport to the end of the last line displayed on the TE application screen. When you move the viewport, the cursor does not move.

Keypad:   (T2425, T2455, and T248X)

Scan: End




%END

Enter

This command sends all input to the host computer, including the cursor position. It lets the host know what data to expect next. Enter is an AID key.

3270 Keypad:  (T2425, T2455, and T248X), Enter (T248X), or  or  (T2425)

5250 Keypad:  (T2425, T2455, and T248X)





Scan: Enter



%CR


Enter TE Configuration Menu

This command lets you enter the TE Configuration menu where you can make changes to 3270 or 5250 configuration settings.

Keypad:   (T2425) or   (T2455 and T248X)





Scan: Not supported.

***Note:** You cannot enter the TE Configuration menu when the terminal is trying to connect to the DCS 300 or Model 200 Controller or host. You can enter the TE Configuration menu once a TE session is established or when the TE welcome screen appears.*

***Important:** Do NOT use the TE Configuration menu to configure terminal emulation on the T2480 and T2485. The TE Configuration menu screens do not fit in the screen window area and you cannot read all the options. If you do get into the menu, try pressing  to exit. For help configuring TE on the T2480 or T2485, see “Configuring Terminal Emulation on the T2480 and T2485” in Chapter 3.*

Erase to End of Field

This command erases all characters from the cursor to the end of the field. If the field is protected or the cursor is in a field attribute instead of an input position, then pressing this key will lock the keyboard or keypad. Press Reset to unlock the keyboard or keypad.

Keypad:   (T2425 and T2455) or   (T248X)





Scan: Erase to End of Field



%EOF

Erase Field

This command erases all characters in the field where you have the cursor positioned.

Keypad:   (T2425 and T2455) or   (T248X)





Scan: Erase Field



%FERS

Erase Input

This command clears all input fields and moves the cursor to the first input position on the terminal screen. This command will not erase protected fields. If you press this key when the screen shows only protected fields, the cursor will return to the home position.

Keypad:   (T2425 and T2455) or   (T248X)





Scan: Erase Input



%EINP

Erase Last Word

This command erases all characters from the cursor back to the start of a word or a space on the screen.

Keypad:   (T2425 and T2455) or   (T248X)

Scan: Erase Last Word





%WERS

Error Reset

5250 terminals only

Error Reset unlocks the keypad or keyboard when it has locked due to a 5250 error condition. It also resets the Help, Insert, System Request, and Command keys. An error message appears when data entry occurs in S/3X or AS/400 applications.

Keypad:   (T2425, T2455, and T248X)

Scan: Error Reset




%ERR

Fast Cursor Right or Left

This command moves the cursor two positions to the right or left rather than one.

Keypad: Fast Cursor Right  (T2425, T2455, and T248X)

Fast Cursor Left  (T2425, T2455, and T248X)

Scan: Fast Cursor Right



%FCRT

Fast Cursor Left




%FCLT


Field+ and Field-

5250 terminals only

The Field+ command operates as a Field Exit key in all fields.

The Field- command operates differently depending on the system. With most systems, the Field- command operates the same as the Field+ and Field Exit commands except that you can only use it in signed numeric and numeric only fields. Field- inserts a minus sign in the last position of a signed numeric field.

Keypad: Field+  (T2425, T2455, and T248X)

Field-  (T2425, T2455, and T248X)

Scan: Field+



%FLD+

Field-





%FLD-

Field Exit

5250 terminals only

This command exits an input field and moves the cursor to the beginning of the next input field. If you press this key while the cursor is between characters, then all characters to the right of the cursor will be erased.

Note: You can set the *Postamble* or *Preamble* command to use characters from the extended ASCII character set such as the *Field Exit* code for 5250 TE. For help, see “Auto-Advancing Through Fields on 5250 Terminal Emulation Screens” in Chapter 2.

Keypad:  or  (T2425) or FldExit (T2455 and T248X)

Scan: Field Exit





%FLDX

Help

5250 terminals only

Help causes the host system to display the Help Menu if a local processing error has not occurred. If a local processing error occurs, the error condition is handled automatically by the TE application. For help on TE application error messages, see Chapter 6, “Troubleshooting.”

Keypad:   (T2425, T2455, and T248X)



Scan: Help



%HELP

Home

Moves the viewport to the top left corner of the TE application screen. When you move the viewport, the cursor does not move.


Keypad:   (T2425, T2455, and T248X)



Scan: Home



%HOME

Insert

This command puts the keypad or keyboard into Insert mode. Insert mode lets you insert characters between other characters in a field. If you insert characters after the field is full, enter data at a field attribute or in a protected field, the keypad or keyboard locks up. If you press any key that initiates host communication (such as ) , you turn off Insert mode and unlock the keypad or keyboard. The status line indicates when the terminal is operating in Insert mode.

Keypad:   (T2425, T2455, and T248X)





Scan: Insert



%INS

New Line

Use this command to move the cursor to the first unprotected character position of the first line in the screen. If the entire screen is a protected field, the cursor returns to the home position.

Keypad:   (T2425 and T2455) or   (T248X)

Scan: New Line











%NL

Paging Keys (Viewport)

Paging keys move the terminal screen to the next adjacent area on a 25 x 80 screen. These keys move the screen as a viewport within the host screen; the screen itself does not advance or scroll.

The paging keys let you view the rest of the screen without entering data. When you page, you move only the viewport, not the cursor, and the cursor may disappear from the terminal screen. The size of a page depends on the screen size of your terminal and on the font size for the display. The Cursor Home key will bring both the viewport and the cursor back to the first field position on the screen.

Keypad:	Page Up	  (T2425, T2455, and T248X)
	Page Down	  (T2425, T2455, and T248X)
	Page Right	  (T2425, T2455, and T248X)
	Page Left	  (T2425, T2455, and T248X)

Scan: Page Up

 %PGUP

Page Down

 %PGDN

Page Right

 %PGRT

Page Left



 %PGLT

Note: There are alternate paging viewport commands that work on both the TRAKKER Antares terminals and JANUS devices. For help, see “Viewport Commands Compatible With JANUS Devices” in Appendix A.

Reset

3270 terminals only

Reset unlocks the keyboard or keypad if it is locked due to an error and will clear the status line of most error messages. You cannot use the Reset command when the terminal is communicating with the host computer.

Keypad:   (T2425, T2455, and T248X)



Scan: Reset



%RST

Reshow

This command resends a screen image from the locally maintained host buffer to refresh the terminal screen.

Keypad:   (T2425, T2455, and T248X)

Scan: Not supported.





Roll Up and Roll Down

5250 terminals only

Roll up and roll down are AID keys that the terminal sends to the host to request additional screens. The host transmits a new screen in response to this command. The new screens allow you to view data either above or below what appears on the current screen.

Do not confuse the Roll Up and Roll Down AID keys with the Roll command (Hex 23) received from a host application. For help on the Roll command, see “Using the Roll Keys” in Chapter 2.

Keypad: Roll Up   (T2425, T2455, and T248X)

Roll Down   (T2425 and T2455) or   (T248X)

Scan: Roll Up



%ROUP









Roll Down



%RODN

Scroll Viewport Keys

Use these commands to move the viewport one line or character up, down, right, or left. To select a specific cursor key, press one of the arrows on the edges of the oval-shaped cursor key.

Keypad:	Viewport Up	 ▲ (T2425 and T2455) or  ▲ (T248X)
	Viewport Down	 ▼ (T2425 and T2455) or  ▼ (T248X)
	Viewport Left	 ◀ (T2425 and T2455) or  ◀ (T248X)
	Viewport Right	 ▶ (T2425 and T2455) or  ▶ (T248X)

Scan: Viewport Up

 %UP

Viewport Down

 %DN

Viewport Left



 %LF

Viewport Right

 %RT

Status

This command toggles the terminal screen between the status line display and the normal field input display. Press this key once to bring up the status line, and press it again to remove the status line. If a local editing error occurs for any reason, the status line automatically appears, displaying an error message.


Keypad:   (T2425, T2455, and T248X)

Scan: Status





 %STAT

System Request

The use of these AID keys depends on the system. Most systems use these commands to sign on or off, select alternate tasks, interrupt the present program to start a new task, or request permission to send data.

To cancel the System Request command, press the Error Reset (ErrRst) key. If you press any other key before pressing the  key, an error occurs.

For 5250 terminals, the System Request command prompts the host system to display the System Request Menu.

Keypad:   (T2425 and T2455) or   (T248X)


Scan: System Request



%SYSR

Tab

The Tab key moves the cursor to the first position in the next input field.

Keypad:  (T2425, T2455, and T248X)

Scan: Tab





%TAB

Program Function Keys

When you press a program function key or scan its bar code, you send the data on the screen to the host, and the function you specified is performed on this data. Each function is determined by the application you use with your system. See your application user's manual for details on the functions. Program function keys are AID keys, and the keyboard or keypad remains locked while the terminal performs the function you chose.

Function Key



Bar Code

 (T2425) or  (T2455 and T248X)

F1





%F1

 (T2425) or  (T2455 and T248X)

F2





%F2

 (T2425) or  (T2455 and T248X)

F3





%F3

 (T2425) or  (T2455 and T248X)

F4



%F4

 (T2425) or  (T2455 and T248X)

F5







%F5

  (T2425) or   (T2455 and T248X)

F6



%F6

  (T2425) or   (T2455 and T248X)





F7



%F7

Program Function Keys (continued)

Function Key





  (T2425) or   (T2455 and T248X)

Bar Code

F8







%F8

  (T2425) or   (T2455 and T248X)

F9







%F9

  (T2425) or   (T2455 and T248X)

F10







%F10

  (T2425 and T2455) or   (T248X)

F11







%F11

  (T2425 and T2455) or   (T248X)

F12







%F12

  (T2425 and T2455) or   (T248X)

F13







%F13

  (T2425 and T2455) or   (T248X)

F14







%F14

  (T2425 and T2455) or   (T248X)

F15



%F15

  (T2425 and T2455) or   (T248X)

F16



%F16

*Program Function Keys (continued)***Function Key****Bar Code**

[f] [G] (T2425 and T2455) or [f] [.] (T248X)

F17



%F17

[f] [H] (T2425 and T2455) or [f] ["] (T248X)

F18



%F18

[f] [I] (T2425 and T2455) or [f] [Z] (T248X)

F19



%F19

[f] [J] (T2425 and T2455) or [f] [X] (T248X)

F20



%F20

[f] [K] (T2425 and T2455) or [f] [C] (T248X)

F21



%F21

[f] [L] (T2425 and T2455) or [f] [V] (T248X)

F22



%F22

[f] [M] (T2425 and T2455) or [f] [B] (T248X)

F23



%F23

[f] [N] (T2425, T2455, and T248X)

F24





%F24

Program Attention Keys for 3270 Terminals

You can use the program attention keys to send messages to the host. The specific application you use with your system defines these messages. See your application user's manual for details on the messages each program attention key sends. Program attention keys are AID keys.

Program Attention Key

Bar Code

  (T2425, T2455, and T248X)

PA1





%PA1

  (T2425, T2455, and T248X)

PA2



%PA2

  (T2425, T2455, and T248X)



PA3





%PA3

Other Keys

You can also find these commands on the 3270 or 5250 TE keyboard or keypad. These non-ASCII (EBCDIC) keys are not shown in the Full ASCII Table in your TRAKKER Antares user's manual.

Key	Bar Code
[f] [O] (T2425 and T2455) or [f] [D] (T248X)	¬ (Not symbol)  *%NOT*
[f] [Y] (T2425 and T2455) or [f] [C] (T248X)	¢ (cent sign)  *%CENT*

These commands are only available on the 5250 TE keyboard or keypad.

Key	Bar Code
[f] [5] (T2425, T2455, and T248X)	Duplicate  *%DUP*
[f] [2] (T2425, T2455, and T248X)	Field Mark  *%FM*

VT100/220/320 and ANSI Commands

This chapter lists all of the terminal emulation commands you can use on a TRAKKER Antares terminal that is running VT100/220/320 or ANSI terminal emulation.

Editing Key Commands for VT220/320 Terminals





The following Editing Key commands are listed in alphabetical order. Each command is listed with its corresponding key sequence and bar code. Program function keys are listed with their bar code, but no description is provided because you program the keys differently for each application.

The function of each editing key is determined by the software application you are using. Refer to your application user's manual for information about the editing key functions.

***Note:** To scan the bar code labels in this chapter, you must configure the terminal to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual.*

Auto-Login Restart

Auto-Login Restart restarts the auto-login sequence when a host session is broken. The Auto-Login Restart command starts the auto-login script file from the correct host name statement in the script file. For this command to work, the WaitFor string must match the last data sent from the host. For example, if the WaitFor string is the login prompt "login: " with a space after the colon, the WaitFor string must include a space for the auto-login restart to work.

Keypad:   (T2425) or   (T2455 and T248X)

Scan: Auto-Login Restart



%ALRS

***Note:** The Auto-Login Restart command is available for VT100 and ANSI terminals.*

Backspace

Keypad:   (original T2425) or  (new T2425 and T2455) or   (T248X)



Scan: Backspace



%BKSP

***Note:** The Backspace editing key is available for VT100 and ANSI terminals.*

End





Keypad:   (T2425, T2455, and T248X)

Scan: End



%END

Find



Keypad:   (T2425 and T2455) or   (T248X)

Scan: Find



%FIND

Home







Keypad:   (T2425, T2455, and T248X)

Scan: Home



%HOME

Insert





Keypad:   (T2425 and T2455) or   (T248X) or   (T2425, T2455, and T248X)

Scan: Insert



%INS

Next Screen

Keypad:   (T2425 and T2455) or   (T248X)

Scan: Next











%NEXT

Paging Keys (Viewport)

Paging keys move the terminal screen to the next adjacent area on a 25 x 80 host screen. These keys move the screen as a viewport within the host screen; the screen itself does not advance or scroll.

The paging keys let you view the rest of the screen without entering data. When you page, you move only the viewport, not the cursor, and the cursor may disappear from the terminal screen. The size of a page depends on the screen size of your terminal and on the font size for the display.

Note: The Paging keys are available for VT100 and ANSI terminals.

Keypad:	Page Up	  (T2425, T2455, and T248X)
	Page Down	  (T2425, T2455, and T248X)
	Page Right	  (T2425, T2455, and T248X)
	Page Left	  (T2425, T2455, and T248X)

Scan: Page Up

 %PGUP

Page Down

 %PGDN

Page Right

 %PGRT

Page Left

 %PGLT

Note: There are alternate paging viewport commands that work on both the TRAKKER Antares terminals and JANUS devices. For help, see “Viewport Commands Compatible With JANUS Devices” in Appendix A.

Previous Screen

Keypad: (T2425 and T2455) or (T248X)

Scan: Previous Screen



%PREV

Remove

Keypad: (T2425 and T2455) or (T248X)

Scan: Remove



%REM

Select

Keypad: (T2425 and T2455) or (T248X)

Scan: Select



%SEL

Program Function Keys





When you press a program function key or scan its bar code, you send the data on the screen to the host and the TRAKKER Antares terminal performs the function you specified on this data. The software application you are using determines the function of each editing key. Refer to your application user's manual for information about the editing key functions.

Note: VT100 and ANSI terminals only support function keys $\textcircled{F1}$ to $\textcircled{F4}$.

Function Key	Bar Code
$\textcircled{F1}$ (T2425) or $\boxed{F1}$ (T2455 and T248X)	F1  *%F1*
$\textcircled{F2}$ (T2425) or $\boxed{F2}$ (T2455 and T248X)	F2  *%F2*
$\textcircled{F3}$ (T2425) or $\boxed{F3}$ (T2455 and T248X)	F3  *%F3*
$\textcircled{F4}$ (T2425) or $\boxed{F4}$ (T2455 and T248X)	F4  *%F4*
$\textcircled{F5}$ (T2425) or $\boxed{F5}$ (T2455 and T248X)	F5  *%F5*
$\boxed{f} \textcircled{F1}$ (T2425) or $\boxed{f} \boxed{F1}$ (T2455 and T248X)	F6  *%F6*
$\boxed{f} \textcircled{F2}$ (T2425) or $\boxed{f} \boxed{F2}$ (T2455 and T248X)	F7  *%F7*

Program Function Keys (continued)

Function Key





  (T2425) or   (T2455 and T248X)

Bar Code

F8







%F8

  (T2425) or   (T2455 and T248X)

F9







%F9

  (T2425) or   (T2455 and T248X)

F10







%F10

  (T2425 and T2455) or   (T248X)

F11







%F11

  (T2425 and T2455) or   (T248X)

F12







%F12

  (T2425 and T2455) or   (T248X)

F13







%F13

  (T2425 and T2455) or   (T248X)

F14







%F14

  (T2425 and T2455) or   (T248X)

F15



%F15

  (T2425 and T2455) or   (T248X)

F16



%F16

















Program Function Keys (continued)

Function Key	Bar Code
[F] [G] (T2425 and T2455) or [F] [.] (T248X)	F17  *%F17*
[F] [H] (T2425 and T2455) or [F] ["] (T248X)	F18  *%F18*
[F] [I] (T2425 and T2455) or [F] [Z] (T248X)	F19  *%F19*
[F] [J] (T2425 and T2455) or [F] [X] (T248X)	F20  *%F20*

Additional Functions

You can use the key sequences and bar codes shown next to move the viewport and execute additional commands on VT/ANSI terminals.

Use these commands to move the viewport one line up, down, right, or left. When you move the viewport, the cursor does not move. To select a specific cursor key, press one of the arrows on the edges of the oval-shaped Cursor key.

Keypad:	Viewport Up	  (T2425 and T2455) or   (T248X)
	Viewport Down	  (T2425 and T2455) or   (T248X)
	Viewport Left	  (T2425 and T2455) or   (T248X)
	Viewport Right	  (T2425 and T2455) or   (T248X)

Scan: Viewport Up

%UP

Viewport Down

%DN

















Viewport Left

%LF

Viewport Right

%RT

Additional VT/ANSI Functions

Function Key	Description
  (T2425, T2455, and T248X)	Toggles the terminal between Application mode and Numeric Keypad mode.
  (T2425, T2455, and T248X)	Transmits the Answerback field to the host computer.
  (T2425) or   (T2455 and T248X)	Accesses the TE Configuration menu. You can access the menu at any time during your terminal emulation session or at the TE welcome screen. You cannot enter the TE Configuration menu when the terminal is trying to connect to the DCS 300, Model 200 Controller, or host.
  (T2425) or   (T2455 and T248X)	Changes the Input mode to Line mode.
  (T2425) or   (T2455 and T248X)	Changes the Input mode to Character mode.

Note: Bar codes are not supported for these functions.



Troubleshooting

This chapter lists the problems you may have while using terminal emulation and gives some possible solutions. For help with problems outside of terminal emulation, see your TRAKKER Antares user's manual.

Problems Using Terminal Emulation Applications

There are two types of error messages that you may see while running the 3270, 5250, or VT/ANSI TE application on the terminal:



- Recoverable error
- Non-recoverable error

Recoverable errors display in the status line on the bottom line of the terminal screen. If the status line option is not currently selected, the status line will appear if there is a recoverable error. A non-recoverable error appears directly on your screen and your TE session ends. You must follow the instructions on the terminal screen to continue with your session.











If the DCS 300, Model 200 Controller, or host detects an error and ends the session, you will see a DCS 300 or controller or host error message on the terminal screen. Record this error message and pass it on to your network administrator or contact your local Intermec service representative.

The 3270, 5250, and VT/ANSI TE applications have an error handling routine that detects local editing errors and command handling errors. If you have a problem while running your TE application, check these possible problems.

Note: Many of the error messages in the next table only apply when running the 5250 TE application.

Error Message or Problem	Solution
Attn Not Processed (5250 error)	The host computer was unable to process your Attention request. Press   to reset the terminal and try again later.
Digit Only (5250 error)	You have entered an invalid character in a digit only (numeric) field. Reenter a valid character for this type of field.
DUP Field Required (5250 error)	You have pressed a DUP key in a field that does not have the DUP bit enabled. Enter a valid command for this type of field.
Field minus invalid (5250 error)	You have pressed the Field- key in a non-numeric field. Use the Field Exit or Field+ key.
Field not in Field Format Table (5250 error)	The cursor is not positioned correctly in a data input field. Position the cursor correctly and try again.

Problems Using Terminal Emulation Applications (continued)

Error Message or Problem	Solution
FM Field Required (5250 error)	You have pressed a Field Mark key in a field that does not have the DUP bit enabled. Enter a valid command for this type of field.
Function not implemented (5250 error)	You have pressed an unsupported function key or entered an invalid key sequence. Try the function again using the correct key sequence.
Help Not Processed (5250 error)	The host computer was unable to process your Help request. Press   to reset the terminal and try again.
Invalid control sequence	You have pressed an unsupported function key or entered an invalid key sequence. Reenter a valid key sequence.
Mandatory field! (5250 error)	You have attempted to bypass a mandatory data entry field using a Field+, Field-, or Field Exit key. Enter data in the field.
Monocase Only (5250 error)	You have entered an invalid character in a monocase only field. Reenter a valid character for this type of field.
No more room for insert	You have entered more characters than allowed in a field. Press   to reset the terminal. Enter your data again using fewer characters.
Numeric Only	You have entered an invalid character in a numeric only field. Reenter a valid character for this type of field.
Parameter error. (5250 error)	The command received from the host computer contained an invalid parameter. Try to establish a host connection later by selecting Exit Config from the TE Configuration menu.
Protected Field	You are attempting to enter data in a protected region of the screen. Press   to reset the terminal.
Roll Down Not Processed (5250 error)	The host computer was unable to process your Roll Down request. Press   to reset the terminal and try again.
Roll Up Not Processed (5250 error)	The host computer was unable to process your Roll Up request. Press   to reset the terminal and try again.
Session ended.	This message indicates a fatal error. Record the DCS 300 or controller primary and secondary return codes and contact your network administrator. Wait a few minutes and try to connect again by selecting Exit Config from the TE Configuration menu.

Problems Using Terminal Emulation Applications (continued)



Error Message or Problem

Solution

Signed Numeric Only
(5250 error)

You have entered an invalid character in a signed numeric field. Reenter a valid character for this type of field.

SysRq Not Processed
(5250 error)

The host computer was unable to process your System Request. Press   to reset the terminal and try again.

You press a 3270 or 5250 command on the keyboard or keypad or scan in a command and the TE application does not respond.

The key mapping file does not match the TE application. From the list in Appendix A, find the correct key mapping file and download it from the DCS 300 or Model 200 Controller or from the directory where you installed the firmware upgrade. For example, if you are running the 3270 TE application, you need to download the POLX3270.MAP key mapping file. The key mapping file must be stored on drive C.

In a TCP/IP network, you turn on the terminal after it was suspended for awhile and the host has deactivated or lost your current terminal emulation session.

You need to turn off the “Keep Alive” message from the host so that the terminal emulation session is maintained while a terminal is suspended.

Problems Connecting to a Host

This section explains how to respond to error messages indicating that the terminal is not communicating with the DCS 300, the Model 200 Controller, or the host. You will need to know detailed information about your network, such as the IP addresses your network uses.

Error Message or Problem

Unable to connect to controller.

Waiting for connection to controller ...

Unable to establish connection to host.

Restarting Terminal Emulation. Please Wait.

Solution

Make sure the terminal is correctly configured for your network. You must set the network parameters, such as Network Activate and the network IP addresses, before the terminal can communicate with the host. For help, see your TRAKKER Antares user's manual.

If the terminal and network parameters are set correctly, the terminal is running a TE application that is not compatible with your network protocol (TCP/IP or UDP Plus). To fix the problem, you need to download the TE application that matches the terminal's protocol.

Use the TRAKKER Antares 2400 Menu System to determine the network protocol and TE application loaded on your terminal. In File Manager, check the type of TE application by using the list of "Terminal Emulation Files" in Appendix A. To determine the network protocol loaded on the terminal, use the Primary Network option on the Configuration Menu. You have UDP Plus if the Primary Network screen shows Controller IP Address. Otherwise, the terminal is using the TCP/IP network protocol.

For example, you have a terminal loaded with the TCP/IP network protocol and the TE application on drive C is PLX3270.BIN. You need to download the TCP3270.BIN file to the terminal and delete the UDP Plus TE application, PLX3270.BIN.

You can download the TE applications from your DCS 300 or Model 200 Controller or from the directory where you installed the firmware upgrade.



To download and run a new TE application

1. Connect the terminal to your PC, DCS 300, or Model 200 Controller.
2. Download the application to drive C.
3. Press **[F]** **[C]** **[T]** **[2]** **[M]** to access the TRAKKER Antares 2400 Menu System.
4. Choose System Menu and then choose File Manager.
5. Select drive C.
6. Delete the incompatible TE application by highlighting the application and pressing **[F]** **[.]**.
7. Highlight the TE application you downloaded and then press **[↵]**. The terminal boots, resets all firmware, and runs the new TE application.



Problems Accessing the TE Configuration Menu

This section explains how to get to the TE Configuration menu and how to configure your terminal to recognize keypad or keyboard commands specific to terminal emulation.

Error Message or Problem

You press   to access the TE Configuration menu and nothing happens.

Solution

To access the TE Configuration menu, you must be in a TE session or at the TE welcome screen. To get to the TE welcome screen when you are not in a TE session, scan Reset Firmware and press   when the TE welcome screen appears.

Reset Firmware



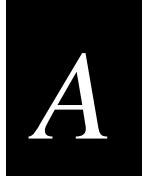
_.

If you still cannot access the TE Configuration menu, you need to configure the Keypad Type configuration command to match the TE keyboard or keypad overlay.

Important: After you change the keyboard or keypad type, you must save the configuration in flash memory and boot the terminal for the change to take effect.

To configure keypad or keyboard type for TE

1. Access the TRAKKER Antares 2400 Menu System.
2. Choose Configuration Menu.
3. Choose Terminal Menu.
4. Choose Keypad.
5. Under Keyboard Type, press ◀ or ▶ to display Terminal Emulation.
6. Choose OK.
7. Save the configuration change in flash memory and exit the menu system.
8. Scan the Reset Firmware bar code label to boot the terminal and use the TE keyboard or keypad type.



Commands, Files, and Auto-Login Script Files



This appendix provides a summary of TE commands for TE applications that run on the terminal. It also lists JANUS-compatible viewport commands, lists all the TE files, and provides sample auto-login script files.

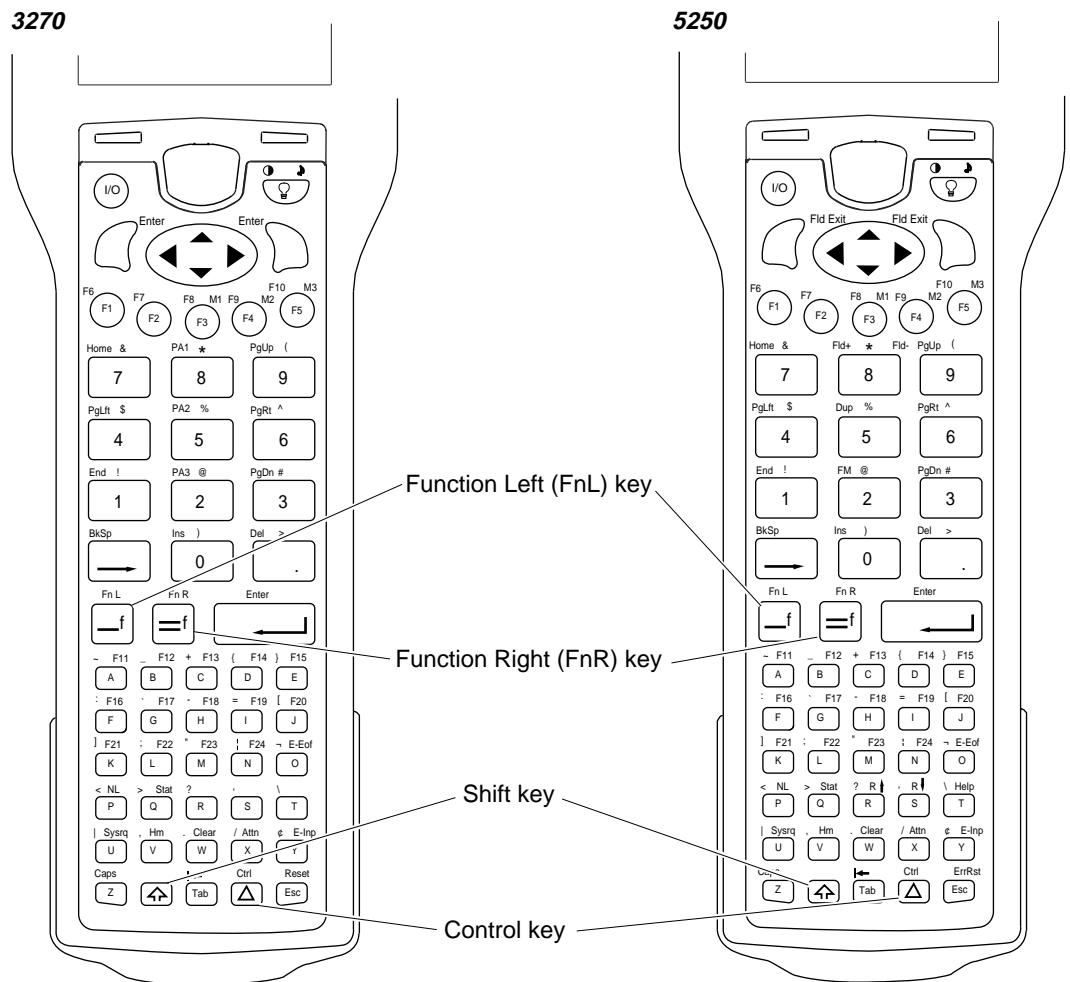
3270 and 5250 TE Command Summary

The charts in this section list the key sequences and the bar code labels you can scan to perform 3270 and 5250 TE functions on your TRAKKER Antares terminal.

3270 and 5250 TE Keyboard or Keypad

Use these keyboards or keypads to enter terminal emulation functions for TRAKKER Antares terminals running 3270 or 5250 terminal emulation.

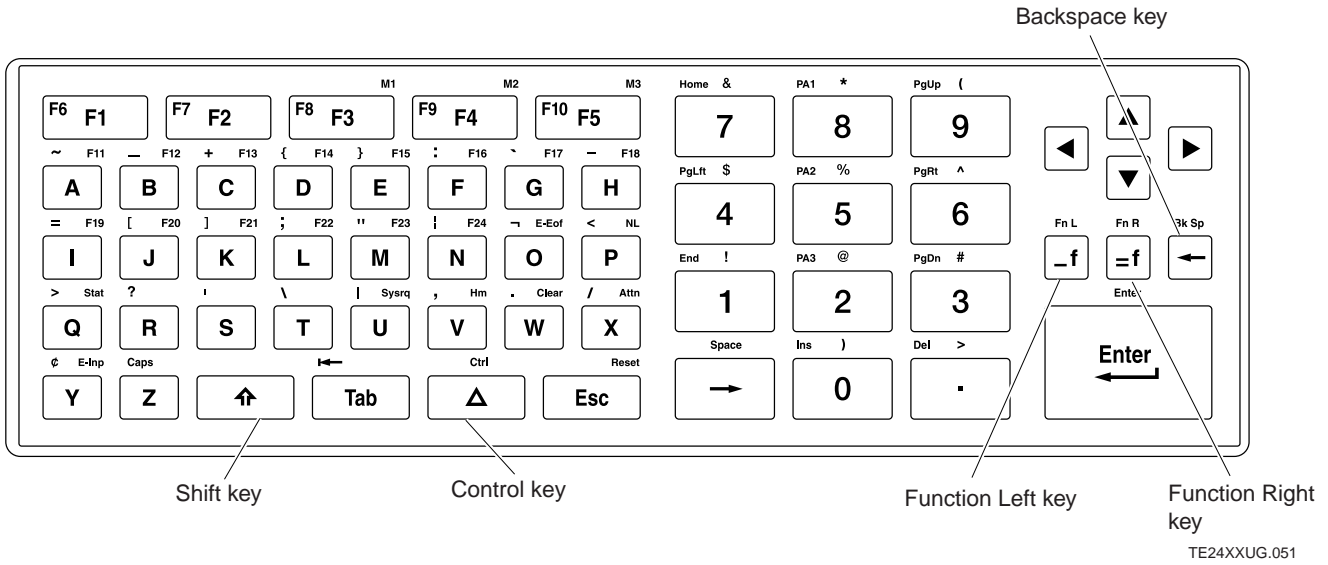
T2425 3270 and 5250 Keypads



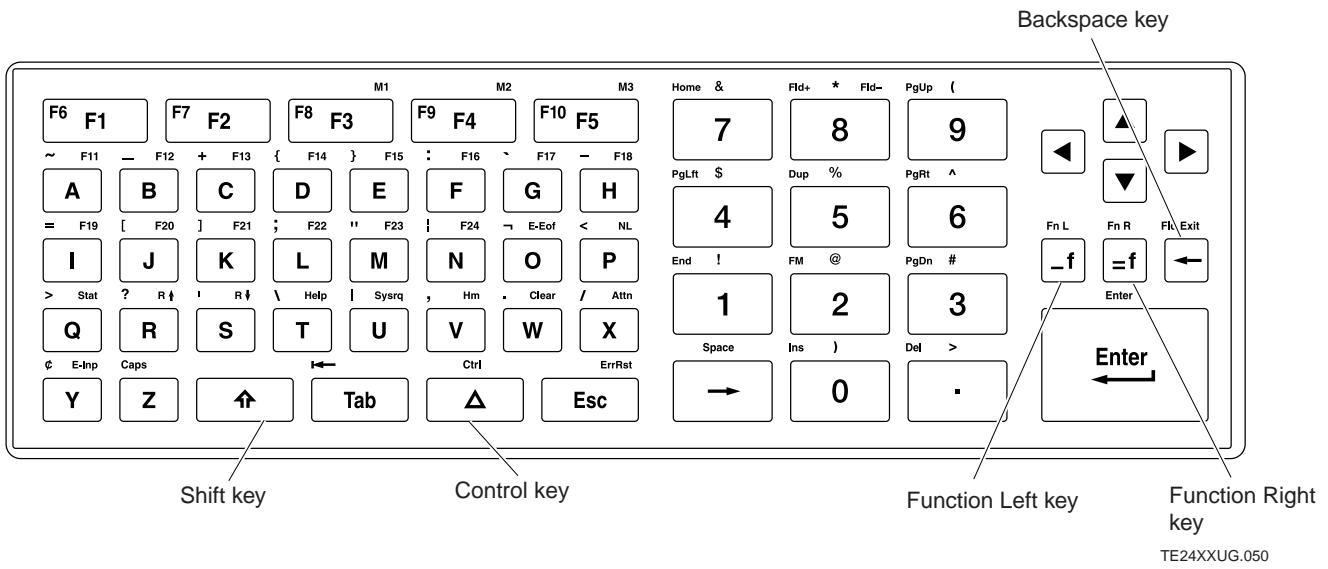
TE24XXUG.002

TRAKKER Antares Terminal Emulation User's Guide

T2455 3270 Keyboard



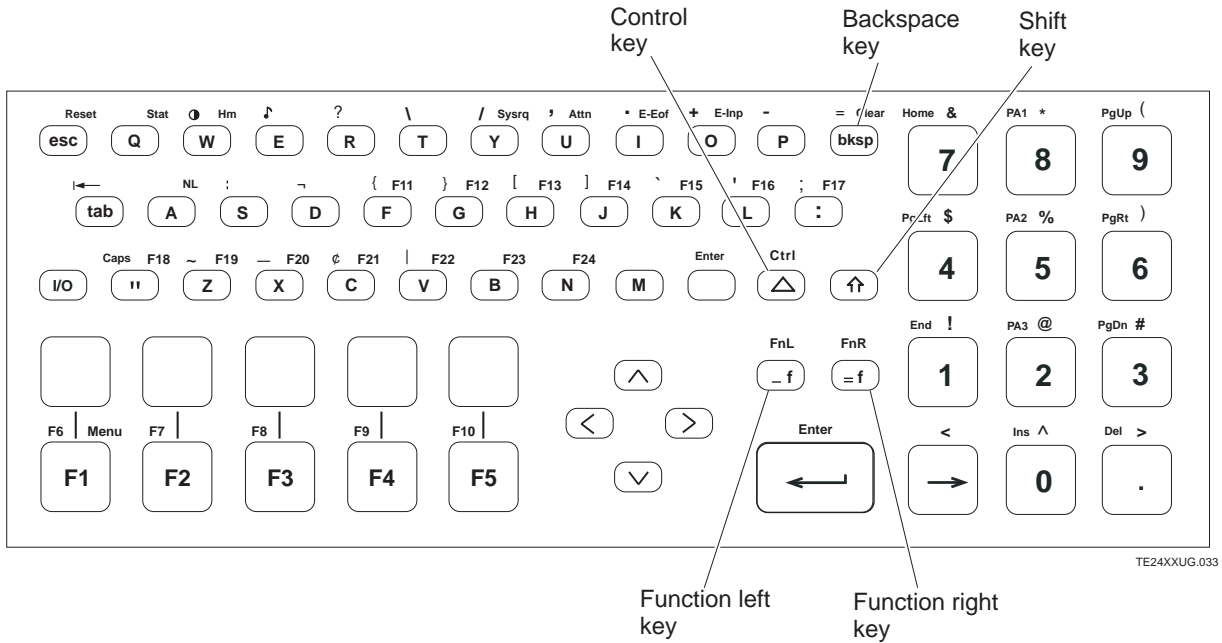
T2455 5250 Keyboard



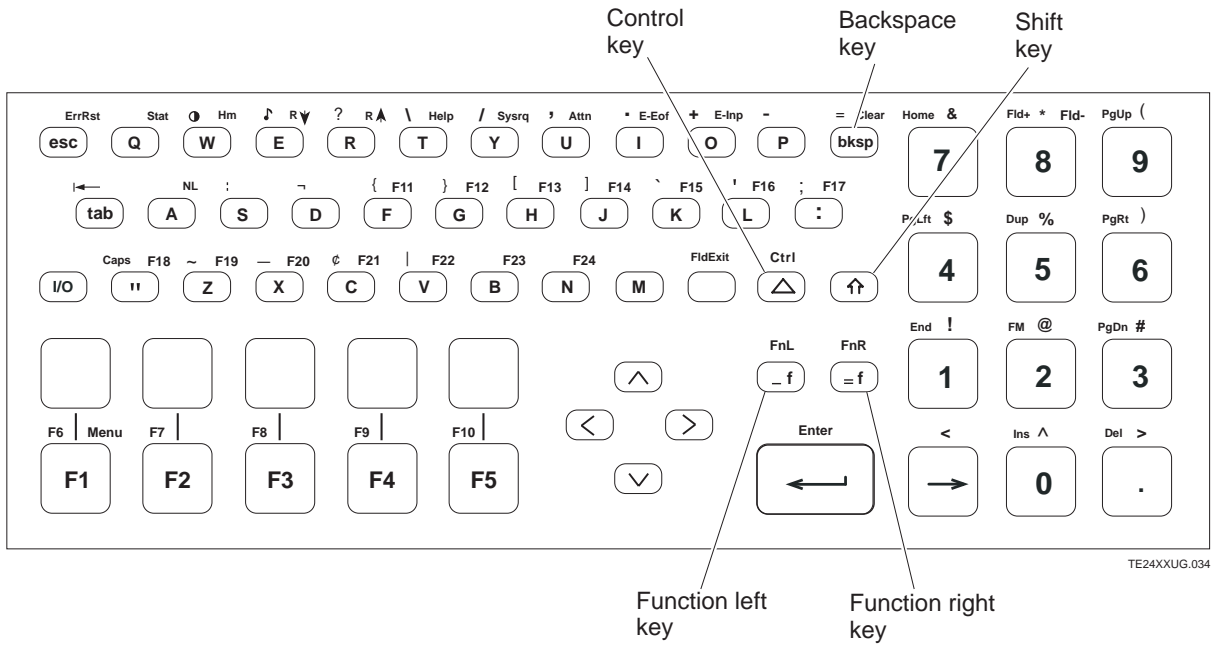


Commands, Files, and Auto-Login Script Files

T248X 3270 Keypad



T248X 5250 Keypad



3270 and 5250 TE Command Summary

This chart lists the key sequence and bar code labels for all 3270 and 5250 terminal emulation commands in alphabetical order. To scan these bar code labels, you must configure the terminal to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual.






































To Enter	Press the Key(s)		Or Scan This Bar Code
	T2425/T2455	T248X	
Attention			 *%ATTN*
Auto-Login Restart	or		 *%ALRS*
Backtab			 *%BTAB*
Clear			 *%CLR*
Cursor Home			 *%Hm*
Delete			 *%DEL*
End (viewport)			 *%END*
Enter (3270 Only)	or	or Enter	 *%CR*
Enter (5250 Only)			 *%CR*
Erase to End of Field			 *%EOF*
Erase Field			 *%FERS*



3270 and 5250 TE Command Summary (continued)














To Enter	Press the Key(s)		Or Scan This Bar Code
	T2425/T2455	T248X	
Erase Input	Y	O	 *%EINP*
Erase Last Word			 *%WERS*
Error Reset (5250 Only)	Esc	esc	 *%ERR*
Fast Cursor Left	4	4	 *%FCLT*
Fast Cursor Right	6	6	 *%FCRT*
Field+ (5250 Only)	8	8	 *%FLD+*
Field- (5250 Only)	8	8	 *%FLD-*
Field Exit (5250 Only)	⌘ or ⌞ or FldExit	FldExit	 *%FLDX*
Help (5250 Only)	T	T	 *%HELP*
Home (viewport)	7	7	 *%HOME*
Insert	0	0	 *%INS*
New Line	P	A	 *%NL*

3270 and 5250 TE Command Summary (continued)

To Enter	Press the Key(s) T2425/T2455	T248X	Or Scan This Bar Code
Page Down (viewport)	 	 	 *%PGDN*
Page Left (viewport)	 	 	 *%PGLT*
Page Right (viewport)	 	 	 *%PGRT*
Page Up (viewport)	 	 	 *%PGUP*
Reset (3270 Only)	 	 	 *%RST*
Reshow	 	 	Not supported.
Roll Down (5250 Only)	 	 	 *%RODN*
Roll Up (5250 Only)	 	 	 *%ROUP*
Status	 	 	 *%STAT*
System Request	 	 	 *%SYSR*
Tab			 *%TAB*
TE Configuration Menu	  or  	 	Not supported.













3270 and 5250 TE Command Summary (continued)











To Enter	Press the Key(s)		Or Scan This Bar Code
	T2425/T2455	T248X	
Viewport Down 1 Line	 ▼	 	 *%DN*
Viewport Left 1 Character	 ◀	 ◀	 *%LF*
Viewport Right 1 Character	 ▶	 ▶	 *%RT*
Viewport Up 1 Line	 ▲	 ▲	 *%UP*

3270 and 5250 Additional Functions
















These charts list the key sequences and bar code labels for additional 3270 and 5250 terminal emulation functions.

To Enter	Press the Keys		Or Scan This Bar Code
	T2425/T2455	T248X	
¬ (Not symbol)	 	 	 *%NOT*
¢ (cent sign)	 	 	 *%CENT*

5250 Only Additional Functions

To Enter	Press the Keys		Or Scan This Bar Code
	T2425/T2455	T248X	
Duplicate	 	 	 *%DUP*
Field Mark	 	 	 *%FM*

3270 Only Additional Functions

To Enter	Press the Keys		Or Scan This Bar Code
	T2425/T2455	T248X	
Program Attention Key PA1	 	 	 *%PA1*
Program Attention Key PA2	 	 	 *%PA2*
Program Attention Key PA3	 	 	 *%PA3*



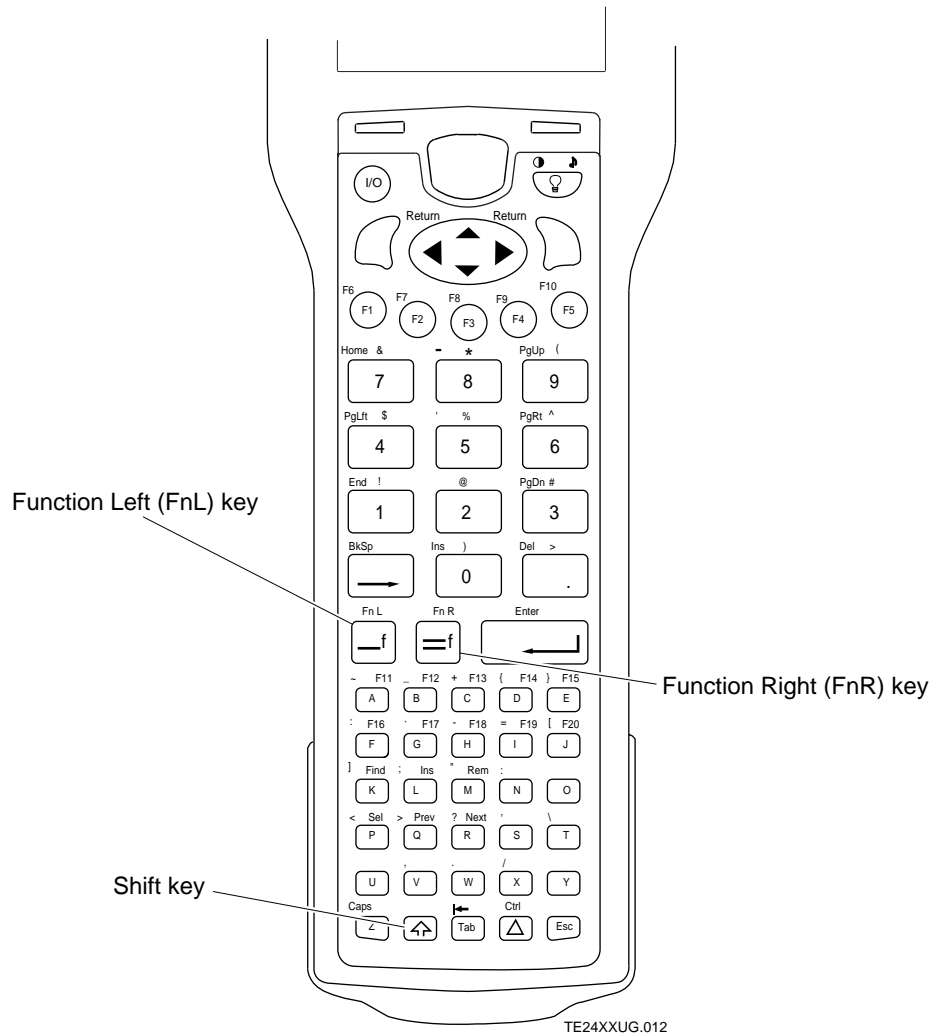
VT100/220/320 and ANSI TE Command Summary

These charts list the key sequences and the bar code labels you can scan to perform VT or ANSI TE functions on the TRAKKER Antares terminal.

VT/ANSI TE Keyboard or Keypad

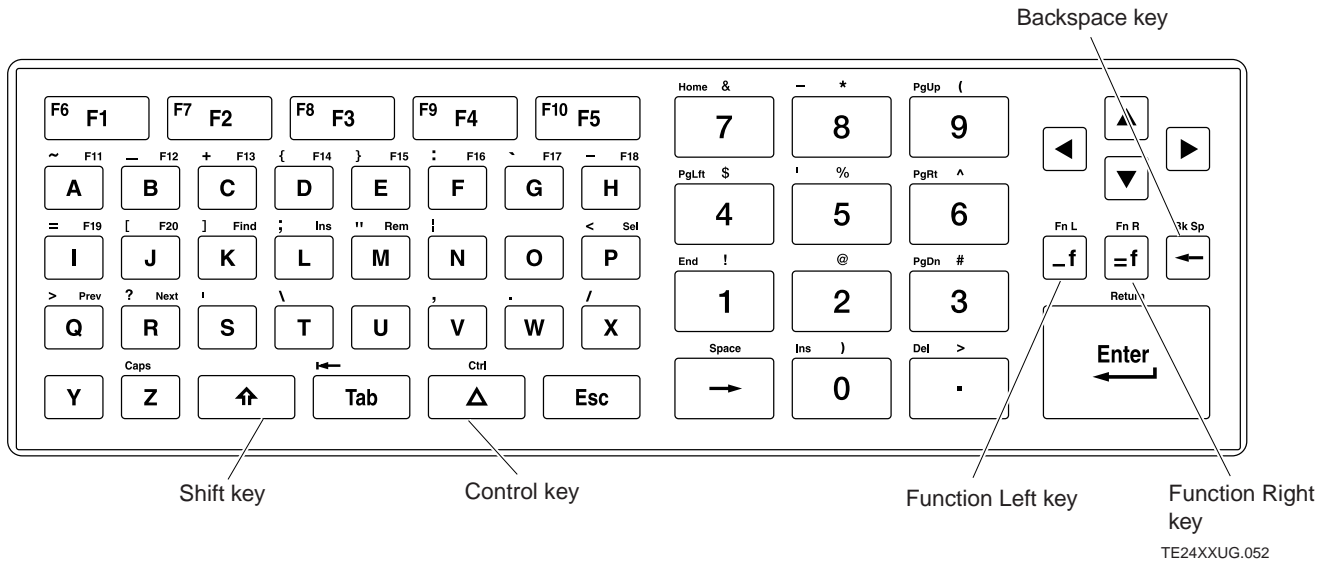
Use this keyboard or keypad to enter terminal emulation functions for terminals running VT/ANSI terminal emulation.

T2425 VT/ANSI Keypad



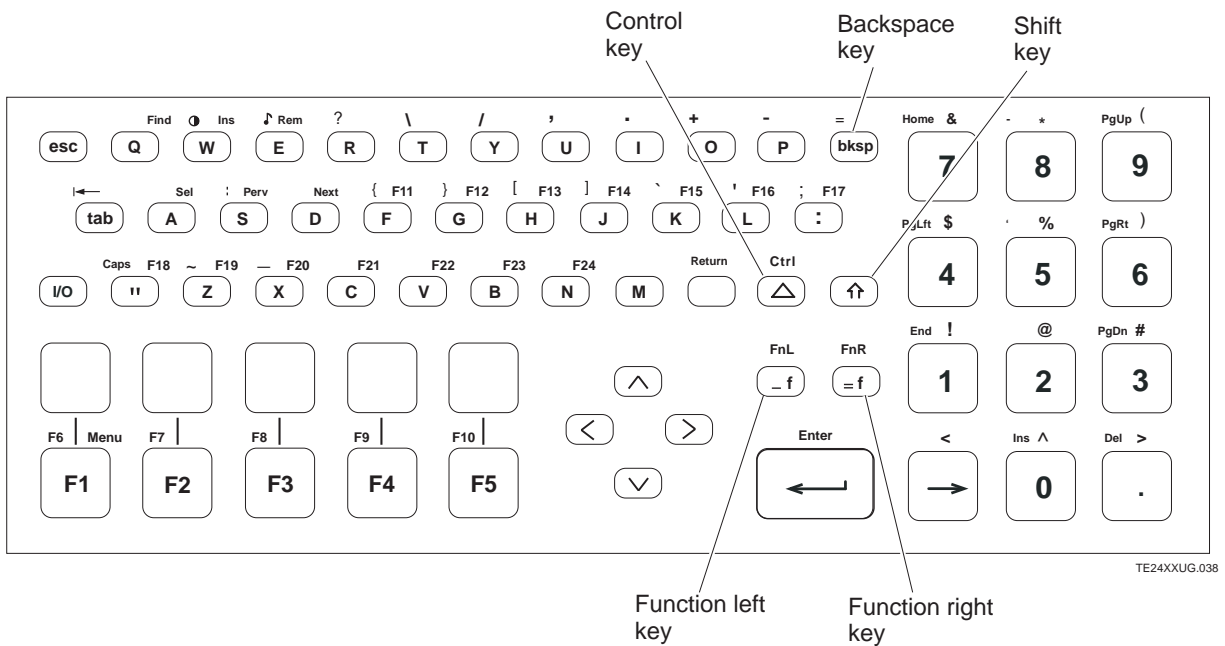
TRAKKER Antares Terminal Emulation User's Guide

T2455 VT/ANSI Keyboard



T248X VT/ANSI Keypad

Note: VT/ANSI supports function keys F1 through F20 only. F21 through F24 do not perform any function even though they are displayed on the keypad.

























VT/ANSI TE Command Summary

This chart lists the key sequences and bar code labels for all VT/ANSI terminal emulation commands in alphabetical order. To scan these bar code labels, you must configure the terminal to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual.
































To Enter	Press the Keys T2425/T2455	T248X	Or Scan This Bar Code
Auto-Login Restart	or		 *%ALRS*
Backspace	or		 *%BKSP*
End (viewport)			 *%END*
Find (VT220/320 Only)			 *%FIND*
Home (viewport)			 *%HOME*
Insert (VT220/320 Only)	or	or	 *%INS*
Next Screen (VT220/320 Only)			 *%NEXT*
Page Down (viewport)			 *%PGDN*
Page Left (viewport)			 *%PGLT*
Page Right (viewport)			 *%PGRT*

VT and ANSI TE Command Summary (continued)

To Enter	Press the Keys		Or Scan This Bar Code
	T2425/T2455	T248X	
Page Up (viewport)	 	 	 *%PGUP*
Previous Screen (VT220/320 Only)	 	 	 *%PREV*
Remove (VT220/320 Only)	 	 	 *%REM*
Select (VT220/320 Only)	 	 	 *%SEL*

VT/ANSI Additional Functions

This chart lists the key sequences and bar code labels for additional VT/ANSI terminal emulation functions in alphabetical order.

To Enter	Press the Keys		Or Scan This Bar Code
	T2425/T2455	T248X	
Answerback field transmitted	 	 	Not supported.
Character mode enabled	  or  	 	Not supported.
Line mode enabled	  or  	 	Not supported.
TE Configuration Menu	  or  	 	Not supported.
Toggles Application mode and Numeric Keypad mode	 	 	Not supported.
Viewport Down 1 Line	 	 	 *%DN*



VT/ANSI Additional Functions (continued)

To Enter	Press the Keys T2425/T2455	T248X	Or Scan This Bar Code
Viewport Left 1 Character			 *%LF*
Viewport Right 1 Character			 *%RT*
Viewport Up 1 Line			 *%UP*





Program Function Keys

These charts list the key sequences and the bar code labels you can scan to execute function keys for 3270, 5250, and VT/ANSI TE on the TRAKKER Antares terminal.

Note: VT220/320 terminals only support function keys F1 through F20. VT100 and ANSI terminals only support function keys F1 through F4.

To Enter	Press the Key(s) T2425/T2455	T248X	Or Scan This Bar Code
F1	or		 *%F1*
F2	or		 *%F2*
F3	or		 *%F3*
F4	or		 *%F4*
F5	or		 *%F5*

Program Function Keys (continued)

To Enter	Press the Key(s) T2425/T2455	T248X	Or Scan This Bar Code
F6	  or  	 	 *%F6*
F7	  or  	 	 *%F7*
F8	  or  	 	 *%F8*
F9	  or  	 	 *%F9*
F10	  or  	 	 *%F10*
F11	 	 	 *%F11*
F12	 	 	 *%F12*
F13	 	 	 *%F13*
F14	 	 	 *%F14*
F15	 	 	 *%F15*
F16	 	 	 *%F16*
F17	 	 	 *%F17*



Program Function Keys (continued)

To Enter	Press the Key(s)		Or Scan This Bar Code
	T2425/T2455	T248X	
F18	 H	 "	 *%F18*
F19	 I	 Z	 *%F19*
F20	 J	 X	 *%F20*
F21	 K	 C	 *%F21*
F22	 L	 V	 *%F22*
F23	 M	 B	 *%F23*
F24	 N	 N	 *%F24*

Viewport Commands Compatible With JANUS Devices

If you have a data collection network with both TRAKKER Antares terminals and JANUS devices that are using TE applications earlier than version 4.1, there is a set of viewport commands that you can use to move the viewport on either device. The TRAKKER Antares viewport commands listed throughout this manual are different from the JANUS viewport commands for older versions of the TE applications.



















To use the bar code labels in the next table, you must configure both the TRAKKER Antares terminal and the JANUS device to use Code 39 in Full ASCII mode. For help, see your TRAKKER Antares user's manual, or refer to your JANUS user's manual.

Use the bar codes listed in the last column of the next table to move the viewport on either a TRAKKER Antares terminal or a JANUS device.

TRAKKER Antares Terminal Emulation User's Guide

Note: If you configure the TRAKKER Antares terminal for Code 39 non-full ASCII, you can also scan the bar code labels for the viewport reader commands that are listed in the JANUS user's manual.

Viewport Commands Compatible With JANUS Devices

Viewport Command	TRAKKER Antares Only	TRAKKER Antares and JANUS
End	 *%END*	 *..%.*
Home	 *%HOME*	 *..%/*
Page Down	 *%PGDN*	 *..%-*
Page Up	 *%PGUP*	 *..%+*
Page Left	 *%PGLT	A Page Left reader command is not available for JANUS devices.
Page Right	 *%PGRT*	A Page Right reader command is not available for JANUS devices.
Viewport Down 1 Line	 *%DN*	 *%+*
Viewport Left 1 Column	 *%LF*	 *%-*
Viewport Right 1 Column	 *%RT*	 *_**
Viewport Up 1 Line	 *%UP*	 *%/*



Terminal Emulation Files

The following table lists and describes all of the terminal emulation files.

Environment	File Name	Description
3270	PLX3270.BIN	3270 TE application executable file for UDP Plus network. Requires DCS 300 or Model 200 Controller v3.X and above.
	TCP3270.BIN	3270 TE application executable file for TCP/IP direct connect network. Requires TRAKKER Antares firmware version 2.20 and above.
	TE3270.CFG	Configuration file for 3270 terminals. Terminal emulation configuration information is saved to this file.
	POLX3270.MAP	Key mapping file for TRAKKER Antares 3270 terminal emulation. Read only file.
5250	PLX5250.BIN	5250 TE application executable file for UDP Plus network. Requires DCS 300 or Model 200 Controller v3.X and above.
	TCP5250.BIN	5250 TE application executable file for TCP/IP direct connect network. Requires TRAKKER Antares firmware version 2.20 and above.
	TE5250.CFG	Configuration file for 5250 terminals. Terminal emulation configuration information is saved to this file.
	POLX5250.MAP	Key mapping file for TRAKKER Antares 5250 terminal emulation. Read only file.
VT/ANSI	VTXXX_D.BIN	VT/ANSI TE application executable file for UDP Plus network. Requires DCS 300 or Model 200 Controller v3.X and above.
	VTTCP_D.BIN	VT/ANSI TE application executable file for TCP/IP direct connect network. Requires TRAKKER Antares firmware version 2.20 and above.
	TEANT.CFG	Configuration file for VT/ANSI terminals.

Terminal Emulation Files (continued)

Environment	File Name	Description
Common Files	TE.SEC	Terminal emulation security file. You must have TE.SEC to access the TE Configuration menu.
	AUTOLOG.SCR	Optional file. This is a script file containing auto-login script information. This file must be present to use the auto-login feature.
	DISPTBLS.MAP	Optional file. This is a file containing terminal emulation mapping information, which allows you to display international characters when you run the terminal emulation program.

Sample Auto-Login Script Files

In this section, there are four example auto-login script files. You can use these script files as they are or use them as the starting point for creating your own auto-login script files. For help, see “Using the Auto-Login Feature” in Chapter 3.

Example 1: Auto-Login With All Terminals Using the Same Account

```
HostName "*"                # Use this to log into any host
WaitFor "login:"           # Wait for the login prompt
Send "user_name<CR>"      # Send the user name
WaitFor "Password:"       # Wait for the password prompt
Send "users_password<CR>" # Send the users password
```

In Example 1, the HostName command in this script file will match the host the user will access. The “#” starts a comment that continues to the end of the line. The WaitFor command waits for a string to be displayed by the host. The WaitFor command will take up to 10 strings, 20 characters long. The strings must be enclosed in quotes and separated by a comma. The Send command in the example script file sends a fixed user name and password. The angle brackets can enclose uppercase mnemonics or hex values. The next WaitFor/Send pair works the same as the first pair.

Example 2: Auto-Login With Different User Names and Passwords

```
Input "Enter user name", username # prompt for user name
InputHidden "Enter Password", password # prompt for password
HostName "*"
WaitFor "login:" # Wait for the login prompt
Send username # Send the user name
Send "<CR>" # Send a carriage return
WaitFor "Password:" # Wait for the password prompt
Send password # Send the users password
Send "<CR>" # Send a carriage return
```

In Example 2, the Input and Send commands use input variables. Input commands require a prompt string followed by a comma and a variable name to store the string in. The InputHidden command will display "*" in place of any characters typed by the user. All input commands must be before the first HostName command. The Send command only accepts a single argument; so two sends are required to send the user name and a carriage return.

Example 3: Auto-Login to an Application

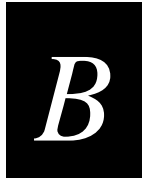
```
Input "Enter user name", username # prompt for user name
InputHidden "Enter Password", password # prompt for password
HostName "*"
WaitFor "login:" # Wait for the login prompt
Send username # Send the user name
Send "<CR>" # Send a carriage return
WaitFor "Password:" # Wait for the password prompt
Send password # Send the users password
Send "<CR>" # Send a carriage return
WaitFor "Main Menu" # Wait for the main menu
Send "3"
Send "<CR>" # Pick option 3 from the menu
WaitFor "Wip Menu" # Wait for the work in process menu
Send "1"
Send "<CR>" # Pick option 1 from the menu
```

Example 3 is a modification to the script file in Example 2. The additional modification allows the user to move automatically to an application after logging in.

Example 4: Auto-Login With Variable Processing

```
Input "Enter user name", username # prompt for user name
InputHidden "Enter Password", password # prompt for password
HostName "BigHost" # Use this portion of the script for BigHost
WaitFor "User:"          # Wait for the user prompt
Send username           # Send the user name
Send "<CR>"              # Send a carriage return
WaitFor "Password:"     # Wait for the password prompt
Send password           # Send the users password
Send "<CR>"              # Send a carriage return
HostName "*"             # Match any other host name
WaitFor "login:"        # Wait for the login prompt
Send username           # Send the user name
Send "<CR>"              # Send a carriage return
WaitFor "Password:"     # Wait for the password prompt
Send password           # Send the users password
Send "<CR>"              # Send a carriage return
WaitFor "Main Menu"    # Wait for the main menu
Send "3"
Send "<CR>"              # Pick option 3 from the menu
WaitFor "Wip Menu"     # Wait for the work in process menu
Send "1"
Send "<CR>"              # Pick option 1 from the menu
```

In Example 4, a section for the host name BigHost is added to the beginning of the script file. If the user logs into any host other than BigHost, the script file will start at the HostName "*" line. This allows for different processing on each host.



VT100/220/320 and ANSI Keyboard Remapping

This appendix provides information about VT100/220/320 and ANSI key support and instructions for remapping keys on your TRAKKER Antares terminal. It also lists the TEANT.CFG file.

Understanding VT/ANSI Key Support

The tables in this section show how the numeric and special keys on VT keyboards map to the TRAKKER Antares terminal keys when you set the Keypad mode in the Terminal screen. For help configuring Keypad mode, see “Configuring VT/ANSI Terminal Emulation Parameters” in Chapter 3.

VT100 Terminals

This table shows what code is transmitted to the host when you press the numeric or special keys on a VT100 numeric keypad and a TRAKKER Antares keyboard or keypad. The transmitted code depends on if the Keypad mode is set to Numeric or Application mode.

Note: The key sequences listed in the next table are for all TRAKKER Antares terminals unless otherwise specified.

VT100 Numeric Keypad Key	TRAKKER Antares Key (Numeric Keypad Mode On)	Numeric Mode Transmitted Code	Application Mode Transmitted Code
0		0	Esc O p
1		1	Esc O q
2		2	Esc O r
3		3	Esc O s
4		4	Esc O t
5		5	Esc O u
6		6	Esc O v
7		7	Esc O w
8		8	Esc O x
9		9	Esc O y
- (minus)	(T2425, T2455) (T248X)	- (minus)	Esc O m
, (comma)	(T2425, T2455) (T248X)	, (comma)	Esc O l
. (period)	(T2425, T2455) (T248X)	. (period)	Esc O n

VT100 Numeric Keypad Codes (continued)

VT100 Numeric Keypad Key	TRAKKER Antares Key (Numeric Keypad Mode On)	Numeric Mode Transmitted Code	Application Mode Transmitted Code
PF1	(T2425) (T2455, T248X)	Esc O P	Esc O P
PF2	(T2425) (T2455, T248X)	Esc O Q	Esc O Q
PF3	(T2425) (T2455, T248X)	Esc O R	Esc O R
PF4	(T2425) (T2455, T248X)	Esc O S	Esc O S
Enter	or (T2425 only)	CR or CR LF	CR or CR LF
Enter		CR or CR LF	Esc O M

VT220/320 Terminals

This table shows what code is transmitted to the host when you press the keys on a VT220/320 keypad and a TRAKKER Antares keyboard or keypad.

Note: The key sequences listed in the next table are for all TRAKKER Antares terminals unless otherwise specified.

VT220/320 Key	TRAKKER Antares Key	VT220/320 Transmitted Code
Find	(Home)	CSI 1 ~
Insert Here	(Insert)	CSI 2 ~
Remove	(Delete)	CSI 3 ~
Select	(End)	CSI 4 ~
Previous Screen	(Page Up)	CSI 5 ~
Next Screen	(Page Down)	CSI 6 ~
F1 (Hold Screen)	None	None (Local function keys)
F2 (Print Screen)	None	None (Local function keys)
F3 (Set Up)	None	None (Local function keys)
F4	None	None (Local function keys)
F5 (Break)	None	None (Local function keys)
F6	(T2425) (F6) (T2455, T248X)	CSI 1 7 ~
F7	(T2425) (F7) (T2455, T248X)	CSI 1 8 ~



VT220/320 Keypad Codes (continued)

VT220/320 Key	TRAKKER Antares Key	VT220/320 Transmitted Code
F8	(T2425) (F8) (T2455, T248X)	CSI 1 9 ~
F9	(T2425) (F9) (T2455, T248X)	CSI 2 0 ~
F10	(T2425) (F10) (T2455, T248X)	CSI 2 1 ~
F11 (Esc in VT100 mode)	(T2425, T2455) (F11) (T248X)	CSI 2 3 ~
F12 (BS in VT100 mode)	(T2425, T2455) (F12) (T248X)	CSI 2 4 ~
F13 (LF in VT100 mode)	(T2425, T2455) (F13) (T248X)	CSI 2 5 ~
F14	(T2425, T2455) (F14) (T248X)	CSI 2 6 ~
F15 (Do)	(T2425, T2455) (F15) (T248X)	CSI 2 8 ~
F16 (Help)	(T2425, T2455) (F16) (T248X)	CSI 2 9 ~
F17	(T2425, T2455) (F17) (T248X)	CSI 3 1 ~
F18	(T2425, T2455) (F18) (T248X)	CSI 3 2 ~
F19	(T2425, T2455) (F19) (T248X)	CSI 3 3 ~
F20	(T2425, T2455) (F20) (T248X)	CSI 3 4 ~

TRAKKER Antares Terminal Emulation User's Guide

This table shows what code is transmitted to the host when you press the numeric or special keys on a VT220/320 numeric keypad and a TRAKKER Antares keyboard or keypad. The transmitted code depends on if the Keypad mode is set to Numeric or Application mode.

Note: The key sequences listed in the next table are for all TRAKKER Antares terminals unless otherwise specified.






VT220/320 Numeric Keypad Key	TRAKKER Antares Key (Numeric Keypad Mode On)	Numeric Mode Transmitted Code	Application Mode Transmitted Code
0		0	SS3 p
1		1	SS3 q
2		2	SS3 r
3		3	SS3 s
4		4	SS3 t
5		5	SS3 u
6		6	SS3 v
7		7	SS3 w
8		8	SS3 x
9		9	SS3 y
- (minus)	(T2425, T2455) (T248X)	- (minus)	SS3 m
, (comma)	(T2425, T2455) (T248X)	, (comma)	SS3 l
. (period)	(T2425, T2455) (T248X)	. (period)	SS3 n
PF1	(T2425) (T2455, T248X)	SS3 P	SS3 P
PF2	(T2425) (T2455, T248X)	SS3 Q	SS3 Q
PF3	(T2425) (T2455, T248X)	SS3 R	SS3 R
PF4	(T2425) (T2455, T248X)	SS3 S	SS3 S
Enter	or (T2425 only)	CR or CR LF	CR or CR LF
Enter		CR or CR LF	Esc O M





Remapping the TRAKKER Antares Keys

You may need to remap the TRAKKER Antares keys if your users need to press a key in VT/ANSI TE that is not on a standard 101-key keyboard. You can also remap a terminal key to transmit a text string or message to the host computer.






To remap the terminal keys, you modify the TEANT.CFG file and add a Remap command to remap a terminal key. You can remap a single key or a two-key sequence. You can add a Remap command or create a macro in the TEANT.CFG file that remaps a single key or a two-key sequence.

Note: You can only modify the TEANT.CFG file if you have TRAKKER Antares firmware version 2.20 or later. If you have a firmware version earlier than 2.20, call your Intermec sales representative about modifying your TEANT.CFG file.

You can remap any terminal key or two-key sequence that does not perform a specific function on the terminal. For example, you can remap  because it only types the lowercase letter B. You can also remap   because it does not perform any function on the terminal. You cannot remap the two-key sequence   because it moves the viewport up on the TRAKKER Antares terminals.

Note: You can remap the key sequence   that accesses the TE Configuration menu. If you do remap the menu key sequence, you can still press   at the TRAKKER Antares VT/ANSI Terminal Emulation welcome screen to access the TE Configuration menu.

Each terminal key or two-key sequence generates a 4-digit hexadecimal remap code as listed in the key code tables in this section. The key code tables give the 4-digit hexadecimal codes for ASCII characters, ASCII with Shift, ASCII with Ctrl, ASCII with FnL, and ASCII with FnR for the T2425, the T2455, and the T248X terminals. These codes identify the key or keys pressed. For example:

Key	Action	4-digit Hexadecimal Key Code
	Types a lowercase B	0062
 	Types an uppercase B	0042
 	None	0002

To remap a TRAKKER Antares key or two-key sequence

1. Choose the key or two-key sequence to remap and determine the current 4-digit hexadecimal code of the keys and the code you will enter to remap the keys. For help, see the key code tables in this section.
2. Connect the TRAKKER Antares terminal to your PC.
3. Use FileCopy to upload TEANT.CFG from the terminal's drive C to your PC. For help using FileCopy, use the online Help.

TRAKKER Antares Terminal Emulation User's Guide

T2425 and T2455 VT/ANSI Key Code Table

Note: The remap codes for F6 through F20 are shown in parentheses beside the corresponding remap code.

Key	ASCII	Shift	Ctrl	FnL	FnR
0	0030	0029	0030	4052	4081
1	0031	0021	0031	404F	4078
2	0032	0040	0000	4071	4079
3	0033	0023	0033	4051	407A
4	0034	0024	0034	409B	407B
5	0035	0025	0035	4070	407C
6	0036	005E	001E	409D	407D
7	0037	0026	0037	4047	407E
8	0038	002A	0038	406F	407F
9	0039	0028	0039	407E	4080
A	0061	0041	0001	007E	4085 (F11)
B	0062	0042	0002	005F	4086 (F12)
C	0063	0043	0003	002B	402E (F13)
D	0064	0044	0004	007B	4020 (F14)
E	0065	0045	0005	007D	4012 (F15)
F	0066	0046	0006	003A	4021 (F16)
G	0067	0047	0007	0060	4022 (F17)
H	0068	0048	0008	002D	4023 (F18)
I	0069	0049	0009	003D	4017 (F19)
J	006A	004A	000A	005B	4024 (F20)
K	006B	004B	000B	005D	4025
L	006C	004C	000C	003B	4026
M	006D	004D	000D	0022	4032
N	006E	004E	000E	007C	4031
O	006F	004F	000F	405A	4018

T2425 and T2455 VT/ANSI Key Code Table (continued)

Key	ASCII	Shift	Ctrl	FnL	FnR
P	0070	0050	0010	003C	4019
Q	0071	0051	0011	003E	4010
R	0072	0052	0012	003F	4013
S	0073	0053	0013	0027	401F
T	0074	0054	0014	005C	4014
U	0075	0055	0015	4059	4016
V	0076	0056	0016	002C	402F
W	0077	0057	0017	002E	4011
X	0078	0058	0018	002F	402D
Y	0079	0059	0019	405B	4015
Z	007A	005A	001A		402C
F1	403B	4054	001C	4040 (F6)	4068
F2	403C	4055	001D	4041 (F7)	4069
F3	403D	4056	001E	4042 (F8)	406A
F4	403E	4057	001F	4043 (F9)	406B
F5	403F	4058	4003	4044 (F10)	406C
Backspace (T2455 only)	0008	0008	0008	0008	0008
Enter	000D	000D	000D	40A6	40A6
Esc	001B	001B	001B	406D	4001
Left_Ret	000D	000D	000A	000D	000D
Period	002E	003E	002E	4053	4034
Right_Ret	000D	000D	000A	000D	000D
ScrL_Dn	4050	4050	4091	4061	40A0
ScrL_Left	404B	404B	4073	4062	409B
ScrL_Right	404D	404D	4074	4063	409D
ScrL_Up	4048	4048	408D	4060	4098
Space	0020	0020	0020	0008	0020
Tab	0009	400F	4094	400F	40A5

TRAKKER Antares Terminal Emulation User's Guide

T248X VT/ANSI Key Code Table

Note: The remap codes for F6 through F20 are shown in parentheses beside the corresponding remap code.

Key	ASCII	Shift	Ctrl	FnL	FnR
0	0030	005E	0030	4052	4081
1	0031	0021	0031	404F	4078
2	0032	0040	0000	4071	4079
3	0033	0023	0033	4051	407A
4	0034	0024	0034	409B	407B
5	0035	0025	0035	4070	407C
6	0036	0029	001E	409D	407D
7	0037	0026	0037	4047	407E
8	0038	002A	0038	406F	407F
9	0039	0028	0039	407E	4080
A	0061	0041	0001	007E	4019
B	0062	0042	0002	005F	4032
C	0063	0043	0003	405B	4025
D	0064	0044	0004	005A	4013
E	0065	0045	0005		4032
F	0066	0046	0006	007B	4085 (F11)
G	0067	0047	0007	007D	4086 (F12)
H	0068	0048	0008	005B	402E (F13)
I	0069	0049	0009	002E	402F
J	006A	004A	000A	005D	4020 (F14)
K	006B	004B	000B	0060	4012 (F15)
L	006C	004C	000C	0027	4021 (F16)
M	006D	004D	000D	0022	402C
N	006E	004E	000E	007C	4031
O	006F	004F	000F	002B	4018
P	0070	0050	0010	002D	401C
Q	0071	0051	0011	003E	4025

T248X VT/ANSI Key Code Table (continued)

Key	ASCII	Shift	Ctrl	FnL	FnR
R	0072	0052	0012	003F	401F
S	0073	0053	0013	007C	4010
T	0074	0054	0014	005C	4014
U	0075	0055	0015	002C	4016
V	0076	0056	0016	4059	4026
W	0077	0057	0017		4026
X	0078	0058	0018	005F	4024 (F20)
Y	0079	0059	0019	002F	4015
Z	007A	005A	001A	00F0	4017 (F19)
F1	403B	4054	001C	4040 (F6)	4068
F2	403C	4055	001D	4041 (F7)	4069
F3	403D	4056	001E	4042 (F8)	406A
F4	403E	4057	001F	4043 (F9)	406B
F5	403F	4058	4003	4044 (F10)	406C
Backspace	0008	0008	0008	003D	0008
Enter	000D	000D	000D	40A6	40A6
Esc	001B	001B	001B	406D	4001
Colon	003A	003A	003A	003B	4022 (F17)
Period	002E	003E	002E	4053	4034
Quote	0022	0022	0022		4023 (F18)
Return	000D	000D	000A	000D	000D
Scrl_Dn	4050	4050	4091	4061	40A0
Scrl_Left	404B	404B	4073	4062	409B
Scrl_Right	404D	404D	4074	4063	409D
Scrl_Up	4048	4048	408D	4060	4098
Space	0020	003C	0020	0008	0020
Tab	0009	400F	4094	400F	40A5

TEANT.CFG Configuration File

```
! *****
! ***  TE configuration file  ***
! *****
! Note: Comment lines begin with ':' or '!'.

: -----
: Environment Configuration
: -----
: Note: () indicates any text string.
:
: TermType - VT100, VT220, VT320, ANSI, RDRANSI

TermType=VT320

: TranId - (Transaction ID followed by the system delimiter)
: HostName - (Name of the remote host or leave blank to use DCM host)
:
: Important Note: TranId and HostName have no affect on the TCP/IP
:                 version of Trakker Antares.

TranId=$TEV,
HostName=

: -----
: Antares Configuration
: -----
: Note: () indicates any text string.
:       [] indicates recommended configuration option.
:
: TextSize - [RegularHeight], DoubleHeight

TextSize=RegularHeight

: -----
: Session Configuration
: -----
: Note: [] indicates recommended configuration option.
:
: InputMode - CharMode,[LineMode]
: ViewportMode - [Follow], Center, Manual
: SideBoundary - In Follow mode the viewport moves horizontally
:                when the cursor is the specified number (1 to 10)
:                of characters from the side of the display.
: SideJump - In Follow mode this sets the number (1 to 10) of
:             characters the viewport moves in a horizontal
:             direction.
```

TEANT.CFG Configuration File (continued)

```

: VerticalBoundary - In Follow mode the viewport moves vertically
:                   when the cursor is the specified number (1 to 10)
:                   of lines from the top or bottom of the display.
: VerticalJump     - In Follow mode this sets the number (1 to 10) of
:                   lines the viewport moves in a horizontal direction.

```

```

InputMode=LineMode
ViewportMode=Follow
SideBoundary=1
SideJump=10
VerticalBoundary=1
VerticalJump=8

```

```

: -----
: VT Terminal Configuration -- For VT terminals only
: -----
: Note: [] indicates recommended configuration option.
:
: KeypadMode       - [Numeric], Application
: CursorMode       - [Cursor], Application
: NumericKeypad    - [Disable], Enable
: TermMode         - [VT100], [VT220-7bit], VT220-8bit, [VT320-7bit], VT320-8bit
: UserDefinedKey   - [Unlock], Lock
: Answerback      - (String to send to host in response to ENQ. Leave blank for
: none.)

```

```

KeypadMode=Numeric
CursorMode=Cursor
NumericKeypad=Disable
TermMode=VT320-7bit
UserDefinedKey=Unlock
Answerback=""

```

```

: -----
: VT Print Configuration -- For VT terminals only
: -----
: Note: [] indicates default configuration option.
:
: PrinterReady     - [No], Yes
: AutoPrintMode    - [Off], On
: PrinterControllerMode - [Off], On   (Should be left in Off position)
: PrintFormFeedMode - [Off], On

```

```

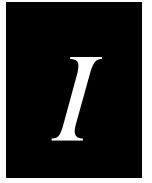
PrinterReady=No
AutoPrintMode=Off
PrinterControllerMode=Off
PrintFormFeedMode=Off

```

TEANT.CFG Configuration File (continued)

```
: -----
: VT Terminal Key remapping
: -----
: Note: <keysym> = bios keycode in hex. Must be 4 bytes.
:       string  = Text string to send can include mneumonics ie <CR>
:               or two byte hex. Must be quoted.
: Remap        - = <keysym> = "string"
: Macro        - = <keysym> = "string"
: RunMacro     - = <keysym>

: The following will remap F1 if uncommented
:Remap=<403B>="send this to the host<CR>"
: remap F2
:Remap=<403C>="send something else to the host<CR>line 2<CR>"
: remap F5 to clear screen escape sequence
:Remap=<403F>="<ESC>[2J"
: macro for 'a'
:Macro=<0061>="macro number 1<0d>"
: macro for 'e'
:Macro=<0065>="multi line macro <CR>line 2<0d>line 3<CR>"
: use FnL-F5 as run macro key
:RunMacro=<4044>
```

Index



Symbols and Numbers

- (Not symbol) command, 3270 and 5250, 4-19
- ¢ (cent sign) command, 3270 and 5250, 4-19
- 3270 and 5250 terminal emulation, 1-3
 - auto-advancing through fields, 2-10
 - auto-login control characters, 3-32
 - bar code labels for commands, A-6 to A-10
- commands
 - (Not symbol) command, 4-19
 - ¢ (cent sign) command, 4-19
 - Attention, 4-3
 - Auto-Login Restart, 4-3
 - Backtab, 4-4
 - Clear, 4-4
 - Cursor Home, 4-4
 - Delete, 4-5
 - Duplicate, 4-19
 - End, 4-5
 - Enter, 4-5
 - Enter TE Configuration Menu, 4-6
 - Erase Field, 4-6
 - Erase Input, 4-7
 - Erase Last Word, 4-7
 - Erase to End of Field, 4-6
 - Error Reset, 4-7
 - Fast Cursor Left or Right, 4-8
 - Field-, 4-8
 - Field Exit, 4-9
 - Field Mark, 4-19
 - Field+, 4-8
 - Help, 4-9
 - Home, 4-9
 - Insert, 4-10
 - list of, 4-3, A-6 to A-10
 - New Line, 4-10
 - Paging Keys, 4-11
 - Reset, 4-12
 - Reshow, 4-12
 - Roll Down, 4-12
 - Roll Up, 4-12
 - Scroll Viewport, 4-13
 - Status, 4-13
 - System Request, 4-14
 - Tab, 4-14
 - viewport, JANUS compatible, A-17
- downloading application, 6-6
- files, A-19
- functions, additional, 4-19, A-9
- keypads
 - illustrated, 2-5 to 2-7, A-3 to A-5
 - using, 2-4, 2-14
- parameters, configuring
 - T2425, 3-3
 - T2455, 3-3

- T2480 and T2485, 3-19
- T2481 and T2486, 3-3
- program function keys, 4-15, A-15
- roll keys, defined, 2-12
- starting, 1-6
- TE Configuration menu
 - accessing, 3-3
 - exiting, 3-7
- troubleshooting, 6-3 to 6-7
- unsupported functions, 1-7
- using, 2-3

A

- additional TE functions
 - 3270 and 5250, 4-19, A-9
 - VT/ANSI, 5-10, A-14, A-15
- ANSI terminal emulation
 - keypad
 - illustrated, 2-16 to 2-17, A-11 to A-12
 - using, 2-15
 - parameters, configuring
 - T2425, 3-8
 - T2455, 3-8
 - T2480 and T2485, 3-22
 - T2481 and T2486, 3-8
 - printing, 2-18
 - terminal type, selecting, 3-10, 3-22
 - using, 2-14
 - See also* VT/ANSI terminal emulation answerback, configuring for VT/ANSI, 3-11, 3-24
- Application mode, VT/ANSI
 - configuring, 3-10, 3-23, 5-11
 - key codes transmitted, B-3
- application options, described, 1-3
- Attention command, 3270 and 5250, 4-3
- audience and purpose, described, ix
- auto field advance, 3-5, 3-20
- auto-advancing through fields
 - configuring, 2-10
 - disabling auto field advance, 2-10
- AUTOLOG.SCR
 - about, 3-31
 - renaming, 3-34
- auto-login, 3-31
 - Auto-Login Restart
 - 3270 and 5250 command, 4-3
 - VT/ANSI command, 5-3
 - control characters, 3-32, 3-33
 - disabling the script file, 3-34
 - enabling the script file, 3-34
 - loading the script file, 3-33
 - losing information, 3-34
 - restart command, 3-34

TRAKKER Antares Terminal Emulation User's Guide

- auto-login (continued)
 - script file commands
 - HostName, 3-31
 - Input, 3-31
 - InputHidden, 3-31
 - PromptSessionStart, 3-32
 - Send, 3-32
 - WaitFor, 3-31
 - script files
 - developing, 3-31
 - samples, A-20

B

- backspace, VT/ANSI command, 5-3
- Backtab command, 3270 and 5250, 4-4
- bar code labels
 - 3270 and 5250 commands, A-6 to A-10
 - conventions, defined, xii
 - VT/ANSI commands, A-13 to A-15
- booting the terminal, 6-7

C

- Center Viewport mode, configuring, 3-6, 3-12, 3-21, 3-25
- Character mode, configuring for VT/ANSI, 3-11, 3-24, 5-11
- characters, configuring
 - 3270 and 5250, size for, 3-5, 3-20
 - VT/ANSI, size for, 3-10, 3-22
- clear, 3270 and 5250 command, 4-4
- commands, list of
 - 3270 and 5250, 4-3, A-3
 - auto-login, 3-31
 - VT/ANSI, 5-3, A-11
- Communications screen, configuring
 - 3270 and 5250, 3-5
 - VT/ANSI, 3-11
- configuration files, 3-17
 - 3270 and 5250 parameters, 3-20
 - downloading, 3-27
 - example, B-14
 - modifying, 3-19
 - uploading, 3-17 to 3-18
 - VT/ANSI parameters, 3-22
- Configuration Menu, terminal emulation, 3-8
- configuring
 - 3270 and 5250 parameters
 - T2425, 3-3
 - T2455, 3-3
 - T2480 and T2485, 3-19
 - T2481 and T2486, 3-3
 - international characters, displaying, 3-35
 - security for TE Configuration menu, 3-14

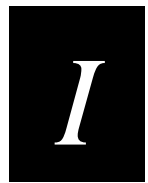
- VT/ANSI parameters
 - T2425, 3-8
 - T2455, 3-8
 - T2480 and T2485, 3-22
 - T2481 and T2486, 3-8
- connecting to a printer, 2-18 to 2-21
 - T2425, 2-19
 - T2455, 2-20
 - T248X, 2-21
- control characters, auto-login, 3-32
- conventions
 - bar codes, defined, xii
 - keypad, defined, xi
 - screens and messages, defined, xii
- creating auto-login script files, 3-31
- cursor
 - keys, using, 2-27
 - mode, configuring for VT/ANSI, 3-10, 3-23
 - viewport modes, configuring, 3-6, 3-12, 3-21, 3-25
- Cursor Home command, 3270 and 5250, 4-4

D

- DCS 300
 - connection
 - illustrated, 1-5
 - using, 1-5
 - host name, configuring for terminal, 3-5, 3-11, 3-21, 3-25
 - upline protocol, configuring for terminal, 3-5, 3-20
- default screen sizes, 2-25
- Delete command, 3270 and 5250, 4-5
- developing auto-login script files, 3-31
- disabling and enabling the auto-login script file, 3-34
- disabling auto field advance, 2-10, 3-5, 3-20
- display, EBCDIC exceptions, 2-25
- displaying international characters, 3-35
- documentation
 - bar code conventions, defined, xii
 - keypad conventions, defined, xi
 - manuals, list for reference, xiii
 - screen and message conventions, defined, xii
 - summary of each chapter, x
- double high text, configuring
 - 3270 and 5250, 3-5, 3-20
 - VT/ANSI, 3-10, 3-22
- Duplicate command, 5250 TE, 4-19

E

- EBCDIC
 - display exceptions, 2-25
 - keys, 3270 and 5250, 4-19
- editing keys, VT/ANSI
 - keypad, finding on, 2-18
 - list of, 5-3 to 5-6
- enabling auto field advance, 3-5, 3-20



- End command
 - 3270 and 5250, 4-5
 - VT/ANSI, 5-4
- ENQ, defining the answerback, 3-11, 3-24
- Enter TE Configuration Menu command, 4-6
- Enter, 3270 and 5250 command, 4-5
- Erase Field command, 3270 and 5250, 4-6
- Erase Input command, 3270 and 5250, 4-7
- Erase Last Word command, 3270 and 5250, 4-7
- Erase to End of Field command, 3270 and 5250, 4-6
- error messages
 - host connections, 6-6
 - TE applications, 6-3
- Error Reset command, 5250 TE, 4-7
- Ethernet network, illustrated, 1-4
- exiting TE Configuration menu, 3-7, 3-13

F

- Fast Cursor Right or Left command, 3270 and 5250, 4-8
- Field- command, 5250 TE, 4-8
- Field Exit command, 5250 TE, 4-9
 - configuring to auto-advance, 2-10
- Field Mark command, 5250 TE, 4-19
- Field+ command, 5250 TE, 4-8
- files
 - auto-login
 - described, A-20
 - samples, A-20
 - international characters, A-20
 - security for TE Configuration menu, A-20
 - TE application files
 - TCP/IP, A-19
 - UDP Plus, A-19
- Find command, VT/ANSI, 5-4
- Follow Cursor mode, configuring, 3-6, 3-12, 3-21, 3-25
- Function keys
 - 3270 and 5250, list of, 4-15, A-15
 - VT/ANSI, list of, 5-7, A-15
- functions, unsupported for TE, 1-7

H

- height of text, configuring
 - 3270 and 5250, 3-5, 3-20
 - VT/ANSI, 3-10, 3-22
- help, 5250 TE command, 4-9
- Home command
 - 3270 and 5250, 4-9
 - VT/ANSI, 5-4
- host deactivated session, 6-5
- host name, configuring
 - 3270 and 5250, 3-5, 3-21
 - VT/ANSI, 3-11, 3-25

I

- Input mode, configuring for VT/ANSI, 3-11, 3-24, 5-11
- Insert command
 - 3270 and 5250, 4-10
 - VT/ANSI, 5-4
- Intermec support services, ix
- international characters
 - configuring to display, 3-35
 - loading mapping files, 3-35
 - renaming mapping files, 3-36

J, K

- JANUS, compatible viewport commands, A-17
- key
 - conventions, defined, xi
 - cursor, using, 2-27
 - paging, using, 2-28
 - 3270 and 5250, list of, 4-11
 - VT/ANSI, list of, 5-5
 - program attention, for 3270 TE, 4-18
 - program function, list of, A-15
 - 3270 and 5250, 4-15
 - VT/ANSI, 5-7
 - roll, using for 5250 TE, 2-12
 - user-defined, configuring for VT/ANSI, 3-10, 3-23
 - viewport, JANUS compatible, A-17
- key code table
 - T2425 and T2455, B-10
 - T248X, B-12
- keyboard, T2455
 - 3270 and 5250, 2-6, A-4
 - VT/ANSI, 2-17, A-12
- keypad
 - 3270 and 5250
 - illustrated, 2-5 to 2-7, A-3 to A-5
 - using, 2-4, 2-14
 - configuring, 6-7
 - conventions, defined, xi
 - T2425, 2-5, 2-16, A-3, A-11
 - T2455, *See* keyboard
 - T248X, 2-7, 2-17, A-5, A-12
 - VT/ANSI
 - illustrated, 2-16 to 2-17, A-11 to A-12
 - key codes, transmitted, B-3
 - using, 2-15
- Keypad mode, VT/ANSI
 - configuring, 3-10, 3-23
 - key codes transmitted, B-3

TRAKKER Antares Terminal Emulation User's Guide

L

- Line mode, configuring for VT/ANSI, 3-11, 3-24, 5-11
- loading
 - auto-login script file
 - using RF communications, 3-34
 - using the serial port, 3-33
 - international mapping files, 3-35
- logging in, automatically, 3-31
- Login screen, illustrated, 1-6

M

- manual
 - audience and purpose, described, ix
 - reference list, xiii
 - summary of each chapter, x
 - terminology, defined, xi
- mapping files
 - international
 - 3270 and 5250, list of, 3-36
 - DISPTBLS.MAP, A-20
 - loading, 3-35
 - renaming, 3-36
 - VT/ANSI, list of, 3-37
 - where to find them, 3-35
 - key
 - 3270, A-19
 - 5250, A-19
 - matching with TE application, 6-5
- messages
 - conventions, defined, xii
 - status line, described, 2-8
- Model 200 Controller
 - connection
 - illustrated, 1-5
 - using, 1-5
 - host name, configuring for terminal, 3-5, 3-11, 3-21, 3-25
 - upline protocol, configuring for terminal, 3-5, 3-20
- moving the viewport, modes described, 3-6, 3-12, 3-21, 3-25

N

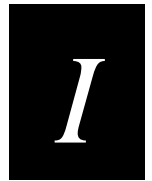
- network
 - TCP/IP direct connect, illustrated, 1-4
 - UDP Plus, illustrated, 1-5
- New Line command, 3270 and 5250, 4-10
- Next Screen command, VT/ANSI, 5-4
- non-recoverable errors, 3270 and 5250 TE, 6-3
- Numeric Keypad mode, VT/ANSI, configuring, 5-11
- Numeric Keypad, enabling and disabling, 3-10, 3-24
- Numeric mode, VT/ANSI
 - configuring, 3-10, 3-23
 - key codes transmitted, B-3

O, P

- Operational Assistant Menu, 5250 TE, 4-3
- other keys, 3270 and 5250, 4-19, A-9
- paging keys
 - 3270 and 5250, list of, 4-11
 - JANUS compatible, list of, A-17
 - using, 2-28
 - VT/ANSI, list of, 5-5
- parameters
 - 3270 and 5250, configuring
 - T2425, 3-3
 - T2455, 3-3
 - T2480 and T2485, 3-17
 - T2481 and T2486, 3-3
 - VT/ANSI, configuring
 - T2425, 3-8
 - T2455, 3-8
 - T2481 and T2486, 3-8
- password
 - Confirm password screen, 3-16
 - described, 3-14
 - enabling or disabling, 3-14
 - new password field, 3-15
 - old password field, 3-15
 - Set TE Password screen, 3-15
 - verify password field, 3-15
 - Verify TE Password screen, 3-16
- postamble, Field Exit, configuring to auto-advance, 2-10, 2-11
- Previous Screen command, VT/ANSI, 5-6
- Printer screen, configuring, 3-12
- printing, VT/ANSI, 2-18
 - configuring, 2-23
 - configuring on the T2480 and T2485, 3-26
 - connecting to a printer, 2-18 to 2-21
 - print modes, 2-22
 - Printer screen, 3-12
- program attention keys, 3270 TE, 4-18, A-9
- program function keys
 - 3270 and 5250, 4-15, A-15
 - VT/ANSI, 5-7, A-15

R

- RDRANSI terminal type, selecting, 3-10, 3-22
- recoverable errors, 3270 and 5250 TE, 6-3
- Remove command, VT/ANSI, 5-6
- renaming the auto-login file, 3-34
- reset, 3270 command, 4-12
- resetting, firmware, 6-7
- Reshow command, 3270 and 5250, 4-12
- restarting terminal emulation, 3-28
- RF network protocol options, 1-3
- Roll Down command, 5250 TE, 2-12, 4-12
- Roll Up command, 5250 TE, 2-12, 4-12



S

sample auto-login script files, A-20
 saving configuration changes, 3-7, 3-13
 scanning, bar code labels
 3270 and 5250 commands, A-6 to A-10
 VT/ANSI commands, A-13 to A-15
 screen
 conventions, defined, xii
 status line, described, 2-8
 text size, configuring
 3270 and 5250, 3-5, 3-20
 VT/ANSI, 3-10, 3-22
 viewport, using, 2-25
 screen sizes, default, 2-25
 Scroll Viewport commands
 3270 and 5250, 4-13
 VT/ANSI, 5-10
 security
 enabling or disabling, 3-14
 hot key, using to access, 3-14
 setting, 3-14
 Select command, VT/ANSI, 5-6
 side boundary, configuring the viewport
 3270 and 5250, 3-6, 3-21
 VT/ANSI, 3-12, 3-25
 side jump, configuring the viewport
 3270 and 5250, 3-6, 3-21
 VT/ANSI, 3-12, 3-25
 Sign On screen, illustrated, 1-6
 SNA Terminal Session Manager, 3-5, 3-20
 SNA upline protocol, 3-5, 3-20
 start/stop codes, conventions, defined, xii
 starting
 3270 and 5250 terminal emulation, 1-6
 TE Configuration menu, 3-4, 3-9
 VT/ANSI terminal emulation, 1-6
 Status command, 3270 and 5250, 4-13
 status line, turning on or off, 2-8
 System Request
 command, 3270 and 5250, 4-14
 Menu, 5250 TE, 4-14

T

T2425
 configuring 3270 and 5250 TE, 3-3
 configuring VT/ANSI TE, 3-8
 key code table, B-10
 keypad
 3270 and 5250, 2-5, A-3
 VT/ANSI, 2-16, A-11

T2455
 configuring 3270 and 5250 TE, 3-3
 configuring VT/ANSI TE on T2481 and T2486, 3-8
 key code table, B-10

keyboard
 3270 and 5250, 2-6, A-4
 VT/ANSI, 2-17, A-12

T248X
 configuring 3270 and 5250 TE on T2480 and T2485, 3-19
 configuring 3270 and 5250 TE on T2481 and T2486, 3-3
 configuring TE on the T2480 and T2485, 3-17
 configuring VT/ANSI TE on T2480 and T2485, 3-22
 key code table, B-12
 keypad
 3270 and 5250, 2-7, A-5
 VT/ANSI, 2-17, A-12

Tab command, 3270 and 5250, 4-14

TCP/IP direct connect
 files, application
 3270, A-19
 5250, A-19
 VT/ANSI, A-19
 network, illustrated, 1-4
 TE Configuration menu, 3-4, 3-9

TE Configuration menu
 3270 and 5250
 Communications screen, defined, 3-5
 Terminal screen, defined, 3-5
 Viewport screen, defined, 3-6
 exiting, 3-7, 3-13
 security, setting, 3-14
 TCP/IP, 3-4, 3-9
 UDP Plus, 3-4, 3-9
 using, 3-4
 VT/ANSI
 Communications screen, defined, 3-11
 Printer screen, defined, 3-12
 Terminal screen, defined, 3-10
 Viewport screen, defined, 3-12

TE.SEC file, described, 3-14

TEANT.CFG VT/ANSI configuration file, B-14

Telnet Terminal Session Manager, 3-5, 3-20

Telnet upline protocol, 3-5, 3-20

terminal emulation files, A-19

Terminal mode, VT220/320, 3-10, 3-22

Terminal screen, configuring
 3270 and 5250, 3-5
 VT/ANSI, 3-10

terminal type, VT or ANSI, selecting, 3-10, 3-22

terminology, defined, xi

text size, configuring
 3270 and 5250, 3-5, 3-20
 VT/ANSI, 3-10, 3-22

token ring network, illustrated, 1-4

troubleshooting
 3270 and 5250 TE, 6-3 to 6-7
 host deactivated session, 6-5
 Intermec support services, ix
 keypad not responding, 6-5

TRAKKER Antares Terminal Emulation User's Guide

troubleshooting (continued)

- keypad type, configuring, 6-7
- Restarting Terminal Emulation Please Wait, 6-6
- status line messages, 2-8
- TE Configuration menu, cannot access, 6-7
- Unable to connect to controller, 6-6
- Unable to establish connection to host, 6-6
- Waiting for connection to controller, 6-6

U

UDP Plus

- files, application
 - 3270, A-19
 - 5250, A-19
 - VT/ANSI, A-19
- network, illustrated, 1-5
- TE Configuration menu, 3-4, 3-9

unsupported functions, 1-7

upline protocol

- configuring, 3270 and 5250, 3-5, 3-20
- SNA, 3-5, 3-20
- Telnet, 3-5, 3-20

user-defined key, VT/ANSI, 3-10, 3-23

V

vertical boundary, configuring the viewport

- 3270 and 5250, 3-6, 3-22
- VT/ANSI, 3-12, 3-26

vertical jump, configuring the viewport

- 3270 and 5250, 3-6, 3-22
- VT/ANSI, 3-12, 3-26

viewport

- cursor keys, using, 2-27
- described, 2-26
- Follow Cursor mode, configuring the boundaries, 3-6, 3-12, 3-21, 3-25
- JANUS compatible, using, A-17
- mode, configuring
 - 3270 and 5250, 3-6
 - disabling viewport movement
 - 3270 and 5250, 3-6
 - VT/ANSI, 3-12, 3-21, 3-25
 - VT/ANSI, 3-12, 3-21, 3-25
- movement keys, list of, 2-27, 4-13, 5-10
- paging keys, using, 2-28
 - 3270 and 5250, 4-11
 - VT/ANSI, 5-5
- using, 2-25

Viewport screen, configuring

- 3270 and 5250, 3-6
- VT/ANSI, 3-12

VT/ANSI terminal emulation, 1-3

- additional functions, list of, 5-10, A-14, A-15
- auto-login control characters, 3-33

commands, list of, 5-3, A-11

configuration file, B-14

downloading application, 6-6

editing keys

- Auto-Login Restart, 5-3
- Backspace, 5-3
- End, 5-4
- Find, 5-4
- Home, 5-4
- Insert Here, 5-4
- keypad, finding on, 2-18
- Next Screen, 5-4
- Paging Keys, 5-5
- Previous Screen, 5-6
- Remove, 5-6
- Select, 5-6
- summary of commands, A-13 to A-15

files, A-19

keypad

- illustrated, 2-16 to 2-17, A-11 to A-12
- key codes transmitted, list of, B-3
- using, 2-15

parameters, configuring

- T2425, 3-8
- T2455, 3-8
- T2480 and T2485, 3-22
- T2481 and T2486, 3-8

printing, 2-18

program function keys, list of, 5-7, A-15

starting, 1-6

TE Configuration menu

- accessing, 3-8
- exiting, 3-13

terminal mode, configuring, 3-10, 3-22

unsupported functions, 1-7

using, 2-14

viewport

- JANUS compatible, A-17
- scroll commands, 5-10

VT100 terminal, key codes transmitted, B-3, B-4, B-6

W

warm reset, 6-7

warranty information, ix