



Honeywell

Enterprise TE

Enterprise Terminal Emulation

For Honeywell computers powered by Android 6.0

User Guide

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Customer Support

Technical Assistance

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.hsmcontactsupport.com.

For our latest contact information, see www.honeywellaidc.com/locations.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world.

To obtain warranty or non-warranty service, you must first obtain a Return Material Authorization number (RMA #), and then return your product to Honeywell (post-age paid) with a copy of the dated purchase record.

To learn more, go to www.honeywellaidc.com and select **Service & Repair** at the bottom of the page.

Limited Warranty

For warranty information, go to www.honeywellaidc.com and click **Get Resources > Product Warranty**.

Send Feedback

Your feedback is crucial to the continual improvement of our documentation. To provide feedback about this manual, contact the Honeywell Technical Communications department at ACSHSMTechnicalCommunications@honeywell.com.

GET STARTED

This chapter introduces the Enterprise Terminal Emulator application and includes these sections:

- [About Enterprise Terminal Emulator](#)
- [Launch Enterprise TE](#)
- [Close Enterprise TE](#)
- [About Status Indicators](#)

About Enterprise Terminal Emulator

The Enterprise Terminal Emulator (TE) application emulates VT/ANSI terminals on your Honeywell computer. For all supported Honeywell-branded computers, the Enterprise TE program name is “Enterprise Terminal Emulator”.

The Enterprise TE application uses Transmission Control Protocol/Internet Protocol (TCP/IP), telnet and SSH network protocols to provide reliable data transfers between the host computer and terminal. Implementation of VT/ANSI computer emulation supports both 7-bit and 8-bit communication environments. An 8-bit asynchronous character encoding scheme and a 7-bit code extension technique ensures the computer is compatible with ANSI and ISO standards.

To facilitate data transfers, the Honeywell computer processes characters received from the host computer as standard ANSI character codes and functions. When the keys on the terminal are used, the application generates and transmits keyboard codes back to the host computer. The terminal supports VT/ANSI computer top-row functions, main keypad, editing and auxiliary key emulation. Character codes supported include 7-bit and 8-bit types.

Supported Computers

These computers support Enterprise TE:

- Dolphin 75e Handheld Computers powered by Android 6.0 (Marshmallow)
- Dolphin CT50 Mobile Computers powered by Android 6.0 (Marshmallow)

About Enterprise TE Licensing

Using Enterprise TE requires an application license.

If a demo version of the Enterprise TE application was preinstalled on your Honeywell computer, you need to purchase an application license to use Enterprise TE once the demo period (60 days) has expired.

If a licensed version of the Enterprise TE application was preinstalled on your Honeywell computer, you do not need to purchase an application license to use Enterprise TE.

If Enterprise TE was not preinstalled on the computer, you need to install the application and purchase an application license to use Enterprise TE once the demo period (60 days) has expired.

About Upgrades

To upgrade the Enterprise TE application on the computer, you must have a valid application license and an active maintenance license installed. Application licenses include one year of maintenance upgrades starting from the time the license is activated. Maintenance must be renewed before the end of the first year or before the current maintenance license expires, failing which a new application license must be purchased for utilizing any application upgrades.

About Demo Licenses

After you install Enterprise TE, the application runs in demo mode for 60 days, or until you purchase an application license. During the 60-day demo period, a demo mode message box appears when you launch Enterprise TE. The message displays the days remaining on the demo license. Select **OK** to dismiss the demo message and use the application.


After 60 days, a license expired message box appears informing you the free trial period has come to an end. Select **OK** to dismiss the message and close the application.

For information on purchasing and installing licenses, contact your Honeywell representative.

How to Identify the Active License Type

If a license is active on the Honeywell computer, you can identify the license type from the About screen in the Enterprise TE application.

To View License Information

1. Open the Enterprise TE app.
2. Touch the three dots  in the upper right corner.
3. Select **About**. The license type is identified in the *Type* field and in the extension of the *Feature* name.
 - **Clientpack.d.demo**
The “.d.demo” extension indicates a demo license.
 - **Clientpack.d**
The “.d” extension indicates a permanent application license.
 - **Clientpack.maint.d**
The “.maint.d” extension indicates a maintenance license.

About Intermec License Manager

You can use the Intermec License Manager (ILM) to download and distribute your Enterprise TE licenses.

To Download Intermec License Manager

1. Go to www.honeywellaidc.com.
2. Select **Get Resources > Software**.
3. Click on the *Technical Support Downloads Portal* link, <https://hsmftp.honeywell.com>.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the *Honeywell Download Manager* tool on your PC prior to trying to download any files.
6. Locate the **Intermec License Manager** in the Software directory.
7. Select **Download**. Follow the prompts to download the application.

About Enterprise TE and Network Protocols

Enterprise TE applications use the following network protocol options. For network configuration options, refer to your computer user manual.

Protocol	Description
TCP/IP	The computer running Enterprise TE communicates through access points directly connected to the host computer.

Install Enterprise TE on Your Computer

The Enterprise TE application for Android 6.0 is part of the Enterprise Client Pack (ECP) software bundle. The ECP bundle installs three applications on the computer: the Enterprise TE application, the Enterprise Browser, and the Honeywell Launcher. If ECP did not come pre-installed on the computer, you can download the software bundle from www.honeywellaidc.com.

Note: *Before attempting to download and install software, see “[Supported Computers](#)” and “[About Enterprise TE Licensing](#)”.*

Prerequisites

Operating System

- CT50 OS version 71.01.07.0050 or later version.
- Dolphin 75E OS version 69.01.07.0050 or later version.

Honeywell Dolphin Power Tools (CommonES)

- CT50\D75E
Honeywell_CommonES_Android_4.01.00.3713 or later version.

Note: *The computer must have power for the entire length of the installation process or it could become unstable. Do not attempt to remove the battery during the process.*

To Download ECP

1. Go to www.honeywellaidc.com.
2. Select **Get Resources** > **Software**.
3. Click on the *Technical Support Downloads Portal* link, <https://hsmftp.honeywell.com>.
4. Create an account if you do not already have one. You must login to download the software.
5. Install the *Honeywell Download Manager* tool on your PC. The manager is required to download software.
6. Locate and select the **Enterprise Client Pack (ECP)** software bundle for Android 6.0 in the Software directory.
7. Select **Download**. Follow the prompts to download the application.

To Install ECP

1. Copy the .zip file from your PC to the \Internal storage\honeywell\autoinstall folder on the computer.
2. Touch **All Apps** > **AutoInstall**.
 - Verify **Enable AutoInstall** has a check mark in the box.
3. Touch **Packages update**. The computer automatically initiates a reboot and installs the software.

Launch Enterprise TE

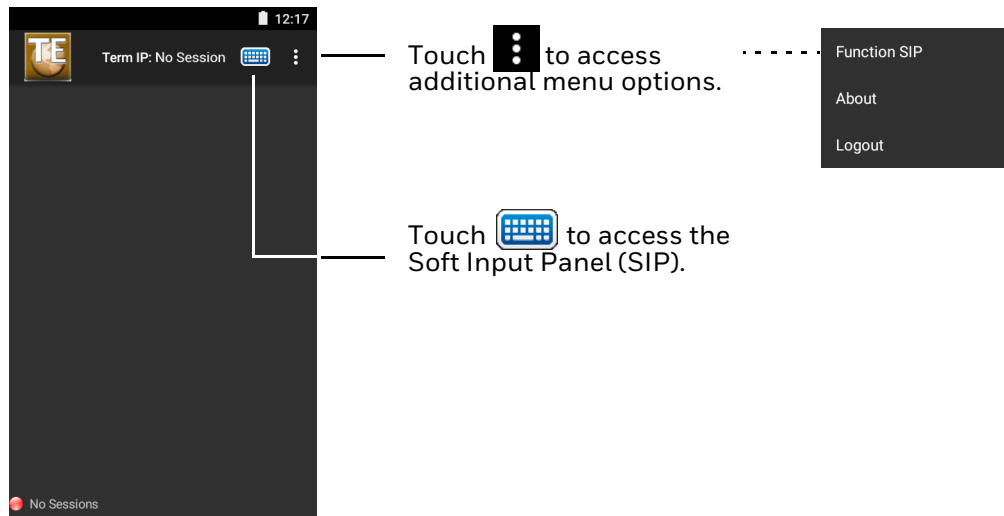
You can start Enterprise TE manually or you can use the Configure Autorun Power tool to set Enterprise TE to automatically launch when you power on the computer.

Note: *If the Enterprise TE application is within a 60-day demo period, a demo mode message box appears when you launch the application. The message displays the days remaining on the demo license. Select OK to dismiss the message and use the application. To learn more about application licensing, see "[About Enterprise TE Licensing](#)" on page 2.*

To Start Enterprise TE Manually

- Touch **All Apps** > **Terminal Emulation** .

After Enterprise TE initializes, the main screen appears.



Enterprise TE Main Screen





During Enterprise TE working sessions, useful status information appears at the top and bottom of the screen. To learn more, see ["About Status Indicators" on page 7](#).


Note: By default, Enterprise TE screens show white text on a black background. The content and options in each screen depend on the installed hardware options in your computer.

About Configure Autorun


The Configure Autorun app is used to specify the applications you want automatically launched after a computer reboot. Applications that can be set to run automatically are listed on either the *Normal* screen or the *Autorun* screen. You can toggle between the two screens by selecting the heading. The heading that the app appears under indicates if it has been set to automatically run after a reboot. If an application is set to auto-run, it is moved from the *Normal* screen to the *Autorun* screen.

To auto-start Enterprise TE using Configure Autorun

1. Touch **All Apps**  > **Power Tools**  > **EZConfig** .
2. Select **Configure Autorun** .
3. Select **Normal** if it is not already selected.

4. Touch and hold **Terminal Emulator** .
5. Select **OK** to confirm. The app now appears on the Autorun tab instead of the Normal tab.

Close Enterprise TE

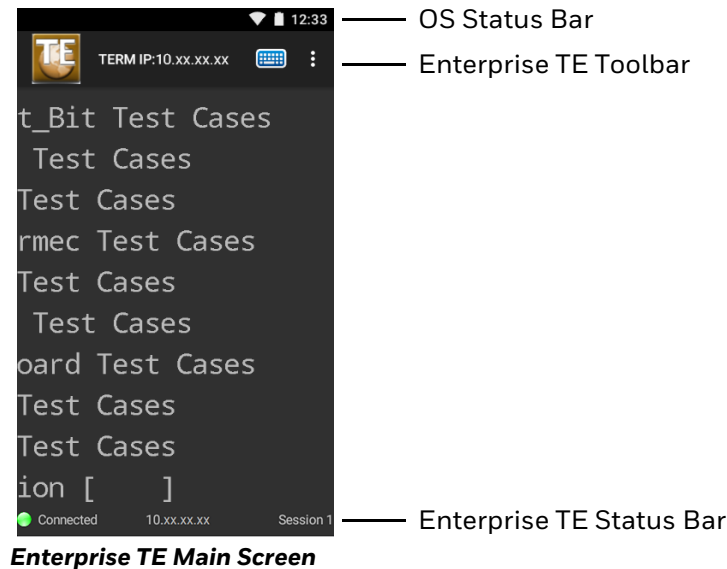
When Enterprise TE is running, you can touch the three dots  in the upper right corner of the screen, and then select Logout to close the application.

Note: By default, Enterprise TE requires a password for exit the application. The default password is `cr52401`. To customize the exit password or change the application exit behavior, see ["Configure the Enterprise TE Exit Password" on page 13](#).

About Status Indicators



The status bar at the top of the screen provides information relevant to the operating system and computer hardware such as the battery charge level, network connection type and network signal strength. To learn more about the status icons and their meaning, see the user manual for your specific computer model.

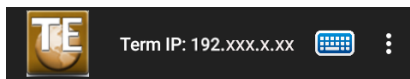
When Enterprise TE is running, the Toolbar located at the top of the screen and the status bar located at the bottom of the screen provide real time feedback on the connection status and access to additional options.



About the Toolbar

The Enterprise TE Toolbar provides access to the following:

- **Terminal IP Address or Device IP Address**
If no session is in process, “No Session” shows.
- **SIP Icon** 
Select to show / hide the on-screen keyboard. To learn more, see ["About the Default Soft Input Panels" on page 40.](#)
- **Menu Icon** 
Select to access additional options and information about the software (e.g., About, SIP Options, Logout, Session Name Running). The content of the menu changes depending on if a session is active and if the Enterprise TE application is being managed through the Honeywell Launcher.



Enterprise TE Toolbar Sample

Access the About Screen

You may need to know the Enterprise TE version if you are upgrading or if you need to contact Product Support.

- Touch  on the Enterprise TE application screen, and then select **About**.

The Enterprise TE version is shown just below the program name. License information also appears on the About screen (i.e., Feature, Status, Type, Version and Expiration Date). To return to the main screen touch the arrow next to the TE icon.

About the Connection Status Bar

At the bottom of the Enterprise TE screen, the connection status of the current session appears. When a session is running the following information is shown:

- **Connection Status**
This indicates the status of the connection between the computer and host or server (i.e., Connected, Re-connecting, or No Sessions).
- **IP Address**
This is the IP Address of the host or server that the computer is trying to connect to for the session.



Enterprise TE Connection Status Bar Samples

Note: When trying to re-connect the connection icon flashes red and yellow.

CONFIGURE ENTERPRISE TE

This chapter explains how to configure the Enterprise Terminal Emulator application by editing the `te_settings.xml` configuration file on the computer. The chapter includes these sections:

- [Configure Enterprise TE with EZConfig](#)
- [Configure Options for Each Session](#)
- [Configure Protocol Options](#)

Configure Enterprise TE with EZConfig

Configure the Enterprise TE application for your handheld computer by modifying the `te_settings.xml` file that resides in the `\storage\IPSM\honeywell\ezconfig\generated` folder on the device. The `.xml` file is automatically generated the first time you open the Enterprise TE application. You customize the settings in the file using one of the following methods:





- Open and edit the file directly on the computer using the standard editor that is part of the EZConfig Power Tool application.
- Copy the `.xml` file to a desktop computer, modify it with the optional advanced EZConfig Editor, and then transfer the file back to the device.

Note: *The standard editor is a feature of the EZConfig Power Tool application included on the computer. The advanced EZConfig editor is part of the optional EZConfig for Mobility software suite that is available for download from www.honeywellaidc.com. This manual explains editing the `.xml` file using the standard editor provided on the computer. To learn more about the advanced EZConfig editor, see the *Dolphin Power Tools Versions 4.x User Guide for devices powered by Android*, available for download at www.honeywellaidc.com.*


How to Edit the XML File

You only need to open and edit the `te_settings.xml` file in EZConfig if you want to change the Enterprise TE application default configuration.

Open the XML File

1. Touch **All Apps**  > **Power Tools**  > **EZConfig** .
2. Touch  next to “EZConfig”.
3. Select **Editor**.
4. Touch **OPEN XML** > **ezconfig** > **generated**.
5. Touch **te_settings.xml** to open the file for editing.

Edit the XML File


1. Touch the + icon to expand the sections and locate the key you want to edit.
2. Select the key from the section tree, and then touch inside one of the fields (e.g., Key, Value, or Desc) to edit the information. A selected field is underlined in green. If a field is shaded in gray, the text cannot be edited (see example below).
3. Edit the text. If you want to close the on-screen keyboard and edit another field, press the **Back** button, and then select the other field.
4. Press , and then select **Save**. Saving does not apply the changes to the application.

5. Touch  again, and then select **Update Configure**. If prompted, reboot the computer to apply the changes.

Generate a Missing XML File

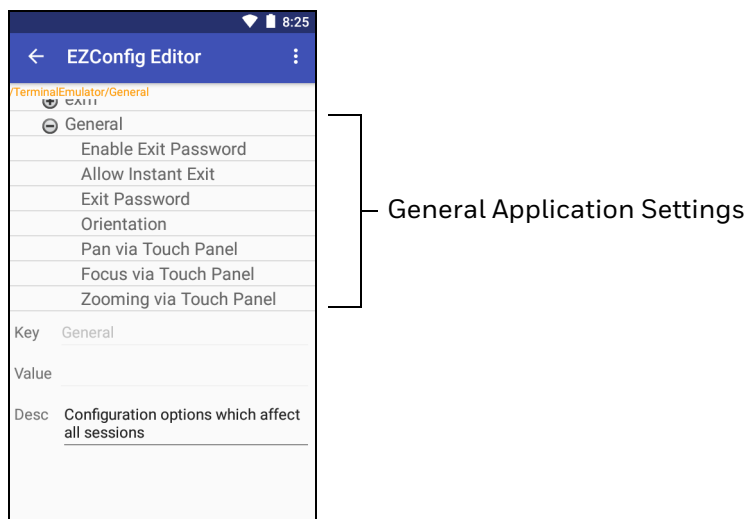
If the `te_settings.xml` file was deleted in error from the computer, generate a new copy with the Generator feature in the EZConfig Power Tool app.

To Generate a New Copy

1. Open **EZConfig**.
2. Touch  next to “EZConfig”.
3. Select **Generator**. A new `te_settings.xml` file is automatically created and saved in the `\storage\IPSM\honeywell\ezconfig\generated` folder.

Configure General Application Settings

Once the `te_settings.xml` is open in the Editor, expand the General section by selecting the plus sign (+) to view the application settings.



Enterprise TE General Settings



Configure the Enterprise TE Exit Password

By default, you must use a password (cr52401) to exit the Enterprise TE application, but you can set the exit behavior to one of the following options:



- Require a custom password to exit.
- Request confirmation to exit with no password required.
- Exit without requiring a password or a request to confirm exit.

Note: If both the Exit Password and Instant Exit settings are enabled, the Exit Password value takes priority. If both the Exit Password and Instant Exit settings are disabled, the application prompts to confirm exit.

To Enable an Exit Password or Request to Confirm Exit



1. Open te_settings.xml configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Touch **TerminalEmulator**, and then **General** to expand the sections.
3. Select **Enable Exit Password**.
4. Edit the *Value* field:
 - If the value is set to **0**, the application requests confirmation before exiting the application. No password is required.
 - If the value is set to **1**, the application prompts the user for a password before exiting the application.
5. Touch .
6. Select **Save**.
7. Touch  again.
8. Select **Update Configure**.

To Change the Default Exit Password

1. Open te_settings.xml configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Touch **TerminalEmulator**, and then **General** to expand the sections.
3. Select **Exit Password**.
4. Enter a string of up to 10 characters for the exit password. The default is cr52401.
5. Touch .
6. Select **Save**.
7. Touch  again.
8. Select **Update Configure**.

To Enable an Instant Exit with No Password or Confirmation Request



1. Open te_settings.xml configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Touch **TerminalEmulator**, and then **General** to expand the sections.

3. Select **Allow Instant Exit**.
4. Type **0** in the *Value* field.
5. Touch .
6. Select **Save**.
7. Touch  again.
8. Select **Update Configure**.

Configure the Default Screen Mode

By default the screen orientation automatically switches between landscape and portrait mode if the computer is physically rotated. You can change the default screen orientation behavior by editing the `te_settings.xml` file.

To Change the Default Screen Mode (Orientation) in Enterprise TE

1. Open `te_settings.xml` configuration file in the standard editor. For help, see ["Open the XML File" on page 12](#).
2. Touch **TerminalEmulator**, and then **General** to expand the sections.
3. Select **Orientation**.
4. Type **0**, **1**, **2** or **3** in the *Value* field.
5. When you are finished making changes, touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

For more information on these values, see the next table.

Orientation Values

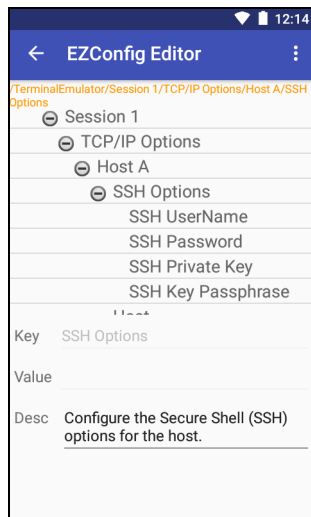
Value	Descriptions
0	Default value. Automatically switches between Landscape mode and Portrait mode depending on how the computer is rotated. Any other value excluding 1, 2 or 3 is considered to be the same as the default value.
1	Landscape Left When the key value is set to 1, Enterprise TE opens in Landscape Left mode. Rotating the computer does not change the orientation.
2	Landscape Right When the key value is set to 2, Enterprise TE opens in Landscape Right mode. Rotating the device does not change the orientation.
3	Portrait When the key value is set to 3, Enterprise TE opens in Portrait mode. Rotating the device does not change the orientation.

Configure Options for Each Session



You can configure a set of options for each of the four sessions by modifying the key values in the session section. For example, you can assign each session a custom host name or friendly name.

To Configure Options for Each Session

1. Open `te_settings.xml` configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Select **Session 1**, **Session 2**, **Session 3**, or **Session 4**.
3. Continue to expand the sections under the session until you find the Key you want to modify.



Expanded Session Section in EZConfig

4. Touch a key to select it and change the value as needed.
5. When you are finished making changes, touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

For more information on these settings, see the next table.

TCP/IP Configuration Section Descriptions

Sections	Description	Values
TCP/IP Options	Sets network options for TCP/IP connections. For more information, see "Configure a TCP/IP Connection" on page 15.	
Protocol Options	Sets options for VT/ANSI protocols. For more information, see "Configure Protocol Options" on page 17.	

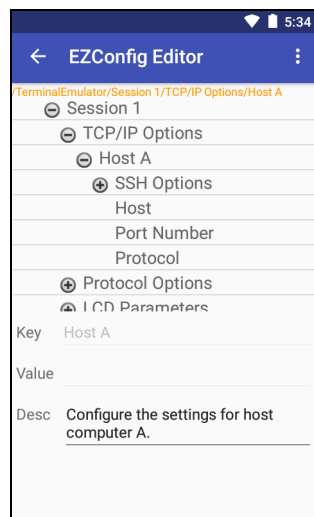
TCP/IP Configuration Section Descriptions

Sections	Description	Values
LCD Parameters	Sets Enterprise TE screen sizes and the screen cursor behavior. For more information, see “Configure Enterprise TE Screen Sizes and Cursor Behavior” on page 22.	
Display Options	Sets Enterprise TE screen behavior (i.e., Prompt on Reconnect). For more information, see “Set Enterprise TE to Display a Prompt to Reconnect” on page 21.	
Session Name	Sets the customizable host name (or friendly name) for the session.	String of up to 11 characters.



Configure a TCP/IP Connection

You can configure TCP/IP settings for a single host (Host A) for each of up to four different sessions.

1. Open `te_settings.xml` configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Select **Session 1**, **Session 2**, **Session 3**, or **Session 4**.
3. Touch **TCP/IP Options**.
4. Touch **Host A**. The list of configuration items for Host A appears.



Host A Section Expanded in EZConfig

5. Touch a key to select it and change the value as needed. You may need to expand a section further to view all the relevant keys.
6. When you are finished making changes, touch , and then select **Save**.
7. Touch  again, and then select **Update Configure**.

For more information on these settings, see the next table.

TCP/IP Configuration Options for Sessions

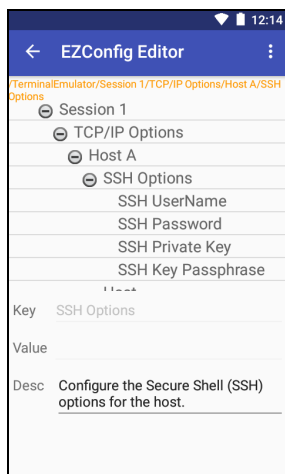
Section/Key	Description	Values
SSH Options	Secure Shell (SSH) options for this host.	For more information, see “Configure Enterprise TE for SSH” on page 16.
Host	IP address of the application server.	None
Port Number	Selects the port number you want to use to make a connection to the host computer.	0 to 65535. Default is 23.
Protocol	Defines the security protocol to use for data communication.	Telnet (Default)=0 SSH=1

Configure Enterprise TE for SSH



When using an SSH connection, you can edit the `te_settings.xml` file to include the necessary user name and security inputs (e.g., password, private key) required by the host for the connection.

Note: *If you do not configure a user name and password in the `te_settings.xml` file, an SSH Login Page screen appears requiring you to manually enter a user name and password. If you configure a user name but not a password, only the password field on the SSH Login Page that appears is editable.*

1. Open `te_settings.xml` configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Select **Session 1**, **Session 2**, **Session 3**, or **Session 4**.
3. Touch **TCP/IP Options**.
4. Touch **Host A**.
5. Touch **SSH Options**.



SSH Options Expanded in EZConfig

6. Touch a key to select it and change the value as needed. You may need to expand a section further to view all the relevant keys.
7. When you are finished making changes, touch , and then select **Save**.
8. Touch  again, and then select **Update Configure**.

For more information on these settings, see the next table.

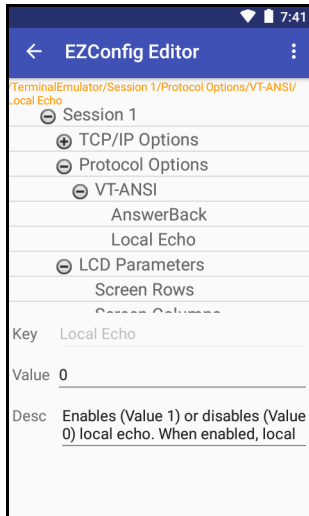
SSH Option Descriptions

Key	Description	Values
SSH UserName	Stored username you are prompted to enter when you choose to connect to Port 22 (SSH) instead of Port 23 (Telnet).	0 to 80 characters. Default is a null string.
SSH Password	Stored password you are prompted to enter when you choose to connect to Port 22 (SSH) instead of Port 23 (Telnet).	0 to 80 characters. Default is a null string.
SSH Private Key	Key file SSH uses for private key authentication. Specify the relative path from \Internal Storage\honeywell\ETE\SSH\, or prefix the absolute path with \.	0 to 80 characters. Default is a null string.
SSH Key Passphrase	Passphrase required to access the SSH Private Key file. If blank, Enterprise TE assumes no passphrase was configured.	0 to 80 characters. Default is a null string.



Configure Protocol Options

You can select the VT-ANSI emulation and set protocol options for each of up to four different sessions.

1. Open `te_settings.xml` configuration file in the standard editor. For help, see "[Open the XML File](#)" on page 12.
2. Touch **Session 1**, **Session 2**, **Session 3**, or **Session 4**.
3. Touch **Protocol Options**.
4. Touch **VT-ANSI**.



VT-ANSI Section Expanded in EZConfig

5. Touch a key to select it and change the value as needed.
6. When you are finished making changes, touch , and then select **Save**.
7. Touch  again, and then select **Update Configure**.

For more information on configuration settings for VT-ANSI emulation, see the next table.

VT-ANSI Protocol Options

Key	Description	Values
AnswerBack	When enabled, the computer sends the specified character string to the host in response to an inquiry (hexadecimal 05). When ENQ is sent, only the first thirty characters of the name are transmitted back to the host. For more information, see About the Answerback Character String.	Range is 0 to 30 characters. Default is the computer serial number.
Local Echo	When enabled, local echo displays characters from terminal memory but not from host memory.	On or Off. Default is Off.

About the Answerback Character String

Enable Answerback to send a character string to the host in response to an inquiry (hexadecimal 05). The string can be 0 to 30 characters long, and possibly longer if you use wildcards as described in this section. Default is the computer serial number.

Note: *Although the string can be longer than 30 characters, only the first thirty characters of the name are transmitted back to the host when ENQ is sent.*

Use the SIP to enter the character string. If you enter any of the following control characters, it is sent out. Control strings count as one character.

7-Bit Commands

Use	To Get
<BS>	Backspace When received by the computer from the host, the cursor position moves to the left of the current cursor position. When received by the Host from the computer, the character in front of the cursor is deleted and the cursor is moved into the vacant position.
<HT>	Horizontal Tab Moves the cursor to the next predetermined position (tab stop) to the right.
<LF>	Line Feed Moves the cursor down one line.
<VT>	Vertical Tab Moves the cursor down one line unless the cursor is outside the scrolling region when the Vertical Tab character is received. The cursor does not move past the bottom of the virtual screen.
<FF>	Form Feed This control character is processed as a line feed in the TE client and advances the cursor down one line.
<CR>	Carriage Return Returns the cursor to the left margin of the row where the cursor is positioned.

8-Bit Commands

Use	To Get
EPA	End Protected Area Ends the protected area in page memory that cannot be edited when forms are created from the host.
SPA	Start of Protected Area Starts the protected area in page memory that cannot be edited when forms are created from the host.

Note: *The default answerback string is %Sx. If the answerback string is empty in the te_settings.xml file, the computer should respond with the serial number when the host sends an ENQ.*

To configure an Answerback string that includes computer-specific information, use wild card characters in the string. For more information on wild card characters, see the next table.

Wild Card Characters for Answerback

Use	To Get
%Mx	Entire Mac address of the device in capital letters.
%mx	Entire Mac address of the device in lower case letters.
%M1-%M2-%M3-%M4-%M5-%M6	1st through 6th part of MAC address in capital letters.
%m1-%m2-%m3-%m4-%m5-%m6	1st through 6th part of MAC address in lower case letters.
%MO-%M7	Out of boundary values test. The computer receives the same string: %MO-%M7.
%m0-%m1:%m6-%m8	Mixed value test. The computer receives xx-xx:xx-%m8 where xx refers to the corresponding values of the Mac Address.
%lx	Entire IP address.
%ix	Entire IP address.
%l1.%l2.%l3.%l4	1st through 4th octet of IP address.
%i1.%i2.%i3.%i4	1st through 4th octet of IP address.
%l0:%i7	Out of boundary values test. The computer receives the same string: %l0:%i7.
%i0-%i1:%l3-%l5	Mixed value test. The computer receives %i0-xx:xx-%l5, where xx refers to the corresponding values of the IP Address.
%l4.	4th octet of IP address.
%Sx	Entire serial number of the computer in capital letters.
%sx	Entire serial number of the computer in lower case letters.
%s1%s2%s3%s4%s5%s6%s7%s8%s9%sa%sb%sc%sd%se	Entire Mac address of the device in lower case letters.
%S1%S2%S3%S4%S5%S6%S7%S8%S9%Sa%Sb%Sc%Sd%Se	Entire Mac address of the device in capital letters.
%Ss-%sS	Out of boundary values test. The computer receives the same string: %Ss:%sS.
%Serial ID:%s7%S8%sa	Mixed value test. The computer receives %Serial ID:XXXXXXXX, where xx refers to the serial number.
ID:%s1%s2%s3%s4%s5%s6%s7%s8%s9 MAC:%m1-%m2-%m3-%m4-%m5-%m6 IP:%i1.%i2.%i3.%i4	The computer receives the entire serial number, MAC Address, and IP Address. ID:xxxxMAC:xxxxIP:xxxx
%Wildcard%	Invalid string test. The computer receives the same value: %Wildcard%.

Set Enterprise TE to Display a Prompt to Reconnect

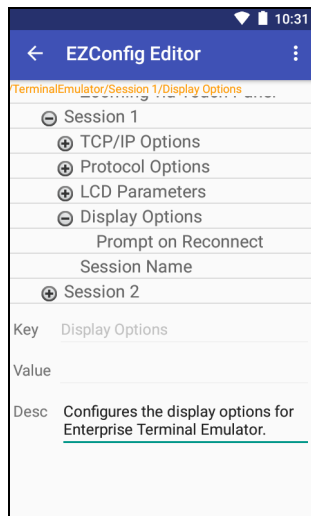
You can configure Enterprise TE to display a “Connection Failed” message on the screen if the connection between the host and application has been lost or the computer goes out of Wi-Fi network range. Enterprise TE does not try to reconnect until you manually initiate the action by touching RE-CONNECT in the message window. Enabling this feature reduces network traffic.

When the feature is disabled, no reconnect prompt is initiated and the computer continuously tries to reconnect with the host. A “Re-connecting” message appears in lower left corner of the screen.



The Prompt on Reconnect feature is disabled by default.

To Enable a Prompt Before Reconnecting to the Host

1. Open te_settings.xml configuration file in the standard editor. For help, see ["Open the XML File" on page 12](#).
2. Touch **Session 1**, **Session 2**, **Session 3**, or **Session 4**. The list of configuration items for that session appears.
3. Touch **Display Options**.
4. Touch **Prompt on Reconnect**.



Display Options Expanded in EZConfig

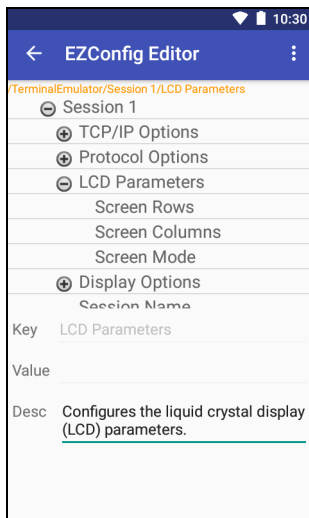
5. Edit the value to change the setting:
 - **0 = Disable** (default).
 - **1 = Enable**. A message appears notifying you of a connection failure between the computer and host. Enterprise TE does not try to re-establish a connection with the host until you touch Re-connect on the screen.
6. Touch , and then select **Save**.
7. Touch , again, and then select **Update Configure**.

Configure Enterprise TE Screen Sizes and Cursor Behavior



You can set the Enterprise TE screen size and cursor behavior for each of the four available sessions.

To Configure Screen Size and Cursor Behavior

1. Open te_settings.xml configuration file in the standard editor. For help, see ["Open the XML File" on page 12.](#)
2. Touch **Session 1**, **Session 2**, **Session 3**, or **Session 4**. The list of configuration items for that session appears.
3. Touch **LCD Parameters**.



LCD Parameters Expanded in EZConfig

4. Touch a key to select it and change the value as needed.
5. When you are finished making changes, touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

For more information on these settings, see the next table.

LCD Parm's Settings

Key	Description	Values
Screen Rows	Number of rows that appear on the screen. The default value of 10 is used if the value configured is less than 1 or exceeds 24.	1 to 24 Default Value is 10.
Screen Columns	Number of columns that appear on the screen. The default value is used if the value configured is less than 1 or exceeds 80.	1 to 80 Default Value is 20.

LCD Params Settings

Key	Description	Values
Screen Mode	Configures how the cursor positions itself on the display. The default value is used if the value configured exceeds 3. For more information, see "About Screen Mode" on page 25 .	Center Cursor = 0 Corner Mode (Default) = 1 Page Mode = 2 Lazy Mode = 3

About Screen Mode

Screen Mode defines the cursor position and movement as you scroll through data in the display buffer, which stores data in a standard CRT format as sent from the host computer. Use Screen Mode options to optimize your view.

Screen Mode Option Descriptions



Option	Description
Center Cursor	Cursor remains in the center of the screen as you scroll through data. On reaching a boundary of the full CRT screen, the cursor moves past the center of the screen. When the cursor reaches the boundary of the CRT screen, the cursor does not wrap to the next line in the display.
Corner Mode (default)	Cursor remains in the lower-right corner of the screen as you scroll through data, beginning at the upper-left corner of the full CRT screen. Cursor remains there as data advances in the scrolled direction (up, down, right, or left). On reaching a boundary of the full CRT screen, the display and cursor move in the scrolled direction. Cursor stops moving when it reaches the CRT screen boundary and does not wrap to the next line in the display. Use this option when your application uses only the upper-left corner of the full CRT screen.
Page Mode	Divides the full CRT screen into predefined "pages," and starts the computer display on page 1. Cursor first appears in the upper right corner. As you scroll, only the cursor moves and the data on the screen does not appear to move. When you scroll off the edge of the displayed page, the display snaps to the next (or previous) page. On reaching a boundary of the CRT screen, the cursor stops moving. Because the 24-row by 80-column CRT screen cannot be divided equally, some pages in Page Mode overlap each other and the same information is shown on both pages.
Lazy Mode	Cursor starts in the upper left corner of the screen and moves across the display in the scrolled direction. When the cursor goes beyond the edge of the display, the data moves in the opposite direction to the cursor, which remains at the edge of the display.

Pan the Enterprise TE Viewport by Touching the Screen

Depending on the number of rows and columns configured in `te_settings.xml` file, you may need to pan the screen to scroll through all the information. Simply drag your finger across the screen or use a vertical or horizontal swiping motion.

Pan via Touch Panel is enabled by default and applies to all sessions when enabled. You can enable or disable this feature by modifying the `te_settings.xml` file.

To Disable Pan via Touch Panel

1. Open `te_settings.xml` configuration file in the standard editor. For help, see "[Open the XML File](#)" on page 12.
2. Touch **General**.
3. Touch **Pan via Touch Panel**.
4. Edit the value to set the mode:
 - **0 = Disabled**.
 - **1 = Viewport Mode** (default). The screen moves in the same direction you drag or swipe on the touch panel.
5. Touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

Move the Cursor Location by Touching the Screen



You can enable the Focus via Touch Panel feature, which moves the cursor to any entry field when you touch the computer screen at the field location.

Focus via Touch Panel is disabled by default and applies to all sessions when enabled. You can enable or disable this feature by modifying the `te_settings.xml` file.

Note: *If you enable this feature when using VT-ANSI emulation, the entire screen is defined as a field.*

To Enable Focus via Touch Panel

1. Open `te_settings.xml` configuration file in the standard editor. For help, see "[Open the XML File](#)" on page 12.
2. Touch **General**.
3. Touch **Focus via Touch Panel**.
4. Edit the value to set the mode:
 - **0 = Disabled** (default). Screen taps are ignored.
 - **1 = Enabled**. The entire screen is treated as a field and the cursor should move in response to a tap.



5. Touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

Zoom In or Out on the Screen with a Pinching Gesture

You can zoom in or out on the Enterprise TE screen by making a pinching gesture. Place two fingers close together on the screen, drag them apart to zoom in, and then drag them back together to zoom out. Zooming in decreases the total number of rows and columns displayed on the screen but increases the font size for easier viewing.

Zooming via Touch Panel is enabled by default and applies to all sessions. You can enable or disable this feature by modifying the `te_settings.xml` file.

To Disable Zooming via Touch Panel

1. Open `te_settings.xml` configuration file in the standard editor. For help, see ["Open the XML File" on page 12](#).
2. Touch **General**.
3. Touch **Zooming via Touch Panel**.
4. Edit the value to set the mode:
 - **0 = Disabled**. Screen taps are ignored.
 - **1 = Enabled** (default). The entire screen is treated as a field and the cursor should move in response to a tap.
5. Touch , and then select **Save**.
6. Touch  again, and then select **Update Configure**.

CUSTOMIZATION AND SECURITY

This chapter describes how you can initiate auto-login or use Honeywell Launcher to manage Enterprise TE access. The chapter includes these sections:

- [Use the Auto-Login Feature](#)
- [About Honeywell Launcher](#)
- [Honeywell Guidelines for Enterprise TE Security](#)

Use the Auto-Login Feature

Use the auto-login feature to send the same login information each time you log into the host. When you start Enterprise TE, the computer checks for an auto-login script file. If a script file exists, the computer runs the login commands from the auto-login script file before Enterprise TE starts.

To use this feature, develop an auto-login script file and load it on the computer. This section explains how to develop a script and includes a list of control characters and the procedure for disabling auto-login.

Develop Auto-Login Script Files

A typical auto-login script file consists of a series of “WaitFor” and “Send” commands.

Note: *The auto-login script must be an ASCII text file. The file name is session specific and should be in format: autolog1.scr for Session 1, autolog2.scr for Session 2, autolog3.scr for Session 3 and autolog4.scr for Session 4. You can also keep one single file for all sessions with the name autolog.scr. If a session specific file is not found for a single or multiple session's the autolog.scr is used.*

Commands for Auto-Login Script Files

You can use several commands to create auto-login script files. All commands are case-sensitive. For example, WaitFor is a command, but Waitfor is not a valid command. For examples of script files, see ["Sample Auto-Login Script Files" on page 32](#).

WaitFor

Wait for a list of up to ten strings. Strings must be enclosed in quotes and separated by a comma.

Send

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 the Enterprise TE application.

Use Auto-Login Search Strings

Conditions for auto-login search strings are as follows:

- Searches are case-sensitive.
- Each WaitFor command searches the entire screen from the top.

Use line wrapping to look for unique strings. If a screen from the host has multiples of the word you are looking for, use the preceding spaces to identify a unique string.

Example: If the screen sent to the computer is:

```
Linux rlogin 2.4.6
```

```
Login:
```

```
Password:
```

The autologin script would be:

```
WaitFor "Login:"#Wait for the login prompt.  
Send "XXXXX"#Send the user name.  
Send "<TAB>"#Send Tab to Host.  
WaitFor "Password:"#Wait for the password prompt.  
Send "XXXXX"#Send the password.  
Send "<ENTER>"#Send Enter to Host.
```

Use Control Characters

To include control characters in your auto-login script file, all control characters must be enclosed by < > (angle brackets).

VT/ANSI Control Characters for Auto-Login Script File

Control Character	Definition
<ENTER>	Enter
<SPACE>	Space
<TAB>	Tab

Load the Auto-Login Script File

After you create an auto-login script, copy the file to your computer. For more information on copying files, see the user manual for your computer.

To ensure that your customized files (autolog.scr) are executed, you need to copy the files to the directory where the Enterprise TE executable is stored.

Path: \Internal Storage\Honeywell\ETE\Scripts\

Disable the Auto-Login Feature

To disable auto-login, rename or delete the autolog.scr file. Renaming the file ensures that you can use the same auto-login script file later by changing the name back to autolog.scr. To enable a new script file, rename a different script file to autolog.scr.

Note: Do not rename the file by adding a number to the end (e.g., autolog1.scr or autolog2.scr). The file name is session specific. The number defines the session. To learn more, see "[Develop Auto-Login Script Files](#)" on page 30.

Follow this procedure to rename or delete the auto-login script file.

To Rename or Delete the Auto-login File

1. Establish a USB file transfer (MPT) connection between the computer and your PC.
2. Browse to the auto-login file.
3. Right-click the file and select **Delete** from the popup menu. The file is deleted. Or, select **Rename** from the popup menu and rename the file to disable the feature.

Sample Auto-Login Script Files

You can use this sample script file as is or as the starting point for creating your own auto-login script files.

Example: Auto-Login With All Computers Using the Same Account

```
WaitFor "Login:"#Wait for the login prompt
Send "username"#Send the user name
Send "<TAB>"#Send a tab
WaitFor "Password:"#Wait for the password prompt
Send "letmein"#Send the password
Send "<ENTER>"#Send a carriage return
```

- The WaitFor command waits for a string to be displayed by the host.
- The first Send command sends a fixed user name, the second Send sends a fixed password.

About Honeywell Launcher

With Honeywell Launcher active on a computer, you can limit each end user's access to applications - whether that is a single application or a limited set of applications. You approve the level of access you want for each of your workers. This keeps your workers focused on line of business applications. It also prevents them from accessing applications that might distract them and lead to unproductive activity. And by restricting configuration to admin users, Honeywell Launcher prevents production workers from initiating configuration changes that could lead to downtime and help desk calls. To learn more about the Honeywell Launcher, see the user guide available for download at www.honeywellaidc.com.

Configure Access to Enterprise TE

If you want to keep the Enterprise TE application in Lockdown mode, you can control access to the application through the Honeywell Launcher. Four configuration modes are available using the Launcher software:

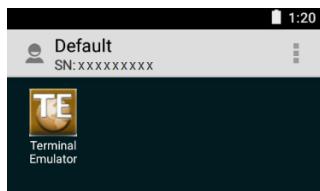
- **Single-User and Single-Application Mode**
Does not require login credentials to open Enterprise TE.
Requires login credentials to switch user.
- **Multi-User and Multi-Application Mode**
Requires login credentials to open Enterprise TE.
Requires Enterprise TE be closed before opening other applications.
- **Single-User and Multi-Application Mode**
Requires login credentials to open Enterprise TE
Requires Enterprise TE be closed before opening other applications.
- **Multi-User and Single-Application Mode**
Does not require login credentials to open Enterprise TE.
Requires login credentials to switch user.

Note: When in Single-Application modes, once you launch Enterprise TE you cannot use the Back key to exit the application.

Use Single-User and Single-Application Mode


Use the Single-User and Single-Application mode if you want to manage who uses the Enterprise TE software but not restrict who can open the application.

When this mode is used, login credentials are required to switch from one user to another in the Enterprise TE application but not to open the application.



Honeywell Launcher Screen

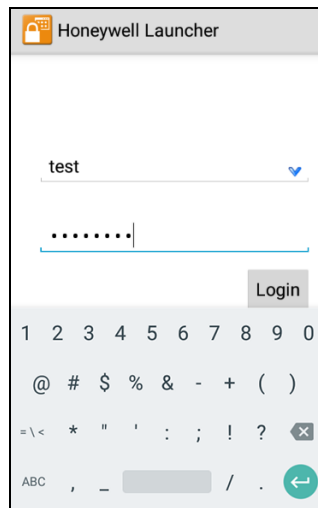
To Switch Users in Enterprise TE

1. Touch  to access the options menu in the open Enterprise TE application.
2. Select **SwitchUser**.
3. Input the required security credentials (e.g., User Name and Password).
4. Select **Login**.

Use Multi-User and Multi-Application Mode

Use the Multi-User and Multi-Application mode if you want to restrict access to the Enterprise TE application and prevent the user from opening other applications during Enterprise TE use.

When this mode is enabled, the user must first log into the Launcher software using secure credentials, and then open the Enterprise TE application. Once the application is open, the user cannot open another application without first closing the Enterprise TE application.




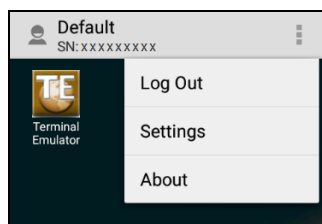
Honeywell Launcher Login Screen

To Exit Enterprise TE

1. Press the **Back** button.
2. If prompted, enter an exit password.
This step is only required if the “Enable Exit Password” key value is set to enabled in the te_settings.xml file. To learn more, see ["Configure the Enterprise TE Exit Password" on page 13.](#)
3. Select **Yes** to confirm exit and breaking the connection.

To Exit the Launcher:

1. Touch .
2. Select **Log Out**.

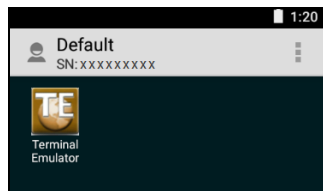


Honeywell Launcher Menu

Use Multi-User and Single-Application Mode


Use the Multi-User and Single-Application mode if you want to manage who uses the Enterprise TE software but not restrict who can open the application.

When this mode is used, login credentials are required to switch from one user to another in the Enterprise TE application but not to open the application.



Honeywell Launcher Screen

To Switch Users in Enterprise TE

1. Touch  to access the options menu in the open Enterprise TE application.
2. Select **SwitchUser**.
3. Input the required security credentials (e.g., User Name and Password).
4. Select **Login**.

Honeywell Guidelines for Enterprise TE Security

Follow the recommended actions below to improve security when using Enterprise TE on the computer. To learn more about network and security guidelines for Android devices, go to www.honeywellaidc.com and download the *Android Network and Security Guide* from the product page for your computer.

- Change the TE password to a non-default value. Apply standard password security measures (e.g., do not use words; use a mix of letters and numbers). Change account and password defaults and remove any unused accounts from the computer.
- Create regular backups of the data present on the computer. Keep all software on the computer updated to the latest release.
- Limit access to modify, delete and update the data on device to an Admin or trusted user.
- Install only signed and trusted applications on the computer.
- Use the lock down functionality of Honeywell Launcher to limit the number of users able to access the Enterprise TE application.
- Use the Generate option in EZConfig to restore the default settings of the `te_settings.xml` file, if possible corruption occurs. To learn more about EZConfig, see the *Dolphin Power Tools Versions 4.x User Guide for devices powered by Android* at www.honeywellaidc.com.

- Allow only admin access to the computer root level of the file system to reduce computer vulnerability to hackers gaining control of file system.
- Data transmitted through Telnet is not secure and can be seen by anyone on the same network. If an unsecured wireless connection is used, anyone nearby can detect and read the transmissions. Proper network encryption is necessary when working with potentially sensitive data. Honeywell recommends using an SSH connection to prevent unauthorized access to the data.

SCAN BAR CODES

This appendix includes a list bar code symbologies supported when using Enterprise TE and either the internal scanner in the computer or a Honeywell wearable solution. This appendix includes these sections:

- [Scan Bar Codes While Using Enterprise TE](#)
- [Use a Ring Scanner with Enterprise TE](#)

Scan Bar Codes While Using Enterprise TE

Use Enterprise TE and either the integrated scanner in the computer or a Honeywell wearable solution ring scanner (i.e., model 8620) to scan bar codes.

Supported Bar Code Symbologies

Bar Code Symbology
Aztec
Codabar
Code 39
Code 128
Data Matrix
Maxi Code
EAN-8
EAN-13
EAN.UCC Composite
EAN.UCC (RSS-14)
EAN.UCC (RSS-Limited)
EAN.UCC (RSS-Expanded)
GS-128 (formerly UCC/EAN-128)
Interleaved 2 of 5
MicroPDF417e
PDF417
UPC-A
UPC-E

Use a Ring Scanner with Enterprise TE

Note: *The Honeywell wearable solution ring scanner (model 8620) works with the Dolphin 75e only if the Dolphin 75e is attached to a docking station.*

When the Honeywell 8620 ring scanner is inserted into the sled of Dolphin 75e, the computer emits an audible sound and the green led on the computer and the on the ring scanner illuminate. The ring scanner can be connected to the Dolphin 75e at anytime. Enterprise TE does not need to be running to scan bar codes through the ring scanner.

Note: *If no audible or visual feedback is received when the ring scanner is connected to the sled, communication between the devices has not been established. Check to make sure the scanner is properly inserted.*

SOFT INPUT PANEL USE

This appendix provides information on the SIP for Enterprise TE functionality on computers that support Enterprise TE. The chapter includes these topics:

- [About Enterprise TE and Soft Input Panels](#)
- [About the Default Soft Input Panels](#)
- [SIP Options in Portrait Mode](#)
- [SIP Options in Landscape Mode](#)
- [About Custom SIP Configurations](#)

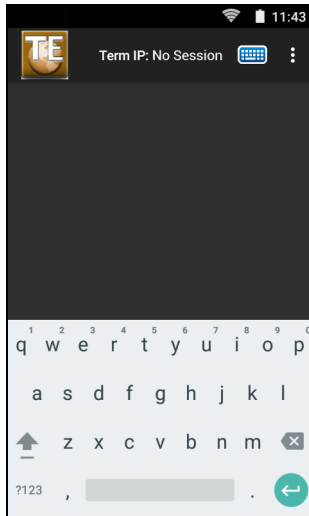
About Enterprise TE and Soft Input Panels

This section includes information on using and configuring the soft input methods specific to Enterprise TE. For information on using the hardware buttons on your Honeywell computer, see the computer user manual.

About the Default Soft Input Panels

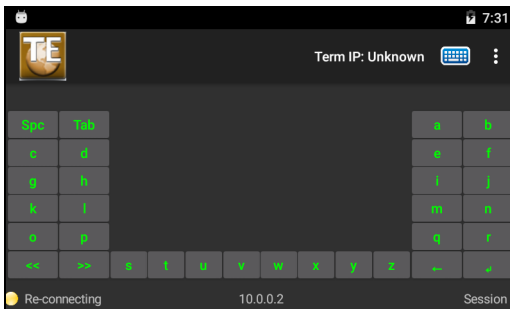
While Enterprise TE is running, touch  in the Toolbar to access the Soft Input Panel (SIP). By default, one of two configurations appear depending on the orientation of the screen.

- Normal Android OS Keyboard appears in portrait mode.



Portrait Mode


- Custom U Shaped Keyboard appears in landscape mode.



Landscape Mode

Touch  to toggle between showing and hiding the SIP.

You can change the default screen mode behaviors by editing the `te_settings.xml`. To learn more, see ["Configure the Default Screen Mode" on page 15](#).

Note: If you change the screen orientation, the SIP automatically closes. Press the  to show the SIP in the new orientation.

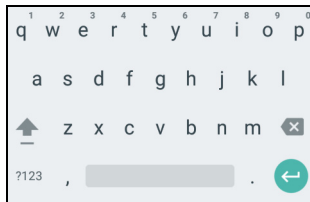
SIP Options in Portrait Mode

Enterprise TE supports four types of SIP in portrait mode:

- Alphanumeric Keyboard
- Function Key Keyboard
- AID Keyboard
- Numeric Keyboard









Alphanumeric SIP

Touch  in the Toolbar to access the Soft Input Panel (SIP). The normal Android OS keyboard appears.



Android OS Keyboard

When the SIP is displayed, you can use it for entering characters or accessing options as follows:


- Touch  to switch to the number/symbol keyboard.
- Touch  to switch to the alphabetic keyboard.
- Touch and hold  to backspace/delete a character.
- Touch and hold  to enter or add a line return.
- Touch  to toggle between uppercase keys and lowercase keys for a single character.
- Touch and hold  to set uppercase key lock.
- Touch and hold  (comma) to access Input options for the SIP.
- Touch and hold  (period) to access quick symbol/punctuation menu.

Function SIP

When the screen is in portrait mode, you can use the Function Key SIP to access function keys from F1 to F24.

Note: Function keys F22, F23, and F24 are not currently supported for VT-ANSI emulation.





To Access the Function Key SIP

1. Touch  in the Toolbar.
2. Select Function SIP.



Function SIP



When the SIP is displayed, you can use it for function key access and toggling between the AID and Numeric keyboards.

- Touch  or  to toggle between available function keys.
- Touch  to switch to the AID keyboard.
- Touch  to switch to the Numeric keyboard.

AID SIP

When the screen is in portrait mode, you can use the AID SIP to access keys specific to VT-ANSI emulation.




To access the AID SIP:

1. Touch  in the Toolbar.
2. Select **Function SIP**.
3. Touch .



AID SIP



When the SIP is displayed, you can use it for cursor or page navigation and editing relevant to VT-ANSI emulation.

- Touch  to switch to the Function keyboard.
- Touch  to switch to the Numeric keyboard.
- Touch  to enter Home.

Numeric SIP

When the screen is in portrait mode, you can use the Numeric SIP to access numeric keys 0-9.

To access the Numeric SIP


1. Touch  in the Toolbar.
2. Select **Function SIP**.
3. Touch .



SIP Options in Landscape Mode

When the screen is in landscape mode, the default SIP for Enterprise TE is the Honeywell custom U shaped keyboard.

The Function SIP option under menu  does not appear when landscape mode is active. Switch to Portrait mode to use Function SIP.

Touch  in the Toolbar to access the Soft Input Panel (SIP). Five custom landscape configurations are available:

- Lowercase Alphabet Keyboard
- Uppercase Alphabet Keyboard
- Function Keys Keyboard
- Numeric Keyboard
- Special Character Keyboard

To cycle through five keyboard modes, touch  or .

Spc	Tab									a	b
c	d									e	f
g	h									i	j
k	l									m	n
o	p									q	r
←	→	s	t	u	v	w	x	y	z	←	→

Lowercase Alphabet Keyboard

Spc	Tab									A	B
C	D									E	F
G	H									I	J
K	L									M	N
O	P									Q	R
←	→	S	T	U	V	W	X	Y	Z	←	→

Uppercase Alphabet Keyboard

F17	F18									F19	F20
F13	F14									F15	F16
F9	F10									F11	F12
←	→	F1	F2	F3	F4	F5	F6	F7	F8	←	→

Function Keys Keyboard

Esc										RUpr	RUdn
Spc	Tab									↑	↓
HW	End									←	→
Ins	Del									←	→
←	→	1	2	3	4	5	6	7	8	9	0

Numeric Keyboard

Spc	Tab									_	
@	#									\$	%
&	*)
+ =											
- /										-	-
←	→	.	,	+ =	/ \	~	^	←	→	←	→

Special Characters Keyboard

About Custom SIP Configurations

You can customized keyboard for Enterprise TE by creating and saving a CustomKeyboard.xml file in the \Internal storage\honeywell\ETE\KB folder on the computer.

Custom SIP Guidelines

The CustomKeyboard.xml is implemented during Enterprise TE startup. If the file is modified while the application is running, you must restart the application before the new configuration takes effect.

When you create a CustomKeyboard.xml configuration file, make sure you follow these guidelines.

- File name must be CustomKeyboard.xml.
- Save the CustomKeyboard.xml file in the \Internal storage\honeywell\ETE\KB folder on the computer.
- The mode, key, value, and keyIndex names should not be empty.
- The mode name should be unique.
- At least one key should be present in a mode.
- The maximum number of modes that can be defined is 6.
- Total number of keys is 32.
- Keys 1-30 are configurable.
- Keys 31 and 32 are fixed for the << and >> buttons and cannot be custom configured.
- KeyIndex values should be ≥ 1 and ≤ 30 .
- In the tag <key>
 - "text" is the value shown on the button
 - "value" is the value sent to the host
 - "keyIndex" is the button to enable (on keyboard layout)
- Keys that are not defined in the xml file do not show on the layout.
- Text length on keys 1-20 and 29-32 should not exceed 3 characters.
- Text length on keys 21-28 should not exceed 2 characters.
- The value that is sent to the host is in plain text.

A sample of the default Enterprise TE keyboard XML file is provided on [page 46](#) to use as a reference. See [page 46](#) for keyIndex layout information.

Troubleshooting

If you have trouble getting the custom SIP configuration to appear instead of the default SIP, check these items.

Verify the custom SIP configuration file is:

- Saved as “CustomKeyboard.xml”.
- Located in \Internal storage\honeywell\ETET\KB folder on the computer.

Verify the CustomKeyboard.xml file **does not** include:

- More than 6 modes.
- Any modes without keys.
- Duplicate modes names.
- A blank or unassigned mode name.
- A blank or unassigned key text, value, or keyIndex.
- A keyIndex with a value that is <1 or >30.

Sample of Default Keyboard XML File

```
<?xml version="1.0" encoding="UTF-8" ?>
<!--Copyright 2017 Honeywell International Inc. All rights
reserved.-->
<Layout>
<Mode Name="abc">
  <key text="SpC" value=" " keyIndex="1"></key>
  <key text="Tab" value="Tab" keyIndex="2"></key>
  <key text="a" value="a" keyIndex="3"></key>
  <key text="b" value="b" keyIndex="4"></key>
  <key text="c" value="c" keyIndex="5"></key>
  <key text="d" value="d" keyIndex="6"></key>
  <key text="e" value="e" keyIndex="7"></key>
  <key text="f" value="f" keyIndex="8"></key>
  <key text="g" value="g" keyIndex="9"></key>
  <key text="h" value="h" keyIndex="10"></key>
  <key text="i" value="i" keyIndex="11"></key>
  <key text="j" value="j" keyIndex="12"></key>
  <key text="k" value="k" keyIndex="13"></key>
  <key text="l" value="l" keyIndex="14"></key>
  <key text="m" value="m" keyIndex="15"></key>
  <key text="n" value="n" keyIndex="16"></key>
  <key text="o" value="o" keyIndex="17"></key>
  <key text="p" value="p" keyIndex="18"></key>
  <key text="q" value="q" keyIndex="19"></key>
  <key text="r" value="r" keyIndex="20"></key>
  <key text="s" value="s" keyIndex="21"></key>
```

```

<key text="t" value="t" keyIndex="22"></key>
<key text="u" value="u" keyIndex="23"></key>
<key text="v" value="v" keyIndex="24"></key>
<key text="w" value="w" keyIndex="25"></key>
<key text="x" value="x" keyIndex="26"></key>
<key text="y" value="y" keyIndex="27"></key>
<key text="z" value="z" keyIndex="28"></key>
<key text="←" value="Backspace" keyIndex="29"></key>
<key text="↵" value="\n" keyIndex="30"></key>
</Mode>
<Mode Name="ABC">
  <key text="Spc" value=" " keyIndex="1"></key>
  <key text="Tab" value="Tab" keyIndex="2"></key>
  <key text="A" value="A" keyIndex="3"></key>
  <key text="B" value="B" keyIndex="4"></key>
  <key text="C" value="C" keyIndex="5"></key>
  <key text="D" value="D" keyIndex="6"></key>
  <key text="E" value="E" keyIndex="7"></key>
  <key text="F" value="F" keyIndex="8"></key>
  <key text="G" value="G" keyIndex="9"></key>
  <key text="H" value="H" keyIndex="10"></key>
  <key text="I" value="I" keyIndex="11"></key>
  <key text="J" value="J" keyIndex="12"></key>
  <key text="K" value="K" keyIndex="13"></key>
  <key text="L" value="L" keyIndex="14"></key>
  <key text="M" value="M" keyIndex="15"></key>
  <key text="N" value="N" keyIndex="16"></key>
  <key text="O" value="O" keyIndex="17"></key>
  <key text="P" value="P" keyIndex="18"></key>
  <key text="Q" value="Q" keyIndex="19"></key>
  <key text="R" value="R" keyIndex="20"></key>
  <key text="S" value="S" keyIndex="21"></key>
  <key text="T" value="T" keyIndex="22"></key>
  <key text="U" value="U" keyIndex="23"></key>
  <key text="V" value="V" keyIndex="24"></key>
  <key text="W" value="W" keyIndex="25"></key>
  <key text="X" value="X" keyIndex="26"></key>
  <key text="Y" value="Y" keyIndex="27"></key>
  <key text="Z" value="Z" keyIndex="28"></key>
  <key text="←" value="Backspace" keyIndex="29"></key>
  <key text="↵" value="\n" keyIndex="30"></key>
</Mode>
<Mode Name="FUN">
  <key text="F17" value="F17" keyIndex="9"></key>
  <key text="F18" value="F18" keyIndex="10"></key>
  <key text="F19" value="F19" keyIndex="11"></key>

```

```

<key text="F20" value="F20" keyIndex="12"></key>
<key text="F13" value="F13" keyIndex="13"></key>
<key text="F14" value="F14" keyIndex="14"></key>
<key text="F15" value="F15" keyIndex="15"></key>
<key text="F16" value="F16" keyIndex="16"></key>
<key text="F9" value="F9" keyIndex="17"></key>
<key text="F10" value="F10" keyIndex="18"></key>
<key text="F11" value="F11" keyIndex="19"></key>
<key text="F12" value="F12" keyIndex="20"></key>
<key text="F1" value="F1" keyIndex="21"></key>
<key text="F2" value="F2" keyIndex="22"></key>
<key text="F3" value="F3" keyIndex="23"></key>
<key text="F4" value="F4" keyIndex="24"></key>
<key text="F5" value="F5" keyIndex="25"></key>
<key text="F6" value="F6" keyIndex="26"></key>
<key text="F7" value="F7" keyIndex="27"></key>
<key text="F8" value="F8" keyIndex="28"></key>
<key text="-" value="Backspace" keyIndex="29"></key>
<key text="␣" value="\n" keyIndex="30"></key>
</Mode>
<Mode Name="AID/NUM">
  <key text="Esc" value="Escape" keyIndex="5"></key>
  <key text="PUp" value="PageUp" keyIndex="7"></key>
  <key text="PDn" value="PageDown" keyIndex="8"></key>
  <key text="Spc" value=" " keyIndex="9"></key>
  <key text="Tab" value="Tab" keyIndex="10"></key>
  <key text="↑" value="UpArrow" keyIndex="11"></key>
  <key text="↓" value="DownArrow" keyIndex="12"></key>
  <key text="Hm" value="Home" keyIndex="13"></key>
  <key text="End" value="End" keyIndex="14"></key>
  <key text="←" value="LeftArrow" keyIndex="15"></key>
  <key text="→" value="RightArrow" keyIndex="16"></key>
  <key text="Ins" value="Insert" keyIndex="17"></key>
  <key text="Sel" value="Select" keyIndex="18"></key>
  <key text="-" value="Backspace" keyIndex="19"></key>
  <key text="␣" value="\n" keyIndex="20"></key>
  <key text="1" value="1" keyIndex="21"></key>
  <key text="2" value="2" keyIndex="22"></key>
  <key text="3" value="3" keyIndex="23"></key>
  <key text="4" value="4" keyIndex="24"></key>
  <key text="5" value="5" keyIndex="25"></key>
  <key text="6" value="6" keyIndex="26"></key>
  <key text="7" value="7" keyIndex="27"></key>
  <key text="8" value="8" keyIndex="28"></key>
  <key text="9" value="9" keyIndex="29"></key>
  <key text="0" value="0" keyIndex="30"></key>

```



```

</Mode>
<Mode Name="SYM">
  <key text="Spc" value=" " keyIndex="1"></key>
  <key text="Tab" value="Tab" keyIndex="2"></key>
  <key text="_" value="_" keyIndex="3"></key>
  <key text="!" value="!" keyIndex="4"></key>
  <key text="@" value="@" keyIndex="5"></key>
  <key text="#" value="#" keyIndex="6"></key>
  <key text="$" value="$" keyIndex="7"></key>
  <key text="%" value="%" keyIndex="8"></key>
  <key text="&amp;" value="&amp;" keyIndex="9"></key>
  <key text="*" value="*" keyIndex="10"></key>
  <key text="(" value="(" keyIndex="11"></key>
  <key text=")" value=")" keyIndex="12"></key>
  <key text="+" value="+" keyIndex="13"></key>
  <key text="=" value="=" keyIndex="14"></key>
  <key text="[" value="[" keyIndex="15"></key>
  <key text="]" value="]" keyIndex="16"></key>
  <key text=":" value=":" keyIndex="17"></key>
  <key text=";" value=";" keyIndex="18"></key>
  <key text="&quot;" value="&quot;" keyIndex="19"></key>
  <key text="'" value="'" keyIndex="20"></key>
  <key text="," value="," keyIndex="21"></key>
  <key text="." value="." keyIndex="22"></key>
  <key text="&lt;" value="&lt;" keyIndex="23"></key>
  <key text="&gt;" value="&gt;" keyIndex="24"></key>
  <key text="/" value="/" keyIndex="25"></key>
  <key text="\\" value="\\" keyIndex="26"></key>
  <key text="?" value="?" keyIndex="27"></key>
  <key text="-" value="-" keyIndex="28"></key>
  <key text="←" value="Backspace" keyIndex="29"></key>
  <key text="↵" value="\n" keyIndex="30"></key>
</Mode>
</Layout>

```

Default Key Index

Use the images below as a reference when assigning keyIndex values in your CustomKeyboard.xml file.

1	2									3	4
5	6									7	8
9	10									11	12
13	14									15	16
17	18									19	20
31	32	21	22	23	24	25	26	27	28	29	30

Default keyIndex for Modes “abc”, “ABC”, and “SYM”

5										7	8
9	10									11	12
13	14									15	16
17	18									19	20
31	32	21	22	23	24	25	26	27	28	29	30

Default keyIndex for Mode “AID/NUM”

9	10									11	12
13	14									15	16
17	18									19	20
31	32	21	22	23	24	25	26	27	28	29	30

Default keyIndex for Mode “FUN”

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