

3. Downloading

TRANZ 330 Downloading

Before you can fully operate the TRANZ 330, its memory must contain both application code and parameter data. Application code provides the instructions the terminal needs to perform its operations and to respond to different events as they occur.

Parameter data is additional information specific to a terminal, host computer or merchant. Examples of parameter data include the terminal serial number, host computer phone number and the merchant identification number.

Because application code is usually lengthy, it should rarely be entered from the terminal's keypad. Instead, applications are transferred from a download computer or another terminal. Parameter data can be entered from the keypad, or it can be easily downloaded like application code.

Terminal-to-Terminal Direct Download

This is the fastest and simplest download method. Terminal-to-terminal downloads involve copying all the information from the memory of one terminal (master) into the memory of another terminal (slave). This results in two terminals with exactly the same information in each memory location. Because this method can transfer data at 19,200 baud (up to 64 times faster than telephone downloads), VeriFone recommends using terminal-to-terminal downloads in locations that have more than one TRANZ 330 terminal.

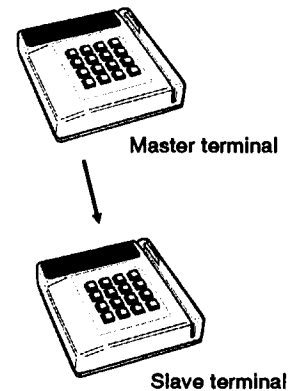


Figure 3-1 Terminal-to-Terminal Download

Before using this download method, you must have a "master" terminal with all of the application code and parameter data already stored in its memory. Use telephone downloading if you need to create a master terminal. The following instructions describe how to perform a terminal-to-terminal download. You will need a download cable (VeriFone part number 00490-00) for this procedure.

Master/Slave Considerations

The TRANZ 330 sending the information is called the master terminal; the other TRANZ 330 receiving the information is called the slave terminal.

Terminal-to-terminal downloads completely replace the memory in the slave terminal. You must manually enter the data in those memory locations specific to an individual terminal.

For example, memory location 001 is reserved for a terminal's serial number. If the number is not changed, this memory location will contain the serial number of the master terminal instead of the slave terminal.

Usually only the terminal's serial number will have to be changed. However, refer to your application reference manual to see if any other memory locations are affected by the download. Use the STORE or RECALL functions as described in Section 5 to change individual memory locations.

1. Connect one end of the terminal-to-terminal download cable to the 8-pin DIN connector (printer port) on the back of the master terminal.
2. Connect the other end of the cable to the 8-pin DIN connector on the back of the slave terminal.

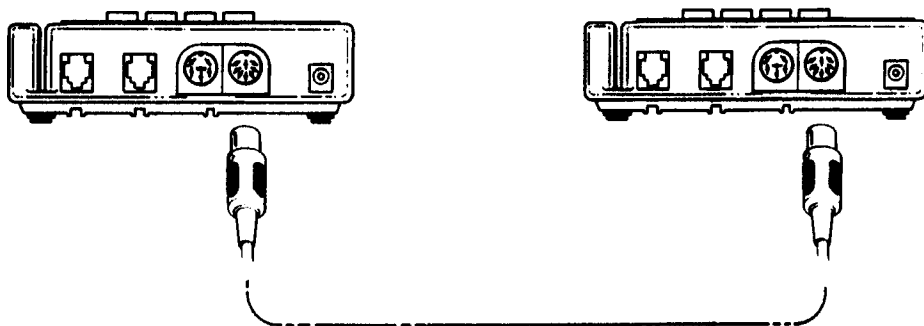


Figure 3-2 Terminal-to-Terminal Connections

3. Use the terminal's displayed prompts as a guide for the following procedure to download the application code and parameter data.

On the master terminal:

Display	Response
1. (idle prompt)	On the master terminal, press [FUNC/ENTER].

	Display	Response
	2. FUNCTION?	<p>Press [*] on the master terminal.</p> <p><i>Note: If memory location 017 contains a non-zero number, the memory will be password protected. You will be required to enter the system password before proceeding with the download. This is a feature designed to prevent unauthorized access to the data stored in the terminal.</i></p> <p><i>If memory location 017 contains a zero, the password is not required and you can proceed to step 10.</i></p>
	3. ENTER PASSWORD?	<p>Enter the system password to unlock memory information. The system password supplied with each terminal is Z66831 (press: [1] [ALPHA] [ALPHA] [6] [6] [8] [3] [1]). However, if you or the application programmer have already created a new password, enter the new password instead.</p>
	4. *****	<p>The terminal will display an asterisk for each key entered. After entering the complete password, press [FUNC/ENTER].</p>
	5. UNIT SEND	<p>The display panel will show UNIT SEND to indicate that the master terminal is ready to download to the slave terminal.</p>
On the slave terminal:	6. (idle prompt)	<p>Press the slave terminal [FUNC/ENTER] key.</p>
	7. FUNCTION?	<p>Press [#] on the slave terminal. The slave terminal will momentarily display UNIT RECEIVE indicating that it is ready to receive the information from the master terminal.</p> <p><i>Note: If memory location 017 contains a non-zero number, the memory will be password protected. You will be required to enter the system password before proceeding with the download. This is a feature designed to prevent unauthorized access to the data stored in the terminal.</i></p> <p><i>If memory location 017 contains a zero, the password is not required and you can proceed to step 10.</i></p>

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	Display	Response
	8. ENTER PASSWORD?	Enter the system password to unlock memory information. The system password supplied with each terminal is Z66831 (press: [1] [ALPHA] [ALPHA] [6] [6] [8] [3] [1]). However, if you or the application programmer have already created a new password, enter the new password instead.
	9. *****	The terminal will display an asterisk for each key entered. After entering the complete password, press [FUNC/ENTER].
On both terminals:	10. UNIT SENDING UNIT RECEIVING	Shortly after the UNIT RECEIVE message is displayed, the master terminal will display UNIT SENDING. The slave terminal's display will change to UNIT RECEIVING.
	11. SUCCESSFUL	When the download is complete, both terminals will display the SUCCESSFUL prompt indicating the download was a success. Press the [CLEAR] key on both terminals to display the idle prompt.

Direct PC Downloads

A direct PC download requires an IBM PC or compatible computer and ZONTALK or TCLOAD, proprietary software downloading programs developed by VeriFone.

A direct PC download uses a cable to transfer information directly from a PC to your TRANZ 330 terminal. The application code must be present on the PC. In addition, you will need the special download cable (IBM-PC version VeriFone part number 00446-05; IBM-AT version VeriFone part number 00446-04).

Refer to the ZONTALK or TCLOAD Reference Manual for specific instructions for connecting your TRANZ 330 terminal to the PC and performing a direct download.

Note: Since you cannot download parameter data with a direct PC download, you must either download this data with a telephone download, enter the data manually with the keypad using the STORE or RECALL functions as described in Section 5 or use a terminal-to-terminal direct download, described earlier in this section.

Telephone Download

If you do not have a PC running ZONTALK or TCLOAD at your location, you will have to call a remote download computer to request a download. Many TRANZ 330 terminals in the field receive application code and parameter data via telephone download.

With telephone downloading, you can choose either a full or partial download. A full download sends all application code and parameter data. A partial download sends only the data needed to upgrade the application or parameters already in a terminal. This is faster than completely replacing all of this information in your terminal. The contents of a partial download are determined by the ZONTALK software. However, if you do not have any application code, or if you are not sure if you do, request the full download.

When telephone downloading, TRANZ 330 terminals (versions 2.0 and greater) will prompt you for the correct data if there is nothing programmed in the following memory locations.

Memory

Location	Information
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000	Download computer's telephone number.
001	TRANZ 330 terminal serial number. This number is located on the bottom of the terminal.
019	Application ID number. Obtain this number from the person responsible for maintaining the application files in the download computer.
960	Speed selection. This memory location should contain a "2" for 1200 baud communication or a "1" for 300 baud communication. The speed selected must match the speed used by the download computer.

Download Prompts for Empty Memory Locations

The procedure for entering any of the above locations during a download is as follows:

Display	Response
1. (idle prompt)	Press [FUNC/ENTER]
2. FUNCTION?	Press [0].
2. DOWNLOAD?	Press [FUNC/ENTER]
3. DWNLD PHONE NUM? SERIAL NUM? APPLICATION ID? DNLD SPEED?	The TRANZ 330 will prompt you if any of the four memory locations are empty. Enter the phone number, serial number, application ID and download speed as necessary.

Continue with Step 4 on page 3-6.

On TRANZ 330 versions less than 2.0, you must verify the above memory locations are not empty prior to performing a telephone download. Use the RECALL function described in Section 5 to examine the data in these memory locations and to enter the correct information.

Caution: If the download computer is using ZONTALK version 2.31 or earlier and you enter the incorrect serial number or application ID, the download computer will cancel the download and clear all memory locations. If this occurs, use the RECALL or STORE function to enter the correct phone number, serial number, and application ID and try again.

Telephone Download Procedure

Display	Response
1. (idle prompt)	Press [FUNC/ENTER].
2. FUNCTION?	Press [0].
3. DOWNLOAD?	<p>If you want a complete download of application code and parameter data, press [FUNC/ENTER].</p> <p>If you want a partial download, press [*].</p>
4. DIALING	<p>Wait - the terminal is dialing the download computer.</p> <p>If the terminal displays WAITING FOR LINE, check the telephone line cord connection. If the cord is properly connected, the line may be busy. Press [CLEAR] to abandon the call, or wait until the line is free.</p>
5. WAITING FOR ANSR	The terminal is waiting for the download computer to answer.
6. COMMUNICATING	<p>Wait - The download computer is sending the requested data to your terminal.</p> <p><i>Note: If the remote download computer cannot locate your terminal's serial number in its data base, the prompt SERIAL # NOT FND will be displayed. Press [CLEAR] to cancel the download, check memory location 001 and try again. If the problem persists, contact the person responsible for maintaining the download computer.</i></p>
7. DOWNLOAD DONE	<p>The terminal successfully completed the download. Press [CLEAR] to return to the idle prompt.</p> <p>If UNSUCCESSFUL DL appears instead, the terminal was unable to complete the download. This could be due to bad telephone lines or other problems not related to the terminal.</p> <p>Press [CLEAR] and try the download procedure again. If the problem persists, contact the VeriFone Customer Hot Line.</p>

BuyPass Download Certain TRANZ 330 terminals, Eproms 3D2AU210, 3D2CU210, and 3D2EU340 support BuyPass downloads which allow for a set of keystrokes other than what is used in ZONTALK. To access this feature, follow the instructions below:

Display	Response
1. (idle prompt)	Press [FUNC] and [0].
2. DOWNLOAD?	Press either [1] or [2]. [1] = full download [2] = partial download
3. DWNLD PHONE NUM?	Enter the download phone number.
4. MERCHANT ID?	Enter the merchant ID number.
5. DIALING WAITING FOR ANSWER COMMUNICATING DOWNLOAD DONE	Wait until the download's done.

