



X-SCALE/X2 CONFIGURATION MANUAL

AUTOMATED TELLER MACHINES

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X2 CONFIGURATION MANUAL

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CONTENTS

BASIC OPERATION.....	1
MAIN KEYPAD.....	2
ON-SCREEN KEYPAD OPERATIONS.....	3
MENU-BASED OPERATIONS.....	4
ACCESSING MANAGEMENT FUNCTIONS.....	5
CHANGING DEFAULT PASSWORD (EC 246).....	5
MANAGEMENT FUNCTIONS OPTIO.....	7
MANAGEMENT REPORTS.....	8
REQUIRED PERIMETERS.....	10
OPTION 1 - TERMINAL CLOSE FUNCTIONS.....	9
TERMINAL CLOSE FUNCTIONS MENU OPTIONS OVERVIEW.....	11
SCHEDULE CLOSE.....	12
SEND TERMINAL TOTALS.....	13
TRIAL CLOSE/DAY CLOSE.....	14
TRIAL CASSETTE CLOSE.....	15
CASSETTE CLOSE.....	16
OPTION 2 - DIAGNOSTICS.....	19
DIAGNOSTICS FUNCTIONS.....	20
DISGNOSTICS MENU OPTIONS OVERVIEW.....	22
TERMINAL STATUS.....	23
CURRENT TERMINAL ERROR/ERROR HISTORY.....	24
RESET TERMINAL ERROR/CONFIGURATION SUMMARY.....	25
RESTORE DEFAULT PARAMETERS.....	26
SAVE/RESTORE PARAMETERS FROM AN EXTERNAL STORAGE DEVICE.....	27
TRANSACTION TOTALS/SYSTEM DIGNOSTICS.....	29
DISPENSER.....	30
CASH DISPENSER STATUS/PURGE.....	31
TEST DISPENSE/SHUTTER TEST	32
INJECT NEW CASSETTE ID.....	33
FORCE UNLOCK CASSETTE.....	34
DISPENSER TOTALS/RESET DISPENSER.....	35
CASSETTE PARAMETERS.....	36
CARD READER.....	38
CARD READER STATUS/TOTALS.....	38
SCAN CARD.....	39

CONTENTS

OPTION 2 - DIAGNOSTICS CONT...

PRINTER.....	40
PRINTER STATUS.....	40
RESET/TEST PRINTER/CONFIGURE PRINTER.....	41
MODEM/ETHERNET.....	42
DEVICE STATUS/TEST.....	43
MODEM TOTALS.....	44
CONFIGURE MODEM/TRITON CONNECT SETTINGS.....	45
CONFIGURE ETHERNET SETTINGS.....	47
MODEM SETUP STRING.....	49
KEYPAD.....	50
DEVICE STATUS/TEST/CLEAR SERIAL#_TAMPER ERRORS.....	50
GENERAL I/O DIAGNOSTICS.....	51
LED INDICATORS/AUDIO OUTPUT/HEADPHONE INTERRUPTS.....	51
CONFIGURE LED FLASH RATE/CONFIGURE LED BRIGHTNESS (RL2000).....	53
TCP/IP WIRELESS(IF USED).....	52

OPTION 3 - ELECTRONIC JOURNAL.....53

ELECTRONIC JOURNAL FUNCTIONS.....	54
ELECTRONIC JOURNAL MENU OPTIONS OVERVIEW.....	55
DISPLAY UNAUDITED RECORDS.....	56
DISPLAY LAST X.....	57
DISPLAY SELECTED RECORDS.....	58
CLEAR JOURNAL.....	60
ARCHIVE/DELETE JOURNAL.....	61
VIEW JOURNAL ARCHIVE.....	62
JOURNAL PROPERTIES.....	63
AUTO ARCHIVE.....	64

OPTION 4 - PASSWORD MAINTENANCE.....66

PASSWORD MAINTENANCE FUNCTIONS.....	67
PASSWORD MAINTENANCE MENU OPTIONS OVERVIEW.....	68
CHANGE USER PASSWORD.....	69
MODIFY USER ACCESS.....	70
ADD/REMOVE USER.....	71
TERMINAL USERS/USERS ACCESS REPORT.....	72

OPTION 5 - SYSTEM PARAMETERS.....73

SYSTEM PARAMETERS FUNCTIONS.....	74
SYSTEM PARAMETERS MENU OPTIONS OVERVIEW.....	75
DATE AND TIME.....	76

CONTENTS

OPTION 5 - SYSTEM PARAMETERS CONT...

ADVANCED SETTINGS (REGIONAL SETTINGS/REGIONAL AND LANGUAGE SETTINGS.....	77
SET REGION.....	79
SET NUMBERS.....	80
SET CURRENCY.....	82
SET TIME/DATE.....	84
VOLUME CONTROL.....	86
SHUTDOWN/RESTART TERMINAL.....	87
SELECT SCREEN FILE.....	88
SOFTWARE UPDATE.....	89
STATISTICS.....	91
SCHEDULE REBOOT.....	92

OPTION 6 - TERMINAL CONFIGURATION.....93

TERMINAL CONFIGURATION FUNCTIONS.....	94
TERMINAL CONFIGURATION MENU OPTIONS OVERVIEW.....	97
GENERAL PARAMETERS.....	98
TERMINAL ID.....	98
ZIP CODE.....	98
RESET SEQUENCE NUMBER.....	98
DEFAULT LANGUAGE.....	98
DEFAULT TRANSACTION TYPE.....	98
DEFAULT ACCOUNT TYPE.....	98
OUT OF SERVICE ON LOW PAPER.....	98
OUT OF SERVICE ON PRINTER ERROR.....	100
STATUS MONITORING.....	100
HEARTBEAT MESSAGE.....	100
HEARTBEAT DELAY PERIOD.....	100
COUPONS.....	101
COUPON.....	101
PROMPT.....	101
MIN. LEVEL (WITHDRAWAL AMOUNT).....	102
MAX. LEVEL (WITHDRAWAL AMOUNT).....	102
RANDOM.....	102
AWARD BASED ON ISO PROPERTIES.....	102
MESSAGE.....	102
LAYOUT (PRINTER).....	102
GRAPHIC (PRINTER).....	103
PRINT (PRINTER).....	103
CASSETTE (DISPENSED).....	103
COUNT (DISPENSED).....	103

CONTENTS

OPTION 6 - TERMINAL CONFIGURATION CONT...

TERMINAL MESSAGES.....	104
WELCOME MESSAGE.....	104
STORE MESSAGE.....	105
MARKETING MESSAGE.....	105
EXIT MESSAGE.....	105
TERMINAL OWNER.....	105
SURCHARGE MESSAGE.....	105
CASSETTE SETUP.....	106
MAXIMUM AMOUNT.....	106
MAXIMUM NON-CASH.....	107
MIX METHOD.....	107
FAST CASH.....	107
CASSETTE PARAMETERS.....	108
RELEARN BILL THICKNESS.....	108
ALL CASSETTES LOCKED/UNLOCKED.....	109
RETRACT CASH.....	109
ENABLE EXTENSION REJECT.....	109
ACTIVE CASSETTE.....	109
CASSETTE IN SERVICE.....	109
MULTIPLE AMOUNT.....	110
DOCUMENT TYPE.....	110
NON-CASH ITEM DESCRIPTION.....	110
SECONDARY ITEM DESCRIPTION.....	110
NOTE CONFIGURATION.....	111
BILL WIDTH/LENGTH.....	111
VALUE.....	111
VARIANT.....	112
CODE.....	112
ISO/SURCHARGE PROPERTIES.....	113
ENABLE/DISABLE SURCHARGE.....	113
AMOUNT.....	113
PERCENT.....	114
USE WHICHEVER IS LESSER/GREATER.....	114
ALLOW ONLY ISOS LISTED BELOW AS “ACCEPT”.....	114
ADD NEW.....	115
DELETE/EDIT.....	115
COMMUNICATION.....	116
PRIMARY PHONE #/HOST IP ADDRESS.....	117
BACKUP PHONE #/HOST IP PORT.....	117

CONTENTS

OPTION 6 - TERMINAL CONFIGURATION CONT...

PREDIAL/PERMANENT TCP/IP CONNECTION.....	117
ENABLE COMMUNICAITON HEADER.....	118
USE 12-DIGIT SEQUENCE NUMBER.....	118
AMOUNT TYPE.....	18
COMMUNICATION PROTOCOL.....	119
COMMUNICATION MESSAGE FORMAT.....	119
NUA NUMBER/HOST RESPONSE TIMEOUT.....	119
ENABLE PERSISTENT REVERSALS.....	119
ENABLE REVERSALS FOR PROTOCOL ERRORS.....	119
Ads / GRAPHICS.....	120
ADD NEW.....	121
DELETE/EDIT.....	124
MOVE UP/DOWN.....	125
GRAPHIC EXAMPLES.....	126
OPTIONAL SCREENS.....	129
ACCOUNT/TRANSACTION.....	128
LANGUAGE SELECTION.....	128
SURCHARGE MESSAGE.....	128
RECEIPT OPTION.....	128
OPTIONAL SCREEN BUTTONS.....	129
ACCOUNT/TRANSACTION.....	130
FAST CASH AMOUNTS.....	130
PURCHASE SELECTIONS.....	130
ENABLING/DISABLING OPTIONAL SCREEN BUTTONS.....	130
PREVIEWING OPTIONAL SCREEN BUTTON CONFIGURATION.....	130
TRITON CONNECT.....	131
PRIMARY PHONE #/HOST IP ADDRESS.....	132
BACKUP PHONE #/ HOST IP PORT.....	132
ALARM MONITOR (PRIMARY)/ALARM IP ADDRESS.....	132
ALARM MONITOR (BACKUP)/ALARM IP PORT.....	133
MAX RETRIES.....	133
REDIAL DELAY.....	134
ENABLE TRITON CONNECT.....	134
ENABLE CALL BACK.....	134
ENABLE SCHEDULED JOURNAL CALLS.....	134
CALL AT NUMBER OF JOURNAL RECORDS.....	134
CALL AT LOW CASH THRESHOLD.....	134
ENTER NEW ACCESS CODE.....	134
EMV CONFIGURATION.....	135
EMV PROCESSING.....	136
EMV APPLICATION SETTINGS.....	136

CONTENTS

OPTION 6 - TERMINAL CONFIGURATION CONT...

ICC LATCHING.....	137
NON-ICC TRANSACTIONS.....	137
ICC FALLBACK TO MAGNETIC STRIPES.....	137
TERMINAL EMV CONFIGURATION.....	137
LAST TRANSACTION'S EMV DATA.....	137

OPTION 7 - KEY MANAGEMENT.....138

KEY MANAGEMENT FUNCTIONS.....	139
KEY MANAGEMENT MENU OPTIONS OVERVIEW.....	140
ENTER MASTER KEYS.....	141
ENTER MAC MASTER KEYS.....	142
ENTER PIN MASTER KEYS.....	144
DOWNLOAD WORKING KEYS.....	146
CHECK DIGITS.....	147
CHANGE PASSWORDS.....	148

OPTION 8 - TERMINAL STATUS.....150

TERMINAL STATUS FUNCTIONS.....	151
TERMINAL STATUS MENU OPTIONS OVERVIEW.....	152
CURRENT TERMINAL ERROR/TERMINAL ERROR HISTORY.....	153
RESET TERMINAL ERROR/CONFIGURATION SUMMARY.....	154
RESTORE DEFAULT PARAMETERS.....	155
SAVE/RESTORE PARAMETERS TO/FROM EXTERNAL STORAGE.....	157

OPTION 9 - LANGUAGE.....158

APPENDIX A - SOFTWARE LICENSE AGREEMENT.....A-1

APPENDIX B - TERMINAL ERROR CODES.....B-1

SUPPLEMENTS (SOFTWARE RELEASE NOTES - COUNTRY(S) SPECIFIC)

BASIC OPERATION

Main Keypad

The entry of numeric characters via the main keypad is straightforward: press the desired key.

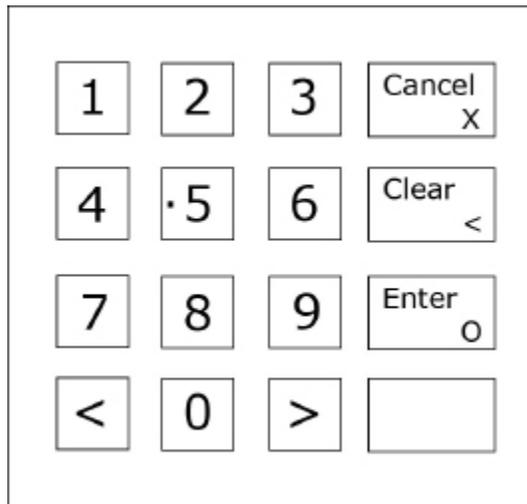
Press the “Cancel” key to abort an action or clear the whole numeric entry.

Press the “Clear” key to erase the numeric entry one character at a time.

Press the “Enter” key to execute an entry.

The blank key is considered the “Control” key. Use the “Control” key to enter Management Functions.

The Arrow keys “<” and “>” navigate the cursor on the display.



On-Screen Keypad Operation

With certain functions, the on-screen keypad is required. The keypad will pop-up when the applicable function is chosen. Use the keypad to enter text characters into the dialog boxes that are displayed by the Management Functions. Use the keys on the keypad, described below, to navigate and enter the required data:

Arrow Keys - Moves left and right

“8” Key - Moves up

“0” Key - Moves down

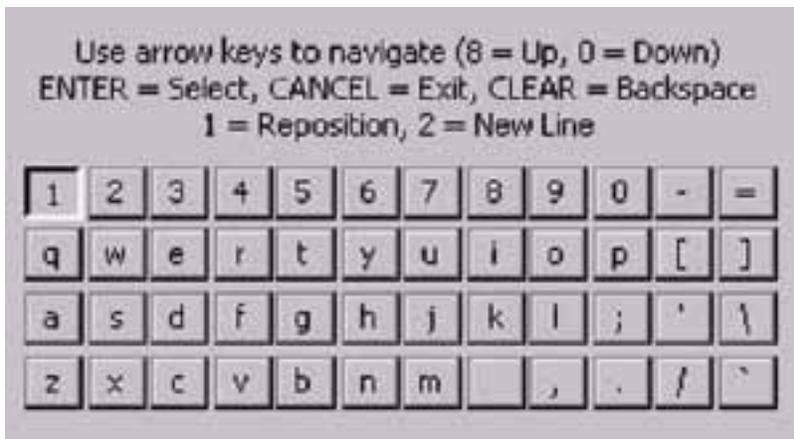
“Enter” - Selects the highlighted key entry

“Control” - Switches between upper and lower case characters

“Clear” - Backspace

“1” - Repositions the keypad to another location on the display

“2” - Positions the cursor on a new line



NOTE: An external keyboard can be plugged into a USB port on the docking board if needed.

Menu-Based Operations

The terminal operates as a menu driven system. Messages and menu options presented on the LCD display screen guide the user's actions. The desired menu option is selected by pressing the "Enter" key on the keypad. For the purpose of security many screens timeout after a preset time interval, usually 30-45 seconds. The timeout length may vary depending on the function being performed.

When a screen timeout occurs, a screen is presented which asks the user if more time is needed. If the user chooses NO, the Customer Welcome screen will be presented. If YES is chosen, the user is returned to the function that was active prior to the timeout. If the user does not make a selection within an additional 30-second countdown period, the terminal will automatically go to the Customer Welcome screen.

Shortly after the unit is turned on, the top menu will be displayed. An example top menu is shown below. From the top menu, you can either:

1. Activate the terminal to perform customer transactions by pressing the key to indicate CUSTOMER TRANSACTIONS.
2. Enter the terminal system management area by pressing the key to indicate MANAGEMENT FUNCTIONS. *Note: You will need an appropriate password to enter the Management Functions menu.*

If you do not select a menu choice within 30 seconds, the terminal will automatically default to the Customer Welcome screen. *A benefit of this feature is that in the event of a power interruption, the terminal will automatically begin accepting customer transactions shortly after the power is restored.*



Accessing the Management Functions Menu

After initial setup, when the Customer Welcome screen is displayed, you can access the Management Functions menu by:

1. Press the blank “Control” key three (3) times then press the “1” key on the keypad. After a moment the “Security Login” screen will be displayed.



2. Enter your password and press “Enter”. You must enter the correct password in the dialog box that appears when the Management Functions options is selected. The password will consist 4-12 digits.

When a valid login is entered, the Main Menu screen will be displayed.

Changing Default Passwords

With the release of newer software, you will experience a new error code. Error Code 246 has been created for when the terminal’s Master Password is in its default state. The terminal will detect this condition and go out of service.

On the “Out Of Service” screen, no error information will be displayed. The following is a screen capture of this state. This error code will not clear until the Master Password is changed from its default state.

Follow the steps on the next page for changing the default password and clearing the error.

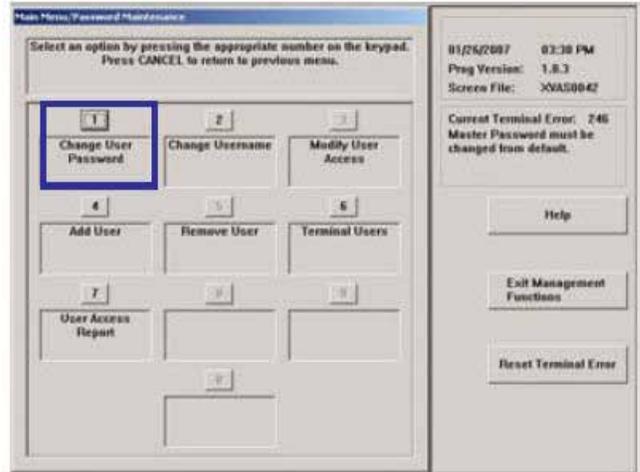


Changing Default Passwords cont...

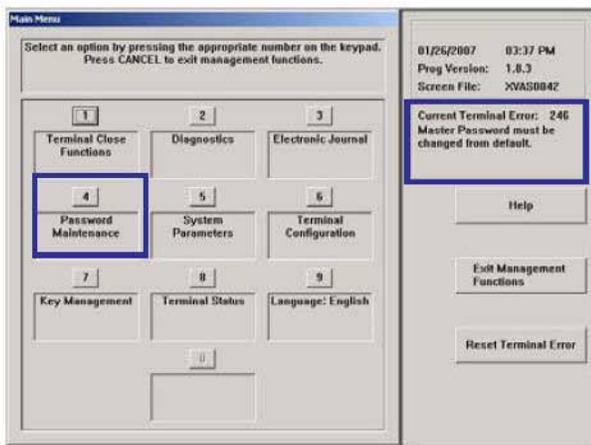
1. Enter Management Functions. Enter the default password.



3. Select option 1 - Change User Password.



2. The Main Menu appears. Error code 246 and it's description "Master password must be changed from default" appears at right. Select option 4 - Password Maintenance.



4. Enter the new password.

Note: The terminal password consists of a 2-digit ID code and a password of 4-12 digits. '00' is the Master ID code and cannot be changed. Only enter the password digits.

For Example: If you enter '5566', then the Master Password will be changed to '005566'. If you enter '005566' then the Master Password will be '00005566'.



5. Exit out of Management Functions. The terminal Master Password has been changed.

Management Functions Options

Some Management Functions may not be available or applicable. In this case, the option may be “grayed out” or otherwise disabled.

Once the Main Menu has been entered, you may perform any of the functions allowed by the type of password used (access level).

The Main Menu screen allows the service provider/terminal operator to access the following Management Functions (determined by password access level):

Close Functions - This function is available however it is not relevant on this model.

Diagnostics - Used to perform terminal hardware testing and to view test results

Electronic Journal - Used to manage the ATM's journal functions, such as display/print, archive and delete.

Password Maintenance - Used to add/delete users and to modify terminal access privileges

System Parameters - Used to shut down or restart the terminal, update terminal software, and set terminal time/date.

Terminal Configuration - Used to view/edit terminal operating parameters such as terminal ID, surcharging, status monitoring, ads/graphics and communication setup.

Key Management - This function is available however it is not relevant on this model.

Language - Press this option repeatedly to cycle through the available languages. The current language displayed is used for all management function screens.

Favorites - Used to manage the user's most commonly accessed functions.

Management Reports

Many Management Functions, such as Close, Journal and Diagnostics functions produce a report summarizing the results of the operation. Most reports are displayed in a Management Report dialog, which can viewed on screen, printed to the receipt printer (if applicable) or saved to an external memory device (USB jumpdrive).

Note: If saving to an external memory device, the device must be installed in the USB port BEFORE saving to the device.

The buttons on the Management Report dialog let you perform the following actions:

Page Up - Scrolls the report up a maximum of one full page.

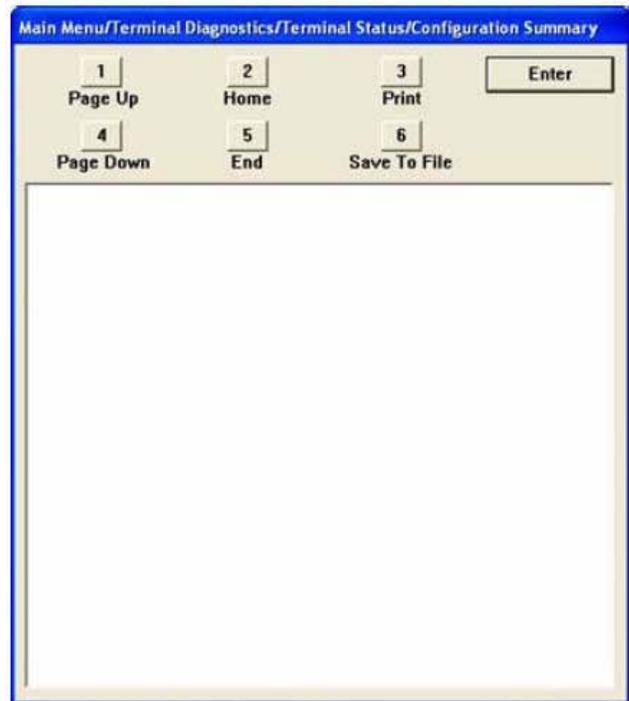
Home - Moves directly to the first page of the report.

Print - Sends the report to the terminal receipt printer for hardcopy output.

Page Down - Scrolls the report down a maximum of one full page.

End - Moves directly to the last page of the report.

Save to File - Saves the report as a text file to an external memory device.



Required Parameters

The following Parameters minimally need to be configured to enable a “live” transaction:

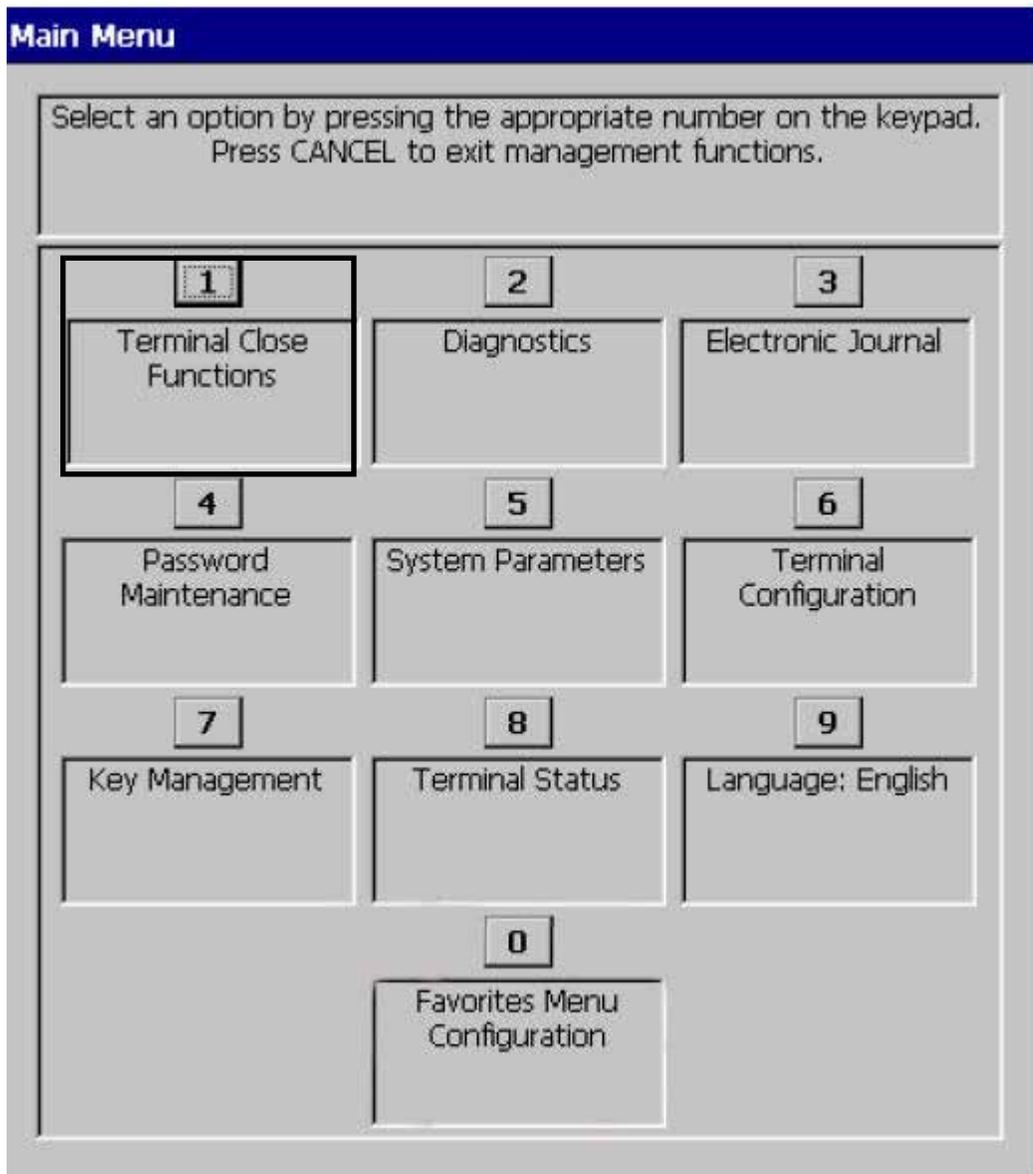
- Terminal ID Number
- Pin Working
- Communication Properties
- Pin Master Key

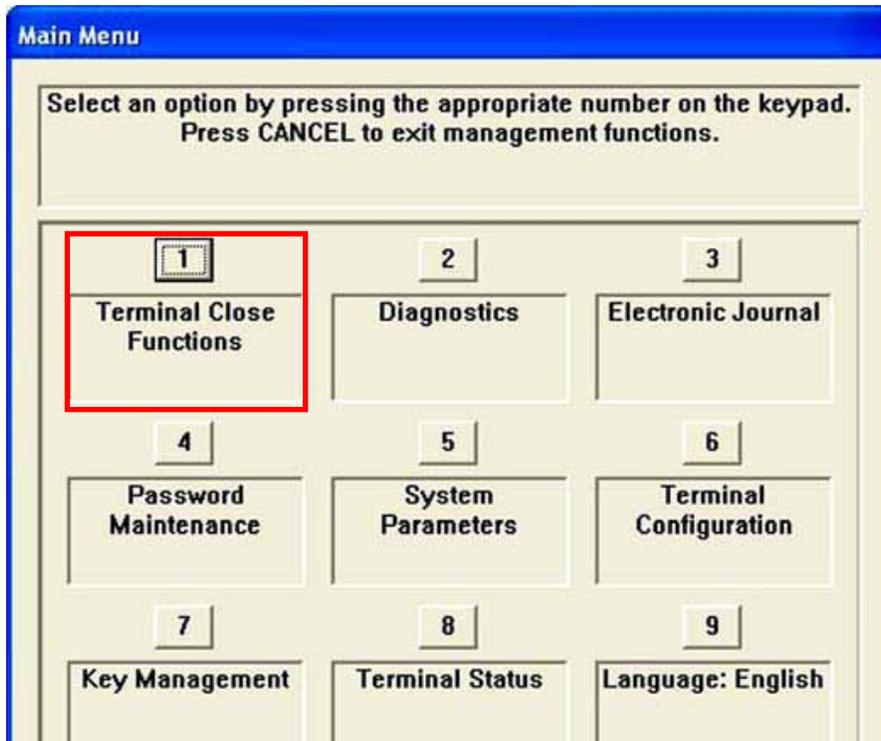
These parameters do not take in to account any additional processor requirements. Refer to the processor’s setup requirements for any additional parameter settings.

Note: Upon completion of the ATM installation and terminal configuration, recommend accessing the Diagnostics menu to check the status and test various hardware items (Dispenser, Printer, Card Reader, etc...).

OPTION 1

TERMINAL CLOSE FUNCTIONS





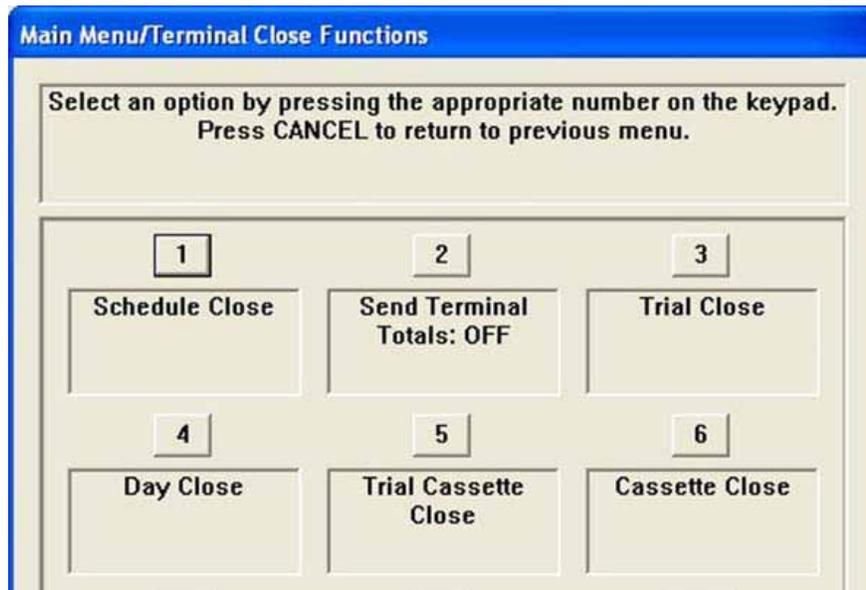
TERMINAL CLOSE FUNCTIONS

TERMINAL CLOSE FUNCTIONS MENU OPTIONS OVERVIEW.....	11
SCHEDULE CLOSE.....	12
SEND TERMINAL TOTALS (ON/OFF).....	13
TRIAL CLOSE/DAY CLOSE.....	14
TRIAL CASSETTE CLOSE.....	15
CASSETTE CLOSE.....	16

TERMINAL CLOSE FUNCTIONS

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Close Functions option by pressing <1> on the keypad.



DESCRIPTION:

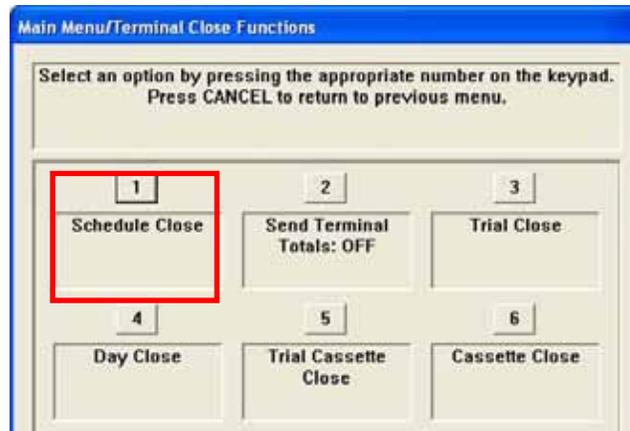
The Terminal Close menu allows the terminal operator to perform the following functions:

- **SCHEDULE CLOSE**- Used to enable/disable and set time for automatic day closes.
- **SEND TERMINAL TOTALS**- Used to enable/disable automatic transmission of terminal close totals to your transaction processing service provider. Press this button to cycle the function between **ON** or **OFF**.
- **TRIAL CLOSE**- Used to initiate a trial day close.
- **DAY CLOSE**- Used to initiate a day close.
- **TRIAL CASSETTE CLOSE**- Used to provide a receipt/record of the cassette(s) balance.
- **CASSETTE CLOSE FUNCTIONS**- Used to access a menu of cassette close and cassette configuration functions.

SCHEDULE CLOSE

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Close Functions option by pressing <1> on the keypad.
From the Terminal Close Functions screen, select the SCHEDULE CLOSE option by pressing <1> on the keypad.



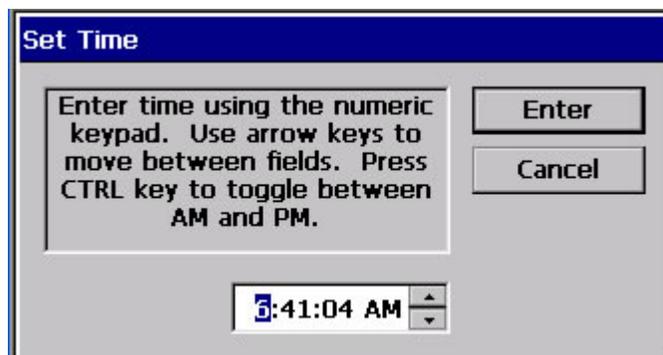
DESCRIPTION:

The Schedule Close function allows you to enable/disable scheduled closes and to specify when that will be performed.

- Press <1> on the keypad to either enable (check) or disable (uncheck). When enabled, menu option (2) will be accessible.
- Press <2> on the keypad.

Use the keypad to enter hours, minutes, and seconds. Use the <ARROW> keys on the keypad to move between the fields. Press the <CTRL> key to toggle between AM and PM at which the scheduled close is to be performed. The current time setting appears in a small text window.

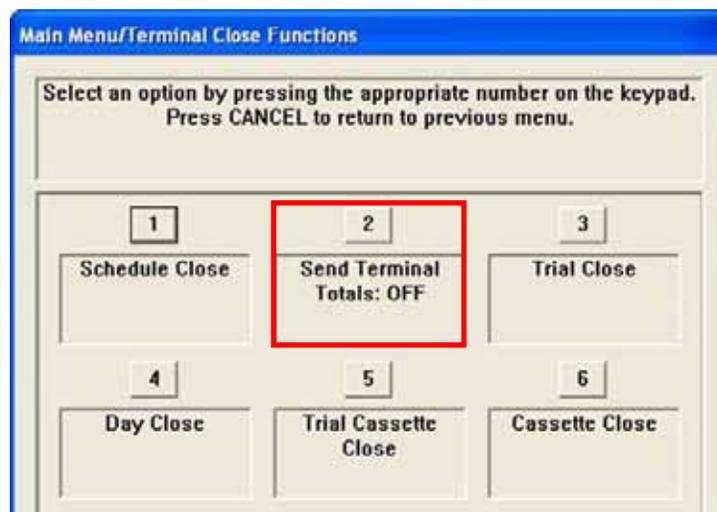
Press <ENTER> to accept the settings and return to the Terminal Close Functions main window.



SEND TERMINAL TOTALS

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Close Functions option by pressing <1> on the keypad. From the TERMINAL CLOSE FUNCTIONS screen, press <2> on the keypad to toggle the state of the Send Terminal Totals option between <ON> and <OFF>.



DESCRIPTIONS:

This function allows turning ON or OFF the SEND TERMINAL TOTALS option. The current state of the feature is shown - **ON/OFF**.

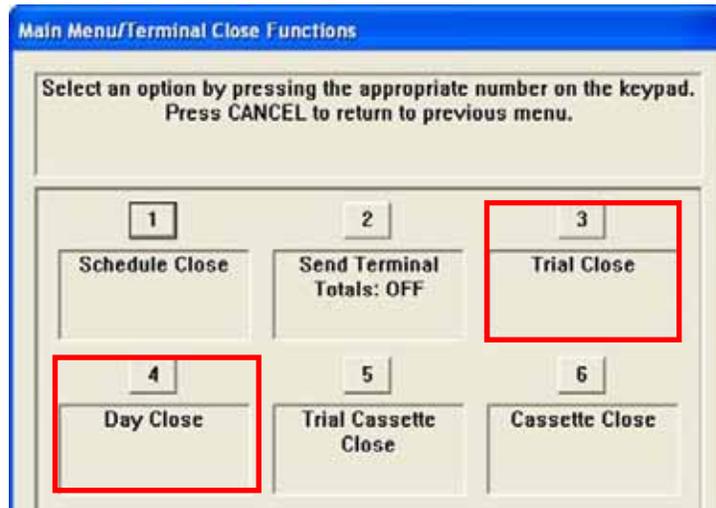
When the option is ON, the terminal will send accumulated totals information to your transaction processing service provider during the Day Close operation. If the option is set to OFF, these totals will not be sent.

Terminal totals include the total value of all withdrawal, inquiry, and transfer transactions that have occurred since the last Day Close operation (see the description of the Day Close function for additional information).

TRIAL CLOSE FUNCTION

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Close Functions option by pressing <1> on the keypad.
 From the Terminal Close Functions screen, select the Trial Close option by pressing <3> on the keypad.
 From the Terminal Close Functions screen, select the Day Close option by pressing <4> on the keypad.



DESCRIPTION:

The Trial Close function is used during the daily close procedure. It performs the same function as the Day Close, except that the totals are not cleared.

The report printed by the Trial Close is used to balance your cash dispenser before you actually balance with your processor. It contains accumulated transaction totals obtained from the processor and from the terminal itself. The report shows the total number of customer transactions (withdrawals, inquiries, and transfers) recorded by the processor and the terminal since the last day close was performed. The two-column format allows the host and terminal totals in each category to be easily compared. The Settlement \$ value is the host processor's record of the total currency dispensed from the terminal since the last day close was performed.

The **Day Close** function is used to complete daily balancing of the cash dispenser with the processor. The Day Close is performed to clear the totals and switch to the next business day. This function prints a report summarizing all of the transactions performed since the last Day Close was completed. The information includes a total of all transactions. This function also calls your processor's host system and downloads the totals it has accumulated for the current business day.

The Day Close is normally completed as the final step in the daily balancing process. You may wish to perform a Trial Close before the Day Close, to view the report without clearing the accumulated transaction totals.

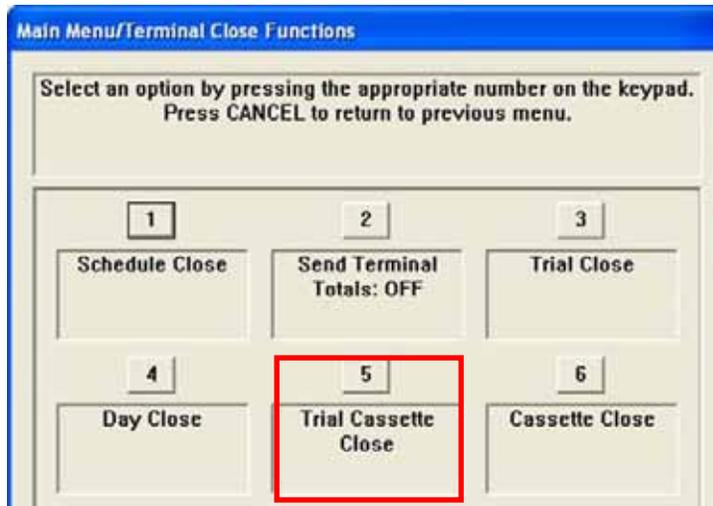
The report is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.

TRIAL CASSETTE CLOSE

ACCESS INSTRUCTIONS:

From the Terminal Close Functions screen, select the Trial Cassette Close option by pressing <5> on the keypad.

Select which cassette(s) to include in the Trial Cassette Close report (a checkmark denotes selected cassette). Press <ENTER>.



DESCRIPTION:

The Trial Cassette Close function is used to complete the balancing of a specific currency cassette(s) of the terminal without resetting the values to zero. This function displays a report summarizing all activity on the cash dispenser for the selected cassette since the last cassette close was completed. The report includes a total of all transactions.

The Trial Cassette Close is normally used to provide a quick look at the current status of the cassette(s). Completing a Trial Cassette Close **DOES NOT** clear the cassette totals from the terminal.

The Trial Cassette Close report is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.

CASSETTE CLOSE

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Close Functions option by pressing <1> on the keypad. From the Terminal Close Functions screen, select the Cassette Close option by pressing <6> on the keypad (or select Cassette Close on the Rear Service Panel, if applicable).

DESCRIPTION:

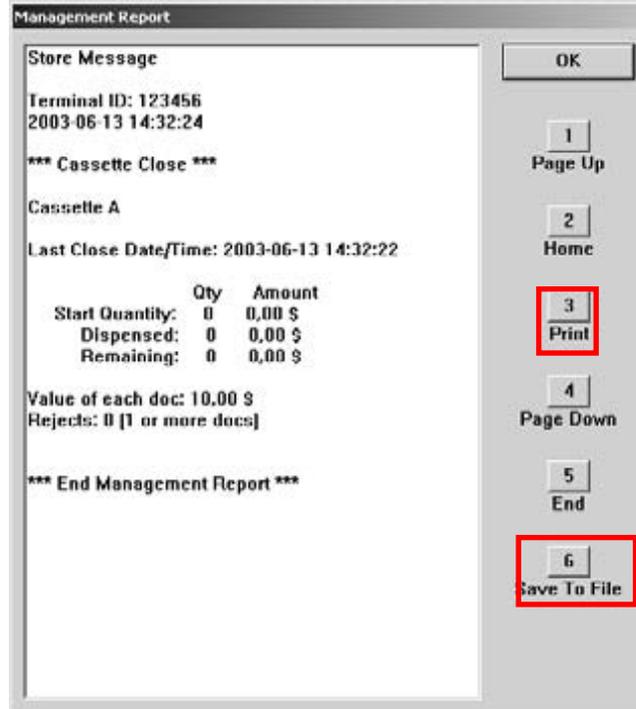
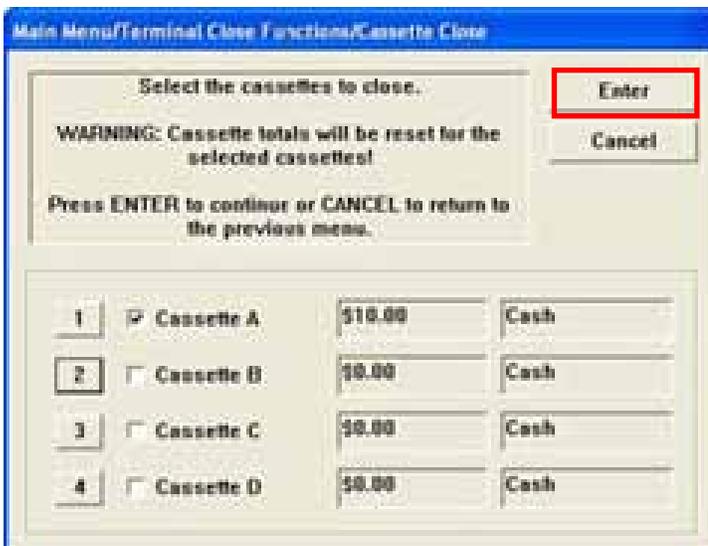
The Cassette Close function is used to complete the balancing of a specific currency cassette(s) of the terminal. This function displays a report summarizing all activity on the cash dispenser for the selected cassette(s) since the last cassette close was complete. The report includes a total of all transactions.

The Cassette Close is normally completed as the final step in balancing a currency cassette before removing it to be replenished. Completing a cassette close **CLEAR**s the cassette totals from the terminal.

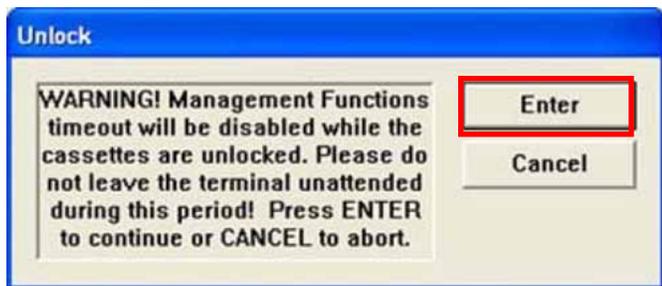
The Cassette Close report is displayed in a Management Report dialog which can be printed to the receipt printer or saved to an external memory device.

1. Select the cassette(s) to Close. A checkmark identifies which cassette(s) are selected. Press <ENTER>.

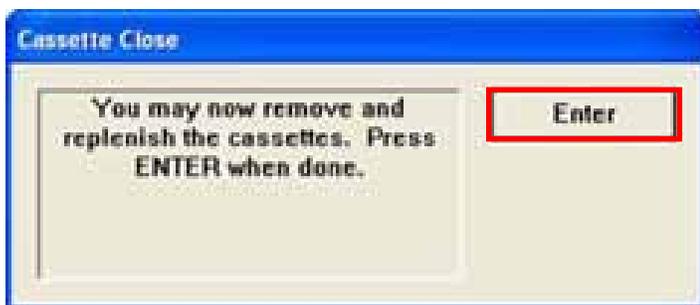
2. A Close report is presented to be either printed or saved. Close operation also resets the number of bills loaded to zero (0). Press <ENTER> to continue.



3. NOTE: For NMD-50/100 only, cassettes will automatically unlock.

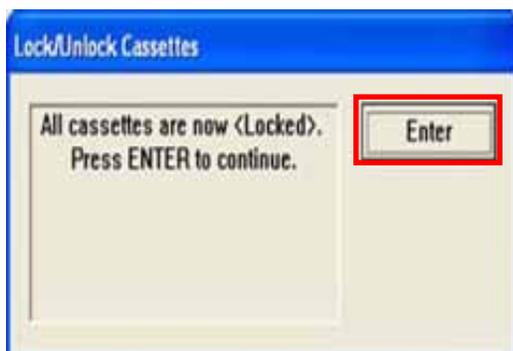


Remove and replenish selected cassette(s). After reinserting cassette(s), press <ENTER>.



4. NOTE: For NMD-50/100 only, cassettes will automatically lock. Press <ENTER>.

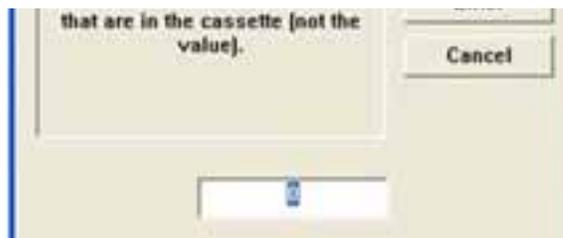
For the NMD-50/100 dispensing mechanisms, the cassettes must be **LOCKED** and **IN-SERVICE** for normal operation.



5. Place selected cassette(s) In Service (Multi-cassette dispensers only). Press <ENTER> to continue.



6. Enter Cassette Quantity (# of notes, not value) for selected cassette. Press <ENTER> to accept the entry. Repeat for remaining cassette(s).



7. A Trial Cassette Close report appears to be printed or saved. Press <ENTER> after printing and retain copy for starting point reference.



CASSETTE CLOSE

(SEND TERMINAL TOTALS)

OPERATOR SERVICE PANEL (MAIN MENU)

TERMINAL CLOSE
TRIAL CLOSE
DAY CLOSE
TRIAL CASSETTE CLOSE
CASSETTE CLOSE _____

DIAGNOSTICS
CURRENT TERMINAL ERROR
DISPENSER _____
CARD READER STATUS _____
PRINTER
MODEM/ETHERNET
KEYPAD

ELECTRONIC JOURNAL
DISPLAY UNAUDITED RECORDS
DISPLAY LAST X
RESET TERMINAL ERROR
SHUT DOWN THE TERMINAL
RESTART THE TERMINAL

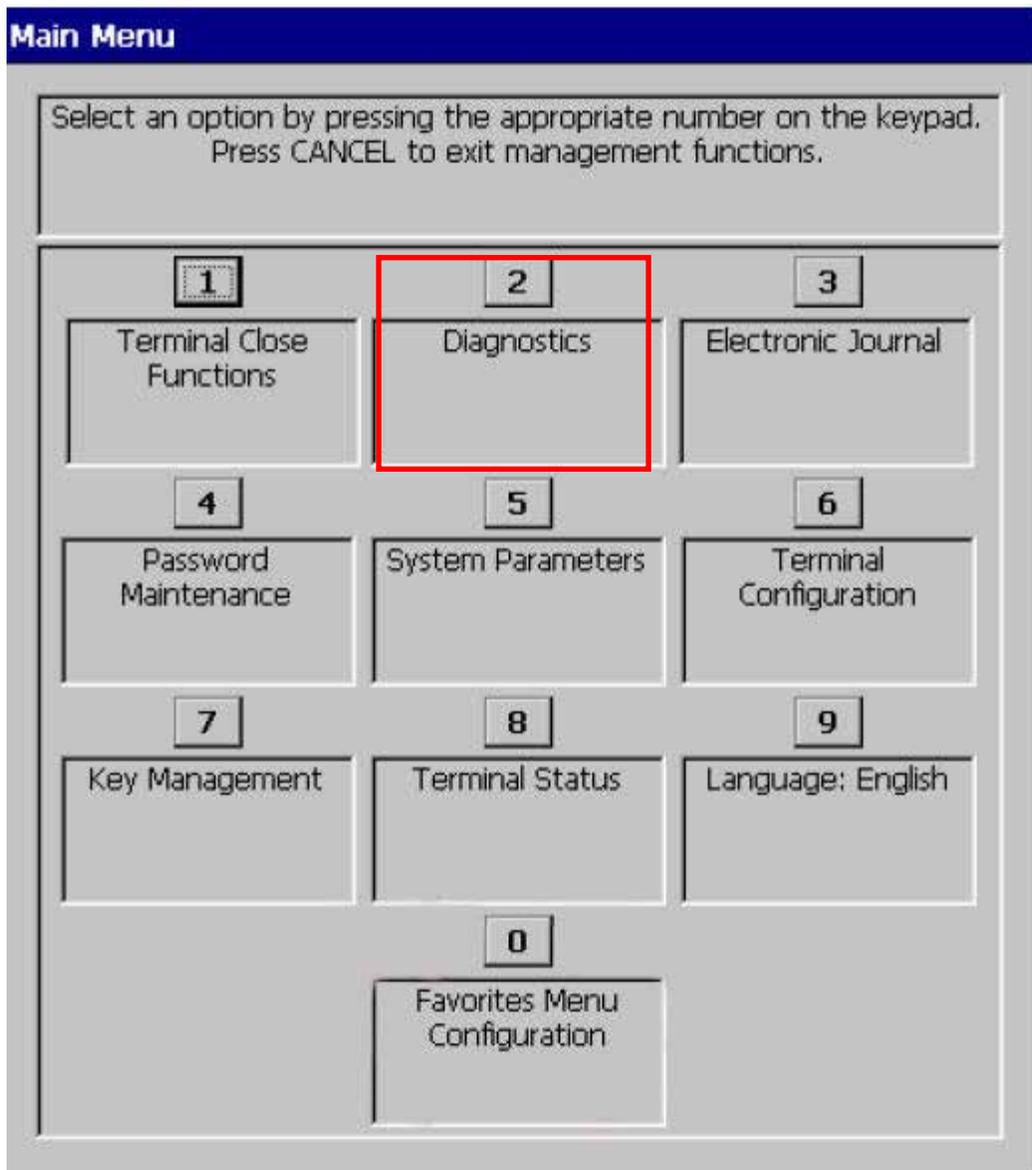
SELECT CASSETTE(S) TO CLOSE
CLOSE REPORT
REMOVE/REPLENISH CASSETTE(S)
REINSTALL CASSETTE(S)
PLACE CASSETTE(S) IN-SERVICE
ENTER CASSETTE QUANTITY
TRIAL CASSETTE CLOSE REPORT

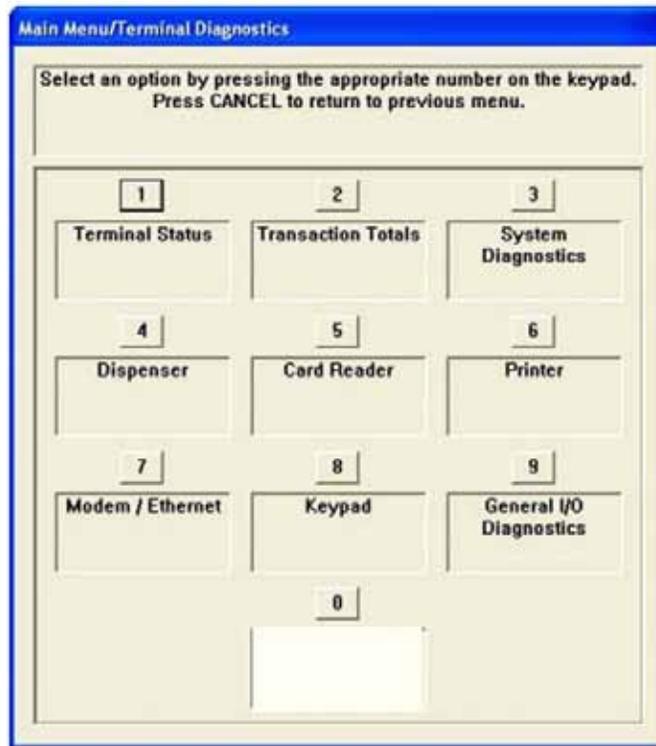
PURGE
TEST DISPENSE

CLEAR JOURNAL
JOURNAL RECORDS

OPTION 2

DIAGNOSTICS





DIAGNOSTICS FUNCTIONS

DIAGNOSTICS FUNCTIONS MENU OPTIONS.....	22
TERMINAL STATUS.....	23
CURRENT TERMINAL ERROR/ERROR HISTORY.....	24
RESET TERMINAL ERROR/CONFIGURATION SUMMARY.....	25
RESTORE DEFAULT PARAMETERS.....	26
SAVE/RESTORE PARAMETERS USING AN EXTERNAL STORAGE DEVICE.....	27
TRANSACTION TOTALS/SYSTEM DIAGNOSTICS.....	29
DISPENSER.....	30
CASH DISPENSER STATUS/PURGE.....	31
TEST DISPENSE.....	24
INJECT NEW CASSETTE ID (NMD ONLY).....	33
FORCE UNLOCK CASSETTE (NMD ONLY).....	34
DISPENSER TOTALS/RESET DISPENSER.....	35
CASSETTE PARAMETERS.....	36

CARD READER.....	38
CARD READER STATUS/TOTALS.....	38
SCAN CARD.....	39
PRINTER.....	40
PRINTER STATUS.....	40
RESET/TEST PRINTER/CONFIGURE PRINTER.....	41
MODEM/ETHERNET.....	42
DEVICE STATUS/TEST.....	43
MODEM TOTALS.....	44
CONFIGURE MODEM/TRITON CONNECT SETTINGS.....	45
CONFIGURE ETHERNET SETTINGS.....	47
MODEM SETUP STRING.....	49
KEYPAD.....	50
DEVICE STATUS/TEST.....	50
GENERAL I/O DIAGNOSTICS.....	51
LED INDICATORS/AUDIO OUTPUT/HEADPHONE INTERRUPTS/CONFIGURE LED FLASH RATE.....	51
TCP/IP WIRELESS.....	52

DIAGNOSTICS

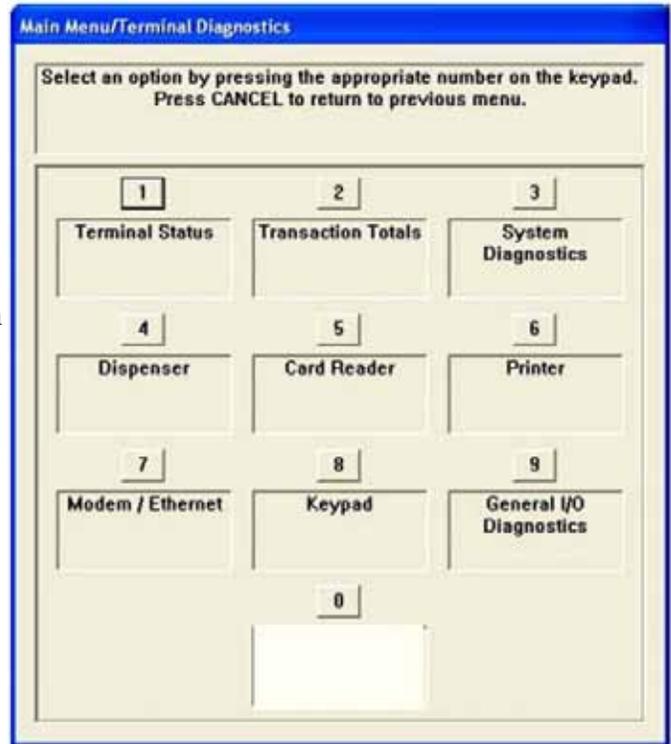
ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Diagnostics option by pressing <2> on the keypad.

DESCRIPTION:

The Diagnostics option allows the terminal operator to perform the following functions:

1. **TERMINAL STATUS**- Displays current terminal status, configuration summary, and parameter save/restore functions.
2. **TRANSACTIONS TOTALS**- Displays terminal transaction totals since the last Day Close.
3. **SYSTEM DIAGNOSTICS**- Displays a dialog that allows the terminal operating system properties to be viewed.
4. **DISPENSER**- Allows user to check dispenser status, perform diagnostics, and configure cassette parameters.
5. **CARD READER**- Displays card reader status and test functions.
6. **PRINTER**- Displays printer status and test functions.
7. **Modem/Ethernet**- This function allows user to view Modem/Ethernet device status, test functions, and configure if required.
8. **KEYPAD**- Displays keypad status and tests terminal key functionality. When EPP (keypad) displays tamper/serial errors, activates an option <4> to reset error.
9. **GENERAL I/O DIAGNOSTICS**- Provides access to perform diagnostics on LED indicators, audio output, and headphone interrupts.
- *0. **TCP/IP WIRELESS**- This function appears when the terminal is using TCP/IP wireless communication as its protocol (**Terminal Configuration** > **Communication** setup). The available options provide signal strength indication and connect/disconnect ability.

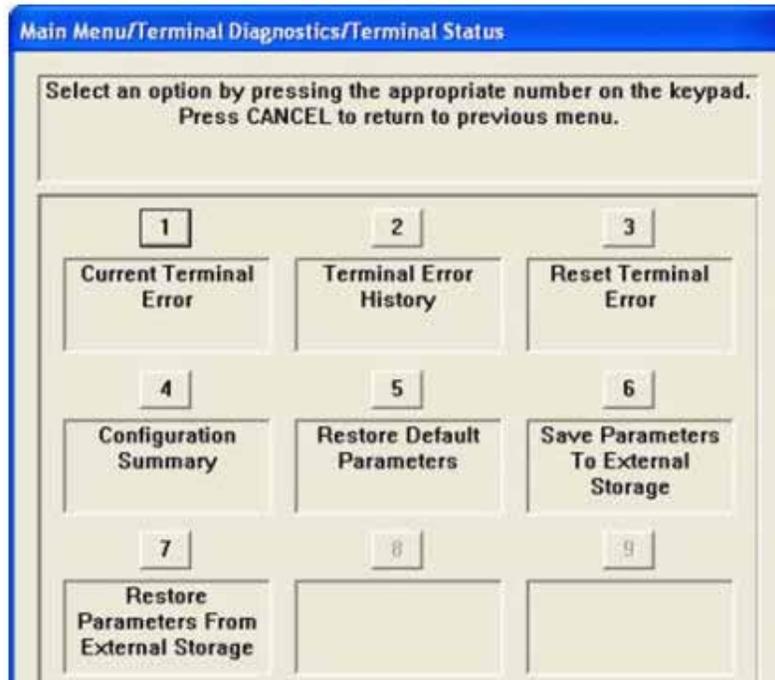


***NOTE:** This option was available for wireless RL5000 units equipped with the LandCell wireless modems, which Triton no longer offers. For wireless-capable option, contact your account representative.

TERMINAL STATUS

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Terminal Status option by pressing <1> on the keypad.



DESCRIPTION:

The Terminal Status option allows the terminal operator to perform the following functions:

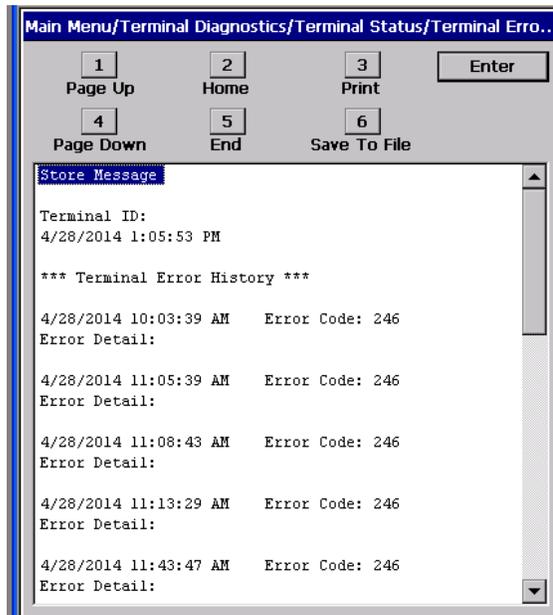
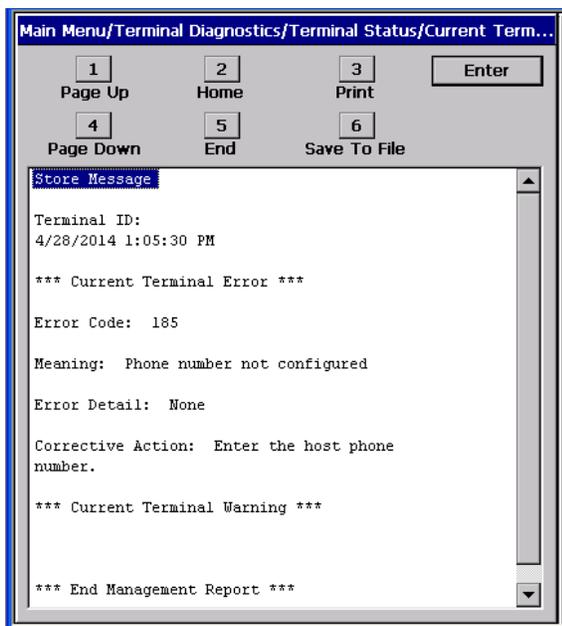
1. **CURRENT TERMINAL ERROR**- Displays current error status of the terminal.
2. **TERMINAL ERROR HISTORY**- Displays a log of all terminal error events.
3. **RESET TERMINAL ERROR**- Allows user to attempt to reset the current terminal error.
4. **CONFIGURATION SUMMARY**- Displays a comprehensive report of all terminal configuration information.
5. **RESTORE DEFAULT PARAMETERS**- This function restores the factory default parameter settings.
6. **SAVE PARAMETERS TO EXTERNAL STORAGE**- Allows user to save all current terminal parameters to an external memory device (jump drive).
7. **RESTORE PARAMETERS FROM EXTERNAL STORAGE**- Allows user to restore terminal parameters that were previously saved to an external memory device (jump drive).

CURRENT TERMINAL ERROR/ERROR HISTORY

ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Current Terminal Error option by pressing <1> on the keypad.

From the Terminal Status screen, select the Terminal Error History option by pressing <2> on the keypad.



DESCRIPTION:

The Current Terminal Error function displays a management report that shows the most current terminal status error code. The error code is listed with a short description of the condition.

The report is displayed in a management report dialog, which can be printed to the receipt printer or saved to an external device.

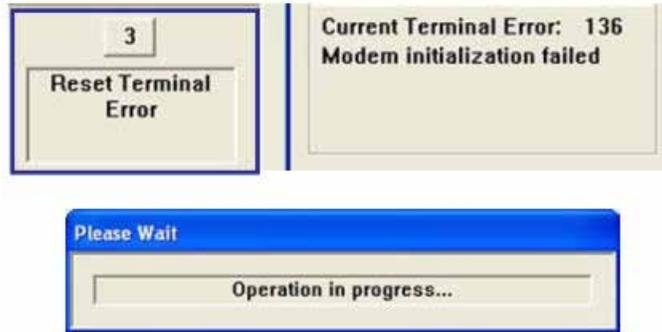
The Terminal Error History function displays a management report showing all status / error codes that have been recorded since the initial terminal setup. A short description of each code is provided. The history of terminal status / error code will not be cleared when the ‘Reset Terminal Error’ function is used.

The report is displayed in a management report dialog, which can be printer to the printed or saved to an external memory device.

RESET TERMINAL ERROR

ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Reset Terminal Error option by pressing the <3> on the keypad.



DESCRIPTION:

The Reset Terminal Error function attempts to reset the current terminal error. If successful, the current terminal error will show: Zero (0).

CONFIGURATION SUMMARY

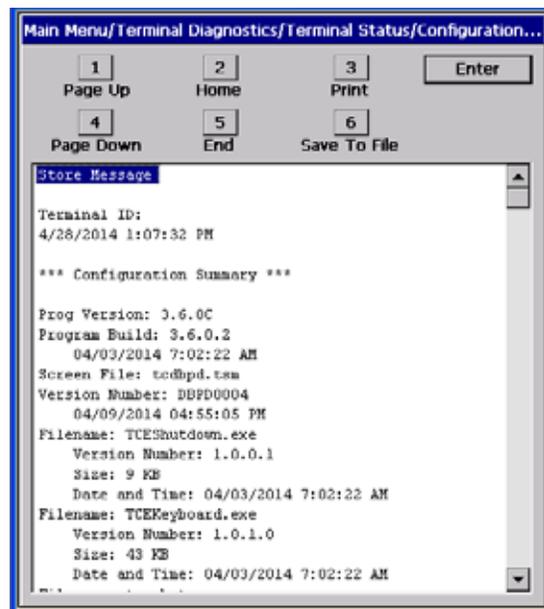
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Configuration Summary option by pressing the <4> on the keypad.

DESCRIPTION:

The Configuration Summary function displays a management report of the current terminal configuration and hardware status information. Information is provided for all terminal configuration areas, as well as dispenser, printer, modem and keypad status.

The report is displayed in a management report dialog, which can be printed to the receipt printer or saved to an external memory device.



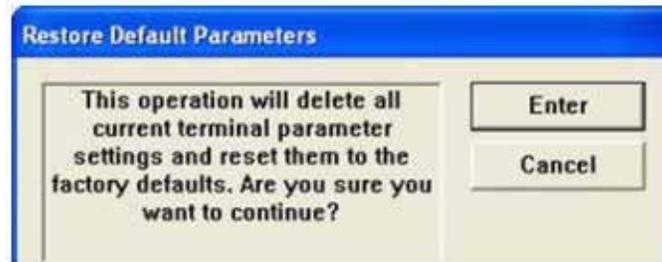
NOTE

It is **HIGHLY RECOMMENDED** that the report be generated and saved after the initial setup of the terminal and whenever significant changes are made to the terminal's current configuration.

RESTORE DEFAULT PARAMETERS

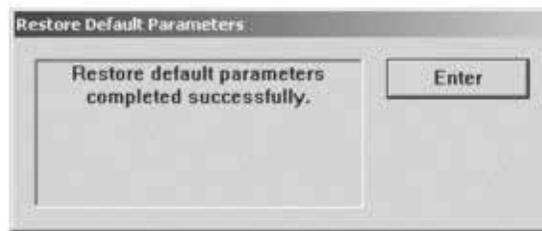
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Restore Default Parameters option by pressing the <5> on the keypad.



DESCRIPTION:

The Restore Default Parameters function restores the factory-default terminal parameter settings. All current parameters (including any that have been modified from their factory-default values) **will be DELETED** and the factory-default values will be restored. When prompted, select <Enter> to continue.



A confirmation dialog is displayed. Select <Enter> to return to the Terminal Status options.

SAVE PARAMETERS USING AN EXTERNAL STORAGE

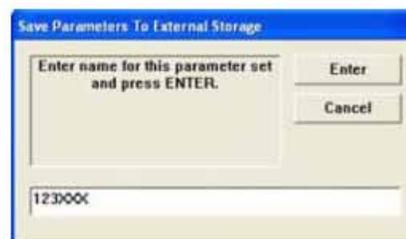
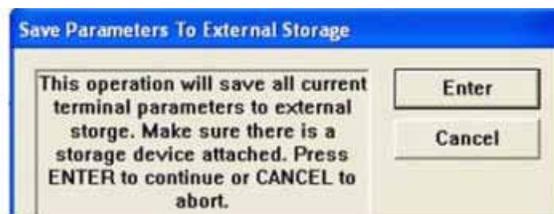
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Save Parameters to External Storage option by pressing <6> on the keypad.

DESCRIPTION:

The Save Parameters to External Storage function saves the current terminal parameters to an external storage device (jump drive) attached to a USB port.

1. Open the control panel. Install the jump drive to any unused USB port.
2. Close the control panel. Select <6> on the keypad. The following prompts appear. Press “Enter” to continue.
3. At the confirmation dialog, open the control panel and remove the jump drive.



RESTORE PARAMETERS USING AN EXTERNAL STORAGE

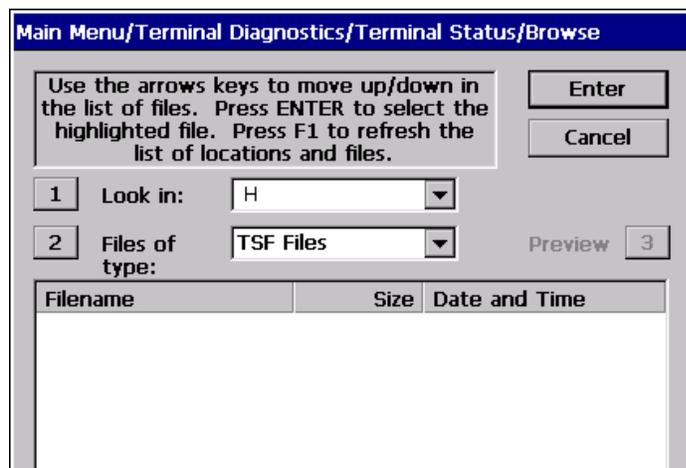
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Restore Parameters from an External Storage option by pressing the <ENTER> on the keypad.

DESCRIPTION:

The Restore Parameters from External Storage function restores a previously saved set of parameters from an external storage device (jump drive).

1. Open the control panel. Install the jump drive to any unused USB port.
2. Close the control panel. Select <7> on the keypad. The prompt at right appears.
3. Locate the filename for the saved parameters. Press “Enter” to select the highlighted file.
4. At the confirmation dialog, open the control panel and remove the jump drive.



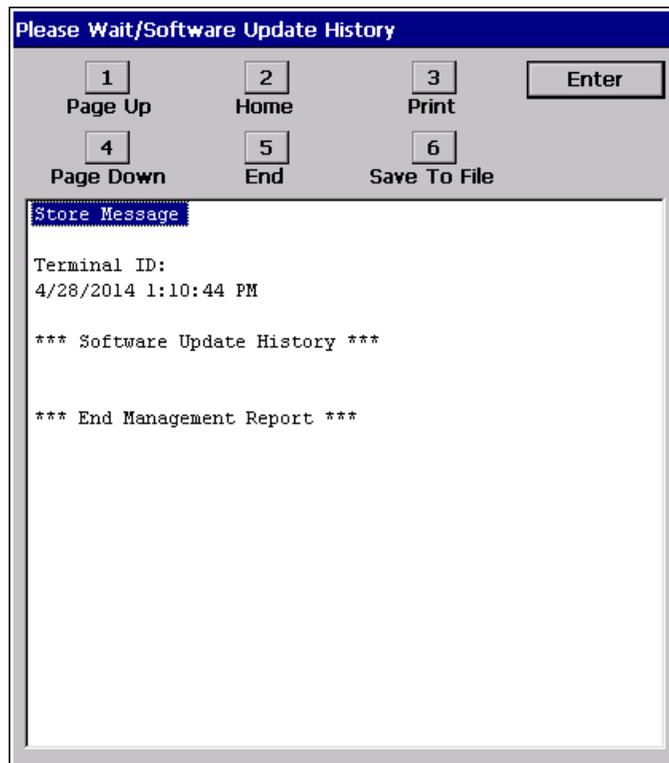
SOFTWARE UPDATE HISTORY

ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Software Update History option by pressing the “9” on the keypad.

DESCRIPTION:

The Software History Update function displays a management report that shows all software updates performed on the unit.



TRANSACTION TOTALS

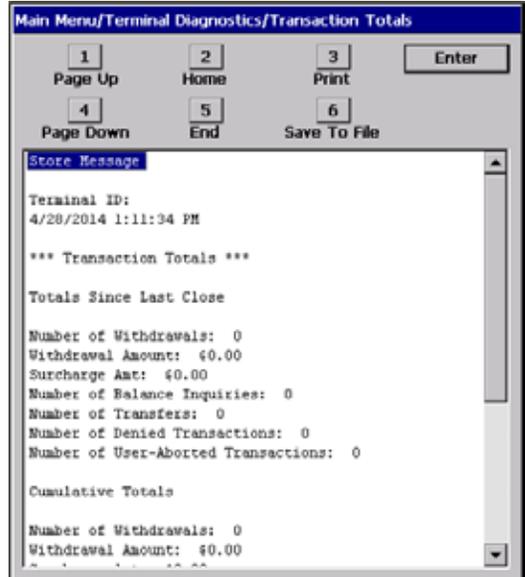
ACCESS INSTRUCTIONS:

From the Terminal Diagnostics screen, select the Transaction Totals option by pressing <2> on the keypad.

DESCRIPTION:

The Transaction Totals report displays totals in two categories: Totals since last close and cumulative totals.

The report also provides the date/time of the last completed transaction and denied transaction. The report can be printed to the receipt printer or saved to an external memory device.



SYSTEM DIAGNOSTICS

ACCESS INSTRUCTIONS:

From the Terminal Diagnostics screen, select the System Diagnostics option by pressing <3> on the keypad.



DESCRIPTION:

The System Diagnostics function will display a dialog that allows the system properties to be viewed and configured.

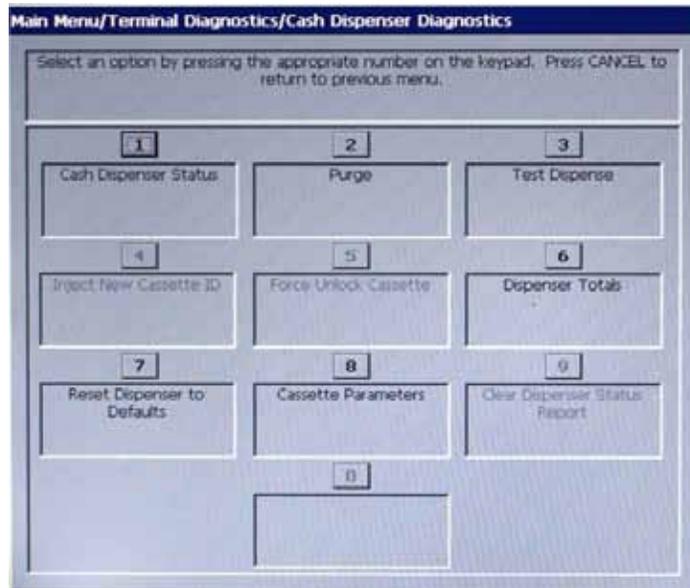
To navigate through the dialog, press the <CLEAR> key on the keypad to tab between areas. Use the left and right arrow keys to move between items in an area. To exit from the dialog, press the <CANCEL> key.

In most cases it should not be necessary to change any of these system properties.

DISPENSER

ACCESS INSTRUCTIONS:

From the Terminal Diagnostics screen, select the Dispenser option by pressing <4> on the keypad.



DESCRIPTION:

The Dispenser option allows the terminal operator to perform the following functions:

1. **CASH DISPENSER STATUS**- Displays a management report showing current dispenser hardware status.
2. **PURGE**- Performs a purge operation on the dispenser.
3. **TEST DISPENSE**- This function commands the dispenser to dispense a single note (min) from each installed and active cassette into either the Reject cassette, compartment, or vault (dispenser specific). Shutter Test is a functional test of the units' dispenser shutter assembly and is exclusive to the FT5000 model.
4. **INJECT NEW CASSETTE ID (NMD ONLY)**- This function allows the changing of the cassette(s) identification.
5. **FORCE UNLOCK CASSETTE (NMD ONLY)**- This function enables overriding the dispenser cassette locking mechanism.
6. **DISPENSER TOTALS**- Displays a management report showing total number of documents dispensed.
7. **RESET DISPENSER**- This function rests **ALL** dispenser and cassette parameters to default values.
8. **CASSETTE PARAMETERS**- Allows configuring cassette parameters (currency data, multiple amounts, etc).
9. **CLEAR DISPENSER STATUS REPORT (TDMs ONLY)**- This function will reset the count in the Since Reset column on the Dispenser Data report.

CASH DISPENSER STATUS

ACCESS INSTRUCTIONS:

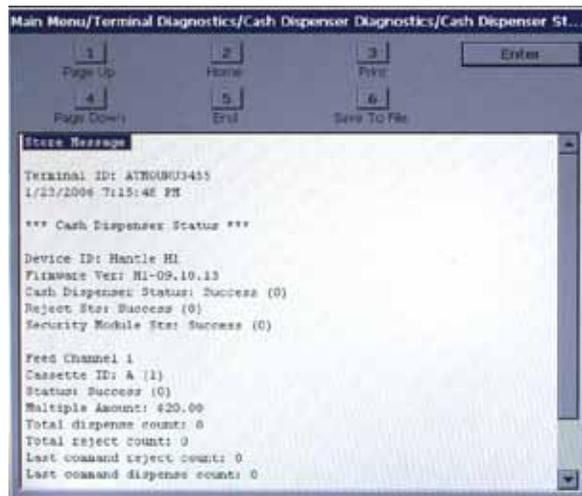
From the Diagnostics screen, select the Dispenser option by pressing <4> on the keypad.

From the Dispenser screen, select the Cash Dispenser Status option by pressing <1> on the keypad.

DESCRIPTION:

The Cash Dispenser Status report identifies the type of dispensing mechanism installed and displays the results of the most recent cash dispenser status check.

The report is displayed in a management report dialog that can be printed to the receipt printer or saved to an external memory device.

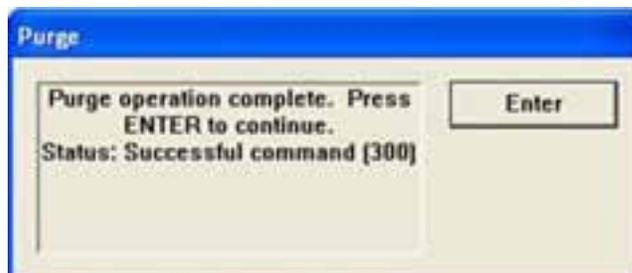


PURGE

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Dispenser option by pressing <4> on the keypad.

From the Dispenser screen, select the Purge option by pressing <2> on the keypad.



DESCRIPTION:

The Purge command instructs the dispenser to remove all documents from the feed path. When the purge command is used to clear the feed path following a jam or failure of the dispenser, some or all of the notes may pass out of the exit depending on their location in the feed path and the type of fault condition.

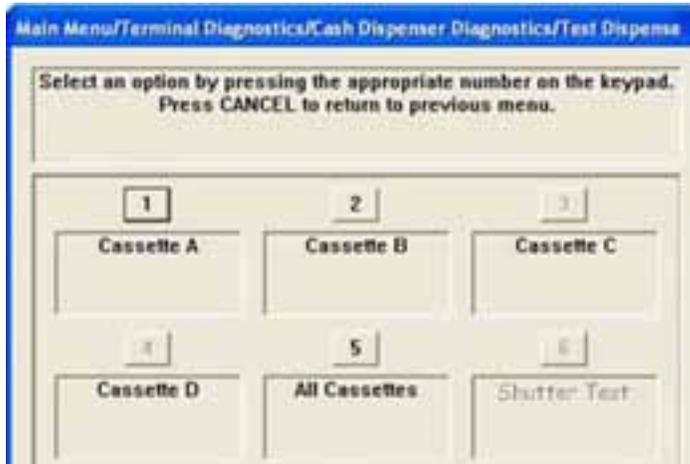
Once the purge command is completed, the user will be prompted to either repeat the purge operation or exit and go back to the Dispenser menu.

TEST DISPENSE

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Dispenser option by pressing <4> on the keypad.

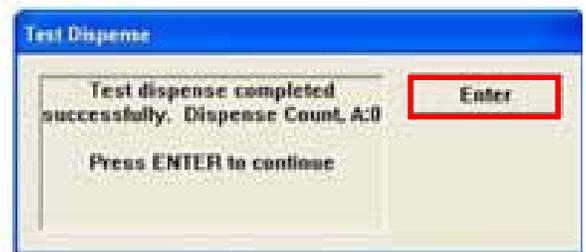
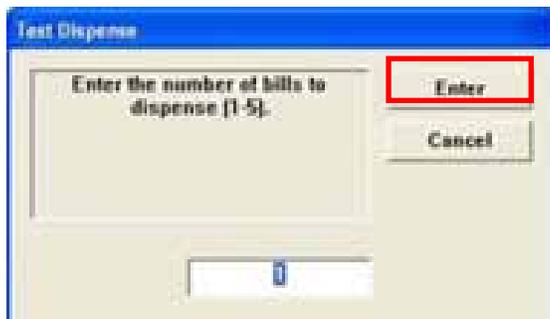
From the Dispenser screen, select the Test Dispense option by pressing <3> on the keypad.



DESCRIPTION:

The Test Dispense command allows the user to dispense note(s) from each installed and operational cassette into the reject cassette. This test exercises the dispenser mechanism without sending notes to the exit. The Test Dispense can only be exercised on the cassettes installed.

Once the cassette information is retrieved, the user will be prompted to enter the number of note(s) to be dispensed from cassettes A through D, if applicable. The values for the number of notes are **1 to 5**. If the user enters a number greater than 5, it will automatically default to 5.



Press the number on the keypad for the cassette(s) and enter the desired value. Press <ENTER>. Repeat for the remaining cassettes that are available.

Next, press the <ENTER> key to perform the test. The dispenser will dispense the note(s) from the cassette(s) into the reject cassette, compartment, or reject vault, if applicable. When the test is completed, the user will be prompted that the test was completed successfully.

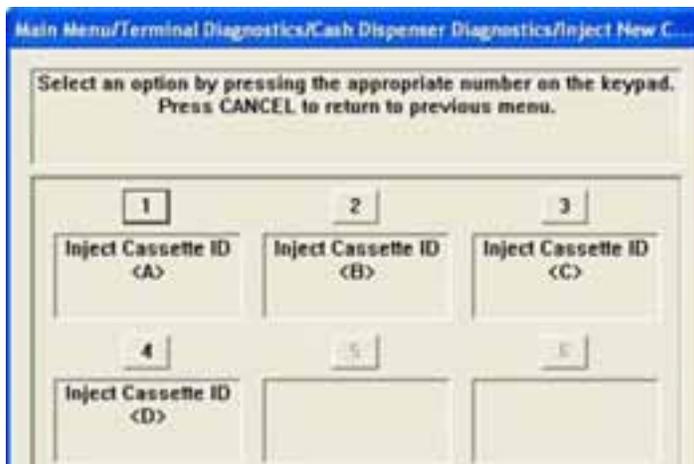
The Shutter Test exercises the unit’s shutter assembly (Open/Close). This function will be available for FT5000 units. ****CAUTION: TAKE CARE NOT TO INSERT ANY OBJECTS OR FINGERS WHEN ASSEMBLY IS OPENING/ CLOSING.****

INJECT NEW CASSETTE ID (NMD ONLY)

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Cash Dispenser option by pressing <4> on the keypad.

From the Cash Dispenser screen, select the Inject New Cassette ID option by pressing <4> on the keypad.

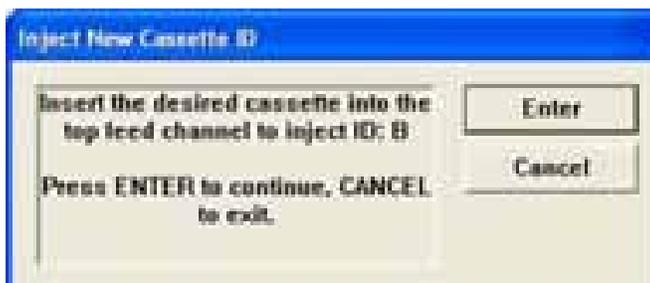


DESCRIPTION:

The NMD dispensing mechanisms use cassettes that possess onboard memory. This memory enables a cassette to store its own identification (ID) code.

The Inject New Cassette ID function has no direct correlation to the physical position of the cassette within the unit. In most instances, the cassette identified as “A” will be placed in the top feed channel, “B” in the second, and continuing. This is not a requirement since the ID code allows the dispensing mechanism (and the dispensers central controller) to locate the cassette wherever it’s been placed in the dispenser.

This function allows injecting a new ID into a cassette. Insert the cassette you want to ID into the **top** feed channel. Press the button corresponding to the identity you want the cassette to have: ‘A’, ‘B’, ‘C’, or ‘D’.



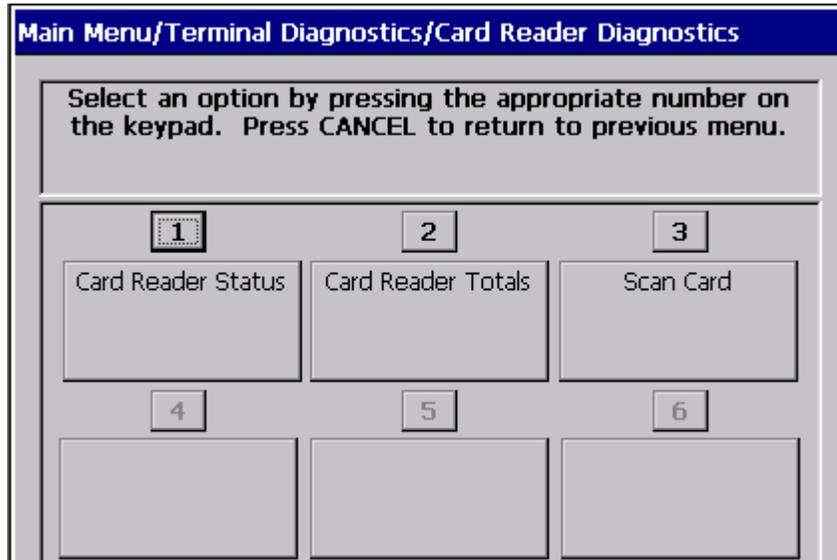
When the ID has successfully been injected, a message prompt will appear. If the operation fails, an error message will appear. After successfully completing the ID injection, you can place the cassette in its normal operating position.

FORCE UNLOCK CASSETTE ID (NMD ONLY)

ACCESS INSTRUCTIONS:

From the Diagnostics, screen, select the Cash Dispenser option by pressing <1> on the keypad.

From the Cash Dispenser screen, select the Force Unlock Cassette option by pressing <5> on the keypad.



DESCRIPTION:

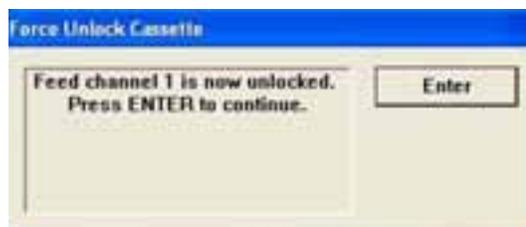
The Force Unlock Cassette function provides a means of overriding the NMDs unlocking mechanism associated with a specific cassette. It is only to be used immediately after failure of a normal cassette unlock operation.

Occasionally, a condition may occur that prevents a cassette from being removed from the dispensing mechanism. For example, a note that is lodged or jammed in a cassette's 'gate' could cause such a condition. The gate is a mechanical shutter on the feed end of a cassette which lowers to allow notes to be dispensed and raises as a security precaution when the cassette is removed.

During a normal unlocking operation when the gate is closed, the cassette releases an associated mechanical latch allowing the cassette to be removed from the body of the dispenser. If the gate does not fully close, the cassette will not release the latch and remains locked in the mechanism.

If you find that a particular cassette can not be removed after performing a normal unlock operation, use this function *first* to attempt releasing the applicable cassette from the mechanism.

Once the cassette has been removed from the dispenser, carefully remove any notes that are sticking out of the cassette. Insert the cassette into the dispenser and perform a normal 'Lock' operation followed by a normal 'Unlock' operation. You may now remove the cassette.



DISPENSER TOTALS/RESET DISPENSER

ACCESS INSTRUCTIONS:

From the Diagnostics, screen, select the Cash Dispenser option by pressing <1> on the keypad.

From the Cash Dispenser screen, select the Dispenser option by pressing <6> on the keypad.

From the Cash Dispenser screen, select the Reset Dispenser option by pressing <7> on the keypad.

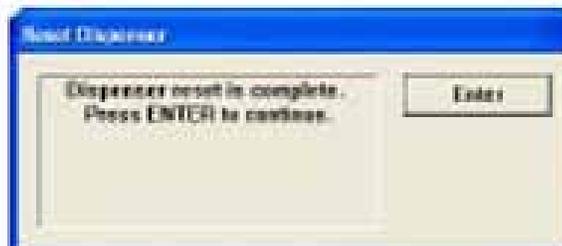
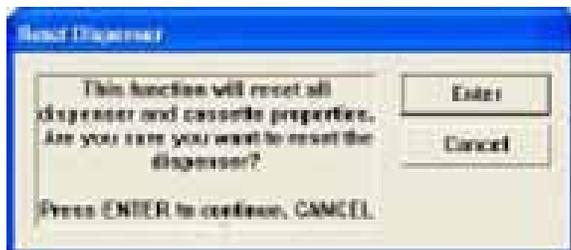
DESCRIPTION:

The Dispenser Totals function displays dispenser activity totals in various categories. Cumulative dispense and reject counts for the dispenser as well as individual totals for each installed cassette are provided.

The report is displayed in a management report dialog, which can be printed to the receipt printer or saved to an external memory device.

The Reset Dispenser function resets the operating parameters associated with the dispenser and its associated cassette(s). This operation will generally be performed when a new dispenser is added or there is a problem with the current dispenser.

Select <ENTER> to reset the dispenser or <CANCEL> to exit without resetting the dispenser.



**** Caution ****

If you select this option, you will lose ALL cassette parameters (amount, value, etc) that have been previously configured. This option *resets* the cassette parameters to the factory default settings.

CASSETTE PARAMETERS

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Cash Dispenser option by pressing <1> on the keypad.

From the Cash Dispenser screen, select the Cassette Parameters option by pressing <8> on the keypad.

DESCRIPTION:

The Cassette Parameters option allows the terminal operator to perform the following functions:

1. **RELEARN BILL THICKNESS**- Relearn the thickness of the documents loaded in the cassette.
2. **ALL CASSETTES LOCKED/UNLOCKED (NMD ONLY)**- Physically lock or unlock ALL cassettes in the dispensing mechanism chassis.
3. **RETRACT CASH (NMD ONLY)**- Enable/disable the automatic retraction of the bundle carriage unit, which transports the documents to the output slot of the dispenser.
- ENABLE EXTENSION REJECTS (TDM 200/250)**- When enabled, allows the extension to automatically purge any notes detected as remaining in the extension. The purge is done at power up or as part of a dispenser operation.
4. **RETRACT DELAY (NMD ONLY)**- Determine the amount of time the dispenser will wait before retracting the bundle carriage unit.

- 5. ACTIVE CASSETTE-** Select the cassette that will receive the results of any changes to the various cassette and note configuration parameters that are accessed via the cassette parameters dialog.
- 6. CASSETTE IN SERVICE (MULTI-CASSETTE DISPENSERS)-** Places the currently selected cassette “In Service” or “Out of Service”.
- 7. MULTIPLE AMOUNT-** Set the denomination of the currency in a cassette.
- 8. DOCUMENT TYPE-** Enter the type of document in the selected cassette: cash or non-cash.
NOTE: SINGLE CASSETTE DISPENSERS AND ALL TDMS ARE ALWAYS SET FOR “CASH”.
- 9. NON-CASH ITEM DESCRIPTION (NMD ONLY)-** Enter up to 28 characters describing the non-cash item in the active cassette.
- 0. SECONDARY ITEM DESCRIPTION (NMD ONLY)-** Enter up to 28 characters of general information about the non-cash item in the active cassette or other information as required.
- F1. NOTE CONFIGURATION-** This function allows you to configure the note specific operating parameters for the active cassette.

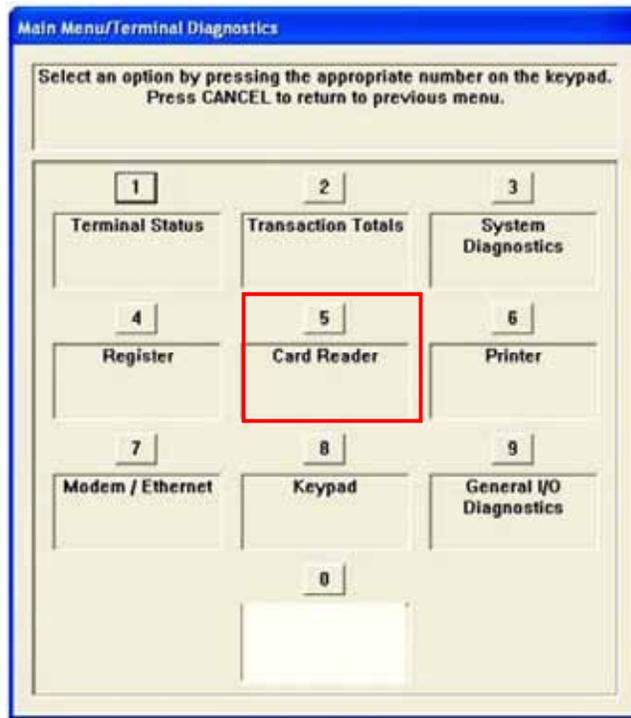
****NOTE****

For further information on the individual Cassette Parameters, refer to **Option 6, Terminal Configuration>Cassette Setup>Cassette Parameters.**

CARD READER

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Card Reader option by pressing <5> on the keypad.



DESCRIPTION:

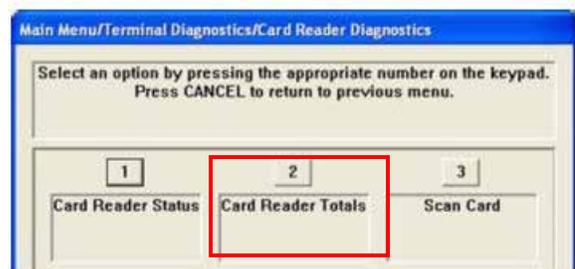
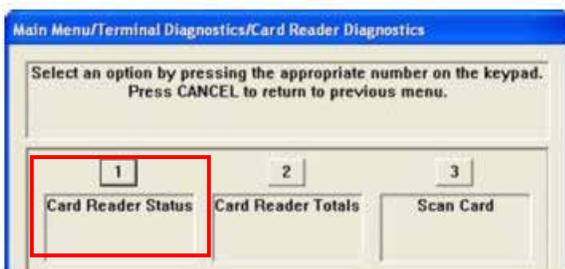
The Card Reader option allows the terminal operator to perform the following functions:

1. **CARD READER STATUS**- Displays a management report showing card reader hardware status.
2. **CARD READER TOTALS**- Displays a management report showing total number of various card reader operations (cards read, bad cards read, last valid card read).
3. **SCAN CARD**- Verifies that data can be read properly by the card reader.

CARD READER STATUS/TOTALS

ACCESS INSTRUCTIONS:

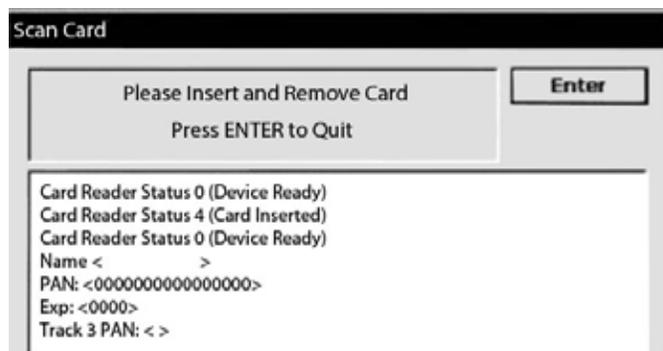
From the Diagnostics screen, select the Card Reader option by pressing <5> on the keypad. Select Card Reader Status by pressing <1> on the keypad. Select Card Reader Totals by pressing <2> on the keypad.



SCAN CARD

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Card Reader option by pressing the <3> on the keypad.



From the Card Reader option, select Scan Card by pressing the <3> on the keypad.

DESCRIPTION:

The Scan Card function reports the number of tracks the card reader is able to scan. It prompts you to insert and remove a card. Upon removing the card, a management report dialog is displayed. If the card can be read properly, the information from the tracks on the card will be displayed. This report can be printed to the receipt printer or saved to an external memory device.

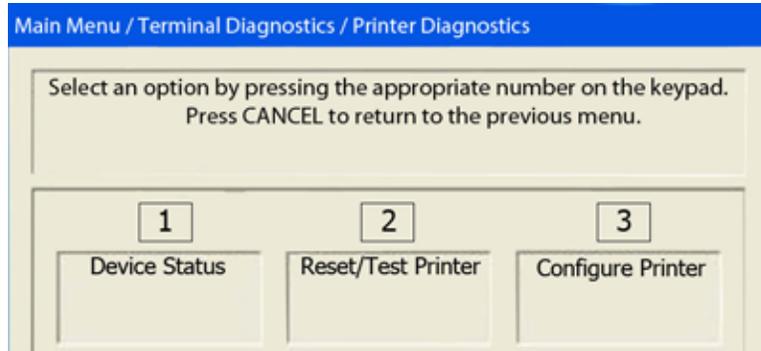
If the card is damaged or not a standard format, an error message will be displayed. If this happens, the card cannot be used for transactions on the terminal.

⇒ Press <3> on the keypad. When prompted, insert and remove the card. The dialog box will either verify the tracks scanned or respond with an error message.

PRINTER

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Printer option by pressing <6> on the keypad.



DESCRIPTION:

The Printer option allows the terminal operator to perform the following functions:

1. **DEVICE STATUS**- Displays a management report that shows properties of the terminal printer, such as printer name, assigned port, driver version and printer resolution.
2. **REST/TEST PRINTER**- The function tests the terminal printer by printing sample text using various font styles and sizes.
3. **CONFIGURE PRINTER**- This function enables you to setup the operating parameters for the terminal printer.

DEVICE STATUS

ACCESS INSTRUCTIONS:

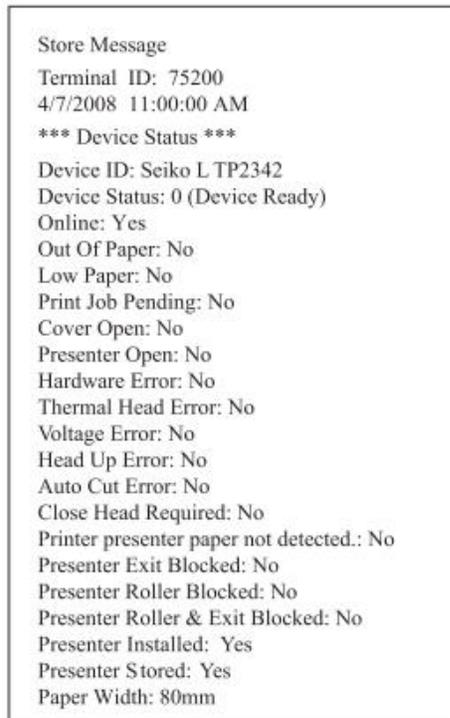
From the Diagnostics screen, select the Printer option by pressing the <6> on the keypad.

Select Device Status by pressing <1> on the keypad.

DESCRIPTION:

Device Status displays a report that shows properties of the terminal printer, such as printer name, status, errors, etc.

The report is displayed in a Management Report dialog, which can be printed to the receipt printer or saved to an external memory device.



RESET / TEST PRINTER | CONFIGURE PRINTER

ACCESS INSTRUCTIONS:

From the Printer Diagnostics screen, select the Reset / Test Printer option by pressing the <2> on the keypad.

DESCRIPTION:

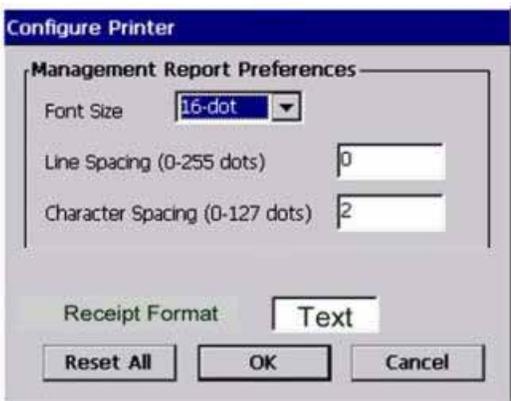
The Reset/Test Printer function re-initializes and then performs an operational test of the printer. A pattern of characters is printed on the receipt.

The **Configure Printer** function allows re-configuring of the printer’s default settings. A maintenance keyboard should be used to interact with this dialog screen. When this option is selected, a print setup prompt appear:

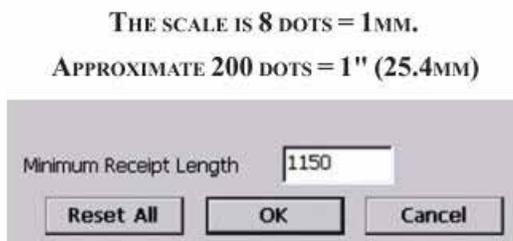
- FONT SIZE**- This allows changing the printed font characters to either 16 or 24.
- LINE SPACING**- Sets the spacing between lines on the receipt or coupon.
- CHARACTER SPACING**- Sets the spacing between characters on the receipt or coupon.
- RECEIPT FORMAT (PRINTER/PRESENTER)**- Sets the receipt format between “Text” or “Graphics”.
- MINIMUM RECEIPT LENGTH (GRAVITY-FED RL2000)**- Sets the minimum length for a customer receipt. Default is **1150** [apprx 5-5/8” (144 mm)].

If you don’t have an external keyboard, press the <CLEAR> button to scroll down/ highlight the different options.

Print line of text #1
 Print line of text #2
 Print line of text #3
 Print line of text #4
 Print line of text #5
 Print line of text #6
 Print line of text #7
 Print line of text #8
 Print line of text #9
 Print line of text #10
 Print line of text #11
 Print line of text #12
 Print line of text #13
 Print line of text #14
 Print line of text #15
 Print line of text #16
 Print line of text #17
 Print line of text #18
 Print line of text #19
 Print line of text #20
 Print line of text #21
 Print line of text #22
 Print line of text #23
 Print line of text #24
 Print line of text #25
 Print line of text #26
 Print line of text #27
 Print line of text #28
 Print line of text #29
 Print line of text #30
 Print line of text #31
 Print line of text #32
 Print line of text #33
 Print line of text #34
 Print line of text #35
 Print line of text #36
 Print line of text #37
 Print line of text #38
 Print line of text #39
 Print line of text #40
 Print line of text #41
 Print line of text #42
 Print line of text #43
 Print line of text #44
 Print line of text #45
 Print line of text #46
 Print line of text #47
 Print line of text #48
 Print line of text #49
 Print line of text #50



Printer w/presenter

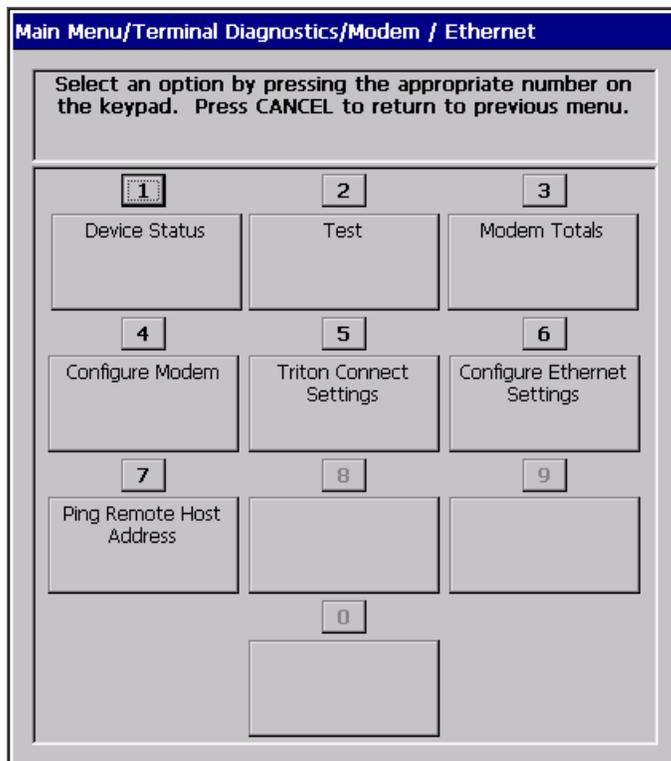


Printer w/o presenter

MODEM / ETHERNET

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing <7> on the keypad.



DESCRIPTION:

The Modem/Ethernet option allows the terminal operator to perform the following functions:

1. **DEVICE STATUS**- Displays a management report that shows properties of the modem's (dial-up and TCP/IP) parameters.
2. **TEST**- This function tests the modem by dialing a number that you enter in a dialog box. A status report displays the progress and results of the operation.
3. **MODEM TOTALS**- Displays a management report showing the number of modem call attempts, busy signals and aborted calls.
4. **CONFIGURE MODEM**- Enables you to view and configure the modem's operating parameters.
5. **TRITON CONNECT SETTINGS**- This function provides access to Triton Connect settings and configuration parameters.
6. **CONFIGURE ETHERNET SETTINGS**- This function enables you to view and configure TCP/IP (Ethernet) settings.
7. **MODEM SETUP STRING**- This function allows entering a non-standard setup string, if needed.

DEVICE STATUS/TEST

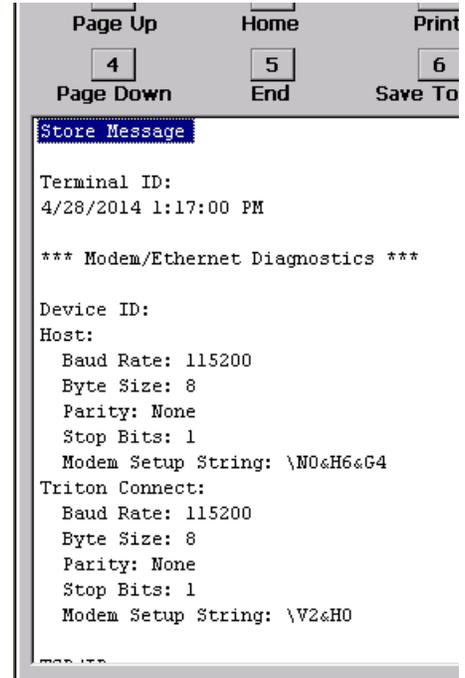
ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing <7> on the keypad
 From the Modem/Ethernet screen, select the Device Status option by pressing the <1> on the keypad.
 From the Modem/Ethernet screen, select the Test option by pressing <2> on the keypad.

DESCRIPTION:

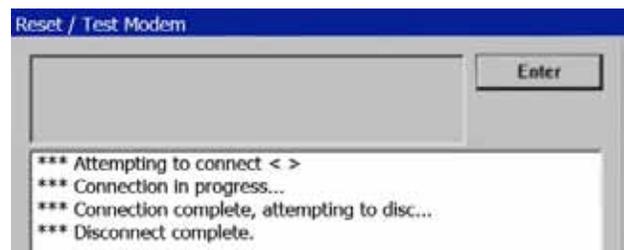
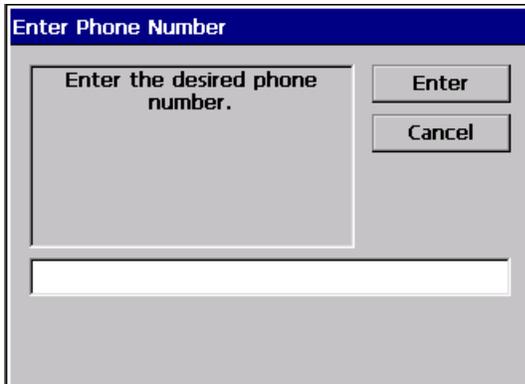
The Device Status function displays a report that shows the current operational parameters of the modem (dial-up and TCP/IP).

This status is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.



The **Test** function tests the terminal’s modem. Enter a known good telephone number, which the modem will dial to verify its ability to access the telephone line and perform a dialing operation.

Use the text entry box to enter the phone number. Select <ENTER> to start the test or <CANCEL> to ignore the entry and exit the function. At the conclusion of the test, a message box will indicate success or failure of the test.

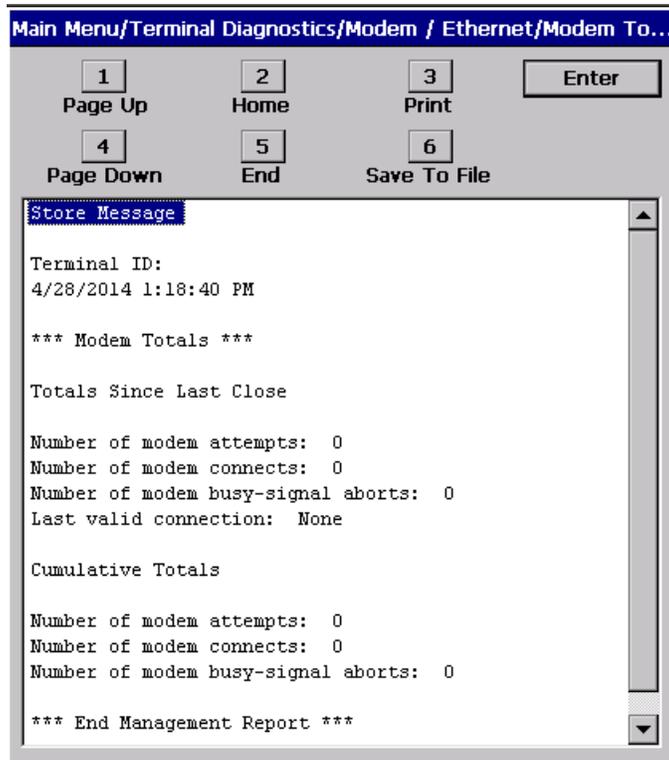


MODEM TOTALS

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing the <7> on the keypad.

From the Modem/Ethernet screen, select the Modem Totals option by pressing the <3> on the keypad.



DESCRIPTION:

The **Modem Totals** function displays modem activity totals in two categories: totals since the last close and cumulative totals. Total modem call attempts, successful connects, busy signal aborts and date/time of the last successful connection are recorded. This report can be printed to the receipt printer or saved to an external storage device.

CONFIGURE MODEM / TRITON CONNECT SETTINGS

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing <7> on the keypad.

From the Modem/Ethernet screen, select the Configure Modem option by pressing the <4> on the keypad.

For the Triton Connect Settings option, press the <5>.



* WARNING *

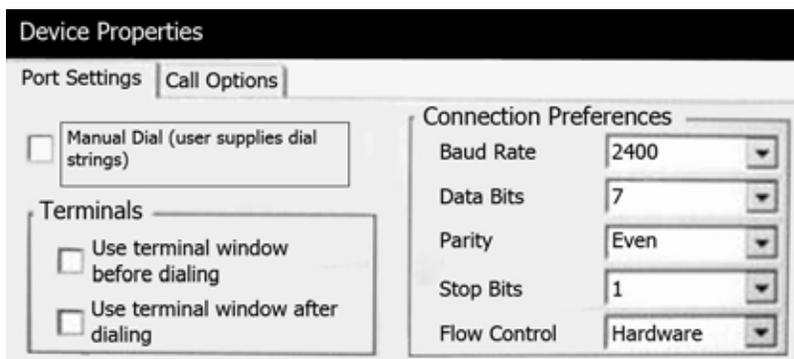
Do NOT attempt to alter any of the following parameters unless you are absolutely certain of the result. Incorrect settings can cause communication failure.

DESCRIPTION:

The **Configure Modem** and **Triton Connect Settings** functions allow changing modem parameters.

Pressing the applicable key (<4> for Configure Modem and <5> Triton Connect Settings) will display the Select Modem dialog. The name of the modem that will be configured is shown in the dialog.

⇒ Press the <CLEAR> key on the keypad until the <CONFIGURE> button is highlighted. Press the <ENTER> key. The device properties screen is now displayed.



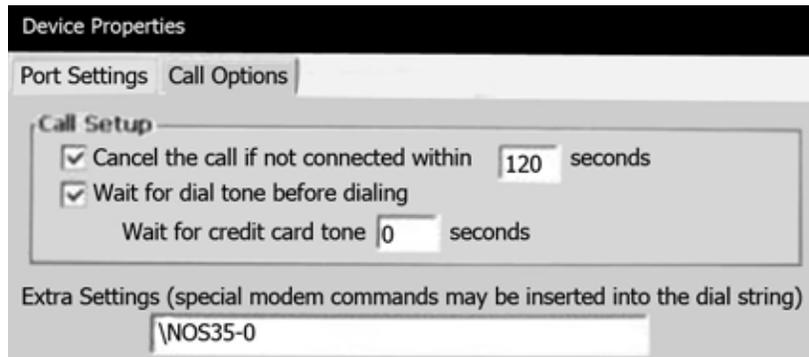
⇒ Press the <CLEAR> key until the parameter that will be configured is highlighted.

⇒ If the parameter is enabled (checked), highlight the parameter and press the <CTRL> key to place or remove a check from the box. If the parameter is selected from a list of choices, use the <CLEAR> key to highlight the parameter and the right arrow (>) and left arrow (<) keys to display the desired parameter.

This screen will allow you to view and configure the following modem properties from the Port Settings tab:

1. **BITS PER SECOND**- Baud rate setting for the terminal's modem.
2. **DATA BITS**- Number of data bits.
3. **PARITY**- Parity type: even or odd.
4. **STOP BITS**- Number of stop bits.
5. **FLOW CONTROL**- Choose the type of flow control to use if required. In most cases the default setting for the parameters in the configure dialog will satisfy your modem communication requirements. However in some cases, changes may be required to meet unique requirements. Usually these will be determined by the processor and configured by your service provider.

Once the necessary parameters have been selected, press the <CLEAR> key until the **Port Settings** tab is highlighted. Press the right arrow (>) key to display the parameters for the **Call Options**. Use the <CLEAR> key to highlight the parameter that will be configured.



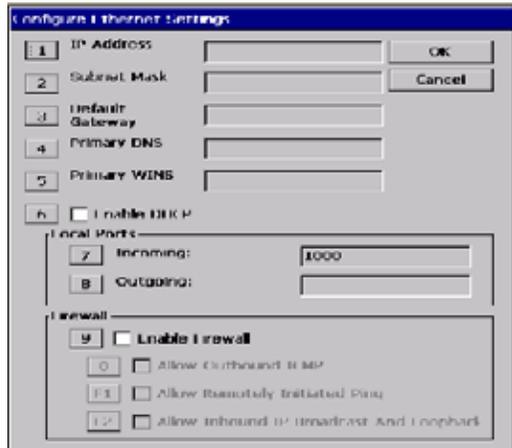
If the parameter is enabled by placing a check in a box, highlight the parameter and press the <CTRL> key to place or remove a check from the box. If the parameter is a numeric value, press the <CLEAR> key until the entry area is highlighted. Enter the number directly from the keypad. If the entry is a letter of the alphabet, open the virtual keypad and use it to enter the letter(s).

CONFIGURE ETHERNET SETTINGS

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing <7> on the keypad.

From the Modem/Ethernet screen, select the Configure Ethernet Settings option by pressing <6> on the keypad.



DESCRIPTION:

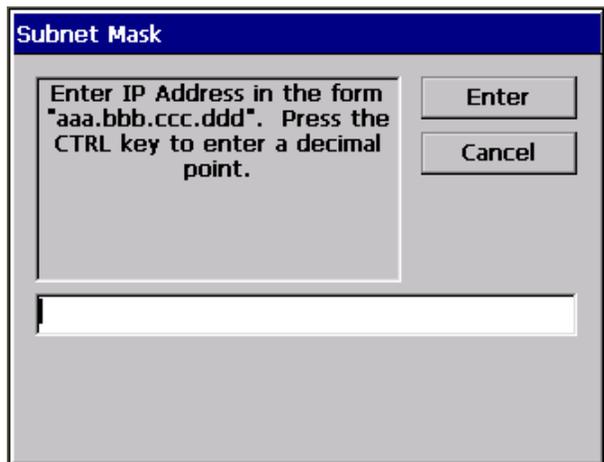
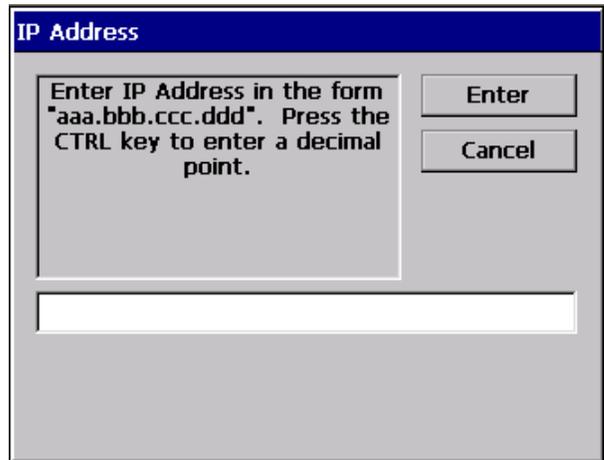
The Configure Ethernet Settings option allows the terminal operator to perform the following functions:

1. IP Address- This address identifies the terminal as the course of the data packets sent to and received from the host server.

⇒ Change the IP Address by pressing <1> on the keypad. Enter the new IP Address in the data entry dialog box. Press <ENTER>.

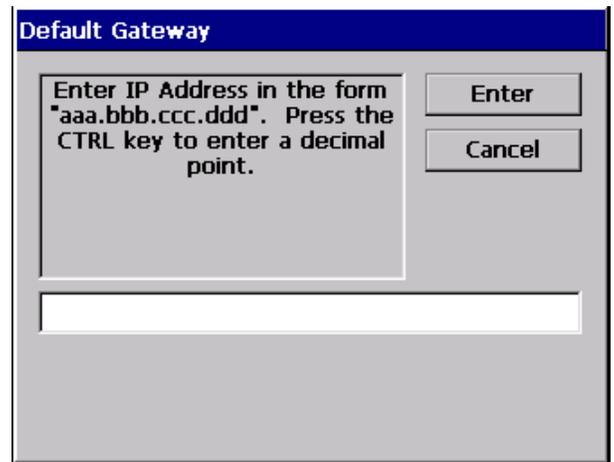
2. Subnet Mask- Along with the IP Address, each port requires a Subnet Mask address. This distinguishes other terminals on the same Local Area Network (LAN) from terminals in other locations.

⇒ Change the Subnet Mask by pressing <2> on the keypad. Enter the new address in the data entry dialog box. Press <ENTER>.



3. DEFAULT GATEWAY- For direct access to networks beyond the current one, each terminal must be told the IP Address of the router (Gateway) that connects the local network with the wider world.

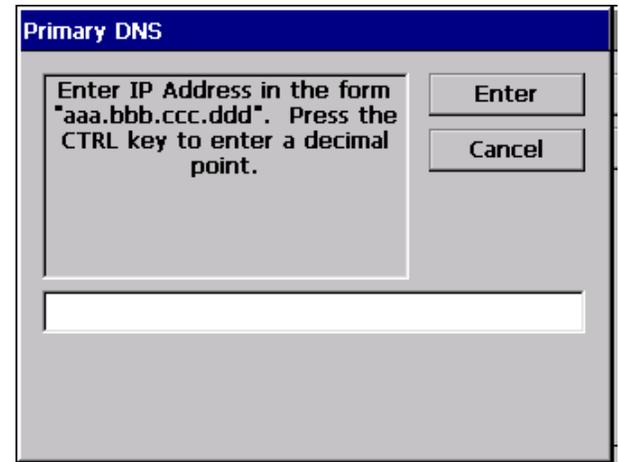
⇒ Change the Gateway address by pressing <3> on the keypad. Enter the new address in the data entry dialog box. Press <ENTER>.



The image shows a dialog box titled "Default Gateway" with a blue header. The main area contains the text: "Enter IP Address in the form 'aaa.bbb.ccc.ddd'. Press the CTRL key to enter a decimal point." To the right of this text are two buttons: "Enter" and "Cancel". Below the text is a white data entry field.

4. PRIMARY DNS (DOMAIN NAME SYSTEM)- The address is an internet service that translates domain names to IP Addresses.

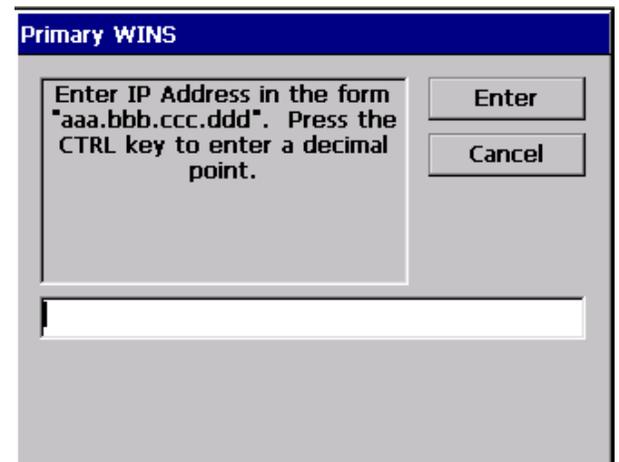
⇒ Change the Primary DNS by pressing <4> on the keypad. Enter the new address in the data entry dialog box. Press <ENTER>.



The image shows a dialog box titled "Primary DNS" with a blue header. The main area contains the text: "Enter IP Address in the form 'aaa.bbb.ccc.ddd'. Press the CTRL key to enter a decimal point." To the right of this text are two buttons: "Enter" and "Cancel". Below the text is a white data entry field.

5. Primary WINS (Windows Internet Naming Service)- This address manages the association of workstation names and locations with IP addresses. WINS automatically creates a computer name - IP Address mapping entry in a table. WINS complements the NT server's DHCP which negotiates an IP Address for any computer when it is first defined to the network.

⇒ Change the Primary WINS address by pressing <5> on the keypad. Enter the new address in the data entry dialog box. Press <ENTER>.



The image shows a dialog box titled "Primary WINS" with a blue header. The main area contains the text: "Enter IP Address in the form 'aaa.bbb.ccc.ddd'. Press the CTRL key to enter a decimal point." To the right of this text are two buttons: "Enter" and "Cancel". Below the text is a white data entry field.

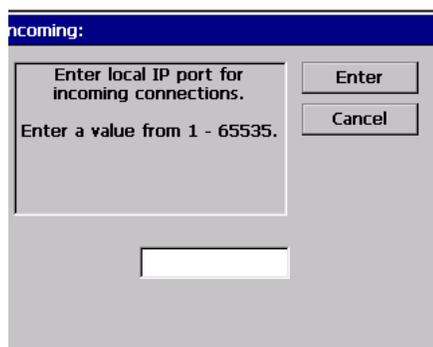
6. ENABLE DNCP (DYNAMIC HOST CONFIGURATION PROTOCOL)- This is a protocol that provides a means to dynamically allocate IP Addresses to computers on a LAN system.

⇒ Press the <6> key on the keypad to enable (checked) or disable (unchecked).

7. LOCAL PORTS- These options allow entering Incoming and/or Outgoing local port addresses.

Incoming: Change the Incoming Port address by pressing <7> on the keypad. Enter the new port address in the data entry dialog box. Press <ENTER>.

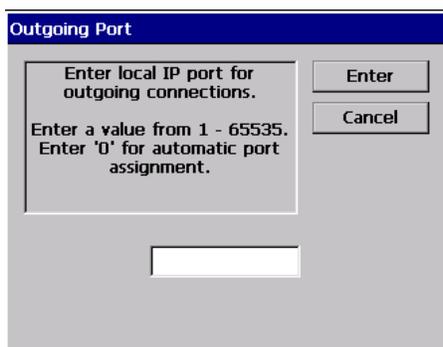
Outgoing: Change the Outgoing Port address by pressing <8> on the keypad. Enter the new port address in the data entry dialog box. Press <ENTER>.



incoming:

Enter local IP port for incoming connections.
Enter a value from 1 - 65535.

Enter Cancel

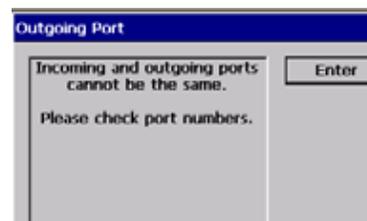


Outgoing Port

Enter local IP port for outgoing connections.
Enter a value from 1 - 65535.
Enter '0' for automatic port assignment.

Enter Cancel

NOTE: Incoming and Outgoing Ports CANNOT be the same!



Outgoing Port

Incoming and outgoing ports cannot be the same.
Please check port numbers.

Enter

MODEM SETUP STRING

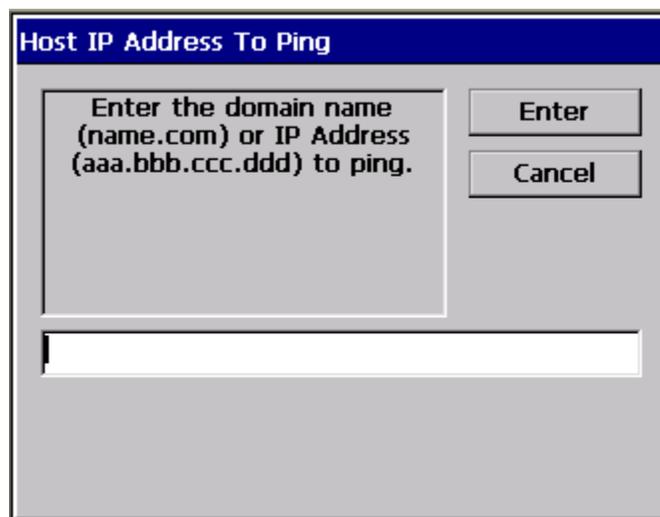
ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Modem/Ethernet option by pressing the <7> on the keypad.
From the Modem/Ethernet screen, select the Modem Setup String

DESCRIPTION:

The **Modem Setup String** is used in special circumstances. A Hayes-compatible setup string can be sent to the modem when it is initialized.

NOTE: *If needed, setting this value will cause communication failure. Contact Triton Technical Support service before entering/changing this parameter.*



Host IP Address To Ping

Enter the domain name (name.com) or IP Address (aaa.bbb.ccc.ddd) to ping.

Enter Cancel

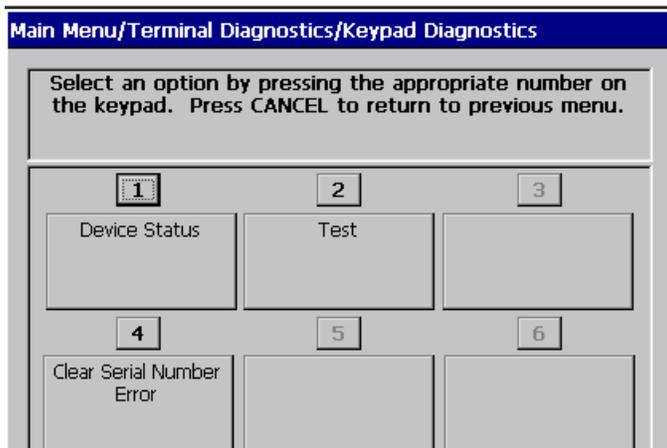
KEYPAD

ACCESS INSTRUCTIONS:

From the Diagnostics screen, select the Keypad option by pressing <8> on the keypad.

From the Keypad screen, select the Device Status option by pressing <1> on the keypad.

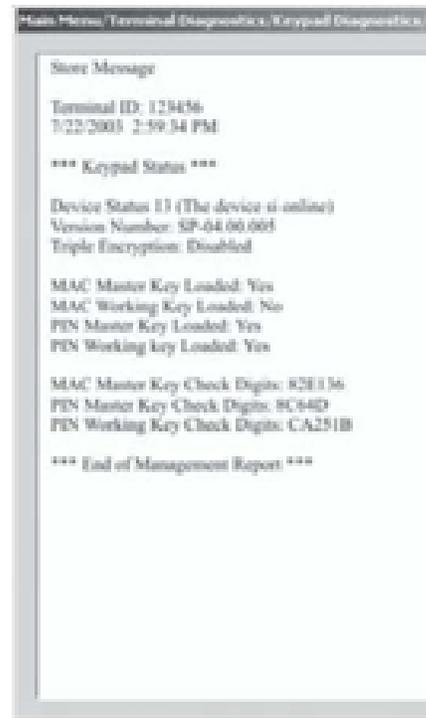
From the Keypad screen, select the Test option by pressing <2> on the keypad.



DESCRIPTION:

The Device Status displays a management report that shows information such as keypad status, serial number, version number, and loaded encrypted key check digits.

The Test function enables you to verify operation of the numeric, function, and control buttons on the terminal. Simply press any button (except the <ENTER> button) and the status window will indicate the state of the button: Up or Down. Press the <ENTER> when completed.



The Clear Serial # or Tamper Error function may be accessed if you have encountered either a SPED Serial # error (617 - usually when keypad has been replaced) or if a Tamper condition has occurred. Press option <4> (if available) to attempt clearing either of these error conditions.

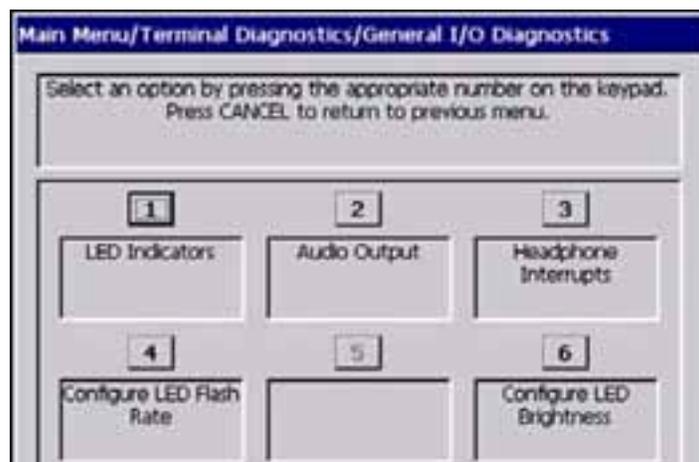
*** NOTE ***

In the event the terminal displays **Error Codes** ranging from **592-617** (keypad specific), option <4> in the Keypad Functions *may* be an available option. If it is, attempt to clear the error by selecting this option.

GENERAL I/O DIAGNOSTICS

ACCESS INSTRUCTIONS:

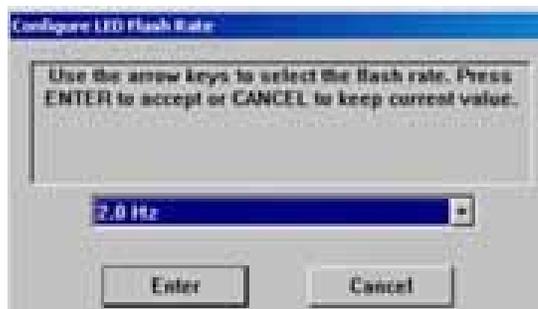
From the Diagnostics screen, select the General I/O Diagnostics option by pressing the <9> on the keypad.



DESCRIPTION:

The General I/O Diagnostics option allows the terminal operator to perform the following functions:

1. **LED INDICATORS**- When selected, this function will flash all LEDs for 5 seconds.
2. **AUDIO OUTPUT**- Selecting this option will play a sound file and some audio text through the terminal speaker system (or headphones if they're plugged in).
3. **HEADPHONE INTERRUPTS**- This option reports whether the headphones can be detected (inserted or removed).
4. **CONFIGURE LED FLASH RATE**- Selecting this option will allow the flash rate of the LEDs on the control panel to be altered to one of the following: **0 Hz (always on), 0.5 Hz, 1.0 Hz, or 2.0 Hz.**
5. **CONFIGURE LED BRIGHTNESS (RL2000 ONLY)**- Selecting this option allows changing the LED brightness on the control panel.



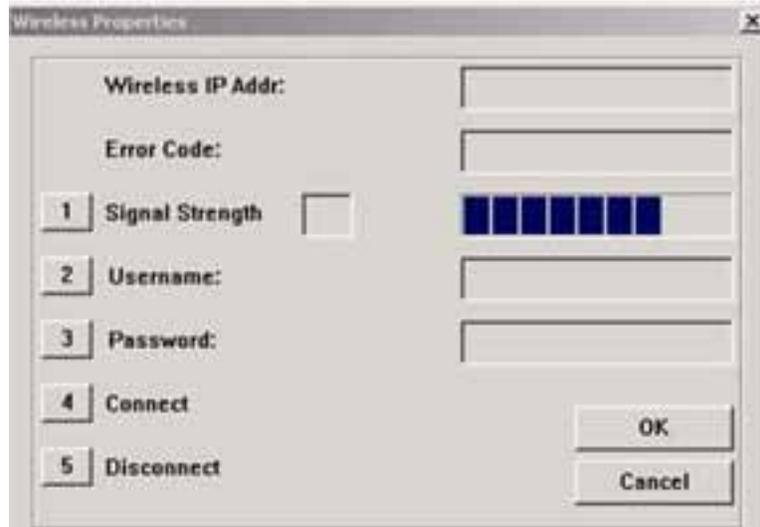
NOTE: Default flash rate is 2.0 Hz

NOTE: This option is not available for RL/FT/RT units.

TCP/IP WIRELESS

ACCESS INSTRUCTIONS:

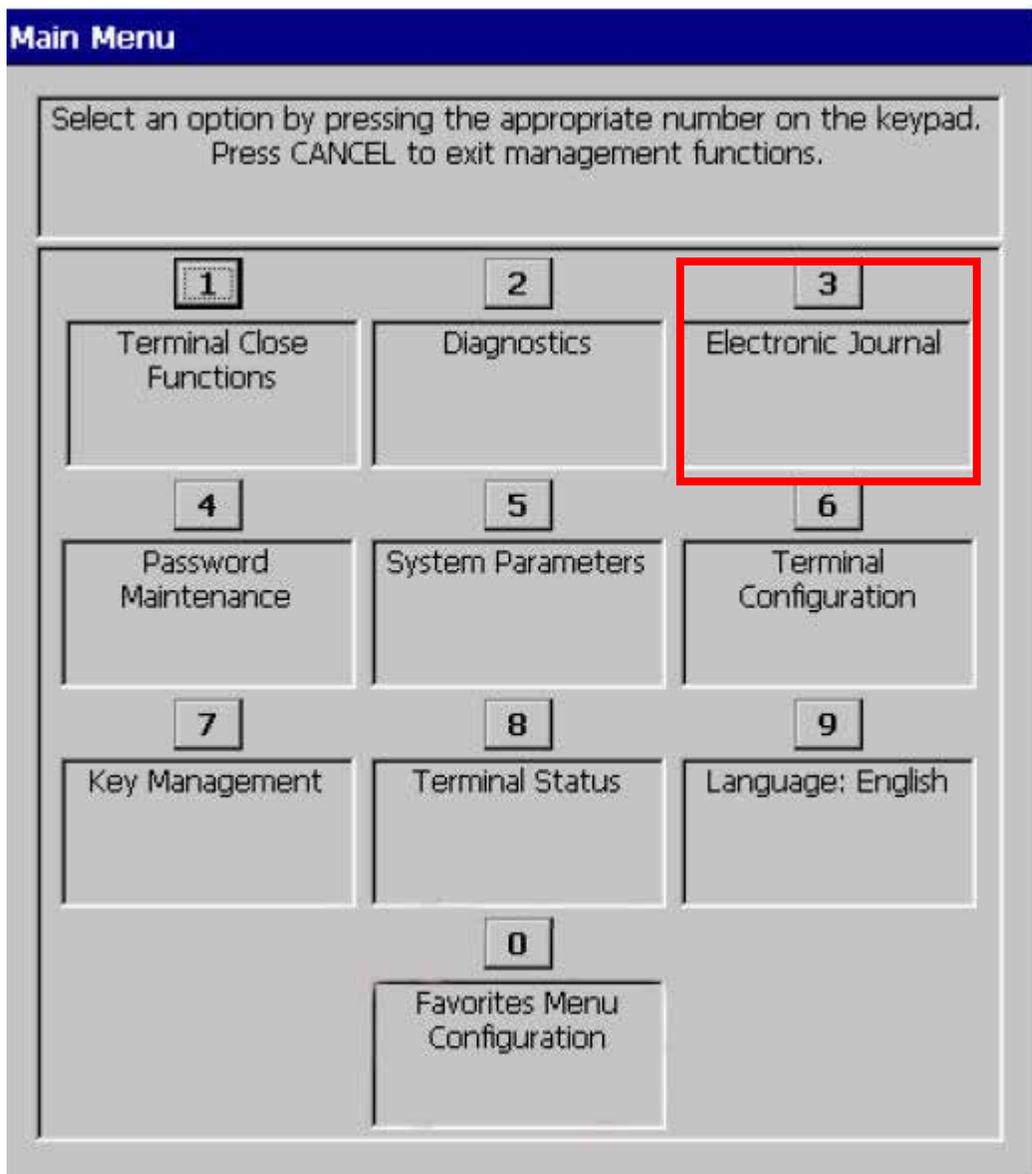
From the Diagnostics screen, select the TCP/IP Wireless option by pressing the <0> on the keypad.

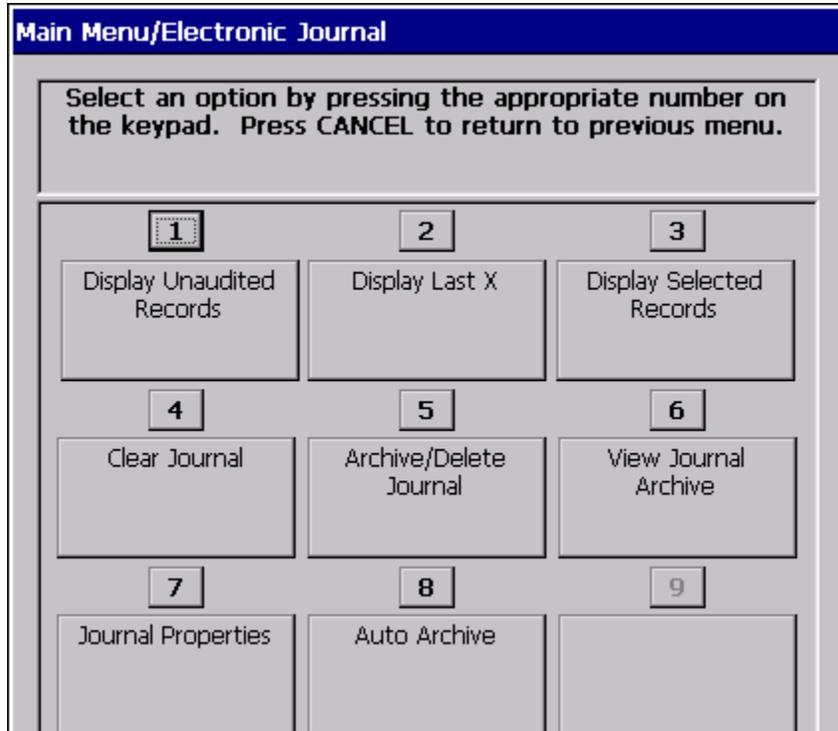


NOTE: This option was available for wireless RL5000 units equipped with the LandCell wireless modems which Triton no longer offers. For wireless-capable option, contact your account representative.

OPTION 3

ELECTRONIC JOURNAL





ELECTRONIC JOURNAL MENU OPTIONS OVERVIEW.....55

DISPLAY UNAUDITED RECORDS.....56

DISPLAY LAST X.....57

DISPLAY SELECTED RECORDS.....58

CLEAR JOURNAL.....60

ARCHIVE/DELETE JOURNAL.....61

VIEW JOURNAL ARCHIVE.....62

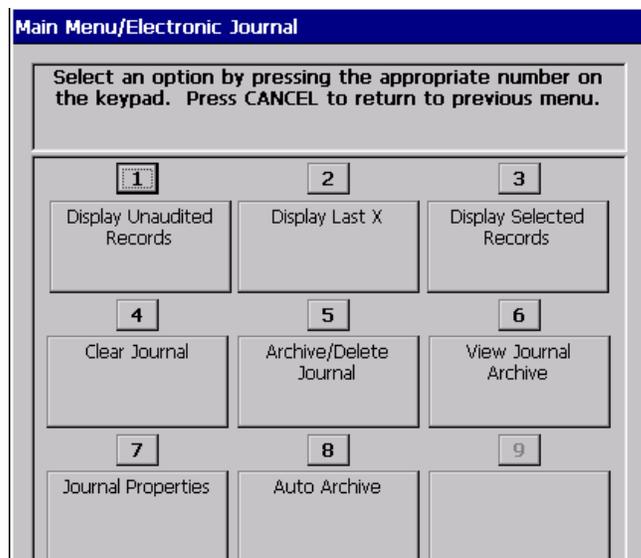
JOURNAL PROPERTIES.....63

AUTO ARCHIVE.....64

ELECTRONIC JOURNAL

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Electronic Journal option by pressing <3> on the keypad.



DESCRIPTIONS:

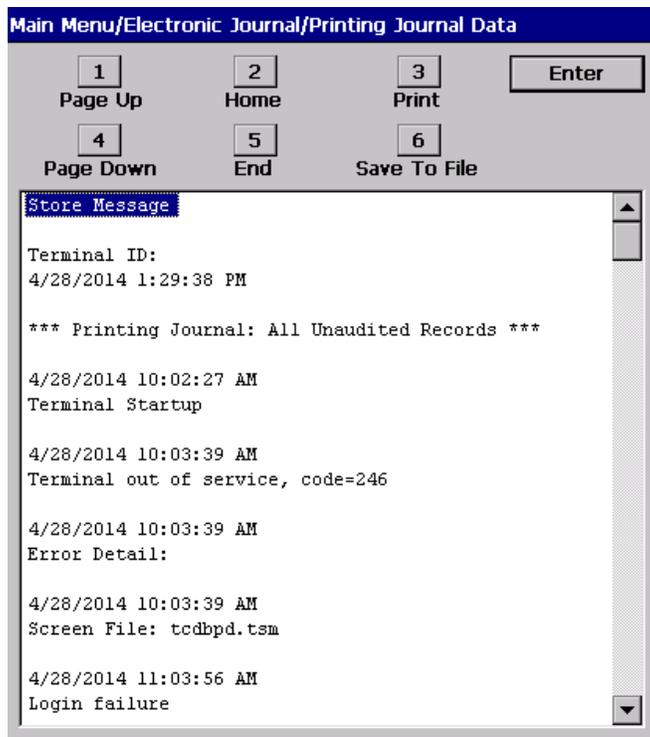
The Electronic Journal option allows the terminal operator to perform the following functions:

1. **DISPLAY UNAUDITED RECORDS-** This function displays a summary of the journal entries collected since the last time the journal was audited/printed.
2. **DISPLAY LAST X-** This function is used to display and print records either before or after they have been audited.
3. **DISPLAY SELECTED RECORDS-** Generates a management report of journal entries that match a user-defined set of filtering parameters.
4. **CLEAR JOURNAL-** This function “marks” all unaudited records as audited.
5. **ARCHIVE/DELETE JOURNAL-** This function stores all journal entries prior to a selected date into an archive file.
6. **VIEW JOURNAL ARCHIVE-** This function allows user to select and view an archived journal.
7. **JOURNAL PROPERTIES-** Displays a management report that provides specific information about the electronic journal (number of records, audited, unaudited).
8. **AUTO ARCHIVE-** Sets the parameters to auto archive journal records based on specific date / time, size limit, etc...

DISPLAY UNAUDITED RECORDS

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Display Unaudited Records option by pressing <1> on the keypad.

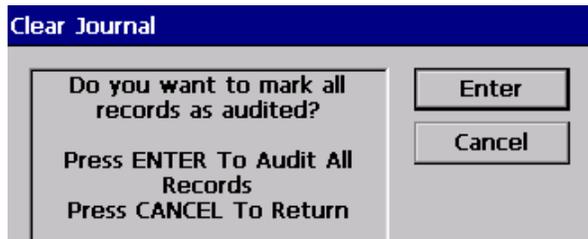


DESCRIPTION:

The Display Unaudited Records function is used to display a summary of all “unaudited” journal entries collected since the last time the journal was audited/printed. This information should be maintained in case of an inquiry by a customer, and can also be useful in certain troubleshooting situations.

The report is displayed in a management report dialog that can be printed to the receipt printer or saved to an external memory device. If used, an external memory device must be installed in a USB port BEFORE this option is selected. The Display Unaudited Records saves journal files in a text (.txt) format. They can be viewed by a text editor.

If the <CANCEL> or <ENTER> key is pressed after the report is displayed, printed or saved, the following prompt will appear:



If the <ENTER> key is pressed as a response to the prompt, the requested action will be performed and all “unaudited” records will be marked as “audited”. The only way to display them again is by using the Display Selected Records (Audited or All) or Display Last X functions.

If the <CANCEL> key is pressed as a response to the prompt, the prompt will disappear and all “unaudited” records will remain “unaudited”.

DISPLAY LAST X

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Display Last X option by pressing <2> on the keypad.

DESCRIPTION:

The **Display Last X** function is used to display, print or save all electronic journal records before or after they have been marked as “audited”. “Unaudited” records that are printed out or saved using this command will not be marked as “audited”.

The operator will be prompted to enter the number of journal records to be displayed (starting with the most recent). As an example, if an operator needs to see a transaction that happened about 10 records earlier, entering “13” as the prompt will cause the last 13 records to be displayed. The displayed list should include the record in question.

NOTE: *Entering a number greater than the maximum number of records that can be stored in the journal will cause all records to be displayed.*

The report is displayed in a management report dialog that can be printed to the receipt printer or saved to an external memory device. The Display Last X options saves Journal files in a text (.txt) format that can be viewed by a text editor.

There is not an option (prompt) to mark “unaudited” records that are displayed, printed, or saved as “audited” using this command.

DISPLAY SELECTED RECORDS

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Display Selected Records option by pressing <3> on the keypad.

The screenshot shows a dialog box titled "Main Menu/Electronic Journal/Journal Filter". It contains the following elements:

- 1** Filter Category: Three radio buttons labeled "All", "Audited", and "Unaudited". The "All" radio button is selected.
- 2** Record Type: A dropdown menu currently showing "All".
- 3** Filter By Date: A section with two radio buttons, "All" and "Selected Date". The "Selected Date" radio button is selected.
- 4** Start Date: A date field showing "4/28/2014".
- 5** End Date: A date field showing "4/28/2014".
- 6** Filter By Record Field Text: A dropdown menu labeled "Field:".
- 7** Contains: A dropdown menu.
- Buttons: "Enter" and "Cancel" buttons are located in the top right corner.

DESCRIPTION:

The **Display Selected Records** option allows the terminal operator to perform the following functions:

- 1. ALL/AUDITED/UNAUDITED-** Select the category of records to consider: All Records, All Audited Records or All Unaudited Records.
- 2. RECORD TYPE-** Select the type of journal record to view: All, Transaction, Text Record, Cassette Close, Day Close or Parameter Change.

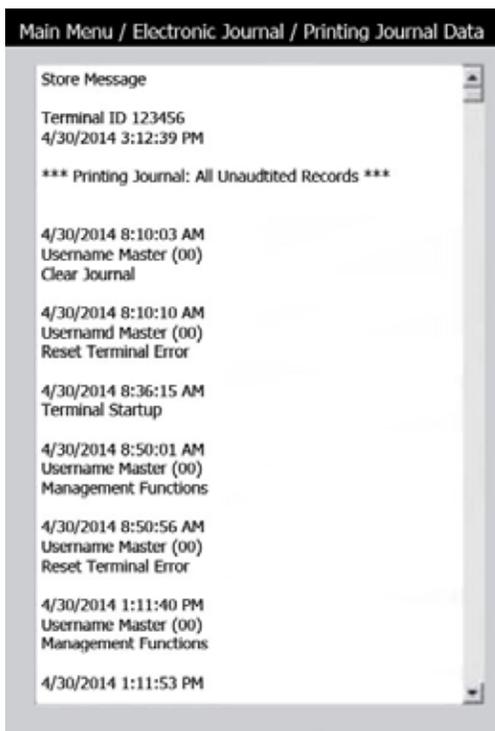
FILTER BY DATE:

- 3. ALL/SELECTED DATES-** Select the date range to use for the Management Report: all dates or selected dates. If selected dates is selected, specify the start date and end date.
- 4. START DATE-** Specify the starting date for the date range of journal records to consider. When selected, a date-entry dialog appears. Type the date in the format MMDDYYYY. Use the arrow keys to toggle between the Month, Day, and Year fields. Press <ENTER> on the keypad to accept.
- 5. END DATE-** Specify the ending date for the date range of journal records to consider. When selected, a date-entry dialog appears. Type the date in the format MMDDYYYY. Use the arrow keys to toggle between the Month, Day, and Year fields. Press <ENTER> on the keypad to accept.

FILTER BY RECORD FIELD TEXT:

6. Field- To see only those records that match a certain field criteria, select the applicable field here. The field types available to select will be determined by the current record type (See Record Type).

7. Contains- When this button is selected, a text-entry dialog appears. Enter a text string to search for. Only those records that contain the text string will be returned in the management report. This function is only applicable to the text record.



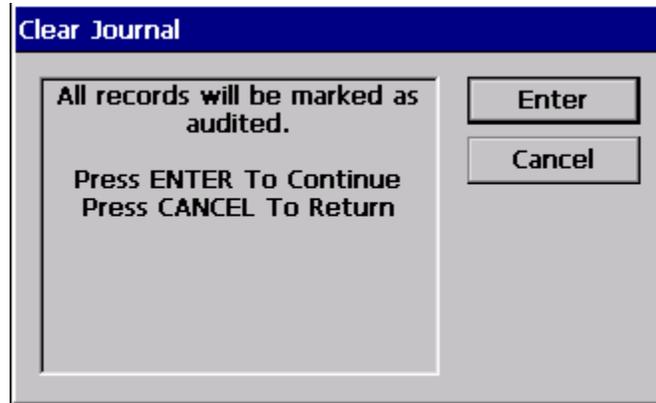
The report is displayed in a management report dialog that can be printed to the receipt printer or saved to an external memory device. The Display Selected Records option saves the journal files in a text (.txt) format. They can be viewed by a text editor.

There is not an option (prompt) to mark “unaudited” records that are displayed, printer or saved as “audited” using this command.

CLEAR JOURNAL

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Clear Journal option by pressing <4> on the keypad.



DESCRIPTION:

The Clear Journal option allows the terminal operator to mark all “unaudited” records in the electronic journal as “audited”. This means that the records will not be displayed the next time the Display Unaudited Records or Display Selected Records (unaudited only) functions are used. Audited records are not erased. They can still be viewed by using the Display Selected Records (audited or all) or Display Last X functions.

⇒ When the <4> key is pressed, the prompt above will appear. Press the <ENTER> key to mark all of the “unaudited” records as “audited”. If the <CANCEL> key is pressed, the prompt will disappear and all “unaudited” records will remain “unaudited”.

ARCHIVE / DELETE JOURNAL

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Archive/Delete Journal option by pressing <5> on the keypad.

DESCRIPTION:

The Archive/Delete Journal function allows the operator to specify the destination and date range for archiving “audited” electronic journal records. The range is based on the date a record was stored. ALL journal records that are marked as “audited” and prior to the specified date will be archived. If an external storage device is not available, it is possible to archive the journal records to internal “flash” memory (see the **WARNING** below).

1. ARCHIVE TO- This option selects where the archived “audited” journal records will be saved. Press the <1> key to select the destination of the archived file. The available options are “None (**Delete**)”, “Internal Flash” or USB Device.

If an external storage device is not available, it is possible to archive the journal records to internal “flash” memory (see **WARNING** below). The default value is “None (Delete)” where audited records prior to the specified date will be deleted and no archive is created. Once deleted, the selected “audited” records CANNOT be retrieved. This option can be used after all applicable records have been archived to an external storage device and internal memory needs to be freed up on the main board.

2. ARCHIVE RECORDS PRIOR TO- By default, the current date appears in the data entry field. To specify a different date, enter it in the format MMDDYYYY (for example, April 9, 2014 would be entered as 04092014). All journal entries that have been recorded before the specified date will be saved to an archive file.

NOTE: The operator can view archived journal records using the “View Journal Archive” command.

**** WARNING ****

Avoid archiving to Internal Flash whenever possible. This will fill up available memory very quickly, which may result in Error Code 151 - Electronic Journal Full.

VIEW JOURNAL ARCHIVE

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the View Journal Archive option by pressing <6> on the keypad.

Main Menu/Electronic Journal/Browse

Use the arrows keys to move up/down in the list of files. Press ENTER to select the highlighted file. Press F1 to refresh the list of locations and files.

1 Look in: Internal Flash

2 Files of type: Journal Files (*.jrr) Preview 3

Filename	Size	Date and Time
----------	------	---------------

DESCRIPTION:

Use the View Journal Archive function to locate and view a previously archived journal. The controls on this function are described below:

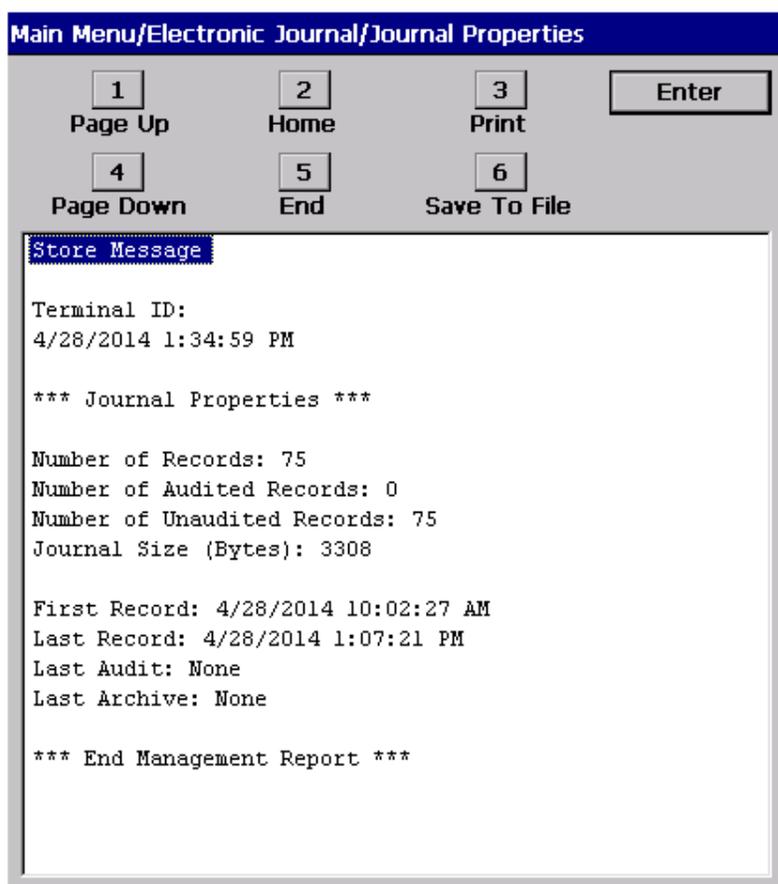
1. **LOOK IN-** This function is used to select the location where archived journal files may be found. This will typically be the terminal internal flash memory or an external memory device.
2. **FILES OF TYPE-** Use this function to select the appropriate file type. The journal (.jrn) file type is selected by default. Only “audited” .jrn file types can be viewed in this manner (they can be transported by an external USB storage device (i.e. thumb drive) and viewed on any XScale based terminals). The Display Unaudited Records, Display Last X and Display Selected Records options save journal files in a text (.txt)format. They can be viewed by a text editor.

After selecting the appropriate “Look In” and “Files of Type” settings, a list of files in the specified location will be displayed, showing the Filename, Size and Date/Time headings in a column format. Use the left and right arrow keys on the keypad to move the highlight bar up and down the list. Once an archived journal file is highlighted, press <ENTER> to select a file. This will launch the Display Selected Records option. Refer to that section for additional information. Select <CANCEL> to ignore the selection and exit the function.

JOURNAL PROPERTIES

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Journal Properties option by pressing <7> on the keypad.

**DESCRIPTION:**

The Journal Properties function will display a management report that provides specific information about the electronic journal, such as the number of records in the journal, the number of records that have been audited, the number of unaudited records, etc. This report can be printed or saved to an external memory device.

AUTO ARCHIVE

ACCESS INSTRUCTIONS:

From the Electronic Journal screen, select the Auto Archive option by pressing <8> on the keypad.

DESCRIPTION:

The Auto Archive function will set the parameters that will allow the electronic journal data to be archived/deleted at a predefined schedule based on the time in days and the size of the journal file measured in megabytes (MB).

1. Archive To- This option selects where the archived “audited” journal records will be saved.

⇒ Press the <1> key repeatedly to select the destination of the archived file. The available options are “None (**Delete**)”, “Internal Flash” or “USB Device”. If an external storage device is not available, it is possible to archive the journal records to internal “flash” memory. The default value is “None (**Delete**)” where audited records prior to the specified date will be **DELETED** and no archive is created. Once deleted, the selected “audited” records **CANNOT** be retrieved. This option can be used after all applicable records have been archived to an external storage device and internal memory needs to be freed up on the main board.

2. Archive When Journal Size Exceeds- When the journal exceeds the specified size (in mega bytes MB), all “audited” records older than the specified number of days (refer to item 3) will automatically be archived. Valid values for entry are 1-10. The default value is 2.

⇒ Press <2> on the keypad. A data entry dialog box appears. Enter the value for the journal size. Press <ENTER> when completed.

3. Archive All Audited Records Older than- This number specifies which journal records will be automatically archived. All “audited” journal records other than the specified number of days previous to the current date will be archived or deleted when the journal exceeds the specified size (refer to item 2). Valid values for entry are 1-9999. This number should be set to a low value. The default value is 7.

Normally the ATM would go out of service if the journal reached the maximum defined size and there are no audited records older than the specified date. The ATM should no longer go out of service for this condition (Error Code 151 - Electronic Journal Full).

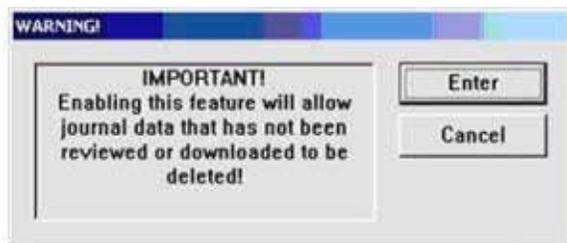
When the electronic journal reaches the maximum defined size, the terminal should archive or delete all records older than the specified date, regardless if they are audited or not.

Note that this means the journal can grow larger than the maximum defined size if there are no records older than the configured date. This condition will still not force the terminal out of service with a 151 Error. However, it is possible for the terminal to eventually go out of service with a low flash error if the journal grows too large.

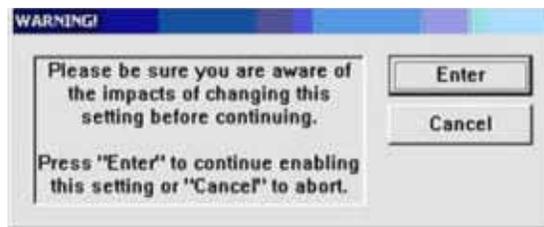
⇒ Press <3> on the keypad. A data entry dialog box appears. Enter the number of days when records will be archived. Press <ENTER> on the keypad when complete.

4. Archive Unaudited Records- When this option is enabled (checked), it allows archiving/deletion of “unaudited” records. *NOTE: This option is only available to the “Master” user.*

⇒ Press <4> on the keypad.
The following prompt appears:



⇒ Selecting <ENTER> will continue to the next prompt. Select <CANCEL> will leave it disabled.



⇒ Selecting <ENTER> will “enable” (checked) the “Archive Unaudited Records” option. Selecting <CANCEL> will leave it disabled (unchecked).

When this setting has changed, the journal should log this in a parameter change record. Here is an example of this record:

Username: Master

Parameter Change: Archive unaudited records **Old:** Disabled **New:** Enabled

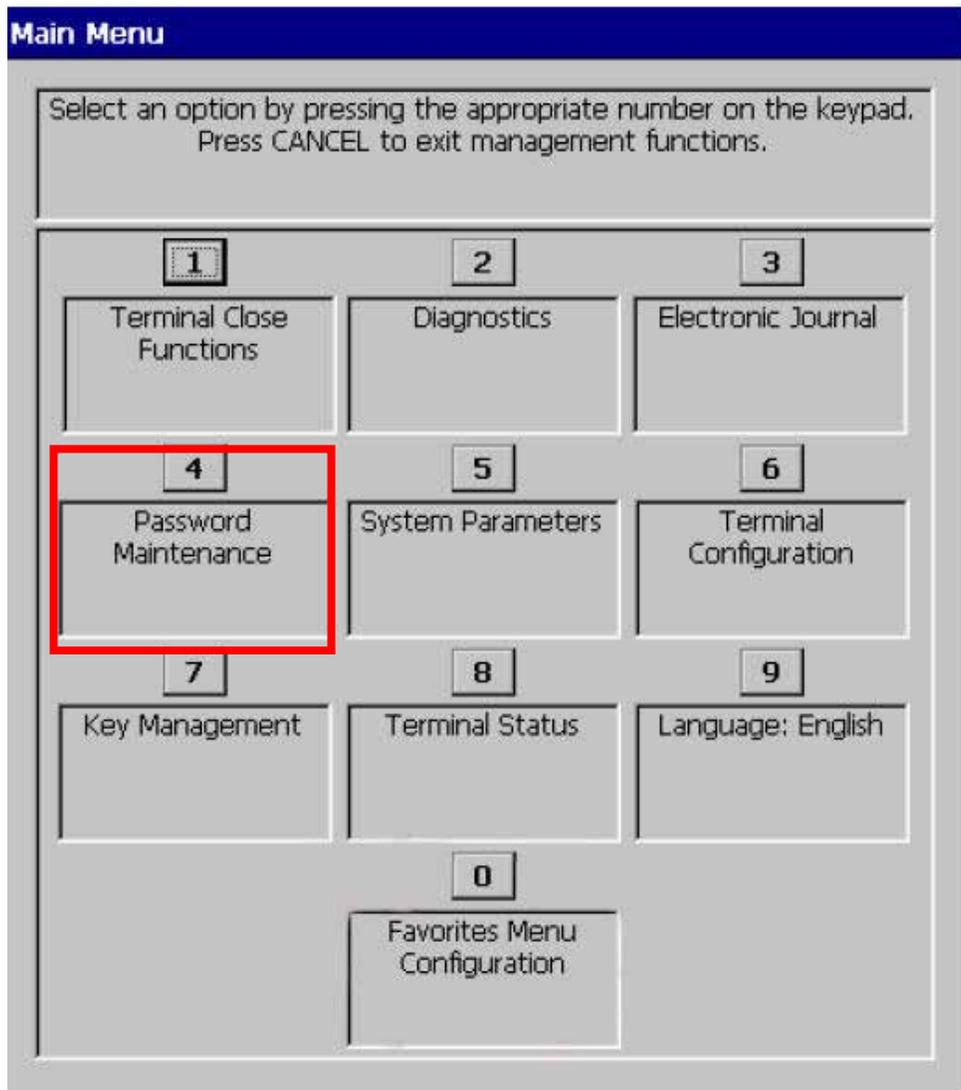
The current setting for this option should be displayed in the configuration summary if the setting is enabled:

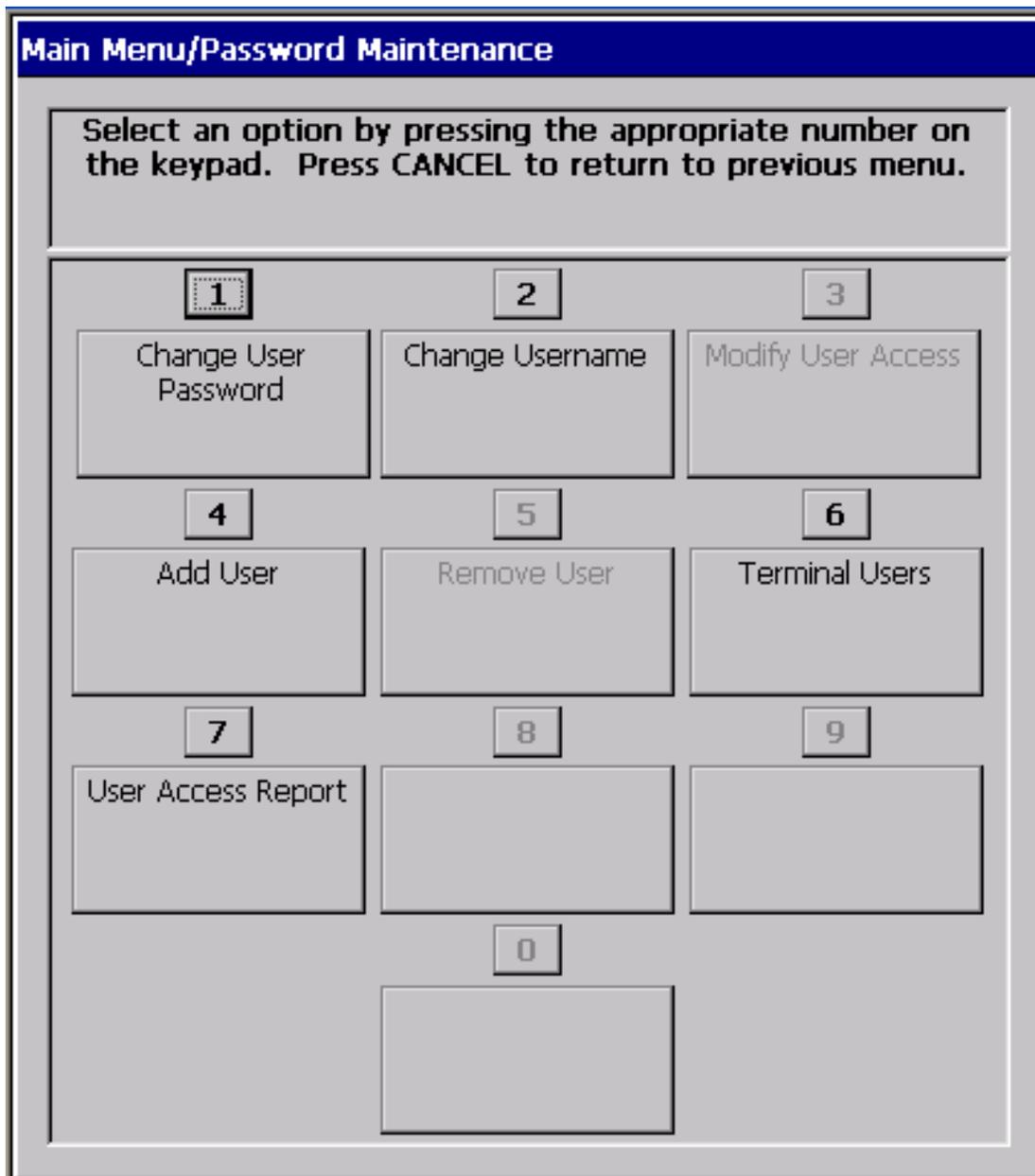
Auto Archive

Archive to: None (Delete)
Archive when journal size exceeds: 2 MB
Archive all audited records older than: 7 days
Archive unaudited records: Yes

OPTION 4

PASSWORD MAINTENANCE



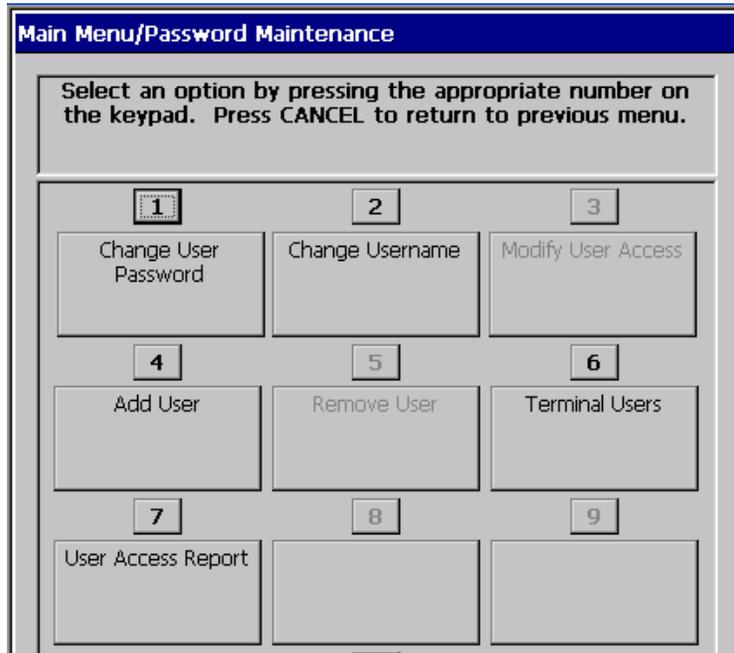


PASSWORD MAINTENANCE

PASSWORD MAINTENANCE MENU OPTIONS OVERVIEW.....	68
CHANGE USER PASSWORD/USER NAME.....	69
MODIFY USER ACCESS.....	70
ADD USER/REMOVE USER.....	71
TERMINAL USERS/USER ACCESS REPORT.....	72

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Password Maintenance option by pressing <4> on the keypad.



DESCRIPTIONS:

The Password Maintenance option allows the terminal operator to perform the following functions:

NOTE: Functions with an asterick () can only be performed by the Master User.*

1. **CHANGE USER PASSWORD**- Use this function to change the currently logged in user's password.
2. **CHANGE USER NAME**- Used to change the name assigned to a user.
3. ***MODIFY USER ACCESS**- Used to change the level of access assigned to a designated user.
4. ***ADD USER**- Adds a 2-digit ID and user name to the system.
5. ***REMOVE USER**- Removes a user from the system. Once removed, all password access for the selected user is cancelled.
6. **TERMINAL USERS**- Lists users by 2-digit user ID and user name.
7. **USER ACCESS REPORT**- Displays the user access report for selected/all user(s).
8. ***CHANGE USERS PASSWORD**- Used to change other users' passwords.

CHANGE USER PASSWORD

ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Change User Password option by pressing <1> on the keypad.

DESCRIPTION:

The **Change User Password** function allows the currently logged in user to change their password. To change the password:

- ⇒ Select <1> on the keypad. When prompted, enter the new password consisting of between 4-12 numeric digits. Press <ENTER> on the keypad.
- ⇒ You will be prompted to re-enter (confirm) the new password. Press <ENTER> on the keypad.

NOTE: The terminal password consists of a 2-digit ID code and a password of 4-12 digits. The Master ID code is “00” and CANNOT be changed. Only enter the password digits.

Example: If you enter “5566”, then the master password will be changed to “005566”. If you enter “005566”, then the master password will be changed to “00005566”.

CHANGE USERNAME

ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Change Username option by pressing <2> on the keypad.

DESCRIPTION:

The **Change Username** function allows the currently logged in user to change their user name. To change the user name:

- ⇒ When prompted, enter a new user name. The new name may consist of up to a maximum of 40 alphanumeric characters.
- ⇒ Press <ENTER> on the keypad when complete.

MODIFY USER ACCESS

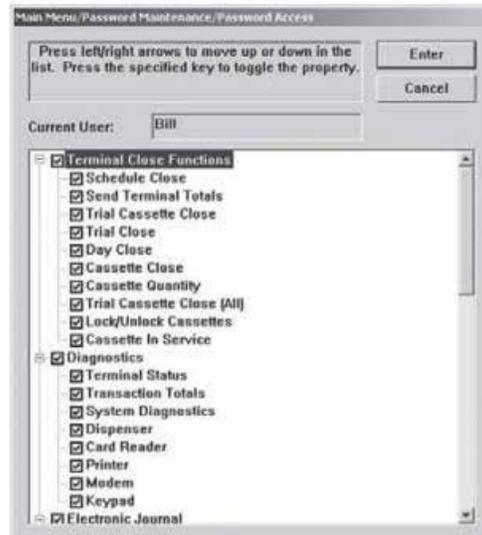
ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Modify User Access option by pressing <3> on the keypad.



*** Note ***

This function is only available to personnel with Master password access to Management Functions.



DESCRIPTION:

The Modify User Access function allows the master user to select which option(s) in Management Functions will be accessible by the user. To modify user access privileges:

⇒ Enter the 2-digit ID for the specified user. Press <ENTER> on the keypad.

A dialog box appears showing a list of Management Functions that can be accessed to the user. The functions are organized according to Main Menu headings. “Checked” items will be accessible and “unchecked” items will not.

Follow these steps to select/deselect an entire functional group or specific function within a group:

1. Use the left and right arrow keys (<>) to move the highlight bar up and down the list. You can highlight a functional group name (such as Diagnostics) or a specific function within a group.
2. To deselect ALL the functions within a group, highlight the group name and press the <CTRL> key to remove the checkmark next to the group name. ALL functions within the group will be deselected (checkmarks removed) indicating that access to these functions will be denied. To select ALL functions within a group, highlight that group name and press the <CTRL> key to add a checkmark next to the group name. ALL functions within the group will be selected (checkmarks added) indicating that access to these functions will be allowed.
3. To deselect a specific function within a group, highlight the function and press the <CTRL> key to remove the checkmark from the function. To select a function, highlight the function and press the <CTRL> key to add a checkmark.
4. Press <ENTER> on the keypad to accept your choices. The user will be able to access only those functions that were selected (checkmarked), all others will be denied.

ADD USER

ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Add User option by pressing <4> on the keypad.

DESCRIPTION:

The Add User function allows adding a new user to the system. To add a new user:

1. Enter the new user 2-digit ID code. Press <ENTER> on the keypad.

NOTE: By default, the first available ID code will be displayed. To accept the code, simply press the "Enter" key. If you want to use a different code, enter a 2-digit value between 01 and 99 that is not currently assigned to an existing user and press <ENTER>.

2. When prompted, enter a user name for this individual (maximum of 40 alphanumeric characters). Press <ENTER> on the keypad.

3. When prompted, enter the new password consisting of between 4-12 numeric digits. Press <ENTER> on the keypad. Re-enter the password for confirmation.

REMOVE USER

ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Remove User option by pressing <5> on the keypad.

DESCRIPTION:

The **Remove User** function allows removing an existing user from the system. To remove an existing user:

- ⇒ Enter the user 2-digit ID code. Press <ENTER>. The terminal operator will be prompted to confirm the removal option. Press <ENTER> to confirm the removal of the user or <CANCEL> to exit.

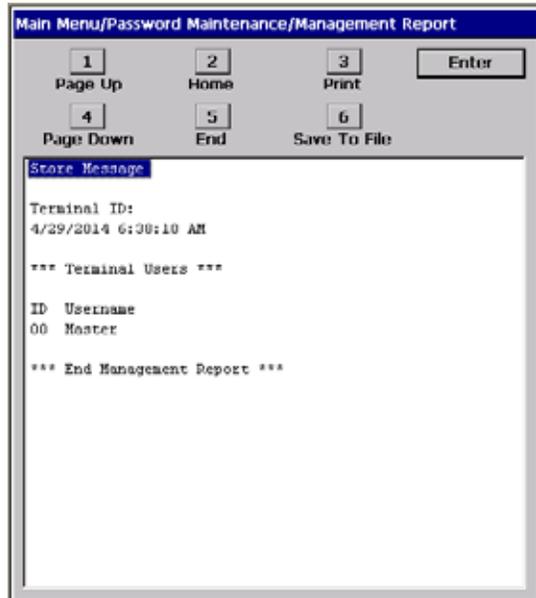
TERMINAL USERS

ACCESS INSTRUCTIONS:

From the Password Maintenance screen, select the Terminal Users option by pressing <6> on the keypad.

DESCRIPTION:

The Terminal Users function lists the ID code and corresponding user name for all users in the system. This status is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.



USER ACCESS REPORT

ACCESS INSTRUCTIONS:

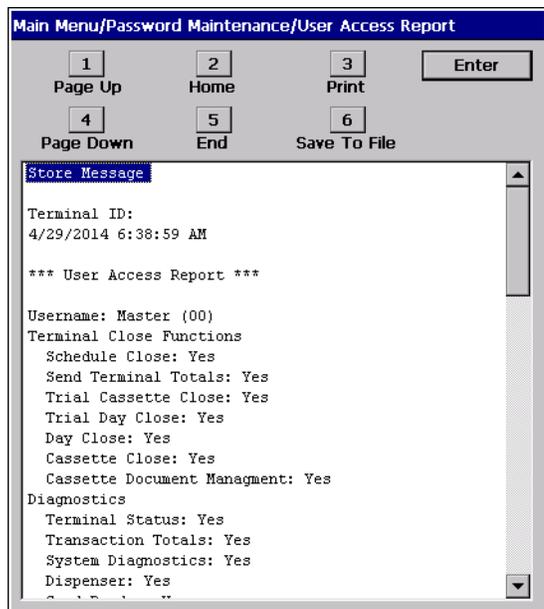
From the Password Maintenance screen, select the Terminal Users option by pressing <7> on the keypad.

DESCRIPTION:

The User Access Report lists the management functions the selected user(s) can access.

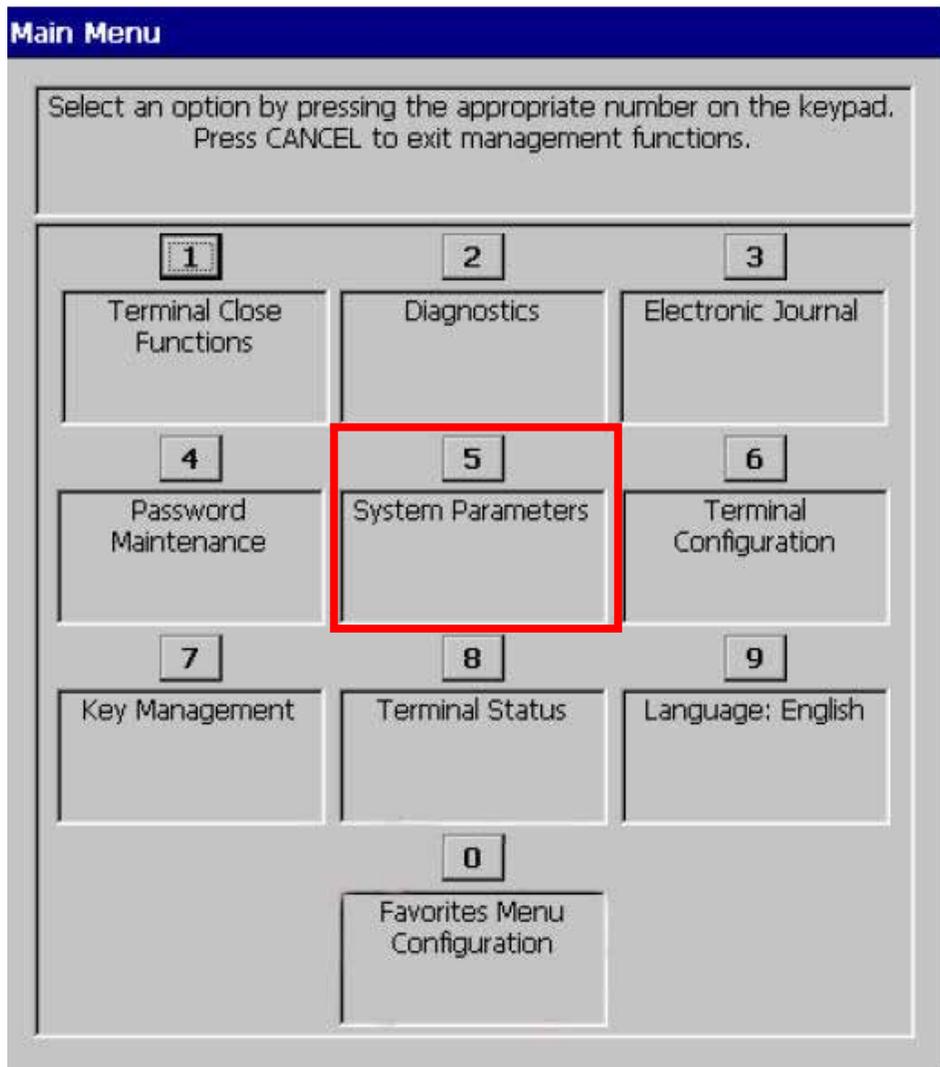
⇒ Enter the selected user 2-digit ID code. Press <ENTER> on the keypad. The user(s) access report is displayed.

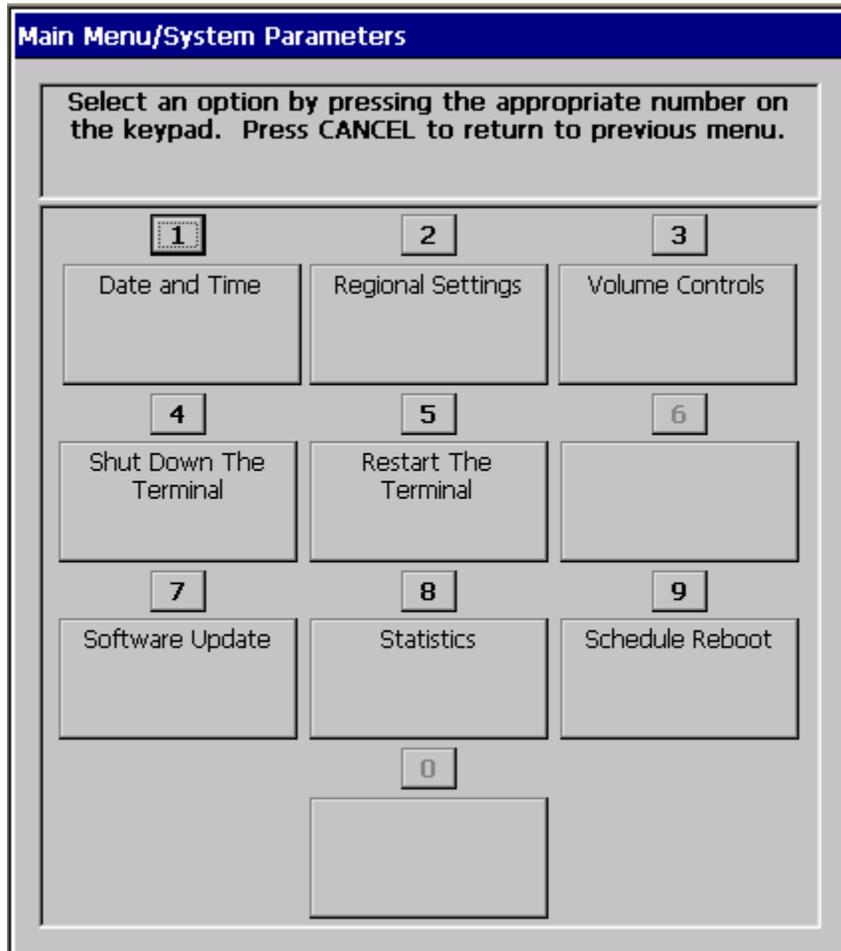
This status is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.



OPTION 5

SYSTEM PARAMETERS





SYSTEM PARAMETERS FUNCTIONS

SYSTEM PARAMETERS MENU OPTIONS OVERVIEW.....75

DATE AND TIME.....76

REGIONAL SETTING/REGIONAL AND LANGUAGE SETTINGS.....77

 SET REGION.....79

 SET NUMBERS.....80

 SET CURRENCY.....82

 SET TIME/SET DATE.....84

VOLUME CONTROL.....86

SHUTDOWN/RESTART TERMINAL.....87

SELECT SCREEN FILE.....88

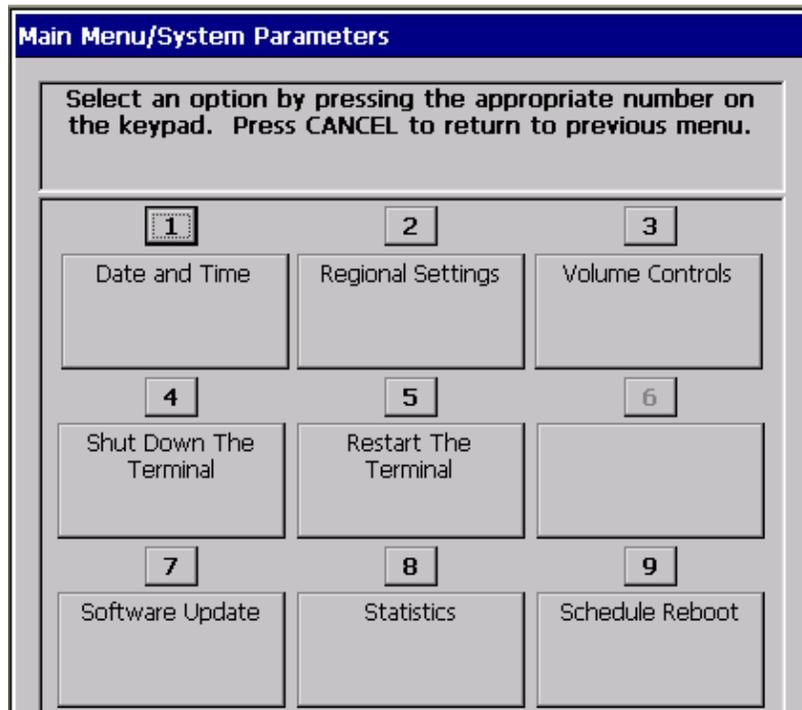
SOFTWARE UPDATE.....89

STATISTICS.....91

SCHEDULE REBOOT.....92

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the System Parameters option by pressing <5> on the keypad.



DESCRIPTIONS:

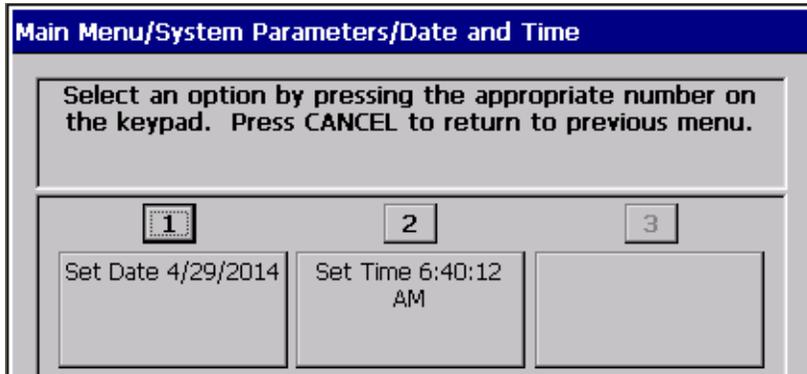
The System Parameters option allows the terminal operator to perform the following functions:

- 1. Date and Time-** This function allows the user to set the terminal date and time properties.
- 2. Regional Settings-** Use this function to change the terminal's physical location (country/region), numbering scheme, currency (monetary value), time and date settings.
- 3. Volume-** This function allows you to raise or lower the speaker volume.
- 4. Shut Down the Terminal-** This function will power down the operating system.
NOTE: This function does not remove power to the terminal. The user must manually turn the power supply off when prompted that shutdown has completed.
- 5. Restart the Terminal-** This function will reset (reboot) the terminal.
- 6. Select Screen File-** Use this function to select the Triton Screen Manager File that will determine the appearance and functionality of the customer screens.
- 7. Software Update-** This function searches for a terminal software installation file on an external storage device. If found and selected, the terminal will restart and the installation of the software will be performed automatically.
- 8. Statistics-** Generates a management report showing the number of terminal start-ups, normal shutdowns, abnormal shutdowns and terminal uptime.
- 9. Schedule Reboot-** This function enables the user to establish a time at which a terminal reboot will be performed automatically.

DATE AND TIME

ACCESS INSTRUCTIONS:

From the Systems Parameters screen, select the Date and Time option by pressing <1> on the keypad.



DESCRIPTION:

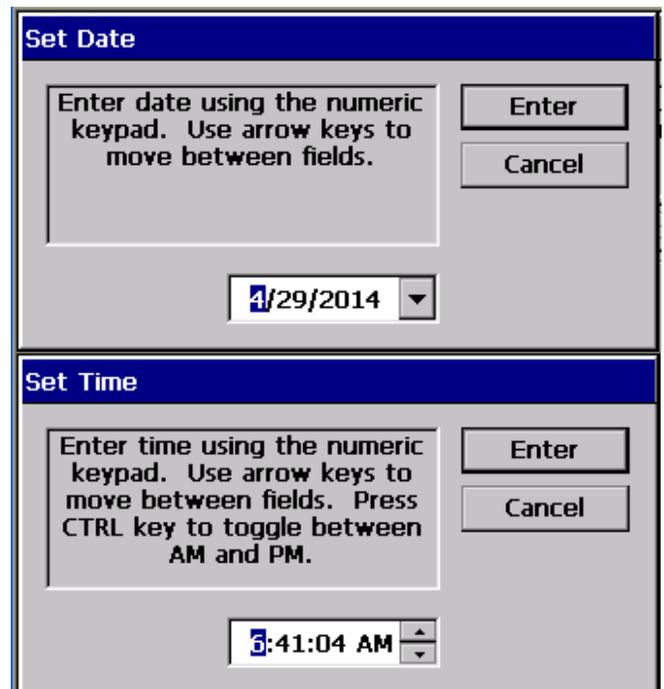
The Date and Time function allows the user to set the terminal date and time properties.

To set the DATE:

⇒ Press <1> on the keypad. Using the numeric keypad, enter the date in the data entry dialog box. Move between fields with the right and left arrow keys. Press <ENTER> on the keypad when complete.

To set the TIME:

⇒ Press <2> on the keypad. Using the numeric keypad, enter the terminal's time in the data entry dialog box. Move between the fields with the right and left arrow keys. Press the <CTRL> key to toggle between AM and PM. Press <ENTER> on the keypad when complete.



*The **Advanced Settings** function provides an alternative time/date change dialog but is primarily used to change the terminal's time zone and daylight savings properties.

NOTE: This option has been removed on software running X2 equipped units.

Use the following keys on the keyboard to navigate the date/time properties dialog:

<CLEAR>- This key lets you jump from section to section within a dialog. It functions like the Tab key on a PC keyboard. Once a section is "active" (highlighted via a change in color or a dotted border), you can select an option in that area.

ARROW <> KEYS- Press these keys to cycle through the available options in an area.

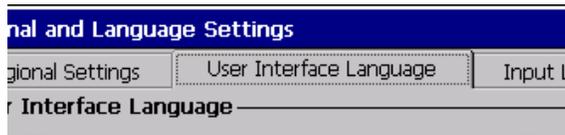
<CTRL>- Press this key to change a checkbox option from the checked (enabled) and unchecked (disabled) conditions.

REGIONAL SETTINGS

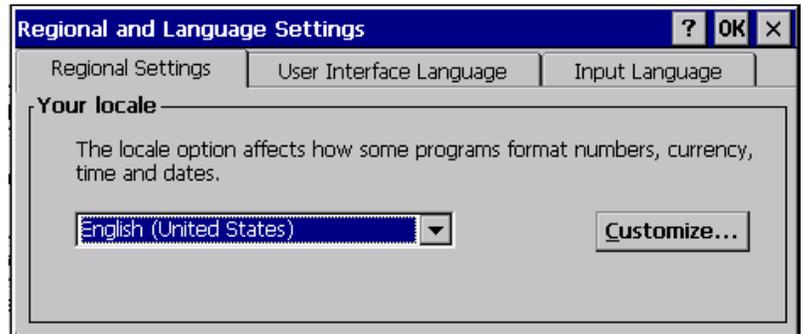
ACCESS INSTRUCTIONS:

From the Systems Parameters screen, select the Regional Settings option by pressing <2> on the keypad.

From the Regional Settings Properties screen, use the <CLEAR> key to select the option tabs at the top (a dashed line will appear around one of the tabs). Use the <ARROW> keys to move to an option tab (a dashed line will appear around the selected tab).



THESE OPTIONS AVAILABLE WITH OLDER X-SCALE SOFTWARE.



THESE OPTIONS AVAILABLE WITH NEWER SOFTWARE.

DESCRIPTION:

The Regional and Language Settings allows the user to configure the following:

- ⇒ **REGION-** Use this function to change the terminal's physical Locale properties (Country/Region).
- ⇒ **NUMBERS-** Use this function to change the terminal's displayed Number formats.
- ⇒ **CURRENCY-** Use this function to change the terminal's displayed Monetary Values.
- ⇒ **TIME-** Use this function to change the terminal's displayed Time.
- ⇒ **DATE-** Use this function to change the terminal's displayed Date.

The Regional and Language Settings allow you to configure the following:

⇒ **REGIONAL SETTINGS-** Use this function to set the locale option (country). Select "Customize" to configure:

- ⇒ **REGION-** Use this function to change the terminal's physical Locale properties (Country/Region).
- ⇒ **NUMBERS-** Use this function to change the terminal's displayed Number formats.
- ⇒ **CURRENCY-** Use this function to change the terminal's displayed Monetary Values.
- ⇒ **TIME-** Use this function to change the terminal's displayed Time.
- ⇒ **DATE-** Use this function to change the terminal's displayed Date.
- ⇒ **USER INTERFACE LANGUAGE-**
- ⇒ **INPUT LANGUAGE-**

NAVIGATING THE REGIONAL SETTINGS PROPERTIES DIALOG:

Use the following keys on the keyboard to navigate:

- ⇒ <CANCEL>- Aborts the current operation and acts like the ESC key on a PC keyboard.
- ⇒ <CLEAR>- Moves to the next field in a dialog box and acts like the TAB key on a PC keyboard.
- ⇒ <ENTER>- Accepts the current entry or selection and acts like the Enter or Return key on a PC keyboard.
- ⇒ <CONTROL>- This is the unlabeled (blank) key in the lower right corner of the keypad. This key acts like the Space Bar on a PC keyboard to check or uncheck a checkbox control.
- ⇒ <ARROW KEYS>- Press these keys to cycle through the available options in an area.
- ⇒ <F4>- Press this function key to display a drop down list of options for the selected field.
- ⇒ <F8>- Press this function key to display an on-screen keypad for entering alphanumeric data into the selected field.

SET REGION



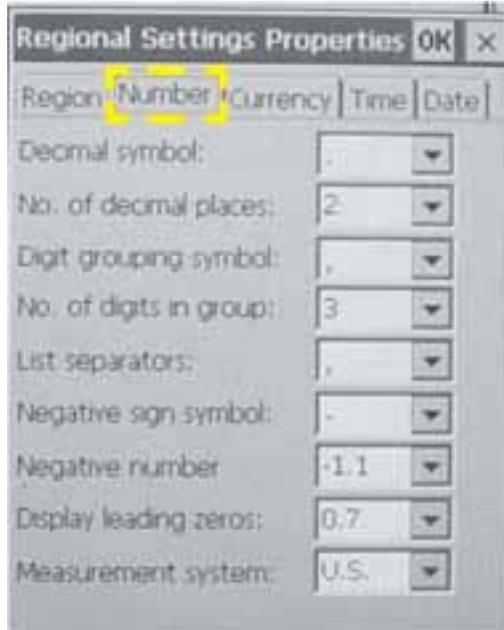
The Region tab lets you adjust the terminal's physical location (country/region).

TO CHANGE A REGION SETTING:

1. From the Regional Settings Properties screen, press the <CLEAR> key to activate the option tabs at the top of the screen (a dashed line will outline one of the tab headings). Use the <ARROW> keys to select the Region tab.
2. With the Region tab selected, press the <CLEAR> key to activate the "Your Locale:" option. A country/region will be highlighted.
3. Use the <ARROW> keys to scroll through the available country/regional options.
4. Press the <ENTER> key when the correct location is highlighted.

APPEARANCE SAMPLES- These examples display standard Time, Date (long/short), Numbers (positive/negative), and Currency (positive/negative) with the current format options. They will update every time a new format is selected for each option field.

SET NUMBERS



DESCRIPTION:

The Number tab allows the user to adjust the terminal displayed number formats. The default settings are standard for the country/region selected on the Region screen.

TO CHANGE A NUMBER SETTING:

1. From the Regional Settings Properties screen, press the <CLEAR> key to activate the option tabs at the top of the screen. Use the arrow keys to select the Number tab.
2. Press the <CLEAR> key to move down through the available options. When an option is selected, press an arrow key repeatedly to scroll through the available selections.
3. Press the <ENTER> key on the keypad when all changes have been completed.

NOTE

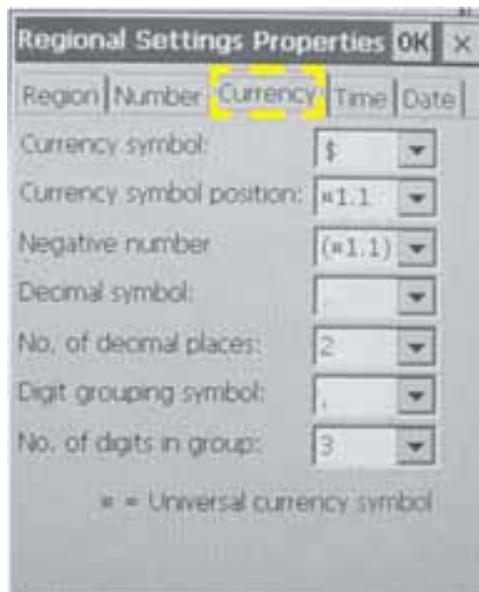
In some cases, none of the standard settings may satisfy the requirements. A value can be manually entered in the field by pressing the <F8> function key which will display an on-screen keyboard. Use <8> for Up, <0> for Down, and the <ARROW> keys to navigate around the keyboard. Press the <ENTER> key to make a selection and save the value in the field.

⇒ **DECIMAL SYMBOL**- Determines the symbol used to designate a decimal point. The default symbol is a period (i.e. 100.00).

⇒ **NO. OF DECIMAL PLACES**- Determines the number of digits used to display decimal number (i.e. 100,100.00 or 100.000).

- ⇒ **DIGIT GROUPING SYMBOL-** Determines the symbol used to separate groups of digits in large numbers. The default symbol is a comma (i.e. 10,000 or 1,000,000).
- ⇒ **NO. DIGITS IN GROUP-** Determines if and how large numbers are grouped. **I.E.** 123456789 (no groupings) or 12,1234,789 (grouping).
- ⇒ **LIST SEPARATORS-** Determines which symbol is used to separate items in a list, as in 100, 1245, 764. The default is a comma (,), but common alternatives are a colon (:) or semicolon (;).
- ⇒ **NEGATIVE SIGN SYMBOLS-** The default negative symbol is the minus sign (-). The user can change the format in which a negative number is displayed in the negative number format field.
- ⇒ **NEGATIVE NUMBER-** A negative symbol can be placed in front of the number (i.e. -123456, with or without a space), behind it (i.e. 123456-) or the number will be bracketed by parentheses [i.e. (123456)].
- ⇒ **DISPLAY LEADING ZEROES-** Determines whether the number is displayed with a leading zero such as 0.7 (with) or .7 (without).
- ⇒ **MEASUREMENT SYSTEM-** With U.S. settings, the user can choose either metric (meters, centimeters, liters, and so on) or U.S. measurement (feet, inches, gallons, ounces, pounds, etc...). The British setting will default to the metric system.

SET CURRENCY



DESCRIPTION:

The Currency tab allows the user to adjust the terminal displayed monetary values. The default settings are standard for the country/region selected on the Region screen.

TO CHANGE A CURRENCY SETTING:

1. From the Regional Settings Properties screen, press the <CLEAR> key to activate the option tabs at the top of the screen (a dashed line will outline one of the tab headings). Use the <ARROW> keys to select the Currency tab.
2. Press the <CLEAR> key to move down through the available options. When an option is selected, press the <ARROW> key repeatedly to scroll through the available selections.
3. Press the <ENTER> key when all changes have been made.

NOTE

In some cases, none of the standard settings may satisfy the requirements. A value can be manually entered in the field by pressing the <F8> function key which will display an on-screen keyboard. Use <8> for Up, <0> for Down, and the <ARROW> keys to navigate around the keyboard. Press the <ENTER> key to make a selection and save the value in the field.

⇒ **CURRENCY SYMBOL-** Select the currency symbol for the currency country/region. The default is the dollar sign (\$) for the United States.

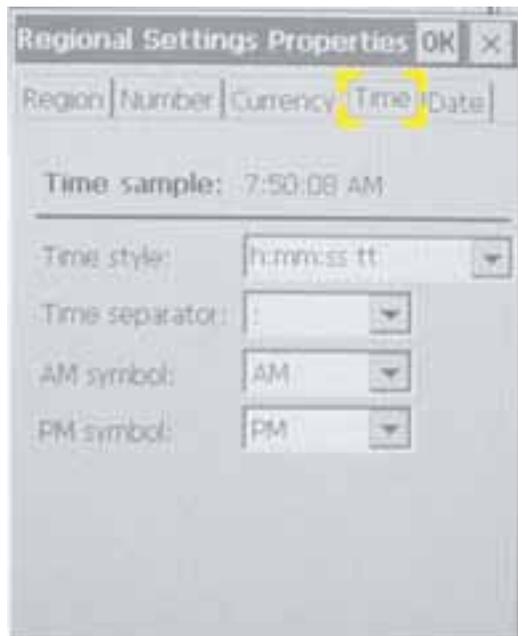
⇒ **CURRENCY SYMBOL POSITION-** Determines whether the currency symbol will appear before or after the number representing the monetary value (i.e. \$100.00 or 100.00\$).

⇒ **Negative number-** A negative symbol can be placed in front of the number (i.e. -\$12.3), behind it (i.e. \$12.34-), or the number will be bracketed by parentheses [i.e. (\$12.34)].

SYSTEM PARAMETERS

- ⇒ **NEGATIVE NUMBER**- A negative symbol can be placed in front of the number (i.e. -\$12.34), behind it (i.e. \$12.34-) or the number will be bracketed by parentheses [i.e. (\$12.34)].
- ⇒ **DECIMAL SYMBOL**- Determines the symbol used to designate a decimal point. The default symbol is a period (i.e. \$100.00).
- ⇒ **NO. OF DECIMAL PLACES**- Determines the number of digits used to display decimal numbers (i.e. 100, 100.00 or 100.000).
- ⇒ **DIGIT GROUPING SYMBOL**- Determines the symbol used to separate groups of digits in large numbers. The default symbol is a comma (i.e. \$10,000 or \$1,000,000).
- ⇒ **NO. DIGITS IN GROUP**- Determines if and how large numbers are grouped. I.E. \$123456789(no grouping) or 12,1234,789 (grouping).

SET TIME AND DATE



DESCRIPTION:

The Time and Date tabs allows the user to adjust the terminal's displayed Time and Date. The default settings are standard for the country/region selected on the Region screen.

TO CHANGE THE TIME OR DATE SETTINGS:

1. From the Regional Settings Properties screen, press the <CLEAR> key to activate the option tabs at the top of the screen. Use the arrow keys to select the Time or Date tab.
2. Press the <CLEAR> key to move down through the available options. When an option is selected, press the <ARROW> key repeatedly to scroll the available selections.
3. Press the <ENTER> key when all changes have been completed.

NOTE

In some cases, none of the standard settings may satisfy the requirements. A value can be manually entered in the field by pressing the <F8> function key which will display an on-screen keyboard. Use <8> for Up, <0> for Down, and the <ARROW> keys to navigate around the keyboard. Press the <ENTER> key to make a selection and save the value in the field.

The default Time setting is represented by hours, minutes, and seconds along with AM or PM as applicable.

- ⇒ **HOURS-** Can be set as one or two digits (i.e. 4 or 04), using either the 12 or 24 hour clock [i.e. 4:00 in the afternoon can be displayed as 4:00:00 PM (with or without a preceding 0) or as 16:00:00].
- ⇒ **TIME SEPARATOR-** The colon (:) is a default time separator (i.e. 4:00 PM).
- ⇒ **AM AND PM SYMBOLS-** Defaulted to AM and PM.

The default Date setting makes use of the Gregorian calendar. The United States and most English speaking countries make use of this calendar. The actual format is defined when the country/region is selected on the Region tab.

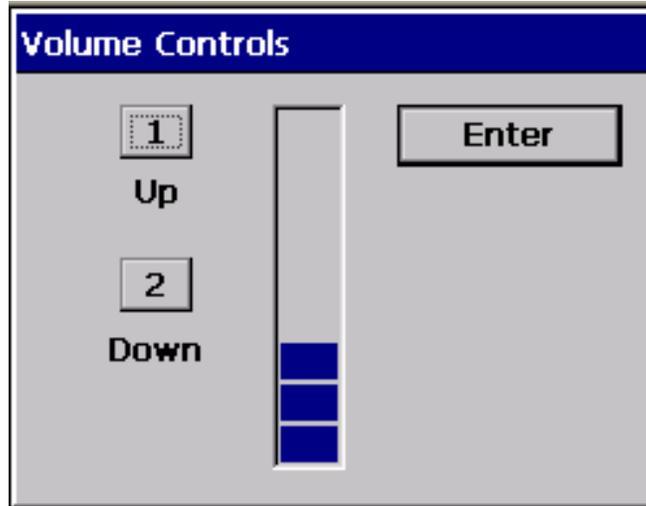
Both the long and short methods of displaying the date can be defined separately by the other options on this window. Samples are provided in their respective sections, which will update each time a change is made.

- ⇒ **SHORT-** By default, the U.S. region short date is displayed as MM/DD/YY, which means the month is first, followed by the day and then by the last two digits of the year (i.e. 04/09/14). Multiple options can be selected as previously described.
- ⇒ **DATE SEPARATOR-** The only pre-defined option is the forward slash (/). It can be manually changed using the <F8> function key to bring up the on-screen keyboard as previously described.
- ⇒ **LONG DATE-** There are four formats available that represent the day of the week as well as the month, day and year (i.e. dddd, MMM, DD, YYYY or Wednesday April 09 2014). Multiple options can be selected as previously described.

VOLUME CONTROLS

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Volume Controls option by pressing <3> on the keypad.



DESCRIPTION:

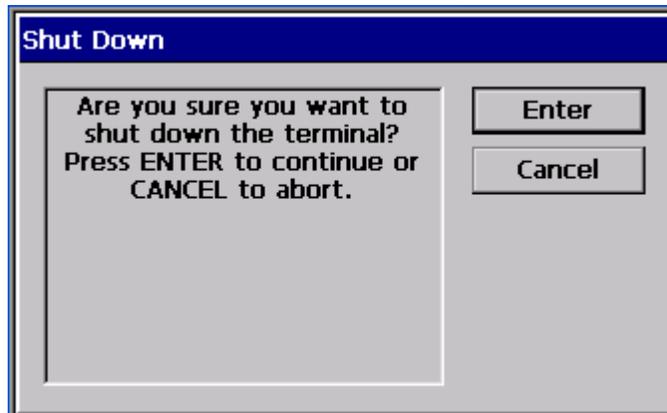
The Volume Controls option will adjust the speaker volume.

⇒ Press the <1> key to raise the volume and the <2> key to lower the volume. The indicator bar will provide a visual indication of the current volume level. Press <ENTER> on the keypad to save the setting.

SHUTDOWN TERMINAL

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Shutdown Terminal option by pressing <4> on the keypad.



DESCRIPTION:

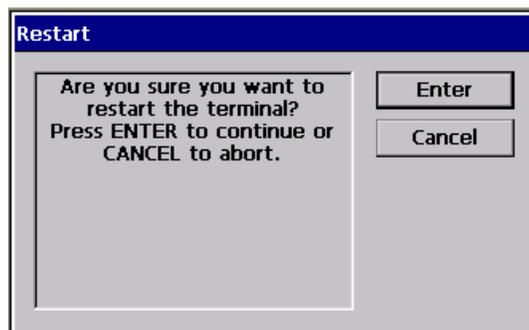
The Shutdown Terminal function will power down the terminal operating system.

- ⇒ Press <4> on the keypad. When prompted, press <ENTER> on the keypad to initiate the shutdown operation. Once the computer is shut down, the user will have to manually turn the power supply ON/OFF switch to the OFF position. To restore power, turn the power supply ON/OFF switch to the ON position.

RESTART TERMINAL

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Restart Terminal option by pressing <5> on the keypad.



DESCRIPTION:

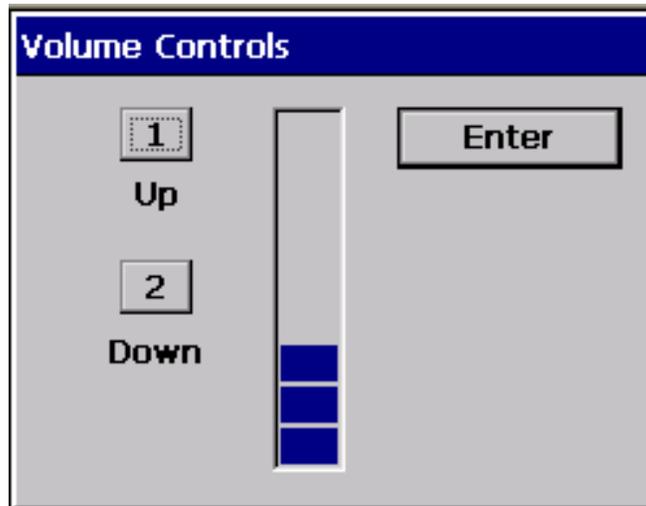
The Restart Terminal function will reboot the terminal. It will take several minutes for the terminal to power down and then power back up again.

- ⇒ Press <5> on the keypad. When prompted, press <ENTER> on the keypad to initiate the restart operation.

SELECT SCREEN FILE

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Select Screen File option by pressing <6> on the keypad.



DESCRIPTION:

The Select Screen File function uses a browse dialog to locate and select the Triton screen manager file that will determine the appearance and functionality of the customer screens. The Browse controls are described below:

LOOK IN- Press this button to cycle through the available locations for screen files: (i.e. Internal Flash or an external memory device).

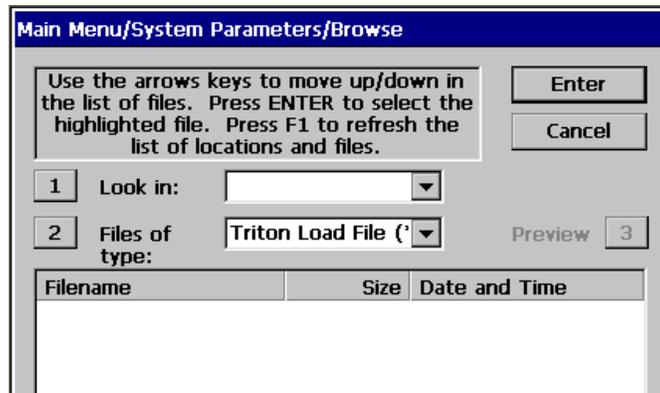
FILES OF TYPE- Selects the file type to browse for. The default file type is Triton Screen Manager (.TSM).

The file list shows the available screen manager files in the selected location. The filename, size, and date/time attributes are shown for each file. Use the <ARROW> keys on the keypad to highlight a file. Press the <ENTER> key to select the highlighted screen file. You will be prompted that you selected screen file <***>. Press <ENTER>. The terminal will restart automatically.

SOFTWARE UPDATE

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Software Update option by pressing <7> on the keypad.



DESCRIPTION:

The Software Updates function will load/update the software components with the software file stored on an external memory device. The update version must be greater than the current version running on the terminal. If not, the unit will fall back to the current version.

NOTE: X2 equipped units use load file format Triton#.TFV extensions. X-Scale equipped units use load file format Triton#.TLF extension. The terminal will not accept a load file it is not equipped for.

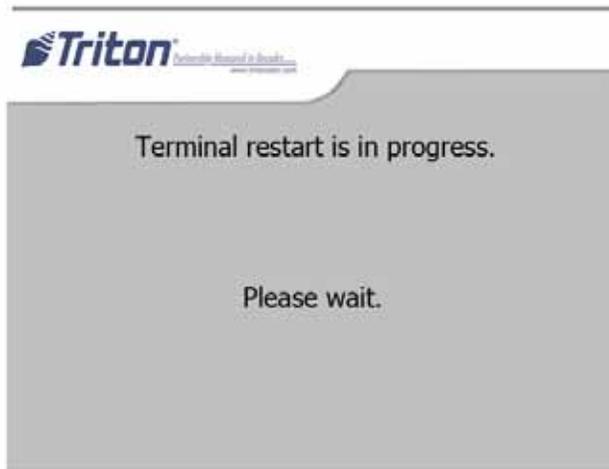
This step procedure describes how to perform a software update for the RL/FT5000/RL/RT2000. You will need a Flash drive device (USB storage device) with the terminal software loaded in it.

1. Connect the USB external memory device to the Docking Board assembly (X-Scale) or the X2 Main Board assembly (X2). Make sure to allow time for the memory device to be read by the terminal.



X2

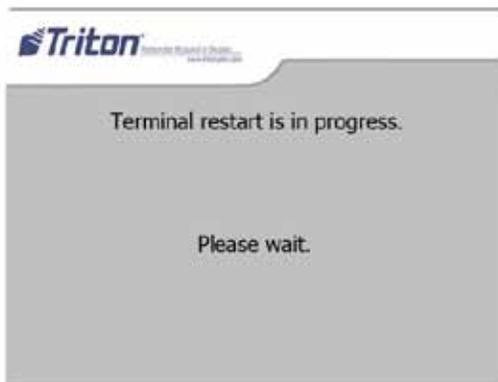
2. Enter Management Function>Main Menu>System Parameters>Software Update. The following screen appears:



3. In the “Look In” option should be the “USB” location. If it’s not present, <CANCEL> out of the software update screen and then re-enter the same screen. When the “Look In” option has “USB” present, the “Filename” screen should have the terminal software, size, and date/time attributes for each file loaded in the flash drive. (See *NOTE* right.)

4. Use the left and right <ARROW> keys on the keypad to highlight the selected file. Press <ENTER> when selected.

5. A screen will appear verifying the selected file and prompt to restart the terminal. Press <ENTER> on the keypad to continue.



NOTE
(Full Load vs Update Files)

When loading a **Full Load** software file, you will lose previously configured parameters and will have to reconfigure. It is **HIGHLY** recommended saving parameters **MAIN MENU>TERMINAL STATUS>SAVE PARAMETERS TO EXTERNAL STORAGE (USB DEVICE)** before loading the Full Load file. This allows you to quickly reconfigure terminal with the saved parameters.

If loading an **Update** file, you will lose some parameters and have to reconfigure. Ensure you use the correct update file for your specific country.

LEGEND: *Full load files are identified with a ‘D’ designation (XD). Update files with a ‘U’ (XU).*

6. The terminal will restart at this time and the installation of the software will be performed automatically. After the terminal completes its reboot sequence, remove the flash drive device.

NOTE: An additional restart is recommended after the file is loaded.

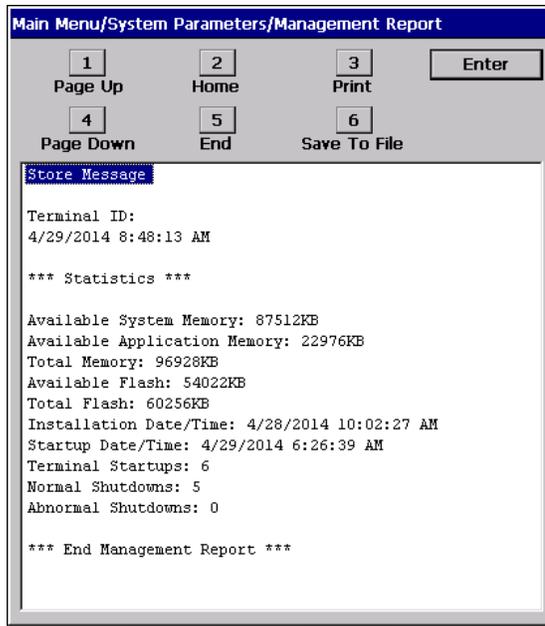
STATISTICS

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Statistics option by pressing <8> on the keypad.

DESCRIPTION:

Displays a statistical management report for the following:



- ⇒ **AVAILABLE SYSTEM MEMORY**- Memory (in bytes) currently available for the system. The terminal will go out of service if this value drops below 3MB.
- ⇒ **AVAILABLE APPLICATION MEMORY**- Memory (in bytes) currently available for the ATM application. The terminal will go out of service if this value drops below 3MB.
- ⇒ **TOTAL MEMORY**- Total memory (in bytes) available for the system. This value is static and will not change.
- ⇒ **AVAILABLE FLASH**- Flash space (in bytes) currently available. The terminal will go out of service if this value drops below 2 MB. Flash is used for storing journal, Ad graphics, screen files and any other system files.
- ⇒ **TOTAL FLASH**- Total flash space (in bytes) available. This value is static and will not change.
- ⇒ **INSTALLATION DATE/TIME**- The date and time recorded when the terminal was initially activated.
- ⇒ **STARTUP DATE/TIME**- The last date and time the terminal was restarted.
- ⇒ **TERMINAL STARTUPS**- The number of terminal startups recorded.
- ⇒ **NORMAL SHUTDOWNS**- The number of normal shutdowns procedures (System Parameters>Shutdown Terminal) recorded.
- ⇒ **ABNORMAL SHUTDOWNS**- The number of abnormal shutdown (turning power supply off bypassing “normal” shutdown procedure) recorded.

SCHEDULE REBOOT

ACCESS INSTRUCTIONS:

From the System Parameters screen, select the Schedule Reboot option by pressing <9> on the keypad.

DESCRIPTION:

The Schedule Reboot function allows the user to enable (checked) or disable (unchecked) the Schedule Reboot function and to specify a time of day a reboot of the terminal will be performed. If this function is enabled, a reboot will automatically be initiated at the specified time of day.

ENABLE / DISABLE SCHEDULE

1. Press the <1> key switch between enabled (checked) and disabled (unchecked). If enabled, options <2> Set Time and <3> Day Select will be activated to set the time.

SET TIME / DAY SELECT FEATURES

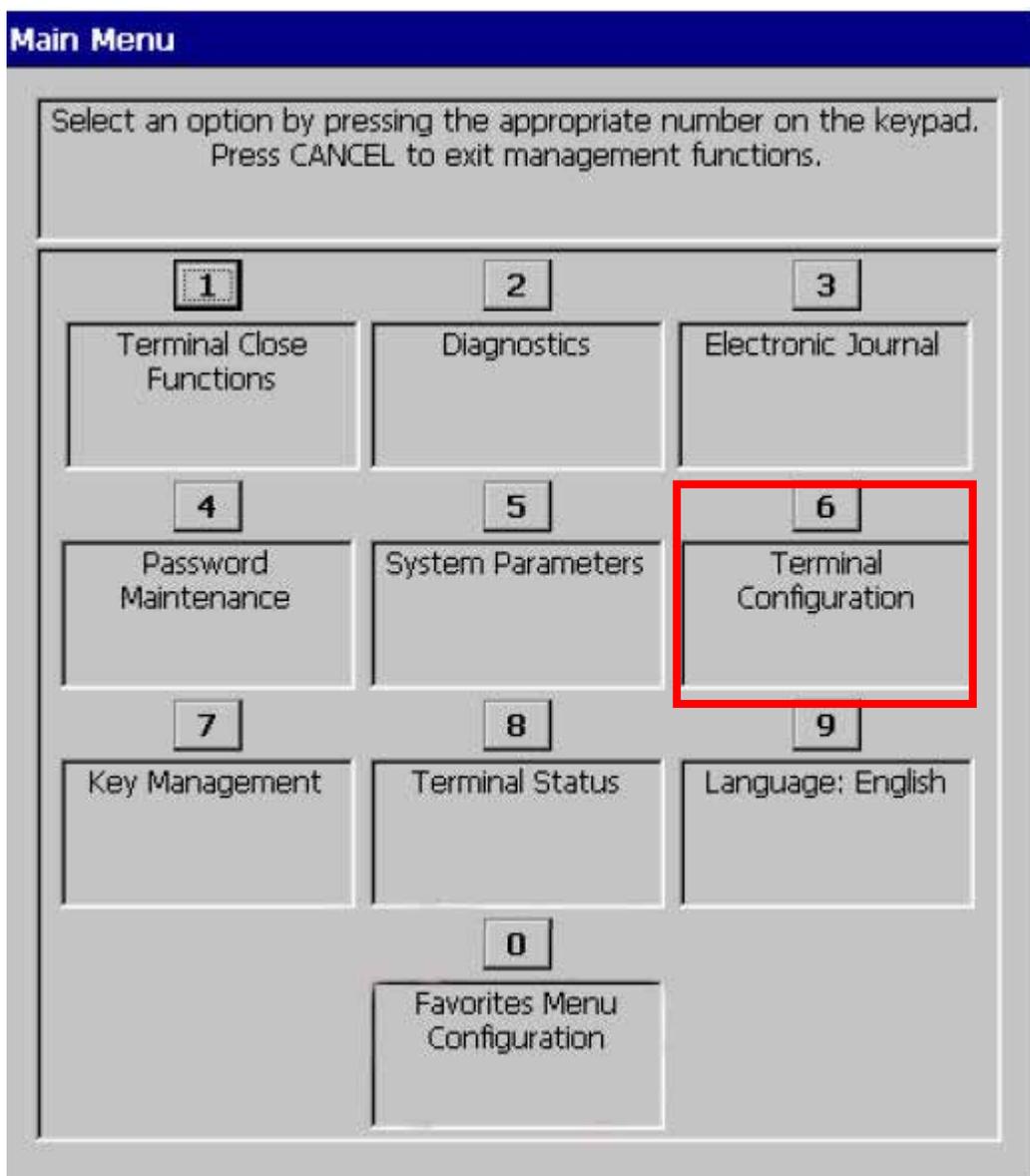
1. Use the <ARROW> keys to move between the fields to select values for the hour, minutes and seconds. Enter the specified time with the keyboard. Use the <CTRL> key to toggle between AM and PM.

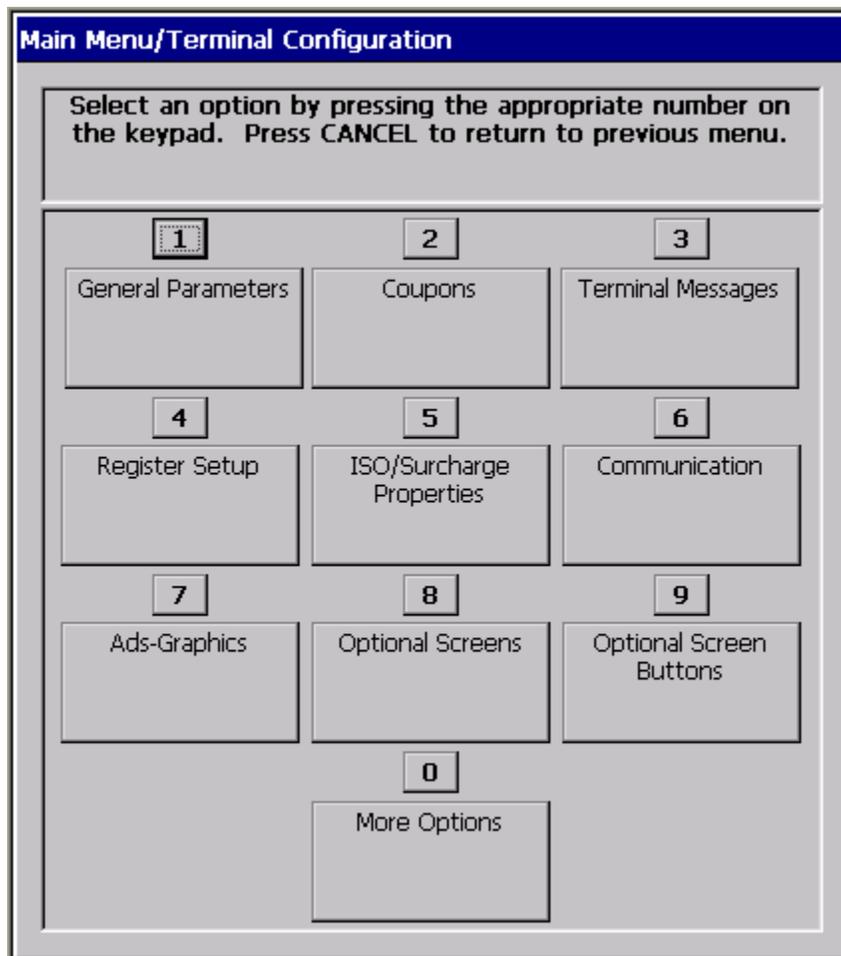
2. Press the <3> key to select a specific day of the week (Sunday, Monday, etc) or for every day, to determine the day(s) of the week for the scheduled reboot.

Press <ENTER> on the keypad to accept the schedule reboot settings and return to the Systems Parameters Main Menu window.

OPTION 6

TERMINAL CONFIGURATION





TERMINAL CONFIGURATION FUNCTIONS

TERMINAL CONFIGURATION OPTIONS OVERVIEW.....	97
GENERAL PARAMETERS.....	98
TERMINAL ID.....	98
ZIP CODE.....	99
RESET SEQUENCE NUMBER.....	99
DEFAULT LANGUAGE.....	99
DEFAULT TRANSACTION TYPE.....	99
DEFAULT ACCOUNT TYPE.....	99
OUT OF SERVICE ON LOW PAPER.....	99
OUT OF SERVICE ON PRINTER ERROR.....	100
STATUS MONITORING.....	100
HEARTBEAT MESSAGE.....	100
HEARTBEAT DELAY PERIOD.....	100
COUPONS.....	101
COUPON.....	101
PROMPT.....	101
MIN. LEVEL (WITHDRAWAL AMOUNT).....	102

TERMINAL CONFIGURATION

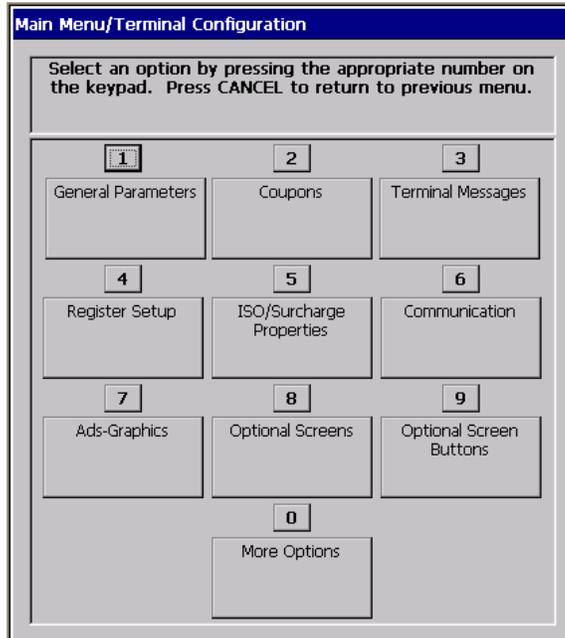
MAX. LEVEL (WITHDRAWAL AMOUNT).....	102
RANDOM.....	102
AWARD BASED ON ISO PROPERTIES.....	102
MESSAGE.....	102
LAYOUT (PRINTER).....	102
GRAPHIC (PRINTER).....	103
PRINT (PRINTER).....	103
CASSETTE (DISPENSED).....	103
COUNT (DISPENSED).....	103
TERMINAL MESSAGES.....	104
WELCOME MESSAGE.....	104
STORE MESSAGE.....	105
MARKETING MESSAGE.....	105
EXIT MESSAGE.....	105
TERMINAL OWNER.....	105
SURCHARGE MESSAGE.....	105
CASSETTE SETUP.....	106
MAXIMUM AMOUNT.....	106
MAXIMUM NON-CASH.....	107
MIX METHOD.....	107
FAST CASH.....	107
CASSETTE PARAMETERS.....	108
RELEARN BILL THICKNESS.....	108
ALL CASSETTE LOCKED/UNLOCKED.....	109
RETRACT CASH.....	109
ENABLE EXTENSION BRACKETS.....	109
ACTIVE CASSETTE.....	109
CASSETTE IN SERVICE.....	109
MULTIPLE AMOUNT.....	110
DOCUMENT TYPE.....	110
NON-CASH ITEM DESCRIPTION.....	110
SECONDARY ITEM DESCRIPTION.....	110
NOTE CONFIGURATION.....	111
BILL WIDTH/LENGTH/VALUE.....	111
VARIANT/CODE.....	112
ISO/SURCHARGE PROPERTIES.....	113
ENABLE/DISABLE SURCHARGE.....	113
AMOUNT.....	113
PERCENT.....	114
USE WHICHEVER IS LESSER/GREATER.....	114
ALLOW ONLY ISOS LISTED BELOW AS “ACCEPT”.....	115
ADD NEW.....	115
DELETE/EDIT.....	115
COMMUNICATION.....	116
PRIMARY PHONE #/HOST IP ADDRESS.....	117
BACKUP PHONE #/HOST IP PORT.....	117
PREDIAL/PERMANENT TCP/IP CONNECTION.....	117
ENABLE COMMUNICATIONS HEADER.....	118

USE 12-DIGIT SEQUENCE NUMBER.....	118
AMOUNT TYPE.....	118
COMMUNICATION PROTOCOL.....	119
NUA NUMBER/HOST RESPONSE TIMEOUT.....	119
ENABLE PERSISTENT REVERSALS.....	119
ENABLE REVERSALS FOR PROTOCOL ERRORS.....	119
ADS GRAPHICS.....	120
ADD NEW.....	121
DELETE/EDIT.....	124
MOVE UP/DOWN.....	125
GRAPHIC EXAMPLES.....	126
OPTION SCREENS.....	127
ACCOUNT/TRANSACTION.....	127
LANGUAGE SELECTION.....	128
SURCHARGE MESSAGE.....	128
RECEIPT OPTION.....	128
OPTIONAL SCREEN BUTTONS.....	129
ACCOUNT/TRANSACTION.....	130
FAST CASH AMOUNTS.....	130
PURCHASE SELECTIONS.....	130
ENABLING/DISABLING OPTIONAL SCREEN BUTTONS.....	130
PREVIEWING OPTIONAL SCREEN BUTTON CONFIGURATION.....	130
MORE OPTION (TRITON CONNECT).....	131
PRIMARY PHONE #/HOST IP ADDRESS.....	132
BACKUP PHONE #/HOST IP PORT.....	132
ALARM MONITOR (PRIMARY)/ALARM IP ADDRESS.....	132
ALARM MONITOR (BACKUP)/ALARM IP PORT.....	133
MAX RETRIES.....	133
REDIAL DELAY.....	134
ENABLE TRITON CONNECT.....	134
ENABLE CALL BACK.....	134
ENABLE SCHEDULED JOURNAL CALLS.....	134
CALL AT NUMBER OF JOURNAL RECORDS.....	134
CALL AT LOW CASH THRESHOLD.....	134
ENTER NEW ACCESS.....	134
MORE OPTIONS (EMV CONFIGURATION).....	135
EMV PROCESSING.....	136
EMV APPLICATION SETTINGS.....	136
ICC LATCHING.....	137
NON-ICC TRANSACTIONS.....	137
ICC FALLBACK TO MAGNETIC STRIPES.....	137
TERMINAL EMV CONFIGURATION.....	137
LAST TRANSACTION'S EMV DATA.....	137

TERMINAL CONFIGURATION

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Configuration option by pressing <6> on the keypad.



DESCRIPTIONS:

The Terminal Configuration option allows the terminal operator to perform the following functions:

1. **GENERAL PARAMETERS-** This function enables the user to view and/or configure general parameters such as terminal number, language, account types, printer service options, status monitoring, and heartbeat message.
2. **COUPONS-** This function is allows configuring printed and dispensed coupon parameters.
3. **TERMINAL MESSAGES-** This function allows entering text for terminal messages such as welcome and store messages as well as terminal and surcharge owners.
4. **CASSETTE SETUP-** This function allows the user to view and/or configure fast cash amounts, maximum withdrawals, and cassette parameters.
5. **ISO/SURCHARGE PROPERTIES-** This function sets the surcharge type and amount. ISO numbers are also managed here (added/deleted/edited).
6. **COMMUNICATION-** This function allows the user to view and/or configure the communication protocol settings.
7. **ADS/GRAPHICS-** This function allows management of Ad Graphics (add/delete/edit) and display properties.
8. **OPTIONAL SCREENS-** This function allows customization of customer screen presentations.
9. **OPTIONAL SCREEN BUTTONS-** This function allows customization of customer screen options.
10. **TRITON CONNECT-** This function allows viewing/configuring Triton Connect parameters.

GENERAL PARAMETERS

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the General Parameters option by pressing <1> on the keypad.

DESCRIPTION:

The General Parameters options allows the terminal operator to perform the following functions:

1. TERMINAL ID- This option identifies the terminal for the processor. It is a unique string of between six and sixteen characters (usually provided by the host network). The terminal ID *MUST* be entered.

⇒ Press <1> on the keypad to enter/edit the ID number.

2. ZIP CODE- Enter the zip code of the physical location of the terminal.

⇒ Press <2> on the keypad to enter/edit the zip code number.

3. RESET SEQUENCE NUMBER- This option resets the sequence that is printed on the journal printout and receipt to “00000000”.

⇒ Press <3> on the keypad to reset the sequence number.

4. DEFAULT LANGUAGE- This function selects the default language for all customer screen transactions and management function screens.

NOTE: *This function is only active if the option to allow customer selection of a language has been disabled through the optional screens and optional buttons functions.*

⇒ Press <4> on the keypad to cycle through the available languages.

5. DEFAULT TRANSACTION TYPE- This function changes the default transaction types that are presented to the customer. The available options are “Withdrawals”, “Transfers”, “Balance” and “Non-cash Purchase”.

The default is “None” (all available options are presented to customer).

NOTE: *If a specific transaction type is selected, it will only be presented to a customer if the selected type has been disabled through the optional screens and buttons functions.*

⇒ Press <5> on the keypad to cycle through the available transaction types.

6. DEFAULT ACCOUNT TYPE- This function operates the same as “Transaction Types”. The available options are “Checking”, “Savings” and “Credit Card”. The default is “Checking”.

⇒ Press <6> on the keypad to cycle through the available account types.

7. OUT OF SERVICE ON LOW PAPER- This option determines if the terminal will go “Out of Service” when a low receipt paper condition occurs or stays “In-Service”.

⇒ Press <7> to toggle between checked (terminal “Out of Service”) or unchecked (terminal “In-Service”).

8. OUT OF SERVICE ON PRINTER ERROR- This option determines if the terminal will go “Out of Service” when a printer error occurs or stays “In-Service”. If this option is unchecked, the terminal remains in-service and the customer will be prompted that a receipt will not be printed. At that point they can accept or discontinue the transaction process.

⇒ Press <8> to toggle between checked (terminal “Out of Service”) or unchecked (terminal “In-Service”).

9. STATUS MONITORING (HOST SPECIFIC REQUIREMENT)- This option, when enabled (checked), sends operational status information to the host processor. During certain transactions, a message is sent:

1. TRANSACTION REQUEST MESSAGE
2. CONFIGURATION TABLE DOWNLOAD REQUEST (WORKING KEY DOWNLOAD)
3. HOST TOTALS DOWNLOAD REQUEST
4. REVERSAL REQUEST

⇒ Press <9> to toggle between checked (enabled) and unchecked (disabled).

⇒ **0. HEARTBEAT MESSAGE (HOST SPECIFIC REQUIREMENT)**- This option, when enabled (checked), instructs the terminal to initiate a Working Key Download to the host processor. This allows the processor to determine if a particular terminal is still in operation.

NOTE: When this option is enabled, the Heartbeat Delay Interval (next option) will be active to set the time period interval.

⇒ Press <0> to toggle between checked (enabled) and unchecked (disabled).

F1. HEARTBEAT DELAY PERIOD- The parameter sets the time interval of the Heartbeat Message that will be sent. It is specified in minutes.

⇒ When the Heartbeat Message is enabled, press <F1> (upper left function key next to the display). Enter a value (in minutes) between 1-999. Press <ENTER> to accept.

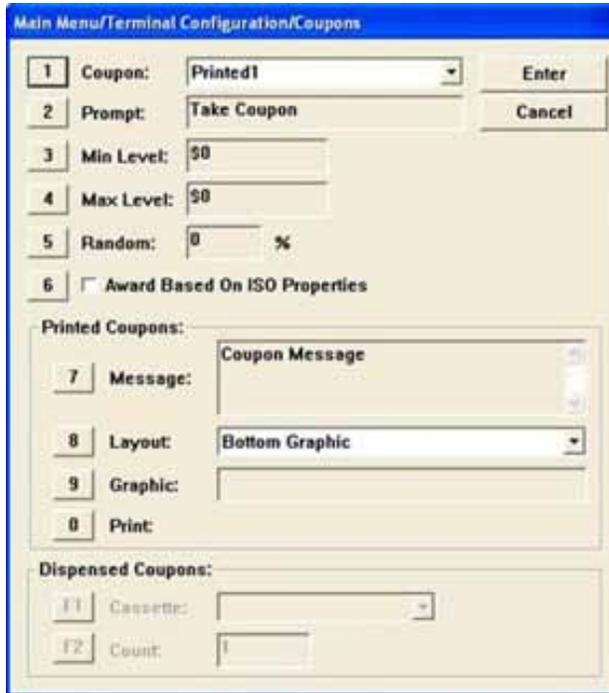
EXAMPLE: Thirty will initiate a Working Key Download every 30 minutes. Be advised this will put the terminal “Temporarily Out of Service” for a short duration until the key has successfully been downloaded.

COUPONS

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Coupons option by pressing <2> on the keypad.

DESCRIPTIONS:



The Coupon option allows the terminal operator to perform the following functions:

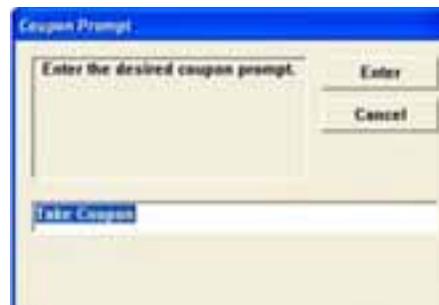
1. COUPON- Coupons are used to notify customers of awards, prizes, other promotional sales. Coupons are presented to the customer in two ways: Printed or Dispensed.

⇒ Press <1> on the keypad to cycle through the available coupon types.

NOTE: When “Printed” is selected, options two <2> through zero <0> are activated to configure. When “Dispensed” is selected, options two <2> through six <6> and <F1> and <F2> are activated.

2. PROMPT- This option displays a text entry dialog prompt. This dialog is a brief message that appears on the customer screen to inform the customer that a coupon will be printed.

⇒ Press <2> on the keypad. Enter a brief statement such as “Congratulations! You have won a prize coupon.” <ENTER> when completed.



3. MIN. LEVEL (MINIMUM WITHDRAWAL AMOUNT)- This option sets the minimum withdrawal amount that will trigger printing or dispensing a coupon. If the customer withdraws an amount equal to or greater than this amount AND less than or equal to the maximum amount level, a coupon will be printed or dispensed (as applicable).

⇒ Press <3> on the keypad. Enter the minimum withdrawal amount in the dialog prompt. Press <ENTER> when completed.

4. MAX. LEVEL (MAXIMUM WITHDRAWAL AMOUNT)- This option sets the maximum withdrawal amount that will trigger printing or dispensing a coupon. If the customer withdraws an amount equal to or greater than the minimum amount AND less than or equal to this amount level, a coupon will be printed or dispensed (as applicable).

⇒ Press <4> on the keypad. Enter the maximum withdrawal amount in the dialog prompt. Press <ENTER> when completed.

5. RANDOM- This option sets the frequency at which random prize coupons will be awarded (printed or dispensed, as applicable). The random coupon is won by a random number of transactions. For example, if the winning percentage (%) is set for 10, then 1 out of every 10 transactions will be awarded. The percentages can be set from 1% to 100%.

⇒ Press <5> on the keypad. Enter the random percentage in the dialog prompt. Press <ENTER> when completed.

6. AWARD BASED ON ISO PROPERTIES- When this option is enabled (checked), the selected coupons are issued based on criteria configured in the “ISO/Surcharge Properties” option under Terminal Configurations.

⇒ Press <6> on the keypad to toggle between enabled (checked) or disabled (unchecked).

7. MESSAGE (PRINTED)- This coupon message is a statement that appears on the coupon. The message describes the purpose of the coupon (discount, prize claim, etc).

⇒ Press <7> on the keypad. Enter a descriptive narrative in the dialog box. Press <ENTER> when completed.

8. LAYOUT (PRINTER)- The layout parameter establishes the location of graphics on printed coupons. The orientation can be set for either “Landscape” or “Portrait”. The available options are “Top”, “Bottom”, or “Top and Bottom”.

TOP GRAPHIC- The selected graphic is printed at the top of the designated receipt (450 x 225 pixels -.Bmp).

BOTTOM GRAPHIC- The selected graphic is printed at the bottom of the designated receipt (450 x 225 pixels -.Bmp).

TOP & BOTTOM GRAPHIC- The selected graphic is printed at the top and bottom of the designated receipt (320 x 160 pixels -.Bmp).

Press <8> to toggle through the available options. Press <ENTER> when completed.

9. GRAPHIC (PRINTED)- The coupon “Browse” dialog enables you to locate and select the graphic that will appear on printed coupons. The browse controls are described below:

1. LOOK IN- Press <1> to cycle through the locations where coupon graphics are located: internal flash or external memory device.

2. FILES OF TYPE- Press <2> to select the graphic file type for the printed coupon.

NOTE: *Coupon graphic must be Bitmaps (.bmp).*

3. PREVIEW. Press <3> to preview the selected coupon graphic.

⇒ Press <9> to bring up the Browse dialog screen. Use the Left (<) or Right (>) arrow keys to scroll/highlight a file. Press <ENTER> to accept the highlighted coupon graphic.



10. PRINT (PRINTED)- This option will print a sample coupon to verify the appearance of the message, layout, and graphic (if used) of the printed coupon

⇒ Press <0> to print a sample coupon.

F1. CASSETTE (DISPENSED)- This option selects the cassette(s) that will dispense coupons.

⇒ Press <F1> to cycle through the available cassettes. Press <ENTER> when completed.

F2. COUNT (DISPENSED)- This option enables you to set the number of coupons that will be dispensed for qualified transactions.

⇒ Press <F2> to display a data entry dialog screen. Enter the number of coupons to dispense. Press <ENTER> when completed.

TERMINAL MESSAGES

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Terminal Messages option by pressing <3> on the keypad.

DESCRIPTIONS:

The Terminal Messages option allows the terminal operator to perform the following functions:

NOTE: *All the options wil display a data entry dialog screen.*

1. **WELCOME MESSAGE-** This message will be displayed at the top of the customer Welcome screen.

⇒ Press <1> on the keypad. Type the text message. Press <ENTER> when completed.

Data entry dialog screen

2. STORE MESSAGE- This message will be displayed on the customer receipt.

⇒ Press <2> on the keypad. Type the message that will appear on the customer's receipt. Press <ENTER> when completed.

3. MARKETING MESSAGE- This message will appear on any printed products that include the store message (customer receipts, day closes, coupons, etc).

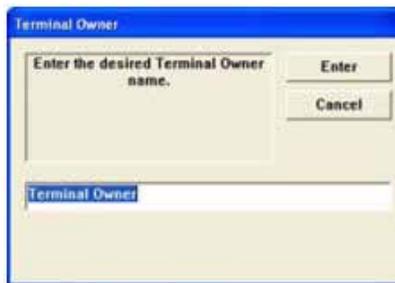
⇒ Press <3> on the keypad. Type the Marketing message. Press <ENTER> when completed.

4. EXIT MESSAGE- This message will appear on the Customer screen at the conclusion of a transaction.

⇒ Press <4> on the keypad. Type the exit message. Press <ENTER> when completed.

5. TERMINAL OWNER- This name is displayed to the customer in the Surcharge warning message.

⇒ Press <5> on the keypad. Type the terminal owner's name. Press <ENTER> when completed.



6. SURCHARGE OWNER- This name appears to the customer in the Surcharge warning message.

⇒ Press <6> on the keypad. Type the surcharge owner's name. Press <ENTER> when completed.

7. NEWS TICKER MESSAGE- This message will scroll across the customer Welcome screen. Enter up to 1024 characters. **NOTE: This feature is not available.**

CASSETTE SETUP

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Cassette Setup option by pressing <4> on the keypad.

DESCRIPTIONS:

The screenshot shows a window titled "Main Menu/Terminal Configuration/Cassette Setup". It contains two main sections: "Withdrawal Amounts" and "Fast Cash Amount".

Withdrawal Amounts:

- 1 Maximum Cash: \$500
- 2 Maximum Non-Cash: \$0
- 3 Mix Method: [Dropdown menu]

Fast Cash Amount:

- 4 Fast Cash 1: \$10
- 5 Fast Cash 2: \$20
- 6 Fast Cash 3: \$30
- 7 Fast Cash 4: \$40
- 8 Fast Cash 5: \$50

At the bottom, there is a button labeled "9 Cassette Parameters". On the right side of the window, there are "Enter" and "Cancel" buttons.

The Cassette Setup option allows the terminal operator to perform the following functions:

NOTE: All options EXCEPT "Cassette Parameters" will display a data entry dialog screen.

1. MAXIMUM AMOUNT- This option sets the maximum withdrawal limit before any transactions can be completed. This amount is the maximum allowed for a customer withdrawal.

The amount entered must be an even multiple of the smallest denomination loaded in the cassette(s). The value is in dollar amounts only; no cents are allowed. The maximum amount must be NO MORE than fifty (50) times the multiple amount (e.g.: \$20 notes x 50 = \$1000 max). This amount does not override any maximum set by the host network. The transaction will be sent to the host if the amount entered or selected is less than or equal to the maximum. The host must still approve the amount.

⇒ Press <1> on the keypad. Enter the maximum withdrawal amount. Press <ENTER> when completed.

The screenshot shows a dialog box titled "Maximum Cash". It contains the text "Enter the desired amount for the maximum cash withdrawal." and a text input field with the value "500" entered. There are "Enter" and "Cancel" buttons on the right side.

2. MAXIMUM NON-CASH- This option sets the maximum non-cash purchase limit before any purchases of non-cash items can be completed. This amount is the maximum allowed for non-cash items.

The amount entered must be an even multiple of the value of a single unit of non-cash purchases in the cassette. The value is in dollar amounts only; no cents are allowed.

⇒ Press <2> on the keypad. Enter the maximum amount value. Press <ENTER> when completed.

3. MIX METHOD (DEFAULT - MINIMIZE)- This option allows selecting the pick method for dispensers that employ multiple cassettes with the same denomination. The available selections are Minimize and Minimize EW (EvenWear).

⇒ The current method (identified as “Minimize” in the available selections) minimizes the number of bills dispensed, and when more than one cassette has the same bill denomination, one cassette is depleted before the other cassette is used. For example:

A three (3) cassette cash dispenser has one cassette with \$10 bills in cassette A and \$20 bills in cassettes B and C. A request for \$150 dollars would be filled with one bill from cassette A and seven bills from cassette B, unless B was out of money, in which case the bills would come from cassette C.

⇒ When “Minimize EW” is selected, the terminal shall “rotate” which cassette with the same denomination is used, by transaction, because picking multiple notes from one cassette is quicker than picking the same number of notes from multiple cassettes. After every restart, the terminal will start its rotation from the same cassette. Examples:

1. Terminal 1 has two cassettes (A and B) with the same denomination. The first transaction after a terminal restart will always use cassette A. The second will use cassette B and subsequent transaction will continue to alternate between the two cassettes which cassette is used.

2. Terminal 2 has four cassettes (A,B,C, and D) with the same denomination. The first transaction after a terminal restart will always use cassette A; the second, cassette B, the third cassette C, the fourth cassette D, and the fifth would restart the pattern at cassette A.

⇒ Press <3> to toggle between Minimize or Minimize EW.

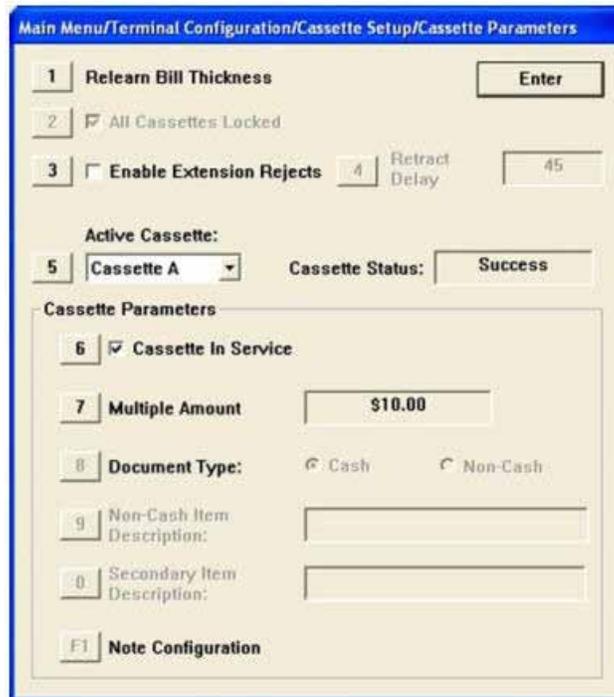
4-8. FAST CASH- During a withdrawal transaction, fast cash options may be presented to enable the customer to select amounts from a convenient list of options. The amounts do not have to be in set order, though typically, they increase in value from top to bottom.

Enter values that are multiples of the notes loaded in the cassette(s).

⇒ Press <4> through <8> (individually) on the keypad. Enter the amounts and press <ENTER> for each entry.

9. CASSETTE PARAMETER- This option enables you to view/configure cassette(s) parameters such as currency data, multiple amounts, etc. The following pages explain this option.

CASSETTE PARAMETERS



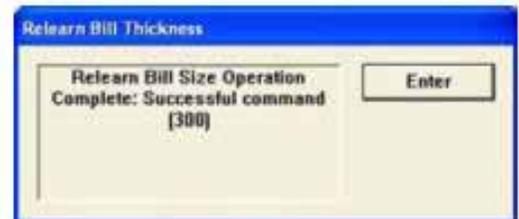
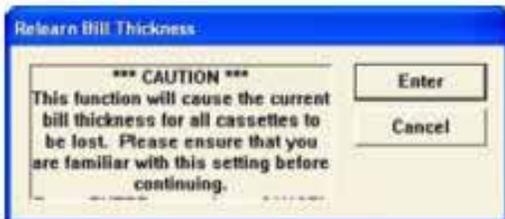
DESCRIPTIONS:

The Cassette Parameters option allows the terminal operator to perform the following functions:

1. RELEARN BILL THICKNESS- For some dispensing mechanisms, the first time the dispenser is set up or a new note cassette is installed, the mechanism will enter a learning mode during which it will “learn” the thickness of the currency or other media. This process may dispense and reject as many as 7-15 notes into the reject cassette/tray/compartament.

During normal operation, if you start experiencing an abnormal amount of rejected notes, you may have to manually initiate this option. This will force the dispenser to enter a “relearn” mode.

⇒ Press <1> on the keypad to initiate the relearn mode. Follow the prompts to complete.

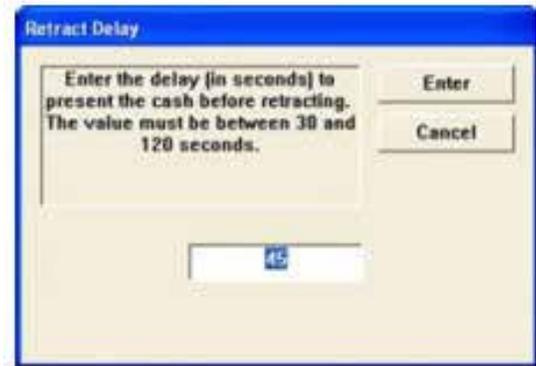


2. ALL CASSETTES LOCKED/UNLOCKED (NMDs ONLY)- The NMDs are designed to physically **lock** the cassettes for normal operation. If you need to remove a cassette for servicing, troubleshooting, etc, the cassettes for the NMDs must first be **unlocked** (unchecked). This option Locks (checked) or Unlocks (unchecked) the cassettes.

NOTE: All options EXCEPT “Cassette Parameters” will display a data entry dialog screen.

⇒ Press <2> to toggle between Locked and Unlocked.

3. RETRACT CASH (NMDs ONLY)- This option enables/disables automatic retraction of the note carriage which transports notes to the bill chute. When this option is enabled (checked), the Retract Delay option <4> is activated, allowing you to specify the length of the delay the dispenser will wait before retracting the note transporter.



4. ENABLE EXTENSION REJECTS (RT2000)- On an RT2000 terminal, the TDM dispensers contain a bill extension unit.

This option will enable (checked) or disable (unchecked) the option of rejecting bills in the extension.

ENABLE EXTENSION REJECTS ON: The terminal will stay in service and attempt to purge the extension before the next dispense for both full and partial dispenses caused by a trailing edge timeout that caused the machine to stop prior to delivering all of the requested notes.

ENABLE EXTENSION REJECTS OFF- The terminal will go out of service with Error Code 97 (Extension exit trailing edge timeout) for both full and partial dispenses caused by a trailing edge timeout that caused the machine to stop prior to delivering all of the requested notes.

⇒ Press <3> to toggle between enabled (checked) or disabled (unchecked).

⇒ (For Retract Cash) If enabled, press <4> and enter the delay time. It can be set from 30 to 120 seconds. Press <ENTER> when completed.

5. ACTIVE CASSETTE- This option selects the cassette for setup/changing note configuration parameters or other media.

⇒ Press <5> repeatedly to cycle through the available cassette(s).

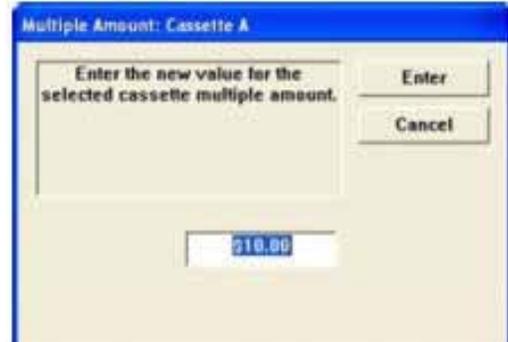
6. CASSETTE IN SERVICE- Some dispensers (multi-cassette) allow individual cassettes to be placed “Out of Service” (unchecked). This means the selected cassette(s) will not be used by the dispenser for withdrawal requests. This capability can be used, for example, to remove a low or empty cassette from service, while still allowing the dispenser to continue operation using the remaining cassette(s).

NOTE: The NMD-50/100 cassettes MUST be Locked and IN-Service (checked) for normal operation.

⇒ Press <6> to toggle between “In Service” (checked) or “Out of Service” (unchecked).

7. MULTIPLE AMOUNT- This option *must* be set for the denomination (value) of the currency in the selected cassette (option <5>). Typical values are 5, 10, 20, 50, or 100 notes.

⇒ Press <7> on the keypad. Enter the denomination value in the data entry dialog screen. Press <ENTER> when completed.



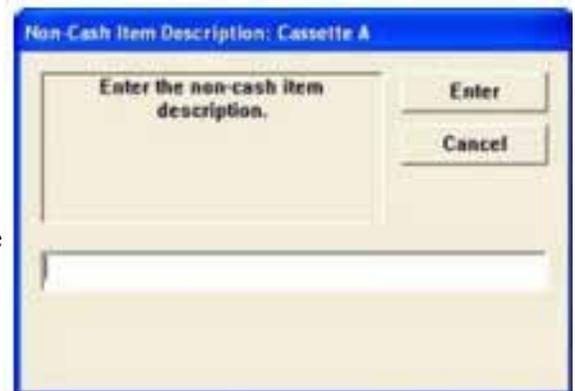
8. DOCUMENT TYPE- This option selects the cassette for setup/ changing note configuration parameters or other media.

NOTE: Only NMD dispensers (multi-cassette) can be setup for non-cash documents. TDM-200/250, though multi-cassette, only dispense “Cash”. Single cassette dispensers always dispense “Cash”.

⇒ Press <8> to toggle between Cash or Non-Cash. When Non-Cash is selected, the following two options “Non-Cash Item Description” and “Secondary Item Description” are activated.

9. NON-CASH ITEM DESCRIPTION- This option is used for a brief description of the non-cash item in the selected cassette.

⇒ Press <9> on the keypad. Enter a brief description of the non-cash item. Press <ENTER> when completed.



0. SECONDARY ITEM DESCRIPTION- This option provides a location for other information of the non-cash item. It is used in conjunction with the “Description” above.

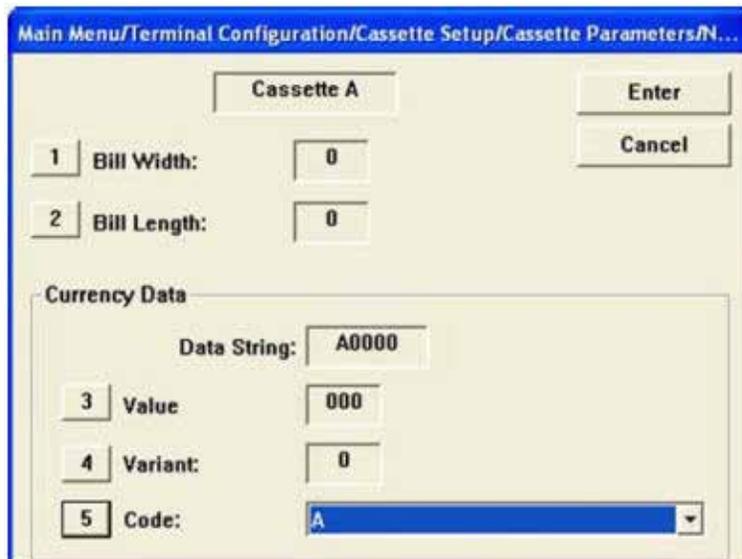
⇒ Press <0> on the keypad. Enter a brief description of the non-cash item. Press <ENTER> when completed.

F1. NOTE CONFIGURATION (NMDs ONLY)- This option enables configuring the note-specific parameters of the currency in the selected cassette. The available parameters are:

- | | |
|-----------------------|------------------|
| 1. BILL WIDTH | 4.VARIANT |
| 2. BILL LENGTH | 5. CODE |
| 3.VALUE | |

⇒ Press <F1> on the function keys. The following pages describe these parameters.

NOTE CONFIGURATION

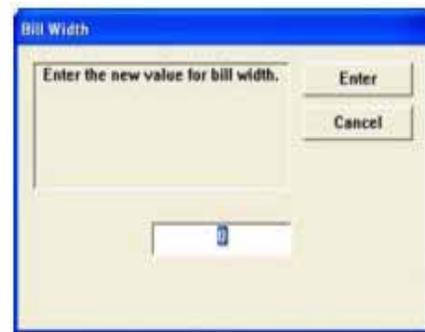


1. BILL WIDTH- This option enables you to enter the width of the item in the selected cassette. The information is stored in the cassette.

⇒ Press <1> on the keypad. Enter the width of the notes loaded in the cassettes (in millimeters) in the data entry dialog screen. Press <ENTER>.

2. BILL LENGTH- This option enables you to enter the length of the item in the selected cassette. The information is stored in the cassette.

⇒ Press <2> on the keypad. Enter the length of the notes loaded in the cassettes (in millimeters) in the data entry dialog screen. Press <ENTER>.



Data entry dialog screen

NOTE: The Data String text box shows the complete currency data configuration value consisting of the value, variant, and code settings.

3. VALUE- The table at right provides a sample of value codes applicable to various common currency denominations.

⇒ Press <3> on the keypad. Enter the width of the notes loaded in the cassettes (in millimeters) in the data entry dialog screen. Press <ENTER>.

Denomination	Base Value	Multiplier	Value
5	05	0	050
10	10	0	100
20	20	0	200
50	50	0	500
100	10	1	101

4. VARIANT- This is the single-character that represents the “version” of the note. The variant code should initially be set to one (1). If a new version becomes available, contact Triton’s Technical Support for an updated code.

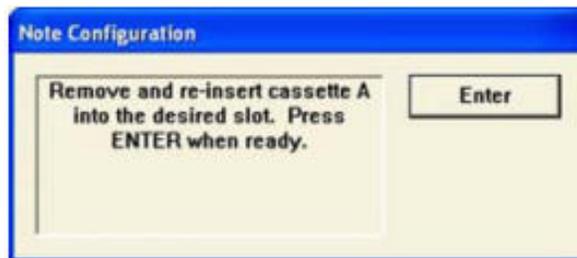
⇒ Press <4> on the keypad. Enter the variant parameter in the data entry dialog screen. Press <ENTER>.

5. CODE- This code is a three (3)-character description for the currency type (ex: ‘USD’ represents US dollars). The table below lists some of the most common currency codes.

Currency Codes					
Currency Code	Country	Currency Type	Currency Code	Country	Currency Type
ARS	Argentina	Argentina Peso	EUR	European Union	Euro
AUD	Australia	Australia Dollar	FRF	France	Euro
BOB	Bolivia	Boliviano	GBP	United Kingdom	Pound Sterling
BOV	Bolivia	MVDOL	GRD	Greece	Drachma
BRL	Brazil	Brazilian Real	GTO	Guatemala	Quetzal
CAD	Canada	Canadian Dollar	HKD	Hong Kong	Hong Kong Dollar
CLF	Chile	Unidades De Formento	HNL	Honduras	Lempira
CLP	Chile	Chilean Peso	HUF	Hungary	Forint
CNY	China	Chinese Yuan	IDR	Indonesia	Rupiah
COP	Columbia	Columbian Peso	IEP	Ireland	Irish Pound
CRC	Costa Rica	Costa Rican Colon	INR	India	Rupiahs
CYP	Cyprus	Cyprus Pound	MXN	Mexico	Mexican NuevoPeso
CZK	Czech Republic	Czech Koruna	NIO	Nicaragua	Cordo ba Oro
DEM	Germany	Euro	NZD	New Zealand	New Zealand Dollar
DOP	Dominican Republic	Dominican	RMB	China	Chinese Renminbi Yuan
ECS	Ecuador	Sucre	SVC	El Salvador	El Salvador Colon
ECV	Ecuador	Unidad De Valor Coust	USD	United States	US Dollar
EGP	Egypt	Egyptian Pound	ZAR	South Africa	Rand

⇒ Press <5> on the keypad. Enter the length of the notes loaded in the cassettes (in millimeters) in the data entry dialog screen. Press <ENTER>.

Lastly, after all parameters have been configured, press <ENTER> on the keypad. A prompt appears to remove and re-insert the selected cassette. This action completes the process of changing the value of the data stored in the cassette.



ISO/SURCHARGE PROPERTIES

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the ISO/Surcharge Properties option by pressing <5> on the keypad.

ISO Number	Action	Value
560017	Accept	None

DESCRIPTION:

The ISO/Surcharge Properties option allows the terminal operator to perform the following functions:

SURCHARGE AMOUNT CONFIGURATION

1. ENABLE/DISABLE SURCHARGE- Some networks allow a surcharge (or terminal fee) to be imposed on transactions. If surcharges are in use on your network, you are required to notify the customer of any additional fee before the transaction is processed. Enabling (checked) surcharge will initiate a surcharge notification message to be displayed prior to final processing of the transaction. The customer then has the option of cancelling the transaction or continuing.

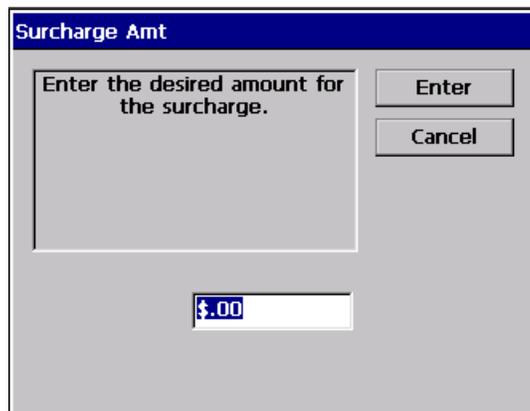
NOTE: *If the processor requires a surcharge, you MUST enable (check) this option.*

⇒ Press <1> to toggle between enabled (checked) or disabled (unchecked).

2. AMOUNT- This option is the fixed-value surcharge amount that will be displayed to the customer in the surcharge notification message. The surcharge amount that you enter will be displayed to the customer and must match the actual surcharge rate established by your processor or other applicable regulatory agencies.

Manually changing the surcharge amount to a higher (or lower) amount does not change the surcharge collected by the processor. It only changes the surcharge amount displayed to the customer and not the actual fee collected.

⇒ Press <2> on the keypad. Enter the surcharge amount in the data entry dialog screen. Press <ENTER> on the keypad.



The image shows a software dialog box titled "Surcharge Amt". Inside the dialog, there is a text prompt: "Enter the desired amount for the surcharge." To the right of this prompt are two buttons labeled "Enter" and "Cancel". Below the prompt and buttons is a text input field that currently displays "\$.00".

3. PERCENT- This option enables the user to enter a surcharge percent (as well as choose the Lesser/ Greater option <4>) that is applicable to the surcharge. Remember, this option must conform to the processor's requirements or other applicable regulatory agency.

⇒ Press <3> on the keypad. Enter the surcharge percent in the data entry dialog screen. Press <ENTER> on the keypad.

4. USE WHICHEVER IS LESSER/GREATER- This option (in conjunction with the Surcharge Amount and Percent options) enables the user to select the smaller of the two (lesser) or larger (greater) surcharge amounts to apply to the transaction.

⇒ Press <4> to toggle between the Lesser or Greater options. Select the setting that conforms to the surcharge requirements. Press <ENTER> to accept the surcharge Configurations.

NOTE

If a fixed surcharge amount is to be used (surcharge percent NOT used), you must ensure the surcharge comparison option is set to GREATER and the surcharge percent is set to zero (0). This will ensure that only the fixed surcharge amount value will be displayed to the customer. Failure to do so can cause an incorrect surcharge value to be reported to the customer.

ISO PROPERTIES

5. ALLOW ONLY ISOs LISTED BELOW AS “ACCEPT”- When this option is enabled (checked), it ensures that only cards with ISO number in the ISO list are accepted.

⇒ Press <5> to toggle between enabled (checked) and disabled (unchecked).

6. Add New- To add an ISO to the ISO list, the user must enter the new ISO number and “Action” for that number. The “Action” option will be applied to transactions that use the displayed ISO numbers. Some available options are:

BLOCK SURCHARGE- This allows free surcharge transactions for customers with the displayed ISO numbers.

DECLINE CARD- This declines transactions for customers with the displayed ISO number.

USE DEFINED SURCHARGE- This allows the applicable surcharge to be charged for customers with the displayed ISO numbers.

⇒ Press <6> on the keypad. This screen at right will appear:

⇒ Press <1> (ISO number) on the keypad. Enter the ISO number. Press <ENTER>.

⇒ Press <2> (Action) to toggle through the available “Action” choices. Stop on the action to apply it to the ISO number. Press <ENTER> on the keypad when completed.

VALUE- Some ISO numbers may require an associated value parameter. The processor will determine whether a value parameter must be associated with an ISO number.

⇒ Press <3> (Value) on the keypad. Enter the value parameter in the data entry dialog box for the ISO listed.

7. DELETE- This option allows deleting a selected ISO from the ISO list.

⇒ Highlight the selected ISO to delete. Press <7> on the keypad. The prompt shown at right appears. Press <ENTER> to delete.

8. EDIT- This option allows the user to edit the selected ISO number.

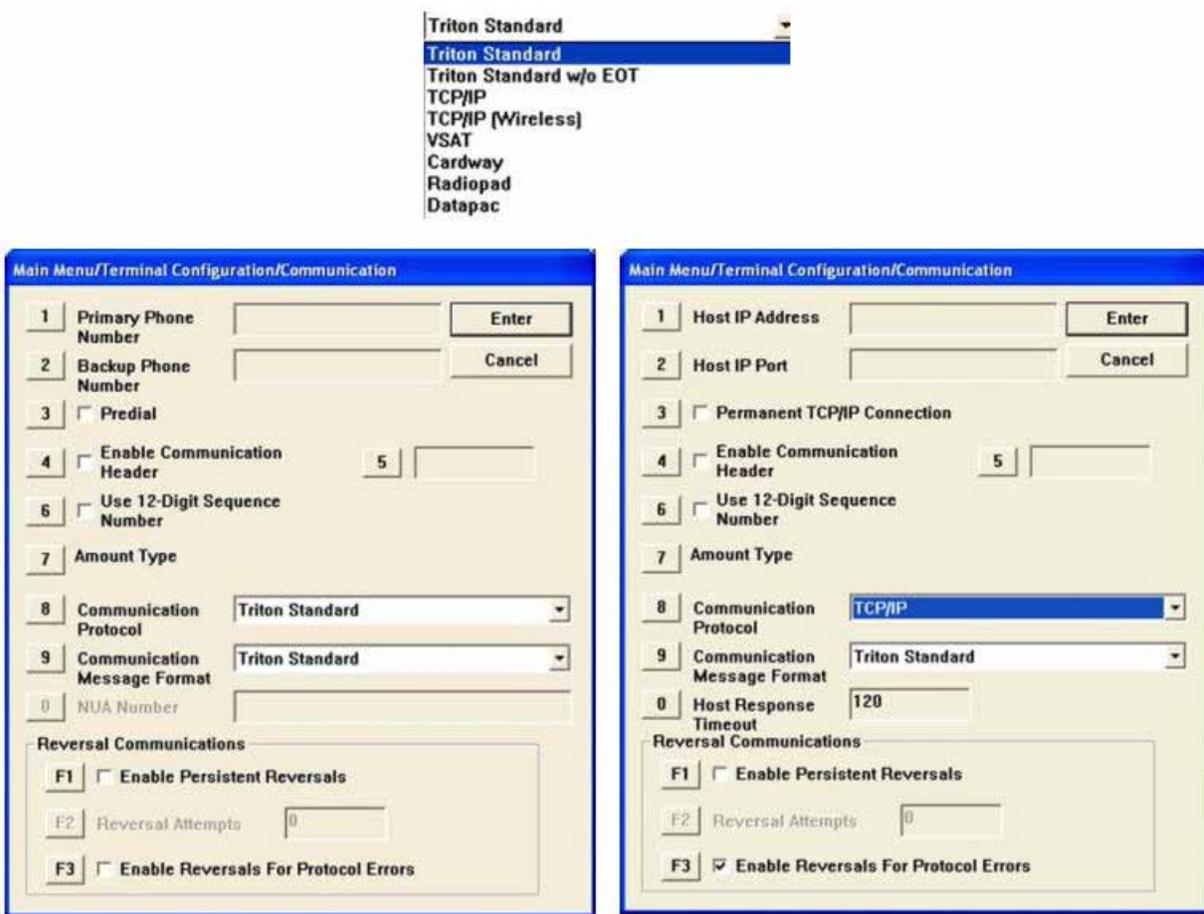
⇒ Highlight the selected ISO to delete. Press <8> on the keypad. The “ISO Properties” screen appears. Edit “ISO Number”, “Action” or “Value”, if applicable. Press <ENTER> when complete.

COMMUNICATION

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Communication option by pressing <6> on the keypad.

NOTE: Select option <8>, “Communication Protocol”, for your communication medium (dial-up, TCP/IP, etc) FIRST. The Communication main screen will adjust for the selected protocol.



DESCRIPTION:

The Communication option allows the terminal operator to perform the following functions:

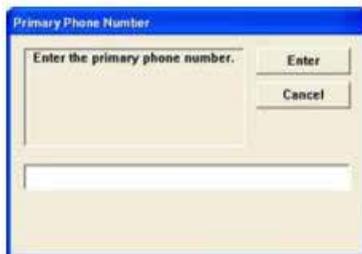
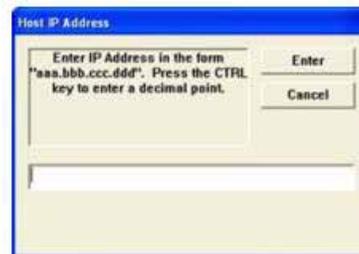
- 1. PRIMARY PHONE # / HOST IP ADDRESS (REQUIRED ENTRY)
- 2. BACKUP PHONE # / HOST IP PORT (REQUIRED ENTRY)
- 3. PREDIAL / PERMANENT TCP/IP CONNECTION
- 4-5. ENABLE COMMUNICATION HEADER
- 6. USE 12-DIGIT SEQUENCE NUMBER
- 7. AMOUNT TYPE
- 8. COMMUNICATION PROTOCOL
- 9. COMMUNICATION MESSAGE FORMAT
- 0. NUA NUMBER / HOST RESPONSE TIMEOUT
- F1-F2. ENABLE PERSISTENT REVERSALS
- F3. ENABLE REVERSALS FOR PROTOCOL ERRORS

1. PRIMARY PHONE # / HOST IP ADDRESS (REQUIRED ENTRY)- The Primary Phone Number is a telephone number (usually) or some other number that is used to contact the host processor for transaction requests. If this number is busy or no answer, the backup number (if required) will be used.

The Host IP Address is the IP Address of the server that will be processing the transactions. The address consists of a sequence of four groups of numbers. Each group can be up to three digits long and each group is separated by a period (dot character), as in this example: 123.3.12.99.

NOTE: Both the phone number and address are provided by your host processor/networks.

⇒ Press <1> on the keypad. Enter the IP Address in the data entry dialog prompt. Press <ENTER> when completed.

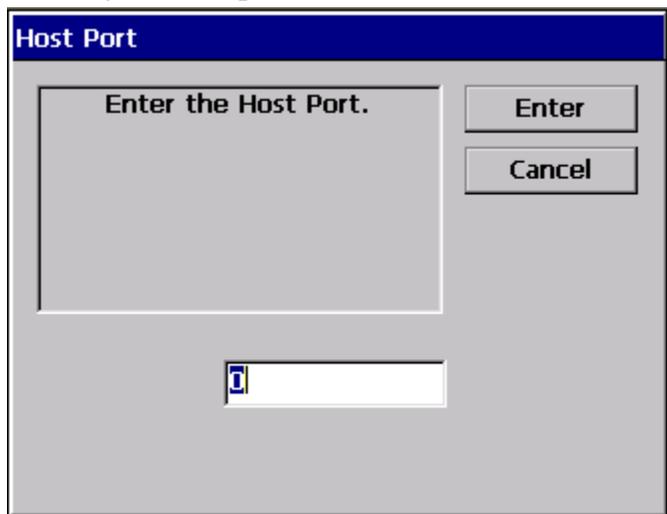
A dialog box titled "Primary Phone Number" with a blue header. It contains a text input field with the prompt "Enter the primary phone number." and two buttons: "Enter" and "Cancel".A dialog box titled "Host IP Address" with a blue header. It contains a text input field with the prompt "Enter IP Address in the form 'aaa.bbb.ccc.ddd'. Press the CTRL key to enter a decimal point." and two buttons: "Enter" and "Cancel".

2. BACKUP PHONE # / HOST IP PORT (REQUIRED ENTRY)- The Backup Phone Number (if required) may be used to provide an alternate means of contacting the host processor if the primary fails contact.

The Host IP Port is the port number where the Host IP Address will be listening to process the terminal transactions. The port number is provided by the host Network Administrator. The port number consists of five digits or less.

NOTE: Both the phone # and port address are provided by the host processor/networks.

⇒ Press <2> on the keypad. Enter the backup IP port address (whichever is applicable) in the data entry dialog prompt. Press <ENTER> when complete.

A dialog box titled "Host Port" with a blue header. It contains a text input field with the prompt "Enter the Host Port." and two buttons: "Enter" and "Cancel".

3. PREDIAL / PERMANENT TCP/IP CONNECTION- When enabled, the Predial option allows the terminal to dial out to the processor and establish a connection as soon as the customer swipes their card. This provides quicker processing of customer transactions.

When enabled, the Permanent TCP/IP Connection option instructs the terminal to stay connected with the host after each transaction.

⇒ Press <3> on the keypad. Enter the backup IP port address (whichever is applicable) in the data entry dialog prompt. Press <ENTER> when complete.

4. ENABLE COMMUNICATION HEADER- This optional feature is only applicable to certain processors. When required, this option *must* be enabled (checked). Option <5> will then be activated. You *must* enter the correct header data in the data entry dialog box. The header data consists of alphanumeric characters.

CAUTION: Enabling the Communication Header when contacting a processor that does not require this feature WILL prevent any type of transaction from completing. If the Communication Header is required, disabling this feature or having incorrect data in the data field WILL also prevent transactions from processing.

Rule of thumb: If the Communication Header IS required, enable (check) AND enter the header data. If the communication header is NOT required, disable (uncheck).

⇒ Press <4> to toggle between enabled (checked) or disabled (unchecked).

5 *If enabled*, press <5> and enter the Communication Header data in the data entry dialog box. Press <ENTER> when complete.

6. USE 12-DIGIT SEQUENCE NUMBER- By default, the length of terminal sequence numbers are restricted to four (4) bytes of data. However, some processors require extended length terminal sequence numbers which require additional bytes to be correctly represented.

When enabled, the Permanent TCP/IP Connection option instructs the terminal to stay connected with the host after each transaction.

⇒ Press <6> to toggle between enabled (checked) or disabled (unchecked). Press <ENTER> when complete.

7. AMOUNT TYPE- This option enables displaying and processing currency values with a large number of digits. Previously, currency values have been limited to eight (8) digits (including the decimal point). The Amount types consist of the following: Standard, Extended Amounts, and Full Extended Amounts.

The following table represents the number of digits (including decimal portion) that can be used for each specific value of the specified amount type:

VALUE	STANDARD	EXTENDED	FULL EXTENDED
Withdrawal Amount	8	8	12
Account Balance	8	12	12
Transfer Amount	8	12	12
Cassette Item Amount	5	5	8
Surcharge Amount	8	8	8
Settlement Amount	12	12	15



⇒ Press <7> on the keypad. Use the arrow keys (<>) to select between the available amount types (Standard, Extended Amounts, Full Extended Amounts). Press <ENTER> when completed.

8. COMMUNICATION PROTOCOL- This option selects the communication protocol and your processors requirement that the terminal will be using (dial-up, TCP/IP, wireless, etc).

⇒ Press <8> repeatedly to cycle through the available selections. Stop on the communication protocol that meets your requirements.

9. COMMUNICATION MESSAGE FORMAT- This option specifies the content and structure (format) of messages that pass between the terminal and the host processor during transactions. This setting will depend on your host processor/networks communication requirements.

⇒ Press <9> repeatedly to cycle through the available options. Stop on the communication message format that meets your requirements.

0. NUA NUMBER (NETWORK USER ADDRESS) / HOST RESPONSE TIMEOUT- The NUA number is equivalent to a telephone number for PakNet/SwiftNet radio networks.

For TCP/IP communications, the Host Response Timeout indicates how long to wait for a response from the host before timing out and canceling the transaction.

⇒ If this number/time is required, press <0> on the keypad. Enter the NUA number or the Host response time (in seconds) in the data entry dialog box. Press <ENTER> when completed.

F1. ENABLE PERSISTENT REVERSALS- When the terminal sends a customer transaction request to the processor, the transaction is performed and a confirmation is sent back to the terminal. If the confirmation is not received, for whatever reason, the integrity of the transaction is in question. The terminal will not confirm the transaction or dispense currency, but will instead attempt to restore the customer's account to "pre-transaction" condition, essentially reversing the transaction.

By default, the terminal attempts one (1) reversal attempt. If there is a degraded communication path or dispenser malfunction, more than one attempt may be necessary. By *enabling* this feature (checked), you can set the number of reversal attempts. Option <F2>, "Reversal Attempts", will be activated to enter this number.

⇒ Press <F1> to toggle between enabled (checked) or disabled (unchecked).

F2 Press <F2> and enter the number of reversal attempts in the data entry dialog box. Press <ENTER> when complete.

NOTE: A zero (0) represents "infinite". If this is entered, the terminal will continue the reversal attempt indefinitely.

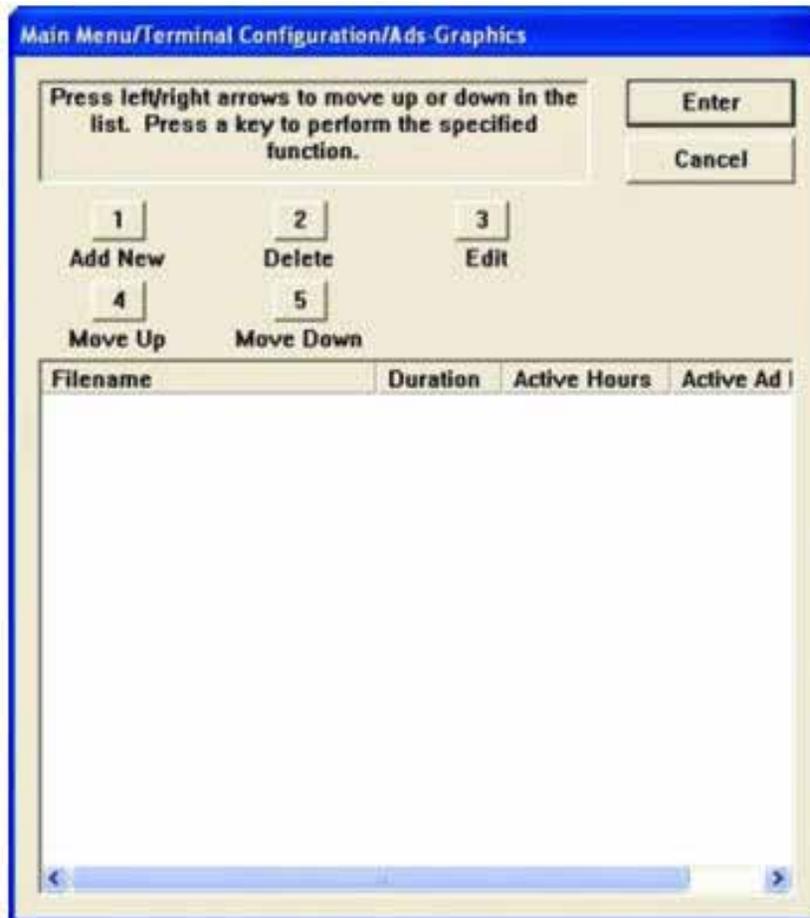
F3. ENABLE REVERSALS FOR PROTOCOL ERRORS- Conditions may warrant reversals for other instances of communication failure. In particular, the need to ensure accurate communication of protocol commands and status messages that are not necessarily related to customer transactions may also necessitate use of reversals. This option (when enabled) can be used to reverse the consequences of compromised communication.

⇒ Press <F3> to toggle between enabled (checked) or disabled (unchecked). Press <ENTER> when complete.

AD GRAPHICS

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Ads Graphics option by pressing <7> on the keypad.



DESCRIPTION:

The Ads Graphics option allows the terminal operator to perform the following functions:

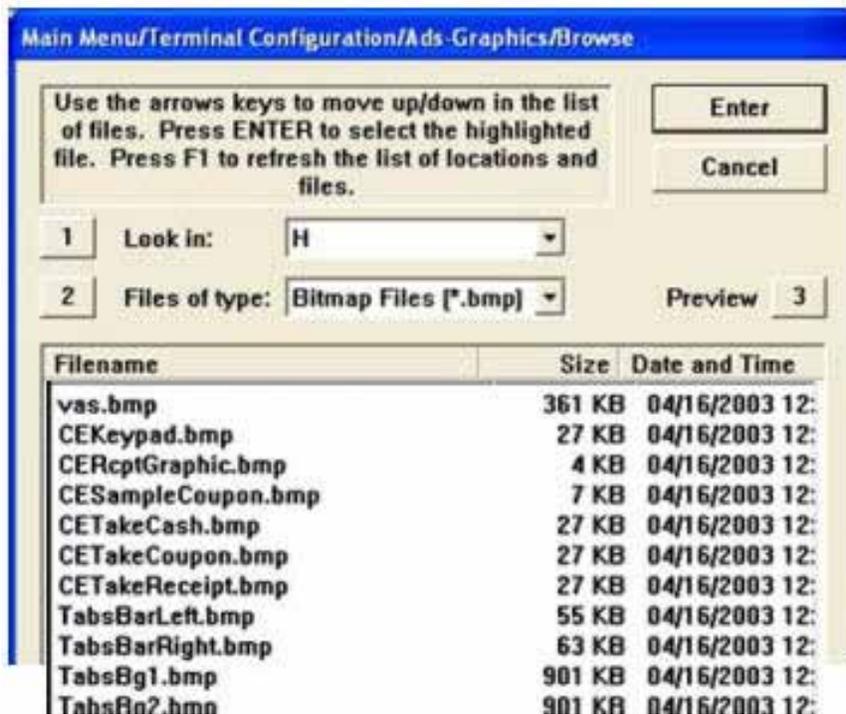
1. **ADD NEW**- This option allows adding a graphic to the current rotation. Lets you configure Duration, Active Hours, and Active Ad Fields for the graphic.
2. **DELETE**- This option removes an Ad Graphic entry from the display list.
3. **EDIT**- This option is used to change the Duration, Active Hours, and Active Ad Fields for a selected Ad graphic.
4. **MOVE UP**- Used to move an entry up in the Ad Graphic list.
5. **MOVE DOWN**- Used to move an entry down in the Ad Graphic list.

NOTE: Graphic files can be added AND deleted from the RL/FT/RT terminals. Using Triton Connect, however, files can **ONLY** be added. No files of any kind can be deleted from these terminals through Triton Connect.

ADD NEW

ACCESS INSTRUCTIONS:

From the Ad Graphics screen, select the Add New option by pressing <1> on the keypad.



1. ADD NEW- The “Browse” screen enables you to locate and select the image to add to the Ads rotation.

1. LOOK IN- Press <1> repeatedly to cycle through the available locations (thumbdrive, flash card, etc) for images.

2. FILES OF TYPE- Press <2> repeatedly to cycle through the available graphic and image file types. If any files of the selected type are present in the current “Look In” location, they will be displayed in the Browse list. Choose from a number of graphic and image file types, such as Bitmap, JPG, and GIF.



3. PREVIEW- Press <3> to see a preview of the selected image, graphic, or video file. Press the <ENTER> key to exit from the preview window and return to the browse dialog.

Graphics are displayed in designated fields in the display. Optimize display graphics by creating them in sizes that fit their intended use. Graphic dimensions are in *pixels*.

X-SCALE UNITS (RL/FT5000/RT2000)

FULL SCREEN- 636 X 476	WELCOME AD- 310 X 385
LOGO- 310 X 85	COUPON GRAPHIC (TOP OR BOTTOM ONLY)- 450 X 225 (.BMP ONLY)
TRANSACTIONS AD- 636 X 260	COUPON GRAPHIC (TOP AND BOTTOM)- 320 X 160 (.BMP ONLY)
BANNER- 205 X 56	RECEIPT GRAPHIC- 480 X 120 (.BMP ONLY)

X2 UNITS [RL2000, X2-MIGRATED RL/FT5000/RT2000 (W/10.4" DISPLAY)]

5.7" DISPLAY (RL2000)

FULL SCREEN- 636 X 476
WELCOME AD- 322 X 475
TRANSACTIONS AD- 636 X 475
RECEIPT- 480 X 120 (.BMP ONLY)

8.0" (RL2000) / 10.4" DISPLAYS

HEADER- 636 X 90
WELCOME AD- 310 X 385
FULL SCREEN AD- 636 X 476
RECEIPT GRAPHIC- 480 X 120 (.BMP ONLY)

* **COUPON GRAPHIC (TOP OR BOTTOM ONLY)- 450 X 225 (.BMP ONLY)**

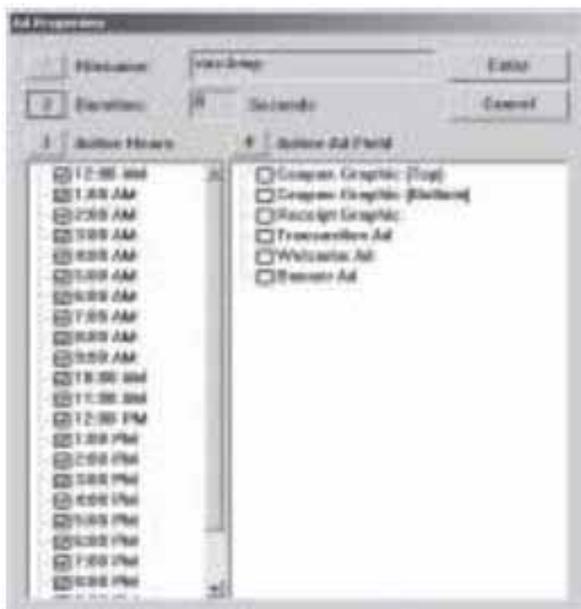
* **COUPON GRAPHIC (TOP AND BOTTOM)- 320 X 160 (.BMP ONLY)**

* APPLIES FOR ANY X2 DISPLAY SIZE

The File List shows the files in the selected location that are of the selected type. The "Filename", "Size", and "Date/Time" attributes are shown for each file. Use the Left or Right <ARROW> keys on the keypad to scroll Down/Up. Press the <CTRL> key to highlight a file.

Press <ENTER> on the keypad. If an Ad graphic was selected, the Ads Properties dialog will appear. The Ad Properties dialog allows you to view and/or configure the following:

- 1. FILENAME-** This is the name of the Bitmap graphic file that will be displayed at the times and in the locations specified by the duration, active hours, and active Ad fields properties. This file was selected in the Add New/Browse dialog. If you want to select a different file, press <1> on the keypad to bring up the Browse dialog again and choose a different file.



2. DURATION- This is the length of time (in seconds) the indicated Ad graphic will be displayed on the terminal screen. To set the time, press <2> on the keypad to bring up a data entry dialog box. Enter the duration in seconds.

NOTE: *The Value must be between '0' and '99999' seconds. If the Ad file is a motion graphic or video and '0' is selected, the Ad will be displayed for the actual playing time of the file.*

3. ACTIVE HOURS- By default, the graphic will be displayed every hour of the day. If you want to restrict the display of the graphic to particular hours of the day, leave a checkmark next to the hour in which you want to display the graphic. Remove the checkmark from those hours in which you don't want the graphic to be displayed.

To configure the active hours for the correct Ad graphic, press <3> on the keypad to move the highlight bar to the first selection in the active hours window, then use the <ARROW> keys to move up and down in the list. Press the <CTRL> key on the keypad to toggle a highlighted selection between checked and unchecked.

4. ACTIVE AD FIELD- Select the location(s) where the Ad graphic will be displayed and/or printed.

(The optimum size in pixels for each graphic is shown in parenthesis to the right of the graphic name.)

To configure the Active Ad Field for the current ad graphic, press <4> on the keypad to move a highlight bar to the first selection in the Active Ad Field window, then use the arrow keys on the keypad to move up and down in the list. Press the <CTRL> key on the keypad to toggle a highlighted selection between checked and unchecked.

Press the <ENTER> key on the keypad to accept the current Ad Properties settings.

**** IMPORTANT ****

If you are adding graphics and get a "Memory" error (Ex: 563, "Low Memory"), there may be too many or excessively large graphic files stored in the internal flash memory. It may be necessary to delete some unused graphic files. To delete files from the internal flash memory:

1. Scroll down/up using the Left or Right <Arrow> keys.
2. Highlight the file to be deleted using the <CTRL> key (Blank key).
3. Press the <CLEAR> key on the keypad.

DELETE/EDIT

ACCESS INSTRUCTIONS:

To delete, select the Delete option from the Ads Graphics screen by pressing <2> on the keypad.

To edit, select the Edit option from the Ads Graphics screen by pressing <3> on the keypad.

DESCRIPTION:

The Delete function removes an Ad graphic entry from the *display list*, **NOT the hard drive**. To delete a graphic:

⇒ Use the <ARROW> keys on the keypad to highlight the graphic you want to remove. Press <2> on the keypad. A confirmation dialog appears. Press <ENTER> to delete the highlighted entry.

The Edit function allows you to change the Ad Properties (Duration, Active Hours, or Active Ad Field) of the selected Ad graphic.

⇒ With the Ads/Graphics main dialog displayed, use the <ARROW> keys to highlight an ad entry in the list. Press <3> on the keypad to bring up the Ad Properties dialog which you will use to edit the ad.

The Ad Properties dialog allows you to view and/or configure the following Ad graphic display properties:

1. **FILENAME-** This option is disabled. The name of the graphic file that was selected in the Ads/Graphics dialog is displayed.
2. **DURATION-** This is the length of time (in seconds) the indicated Ad graphic will be displayed on the terminal screen. To set the time, press <2> on the keypad to bring up a data entry dialog. Enter the duration in seconds.
3. **ACTIVE HOURS-** By default, the graphic will be displayed every hour of the day. If you want to restrict the display of the graphic to particular hours of the day, leave a checkmark next to the hour in which you want to display the graphic. Remove the checkmark from those hour in which you don't want the graphic to be displayed.

To configure the Active Hours for the current ad graphic, press <3> on the keypad to move a highlight bar to the first selection in the Active Hours window, then use the <ARROW> keys on the keypad to move up and down in the list. Press the <CTRL> key on the keypad to toggle a highlighted selection between checked and unchecked.

4. **ACTIVE AD FIELD-** Select the location(s) where the ad graphic will be displayed and/or printed:

ADVERTISEMENT

LOGO

COUPON GRAPHIC

RECEIPT GRAPHIC

To configure the Active Ad Field for the current ad graphic, press <4> on the keypad to move a highlight bar to the first selection in the Active Ad Field window, then use the <ARROW> keys on the keypad to move up and down in the list. Press the <CTRL> key on the keypad to toggle a highlighted selection between checked and not checked. Press <ENTER> on the keypad to accept the current Ad Properties settings.

MOVE UP/DOWN

ACCESS INSTRUCTIONS:

To move up, select the Move Up option from the Ads Graphics screen by pressing <4> on the keypad.

To move down, select the Move Down option from the Ads Graphics screen by pressing <5> on the keypad.

DESCRIPTION:

The order in which multiple ad graphics are displayed on the LCD screen is determined by their arrangement in the Ads/Graphics display list. For example, assume the following items are listed, in the order shown:

store01
promo06
movieclip10

This means that **store01** will be shown first, **promo06** will be shown second, and **movieclip10** will be shown third, then the sequence will repeat.

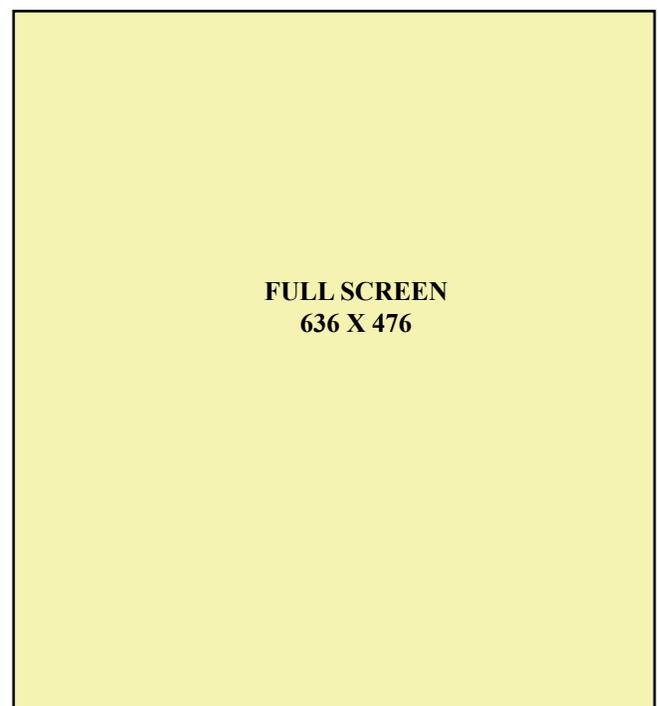
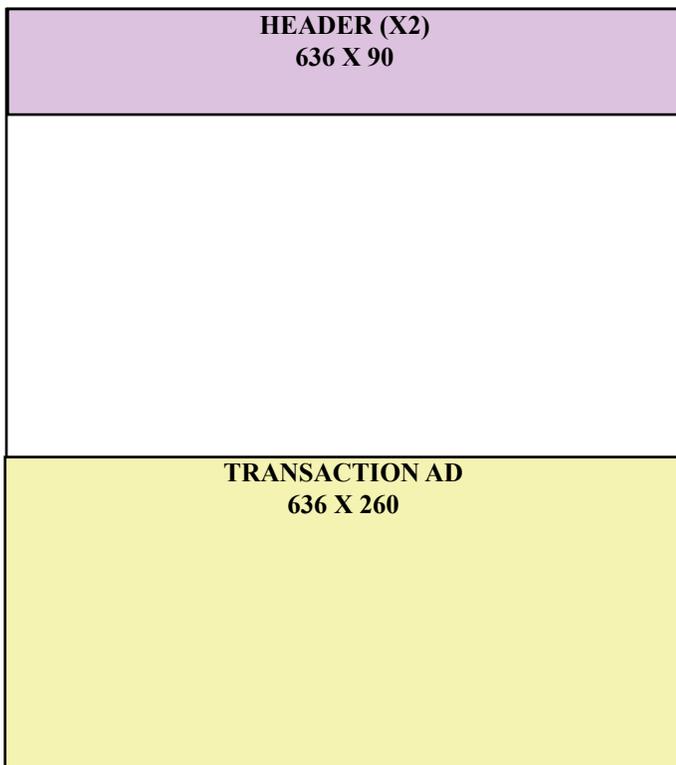
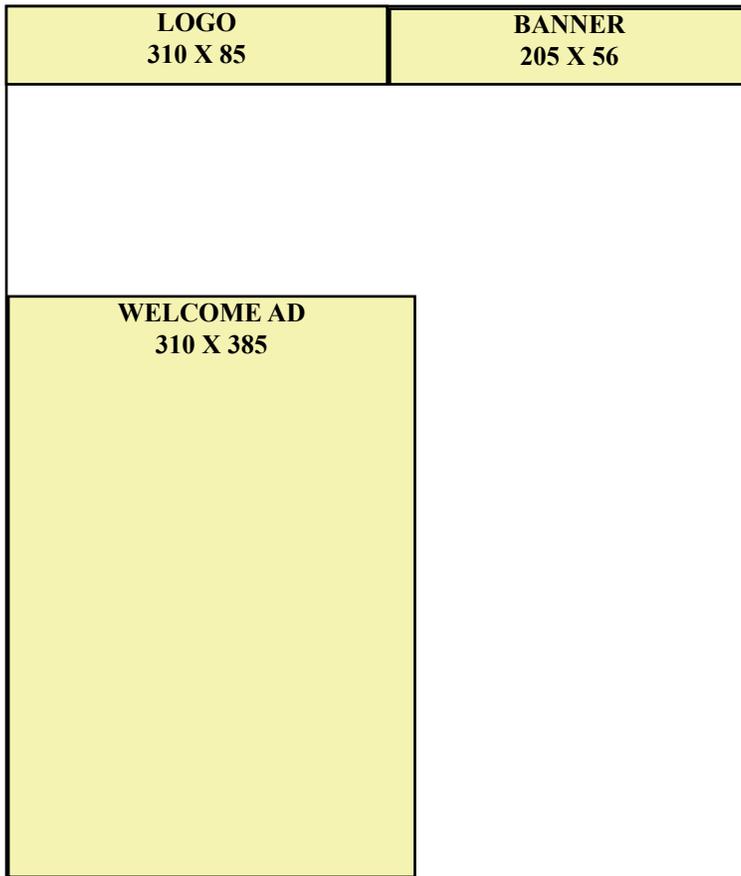
If you want **movieclip10** to be shown before **promo06**, move it upward in the list, so that it appears before **promo06**. To accomplish this, first highlight **movieclip10** using the <ARROW> keys on the keypad. Next, press <4> (Move Up) on the keypad once to move the entry *up* one position in the order. The **movieclip10** entry will replace **promo06** in the second position and **promo06** will be pushed down to the third position. The new order will be:

store01
movieclip10
promo06

If you want **store01** to be shown after **promo06**, move it downward in the list, so that it appears after **promo06**. To accomplish this, first highlight **store01** using the <ARROW> keys on the keypad. Next, press <5> (Move Down) on the keypad once to move the entry *down* one position in the order. The **store01** entry will replace **promo06** in the second position and **promo06** will be moved up to the first position. The new order will be:

promo06
store01
movieclip10

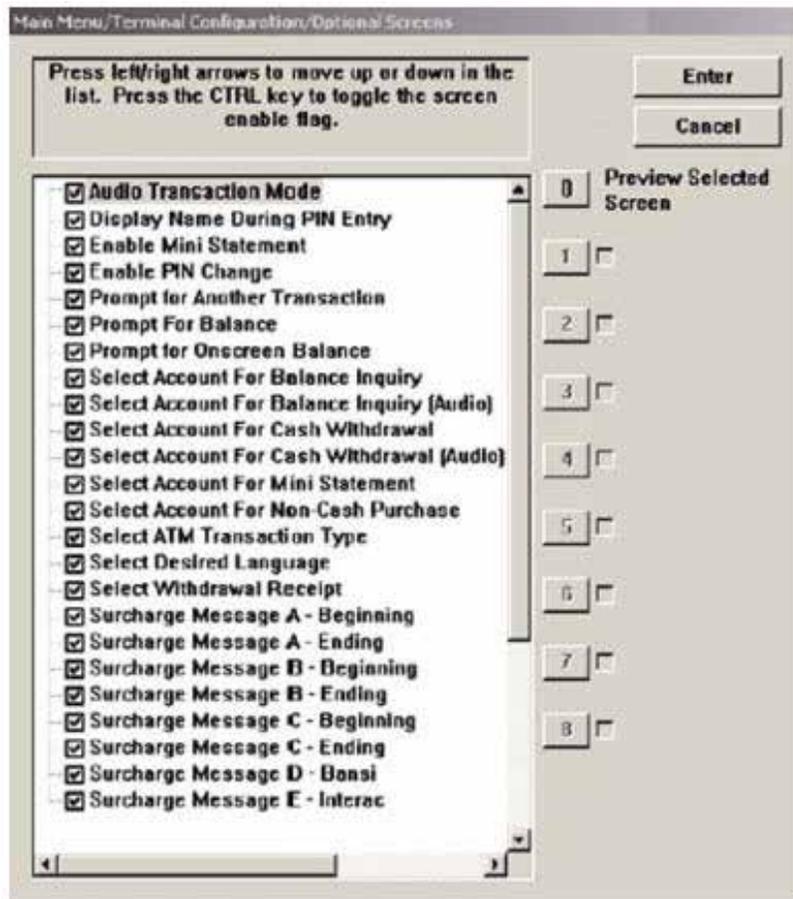
GRAPHIC EXAMPLES



OPTIONAL SCREENS

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Optional Screens option by pressing <8> on the keypad.



DESCRIPTION:

The Optional Screens function helps you customize the terminal by presenting only selected screens to your customers. Use this option to enable (checked) or disable (unchecked) the optional screens and to preview the selected screen.

The number and types of screens listed can vary depending on the country screen configuration file currently in use; however, the available screens will generally fall into the following categories:

ACCOUNT / TRANSACTION SURCHARGE MESSAGE

LANGUAGE SELECTION RECEIPT OPTION

⇒ **ACCOUNT / TRANSACTION-** Screens in this category are used to offer additional keypad-based audio-transaction accounts and transaction type selections to the customer, such as Balance Inquiries, Transfers, and Cash Withdrawals.

⇒ **LANGUAGE SELECTION-** Screens in this category offer the customer the opportunity to select a favored language in which to perform the transaction, such as Spanish or French. Both displayed and audio-based language selections are supported.

⇒ **SURCHARGE MESSAGE-** Processor requirements may dictate that a particular type of wording be used in the surcharge notification message presented to the customer. Screens in this category can offer a choice of surcharge message types from which you can choose the most appropriate for your locale. The location of the surcharge message in the transaction flow (Beginning or Ending) can also be selected.

⇒ **RECEIPT OPTION-** Screens in this category offer the customer the opportunity to choose whether to receive a printed receipt of their transaction or not.

ENABLING / DISABLING OPTIONAL SCREENS

⇒ Use the <ARROW> keys to scroll up/down through the available screen options. Press the <CTRL> key to enable (checked) or disable (unchecked) the selected highlighted screen. Press <ENTER> to accept.

PREVIEWING OPTIONAL SCREENS

⇒ To preview a screen, use the <ARROW> keys to select a screen entry from the list. Press <0> on the keypad to bring up the preview dialog box. The selected screen will be shown as it appears to the customer. Press the <ENTER> key to return to the optional screen main menu.

NOTE: *You may preview any optional screen whether enabled or disabled.*



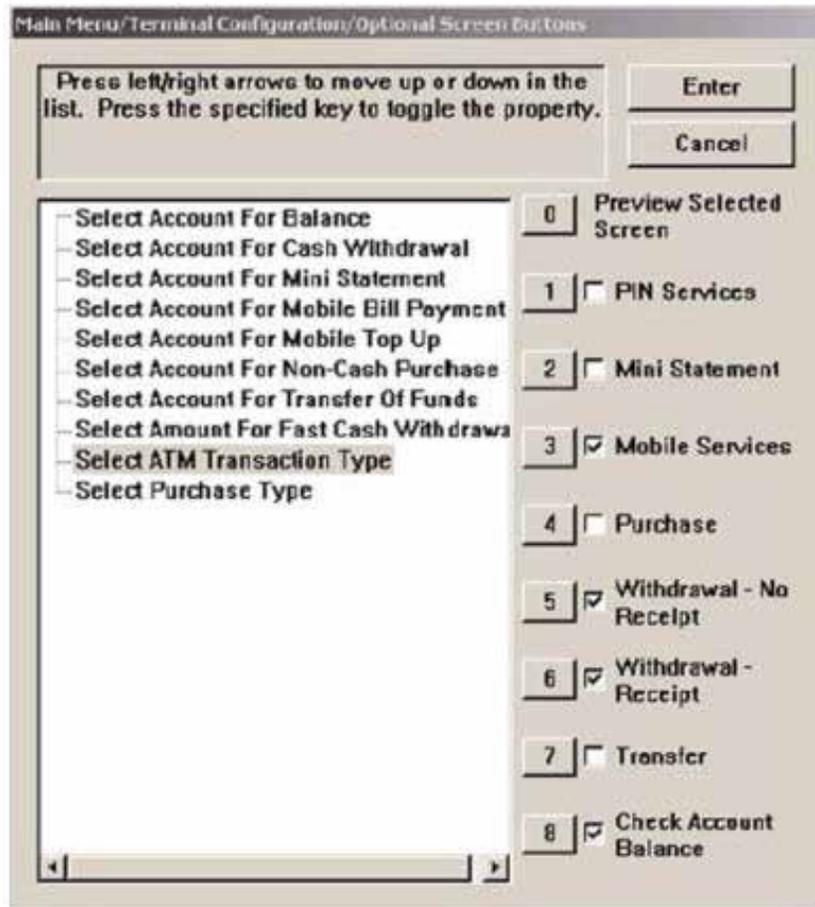
ADDITIONAL OPTIONS

Options one (1) through eight (8), if available, may be used to offer additional customer choices for the currently selected screen. The functions of these keys will depend on the purpose and design of the optional screen.

OPTIONAL SCREEN BUTTONS

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Optional Screen Buttons option by pressing <9> on the keypad.



DESCRIPTION:

The Optional Screen Buttons function helps you customize the terminal by presenting only selected buttons for various customer screens. Use this option to enable (checked) or disable (unchecked) the optional screens and to preview the selected screen.

The number and types of screens listed can vary depending on the country screen configuration file currently in use; however, the available screens will generally fall into the following categories:

ACCOUNT / TRANSACTION SURCHARGE MESSAGE

LANGUAGE SELECTION RECEIPT OPTION

⇒ **ACCOUNT / TRANSACTION-** Screens in this category are used to offer additional keypad-based audio-transaction accounts and transaction type selections to the customer, such as Balance Inquiries, Transfers, and Cash Withdrawals. For each screen type, the available option buttons will be displayed/heard to the customer.

⇒ **FAST CASH AMOUNTS-** Screen buttons in this category offer the customer the convenience of choosing from a number of predefined withdrawal amounts rather than enter the value.

⇒ **PURCHASE SELECTIONS-** For applications in which non-cash items may be purchased from the terminal, screen buttons can be selected to provide the appropriate quantity/process to the customer.

ENABLING/DISABLING OPTIONAL SCREEN BUTTONS

⇒ Use the <**ARROW**> keys to scroll up/down through the available screen options. The button choices applicable to the screen will appear toward the right. Press the number on the keypad that corresponds to the button choice you wish to enable (checked) or disable (unchecked). Press <**ENTER**> when completed.

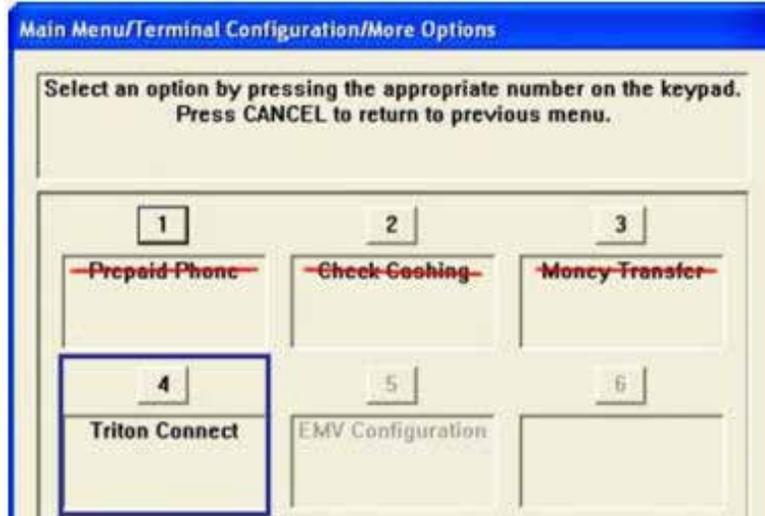
PREVIEWING OPTIONAL SCREEN BUTTONS CONFIGURATION

⇒ To preview a screen button configuration, use the <**ARROW**> keys to select a screen entry from the list. Press <**0**> on the keypad to bring up the preview dialog box. The selected screen will be shown as it appears to the customer with the selection buttons. Press the <**ENTER**> key to return to the optional screen button main menu.

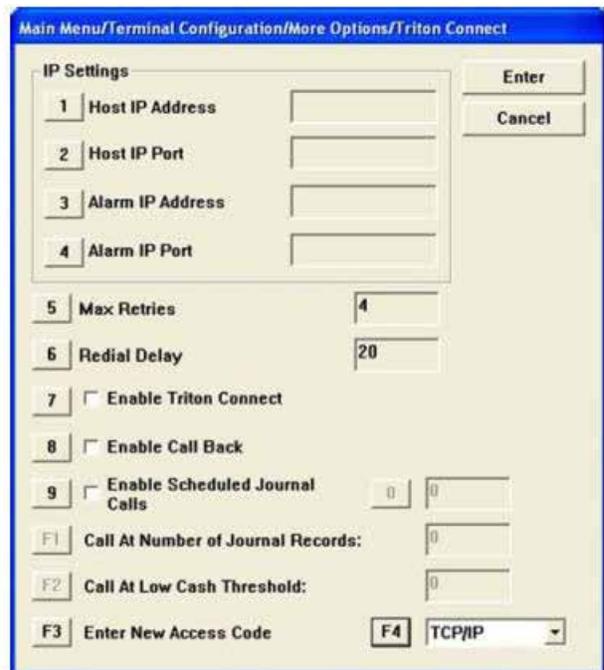
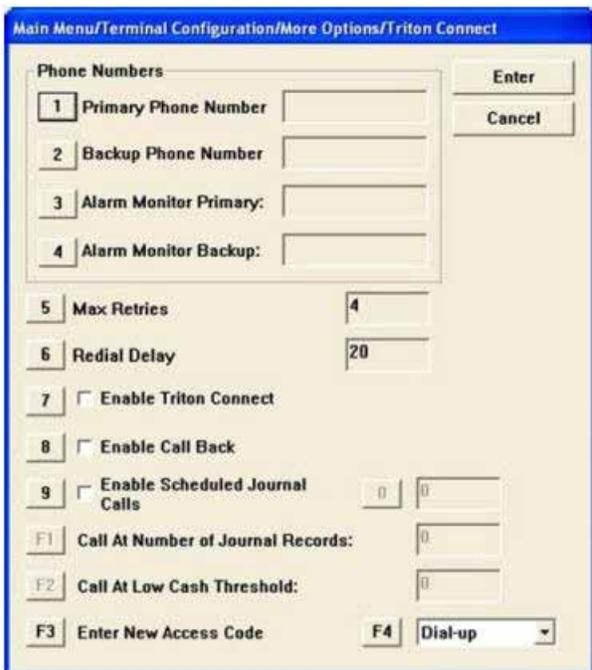
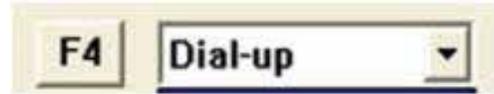
TRITON CONNECT

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the Optional Screen Buttons option by pressing <0> on the keypad. From the More Options screen, select Triton Connect by pressing <4> on the keypad.



NOTE: Select option <F4> for your communication medium (dial-up, TCP/IP, etc) **FIRST**. The Triton Connect main screen will adjust for the selected protocol.



DESCRIPTION:

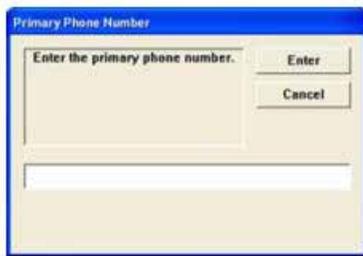
The Triton Connect option allows the terminal operator to perform the following functions:

1. PRIMARY PHONE # / HOST IP ADDRESS (REQUIRED ENTRY)- The Primary Phone Number is a telephone number (usually) or some other number that is used to contact a Triton Connect host. If this number is busy or no answer, the backup number (if required) will be used.

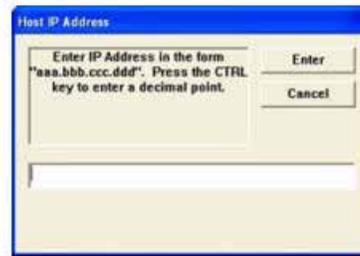
The Host IP Address is the IP Address of the server that will be used to contact the Triton Connect host. The address consists of a sequence of four groups of numbers. Each group can be *up to* three (3) digits long, and each group is separated by a period (dot character). (ex: **123.3.12.99**)

NOTE: The IP address is provided by your host processor/network.

⇒ Press <1> on the keypad. Enter the phone number or IP address (whatever is applicable) in the data entry dialog prompt. Press <ENTER> when completed.



The screenshot shows a dialog box titled "Primary Phone Number". It contains a text input field with the prompt "Enter the primary phone number." To the right of the input field are two buttons: "Enter" and "Cancel".



The screenshot shows a dialog box titled "Host IP Address". It contains a text input field with the prompt "Enter IP Address in the form 'aaa.bbb.ccc.ddd'. Press the CTRL key to enter a decimal point." To the right of the input field are two buttons: "Enter" and "Cancel".

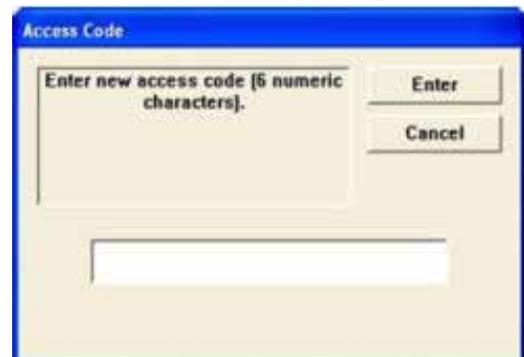
2. BACKUP PHONE # / HOST IP PORT (REQUIRED ENTRY)- The Backup Phone Number (if required) may be used to provide an alternate means of contacting the host processor if the primary fails contact.

The Host IP Port is the port number where the Host IP Address will be listening to process the terminal transactions. The port number is provided by your host Network Administrator. The port number consists of five (5) digits or less.

NOTE: The Port address is provided by your host processor/network.

⇒ Press <2> on the keypad. Enter the backup phone number or IP Port address (whatever is applicable) in the data entry dialog prompt. Press <ENTER> when completed.

3. ALARM MONITOR (PRIMARY) / ALARM IP ADDRESS- You may wish to use an alarm reporting monitoring



The screenshot shows a dialog box titled "Access Code". It contains a text input field with the prompt "Enter new access code (6 numeric characters)." To the right of the input field are two buttons: "Enter" and "Cancel".

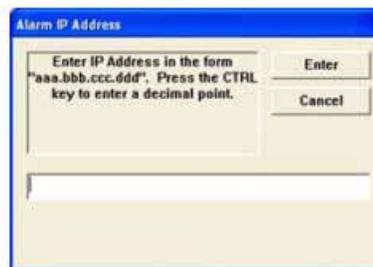
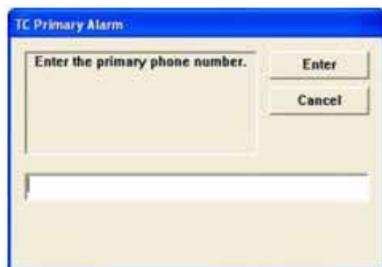
option. This would notify third-party organizations that an error condition at the terminal, for example, has occurred.

The Primary Alarm Monitor is a telephone number (usually) or some other number that is used to contact a Triton Connect host. If this number is busy or no answer, the backup number (if required) will be used.

The Alarm IP Address of the server that will be used to contact the Triton Connect host. The address consists of a sequence of four groups of numbers. Each group can be *up to* three (3) digits long, and each group is separated by a period (dot character). (ex: **123.3.12.99**)

NOTE: The IP address is provided by your host processor/network. You may want to use different phone numbers/IP address for alarm monitoring purposes.

⇒ Press <3> on the keypad. Enter the primary alarm phone number or alarm IP address (whatever is applicable) in the data entry dialog prompt. Press <ENTER> when completed.



4. ALARM MONITOR (BACKUP) / ALARM IP PORT- The Backup Alarm # (if required) may be used to provide an alternate means of contacting the host processor if the primary fails contact.

The Alarm IP Port is the port number where the Host IP Address will be listening to process the terminal transactions. The port number is provided by your host Network Administrator. The port number consists of five (5) digits or less.

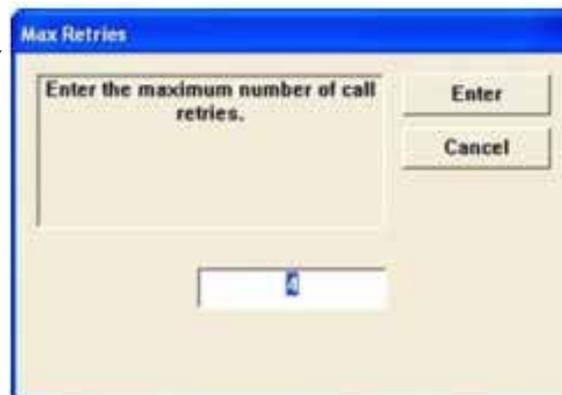
NOTE: The Port address is provided by your host processor/network.

⇒ Press <4> on the keypad. Enter the backup phone number or IP Port address (whatever is applicable) in the data entry dialog prompt. Press <ENTER> when completed.

5. MAX RETRIES- Calls from the terminal to Triton Connect are made in “blocks”. Each block consists of multiple attempts to reach the Triton Connect host computer using primary/backup phone numbers or IP addresses.

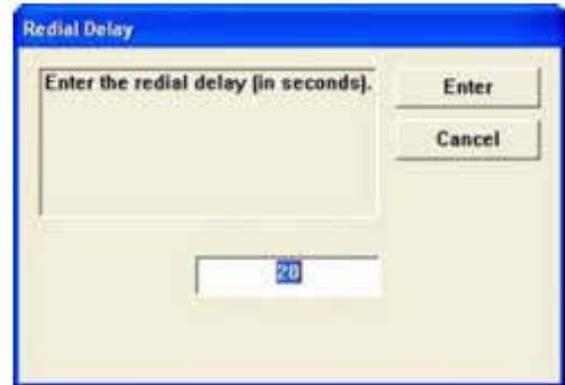
If there is no answer after two (2) calls are made (primary/backup each), the terminal will pause (established by the “Redial Delay” option) and begin the call attempt cycle again. The cycle of call blocks is set by this option (**‘0’ to ‘10’**)

⇒ Press <5> on the keypad. Enter the number of retries in the data entry dialog prompt (max 10). Press <ENTER> when completed.



6. REDIAL DELAY- Use this function to establish the waiting period (in seconds) the terminal will wait between attempts to call back to the Triton Connect host computer. The number of attempts was determined by the “Max Retries” option.

⇒ Press <6> on the keypad. Enter the waiting period time (**between ‘0’ and ‘1000’ seconds**) in the data entry dialog prompt. Press <ENTER> when completed.



7. ENABLE TRITON CONNECT- Triton Connect is PC (Personal Computer) based software that enables you (or a third-party monitoring service) to remotely monitor your terminals. If you are using Triton Connect software to monitor your terminals, this option **MUST** be enabled (checked) for the Triton Connect host to access the terminal.

⇒ Press <7> to toggle between enabled (checked) or disabled (unchecked).

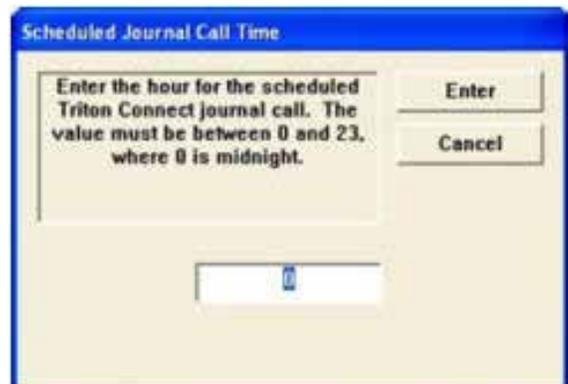
8. ENABLE CALL BACK- Normally, after the Triton Connect host contacts the terminal, it (TC host) will hang up and wait for the terminal to call back and transmit the configuration, status, or journal data that was requested in the initiating call. This is done for security reasons. The Enable Call Back option allows you to enable (checked) or disable (unchecked) this feature.

⇒ Press <8> to toggle between enabled (checked) or disabled (unchecked).

9. ENABLE SCHEDULED JOURNAL CALLS- When this feature is enabled (checked), the terminal will automatically send all journal data to a remote Triton Connect computer at a time established using this function. When **enabled**, option <0> is activated to enter the time (hour) when the terminal will send journal data.

⇒ Press <9> to toggle between enabled (checked) or disabled (unchecked).

⇒ When enabled, press <0> and enter the hour (**between ‘0’ and ‘23’, where ‘0’ represents midnight**) in the data entry dialog prompt. Press <ENTER> when completed.



F1. CALL AT NUMBER OF JOURNAL RECORDS- This function sets the number of journal records that will automatically trigger a notification message to a remote Triton Connect computer.

⇒ Press <F1> on the function keys. A data entry dialog prompt appears. Enter the number of journal records to issue a Triton Connect call using a value between '1' and '99999'. Press <ENTER> when completed.

NOTE: Enter zero <0> to disable this function.

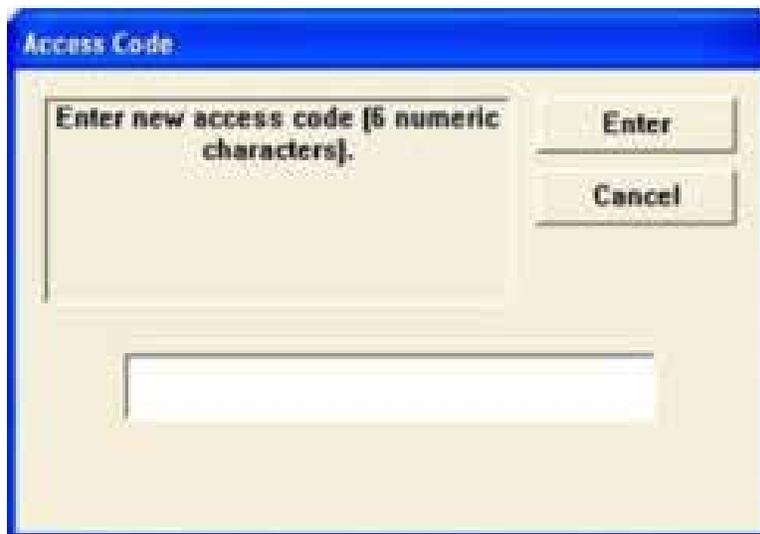
F2. CALL AT LOW CASH THRESHOLD- This function allows you to enter the number of notes in a cassette that will automatically trigger a low cash notification message to a remote Triton Connect computer.

⇒ Press <F2> on the function keys. A data entry dialog prompt appears. Enter the low cash threshold in total number of bills left that will trigger a low cash level. Use a value between '1' and '99999'. Press <ENTER> when completed.

NOTE: Enter zero <0> to disable this function.

F3. ENTER NEW ACCESS CODE- Enter a six (6)-digit code that a Triton Connect host computer must use when calling the terminal to perform software downloads/updates. If the code used does not match this code entered, the terminal will not allow the software download to be performed.

⇒ Press <F3> on the function keys. A data entry dialog prompt appears. Enter the 6-digit access code. Press <ENTER> when completed.



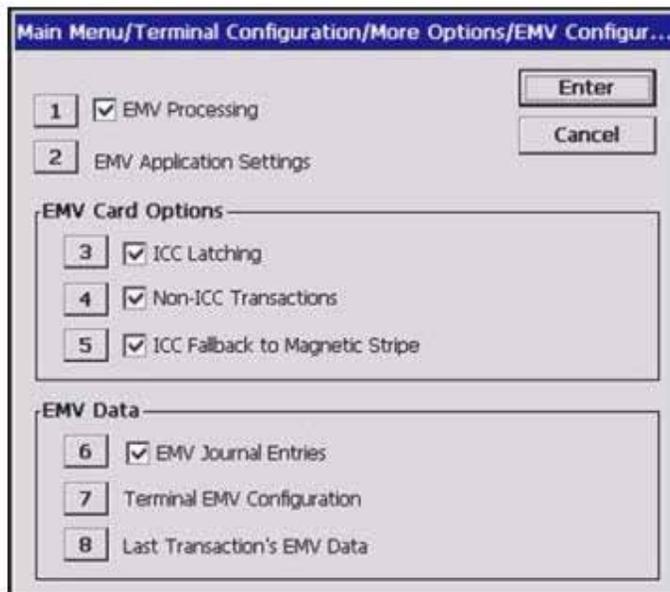
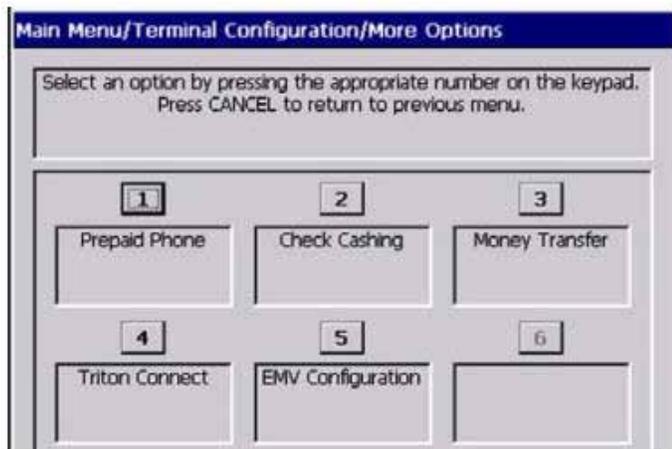
EMV CONFIGURATION

ACCESS INSTRUCTIONS:

From the Terminal Configuration screen, select the More Options option by pressing <0> on the keypad.

From the More Options screen, select EMV Configuration option by pressing <5> on the keypad.

NOTE: This option is active only if an EMV card reader is installed and software supports it.



DESCRIPTION:

The EMV Configuration option allows the terminal operator to perform the following functions:

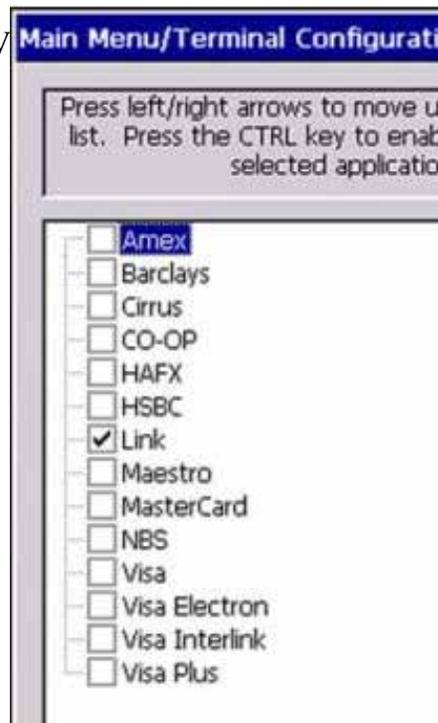
1. EMV PROCESSING- When this feature is enabled (checked), the EMV card reader is activated.

⇒ Press <1> to toggle between enabled (checked) or disabled (unchecked). When enabled, option <2> will be activated.

2. EMV APPLICATION SETTINGS- Selecting this option lists all of the EMV AIDs that are loaded on the terminal. A checkmark indicates if that AID is enabled.

NOTE: These next 4 options are in effect ONLY if option (1) is enabled (checked).

⇒ Press <2> to bring up the AIDs list. Press the <ARROW> keys to move through the options. Press the <CTRL> key to enable (check) or disable (uncheck) the selected application. Press <ENTER> when completed.



EMV CARD OPTIONS:

3. ICC LATCHING- When enabled (checked), the EMV card reader will latch the EMV card during a transaction.

⇒ Press <3> to toggle between enabled (checked) or disabled (unchecked).

4. NON-ICC TRANSACTIONS- When enabled (checked), the terminal will process magnetic stripe-only transactions.

⇒ Press <4> to toggle between enabled (checked) or disabled (unchecked).

5. ICC FALLBACK TO MAGNETIC STRIPES- When enabled (checked), the terminal will process the transaction using magnetic stripe if the IC fails on the card.

⇒ Press <5> to toggle between enabled (checked) or disabled (unchecked).

EMV CARD OPTIONS:

6. EMV JOURNAL ENTRIES- When enabled (checked), the terminal will record the extra data that is received and transmitted during an EMV transaction to the journal for dispute resolution.

⇒ Press <6> to toggle between enabled (checked) or disabled (unchecked).

7. TERMINAL EMV CONFIGURATION- This option displays a management report of all the EMV kernel settings.

⇒ Press <7> to display the EMV configuration report.

8. LAST TRANSACTION'S EMV DATA- This option displays a management report of all the EMV items that were in the last EMV transaction. This data will only appear if the terminal has not been rebooted since the last EMV transaction.

⇒ Press <8> to display the last EMV transaction data.

```

Store Message
Terminal ID:
7/18/2007 3:06:46 PM

Kernel Version: 2.3.0.0
Application: 1.0

Last Transaction's EMV Data

No Data

*** End Management Report ***
    
```

```

Store Message
Terminal ID:
7/18/2007 3:06:39 PM

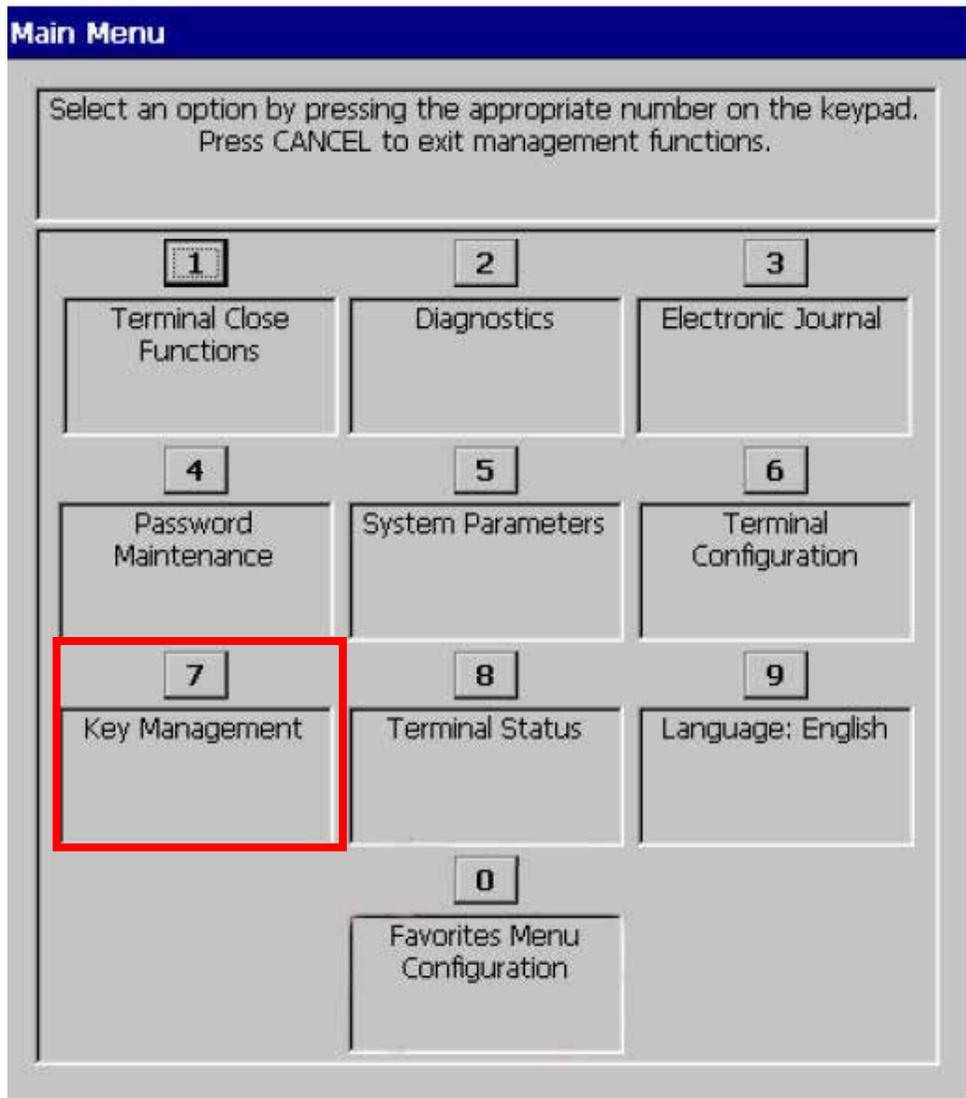
Kernel Version: 2.3.0.0
Application: 1.0

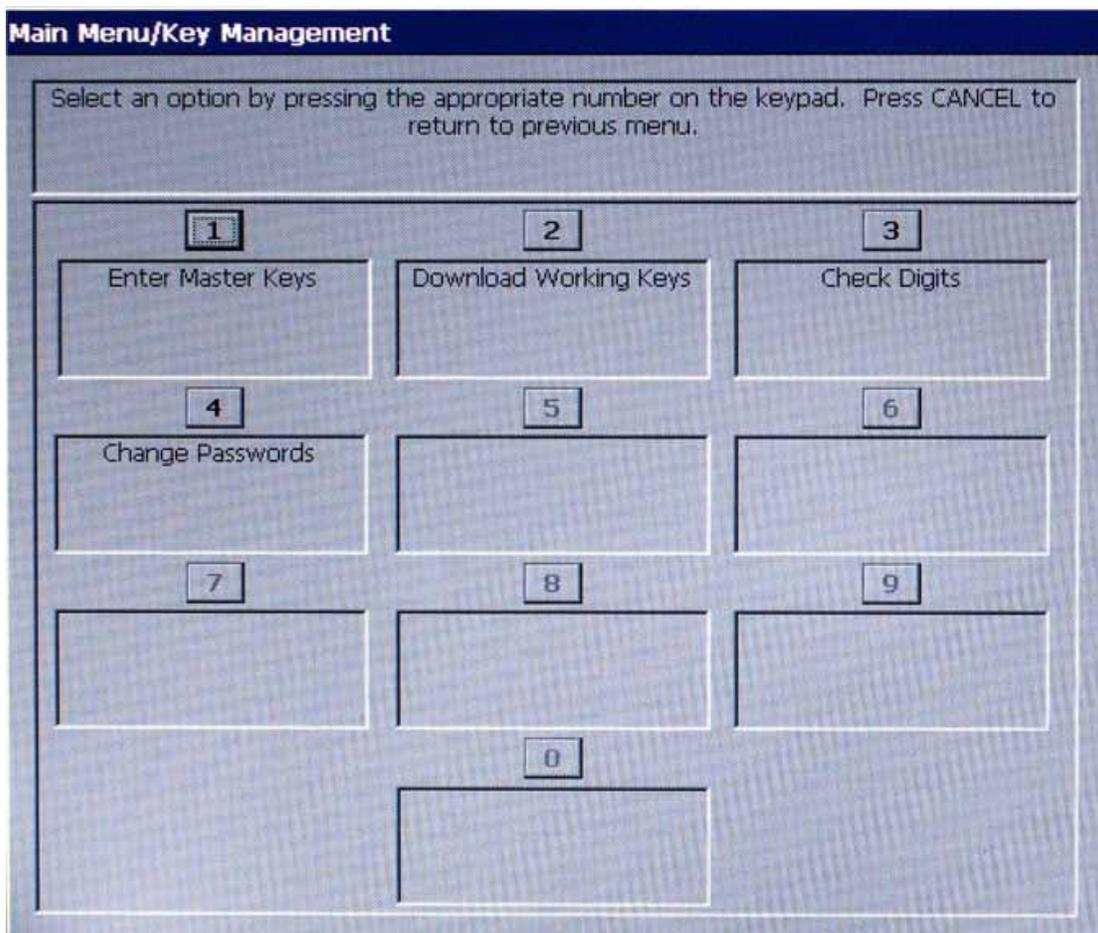
Terminal EMV Configuration

IFD Serial Number: "23457990"
UnknownTransactionActions:
  0xFFFFFFFF (4294967295)
TAC Denial: 20 00 98 00 40
TerminalID: "RL0000"
TAC Default: FF FF FF FF FF
TAC Online: FF FF FF FF FF
ThresholdValue: 0x000003E8 (1000)
MaxTargetPercentage: 0x00000023 (35)
TargetPercentage: 0x00000020 (32)
POS Entry Mode: 05
Terminal Country Code: 08 26
. . . . .
    
```

OPTION 7

KEY MANAGEMENT





KEY MANAGEMENT FUNCTIONS

KEY MANAGEMENT MENU OPTIONS OVERVIEW.....	140
ENTER MASTER KEYS.....	141
ENTER MAC MASTER KEY.....	142
ENTER PIN MASTER KEY.....	144
DOWNLOAD WORKING KEYS.....	146
CHECK DIGITS.....	147
CHANGE PASSWORDS.....	148

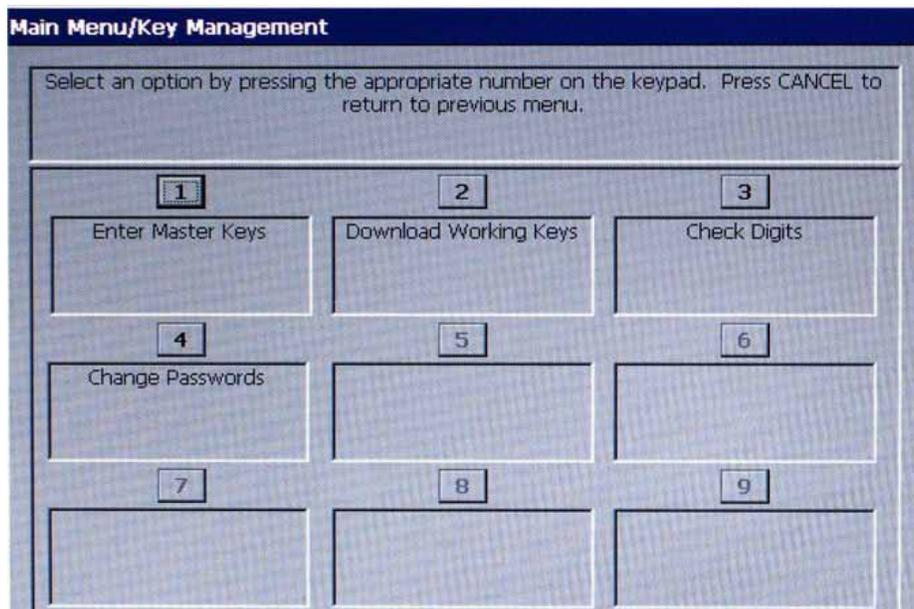
**** PLEASE READ ****

The procedures in this section reference SPED VEPP SP-06 (or higher) and older software that supported. If your unit has a T5 or T7 PCI-certified EPP installed, refer to SUPPLEMENT C in this Configuration Manual for entering/changing passwords and keys. There are some important differences that must be adhered to (especially the T5 EPP!)

KEY MANAGEMENT

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Key Management option by pressing <7> on the keypad.



DESCRIPTIONS:

The Terminal Configuration option allows the terminal operator to perform the following functions:

- 1. ENTER MANAGEMENT KEYS-** This function is used to enter the MAC and PIN Master Keys. Requires 2 password access (User 1 and User 2) to enter keys. You may also change the passwords in this function.
- 2. DOWNLOAD WORKING KEYS-** Used to download the MAC and PIN Working Keys from the processor's host computer.
- 3. CHECK DIGITS-** Displays a management report that shows the check digits string for the currently loaded Master and Working keys.
- 4. Change User Passwords-** This function allows the passwords for each user to be changed.

ENTER MASTER KEYS

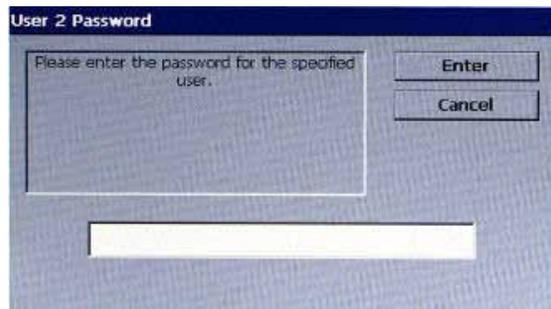
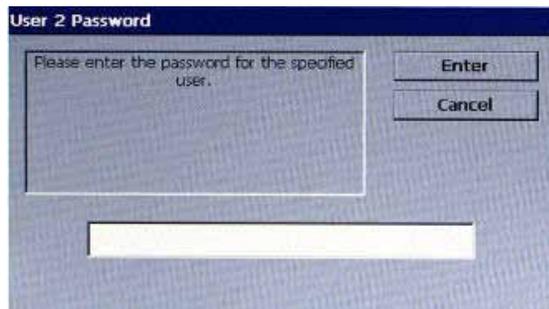
ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Key Management option by pressing <7> on the keypad.

From the Key Management screen, select the Enter Master Keys option by pressing <1> on the keypad.

DESCRIPTIONS:

Selecting “Enter Master Keys” on terminals using the SP-06 VEPP (or higher) will bring up prompts to enter two (2) User passwords (User 1 and User 2). The User passwords are not the same passwords used to enter Management Functions. The default password for *both* Users is “000000” (six zeroes).



When the first password (User 1) has been entered successfully, a prompt will appear to enter the second password (User 2). Both User Passwords must be changed from the default (000000) before a Master Key can be entered. If both passwords are entered correctly, the terminal will display the Key Management option screen.

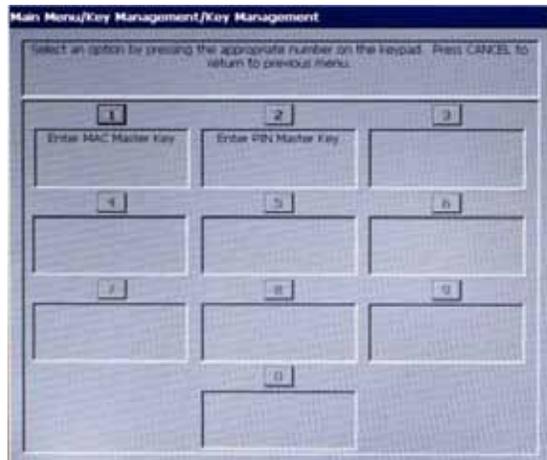
If the passwords have not been changed from the default values, option 1 (Enter MAC Master Key) and option 2 (Enter PIN Master Key) will not be available (they will be grayed out). Both User Passwords must be changed from the default before the Master Keys can be entered.

ENTER MAC MASTER KEY

ACCESS INSTRUCTIONS:

From the Key Management screen, select the Enter Master Keys option by pressing <1> on the keypad.

From the Enter Master Keys screen, select Enter MAC Master Keys option by pressing <1> on the keypad.



DESCRIPTIONS:

MAC is an acronym for *Message Authentication Code*. The MAC Master Key provides key protection during manual entry or downloading of the PIN Working Key.

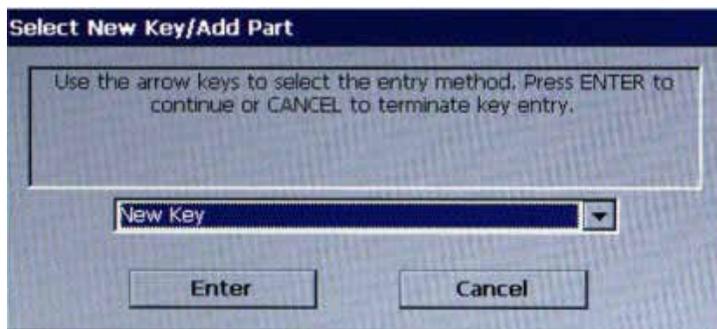
NOTE: *A MAC Master Key will only be used when it is required by the processor, and has been enabled as a communication configuration option.*

If required, obtain the MAC Master Key from the processor. It must be entered before the MAC Working Key can be downloaded.

The MAC Master Key normally consists of a two part, 64-character Triple DES key (32 characters in both key parts). The MAC Master Key can be made up from the hexadecimal character set (the numbers 0-9 and the letters A-F).

Follow these steps to enter the MAC Master Key:

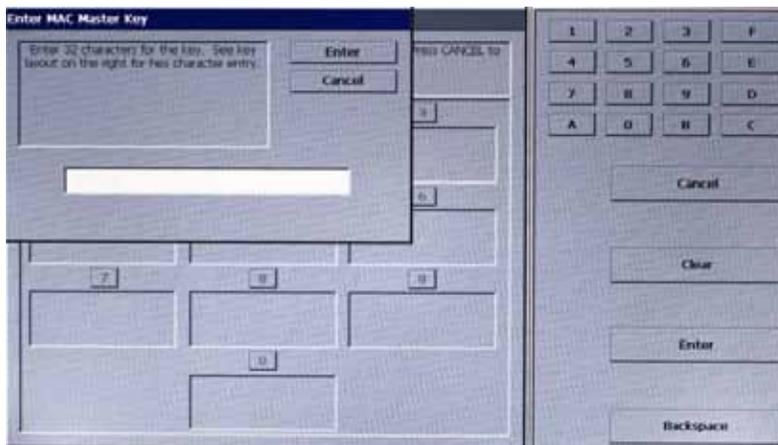
⇒ The first screen to appear asks you to indicate whether this is a “New Key” or “Add Part” to an existing key that was already entered. Use the <CLEAR> button on the keypad to select (highlight) the key type field. Use the <ARROW> button on the keypad to alternate between the 2 options. Select the “New Key” option when entering a new key or the first part of a new key. After entering the first part (32 characters), you will automatically be prompted to enter the second part.



KEY MANAGEMENT

⇒ After selecting the “New Key” option, use the keypad on the control panel to enter the MAC Master Key into the dialog box. Follow the keypad and function key orientation (layout) as illustrated by the graphic panel on the right side of the screen. As each character of the key is entered on the keypad, an asterisk is displayed in the dialog box. After all 32 characters of the first key part have been entered from the keypad, press the <ENTER> key. A dialog box will appear and display the check digits for the key.

⇒ Verify that the check digits match the check digits provided by the processor. If they match, press <ENTER> on the control panel keypad to accept the key. Press <ENTER> again to return to the Key



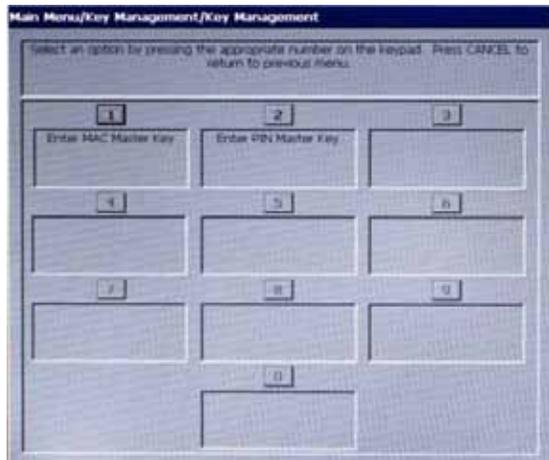
Management screen. If the returned check digits do not match, press <CANCEL> on the keypad. The existing key will not change. Press <ENTER> to return to the Key Management screen. Select the “Enter MAC Master Key” option by pressing <1> on the keypad and repeat the steps for entering a key part.

ENTER PIN MASTER KEY

ACCESS INSTRUCTIONS:

From the Key Management screen, select the Enter Master Keys option by pressing <1> on the keypad.

From the Enter Master Keys screen, select Enter MAC Master Keys option by pressing <2> on the keypad.



DESCRIPTIONS:

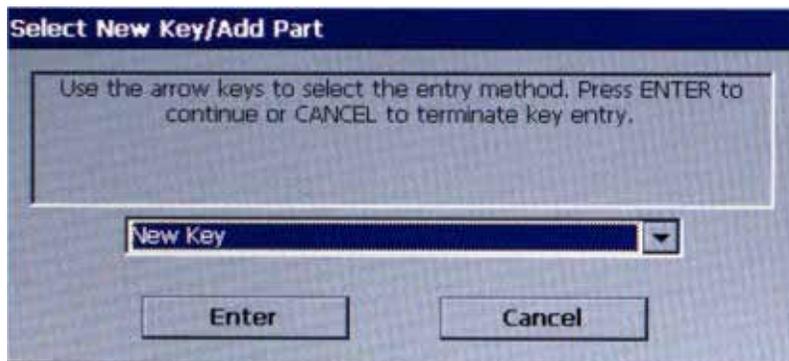
PIN is an acronym for *Personal Identification Number*. The PIN Master Key provides key protection during manual entry or downloading of the PIN Working Key.

Obtain the PIN Master Key from the processor. It must be entered before the PIN Working Key can be downloaded.

The PIN Master Key normally consists of a two part, 64-character Triple DES key (32 characters in both key parts). The PIN Master Key can be made up from the hexadecimal character set (the numbers 0-9 and the letters A-F).

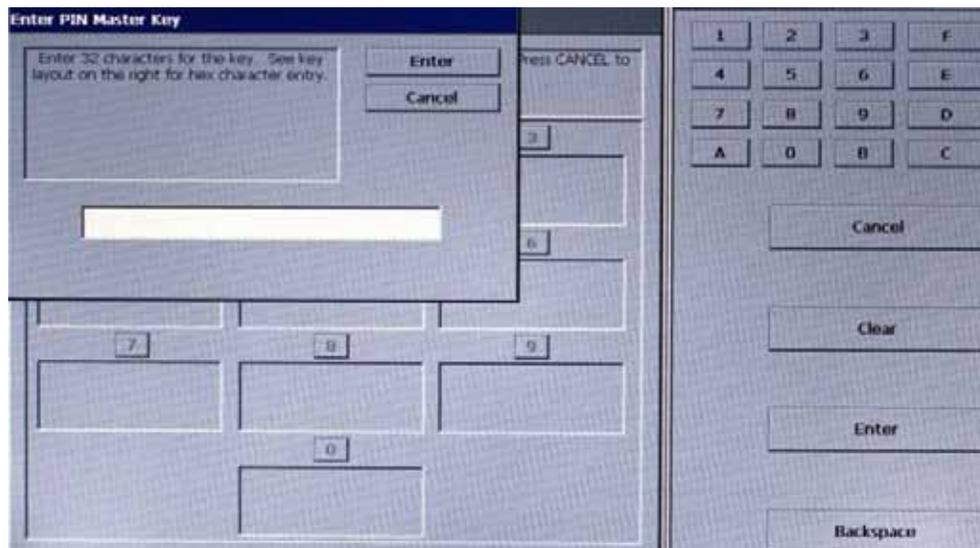
Follow these steps to enter the PIN Master Key:

⇒ The first screen to appear asks you to indicate whether this is a “New Key” or “Add Part” to an existing key that was already entered. Use the <CLEAR> button on the keypad to select (highlight) the key type field. Use the <ARROW> button on the keypad to alternate between the 2 options. Select the “New Key” option when entering a new key or the first part of a new key. After entering the first part (32 characters), you will automatically be prompted to enter the second part.



KEY MANAGEMENT

⇒ After selecting the “New Key” option, use the keypad on the control panel to enter the PIN Master Key into the dialog box. Follow the keypad and function key orientation (layout) as illustrated by the graphic panel on the right side of the screen. As each character of the key is entered on the keypad, an asterisk is displayed in the dialog box. After all 32 characters of the first key part have been entered from the keypad, press the <ENTER> key. A dialog box will appear and display the check digits for the key.



⇒ Verify that the check digits match the check digits provided by the processor. If they match, press <ENTER> on the control panel keypad to accept the key. Press <ENTER> again to return to the Key Management screen. If the returned check digits do not match, press <CANCEL> on the keypad. The existing key will not change. Press <ENTER> to return to the Key Management screen. Select the “Enter PIN Master Key” option by pressing <1> on the keypad and repeat the steps for entering a key part.

DOWNLOAD WORKING KEYS

ACCESS INSTRUCTIONS:

From the Key Management screen, select the Download Working Key option by pressing <2> on the keypad.

DESCRIPTION:

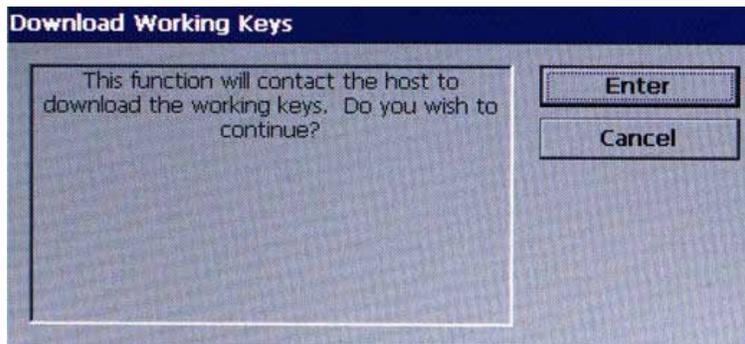
The MAC and PIN Working Keys must be loaded before the terminal can operate in a “live” mode.

When this function is selected, a call is placed to the processor and a request is made for the keys to be downloaded. Upon receiving a valid request, the host (processor) will download the keys and several other parameters (such as the surcharge amount, if applicable). Once downloaded, these parameters will remain in the terminal, even if it is turned off.

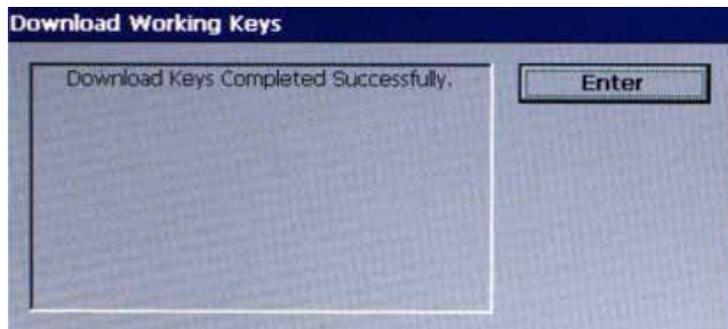
* NOTE *

The Terminal ID and the Primary Number (modem)/Host IP Address, Host Port Number, and the terminal’s Ethernet Settings (TCP/IP) must be entered (as applicable) before attempting to download the Working Keys.

The following dialog box will appear when the Download Working Keys option is selected:



⇒ Press <ENTER> on the keypad to start the download or <CANCEL> to abort the request. If the Working Keys downloaded successfully, the following dialog box will appear:



⇒ Press <ENTER> on the keypad to return to the Key Management screen.

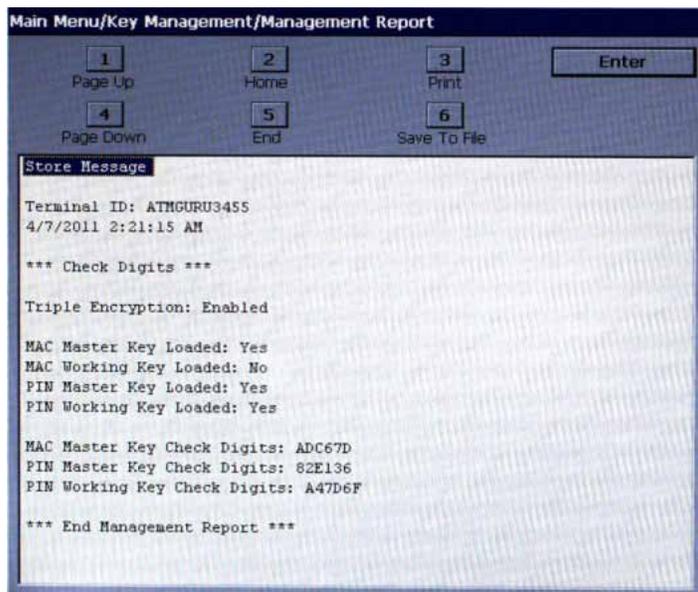
CHECK DIGITS

ACCESS INSTRUCTIONS:

From the Key Management screen, select the Check Digits option by pressing <3> on the keypad.

DESCRIPTIONS:

This option displays a management report that shows the check digits string associated with the currently loaded master and working keys (MAC and/or PIN as applicable).



The check digits sequence is used to confirm that the key was entered correctly. The processor can provide a set of check digits for reference purposes. If the check digits displayed in the report are different from the reference set, the MAC and/or PIN Master Keys may be invalid or corrupted. Contact the processor for assistance if necessary.

⇒ Press <ENTER> on the keypad to return to the Key Management screen.

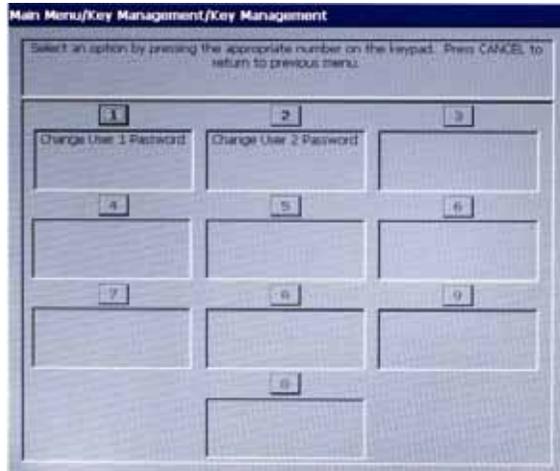
CHANGE PASSWORDS

ACCESS INSTRUCTIONS:

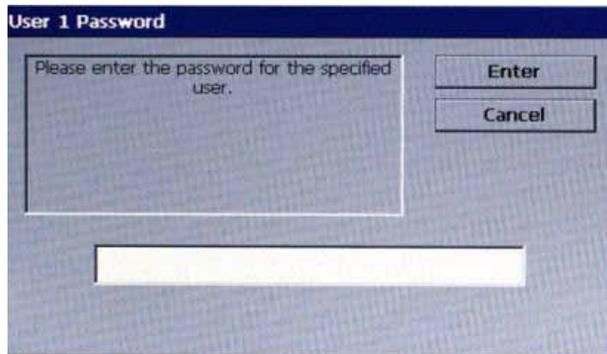
From the Main Menu screen, select the Key Management option by pressing <7> on the keypad.
From the Key Management screen, select the Change passwords option by pressing <4> on the keypad.

DESCRIPTION:

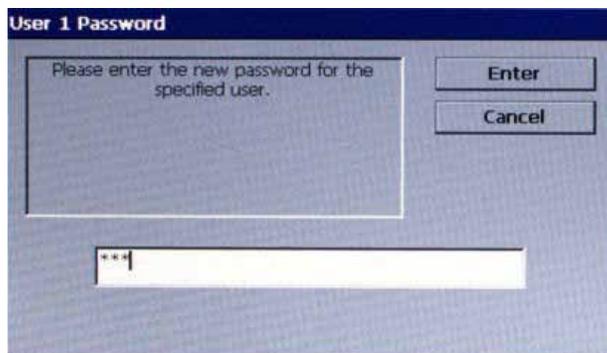
The Change Password tab allows the user to change the existing passwords for both users.
Select which password to be changed by clicking on User 1 or User 2.



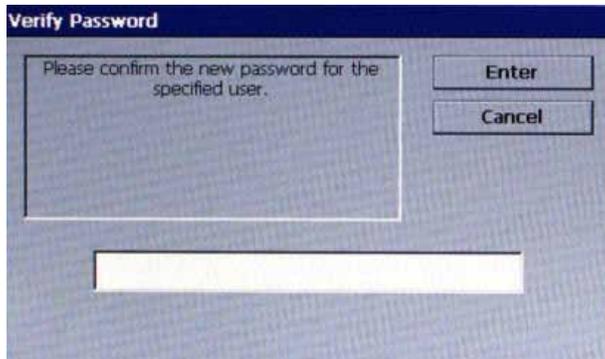
Enter the current password for the specific user and press <ENTER>.



Enter the new password for the specific user and press <ENTER>.



A prompt will appear to enter the new User Password a second time. Re-enter the new password and press <ENTER>.

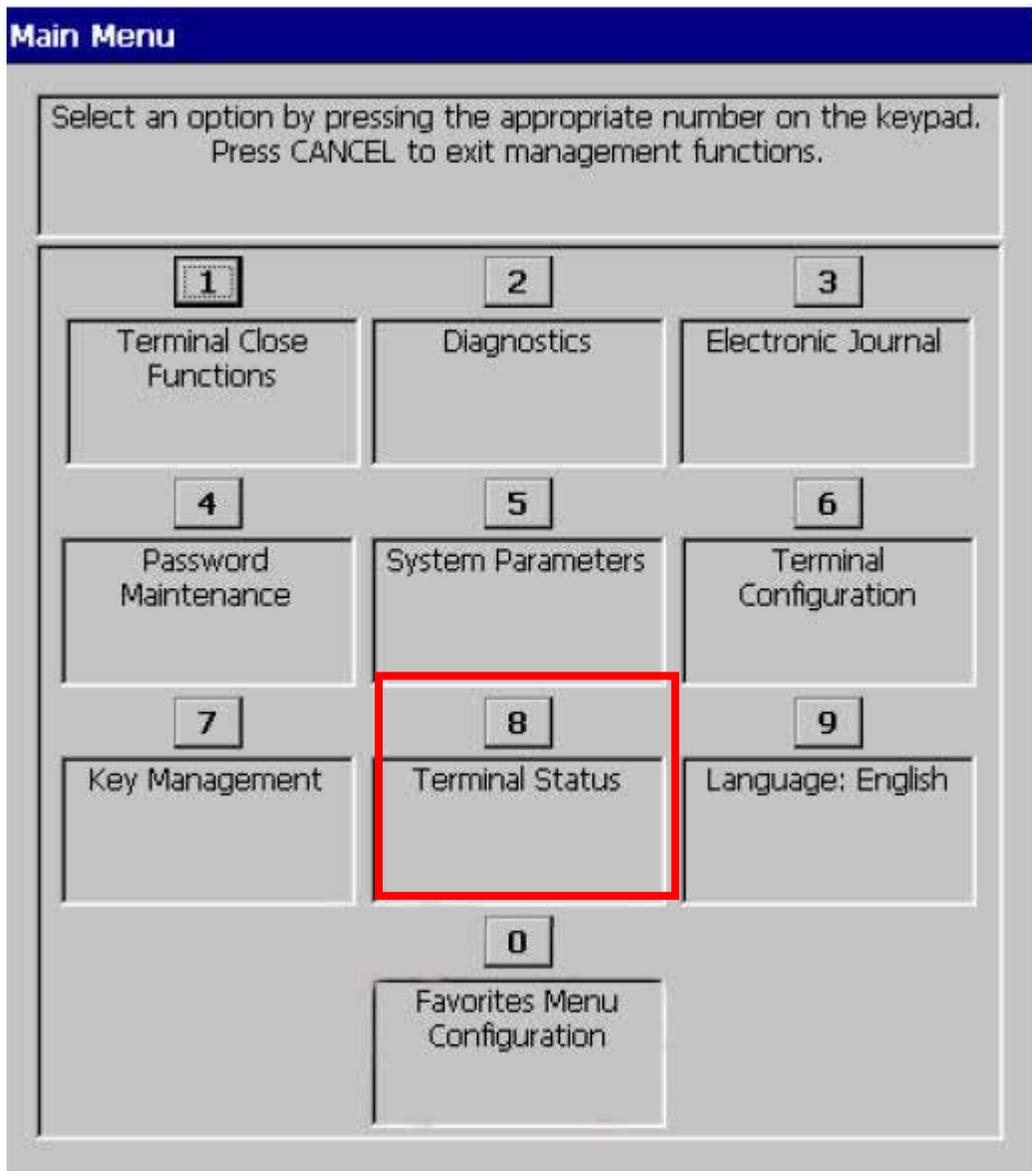


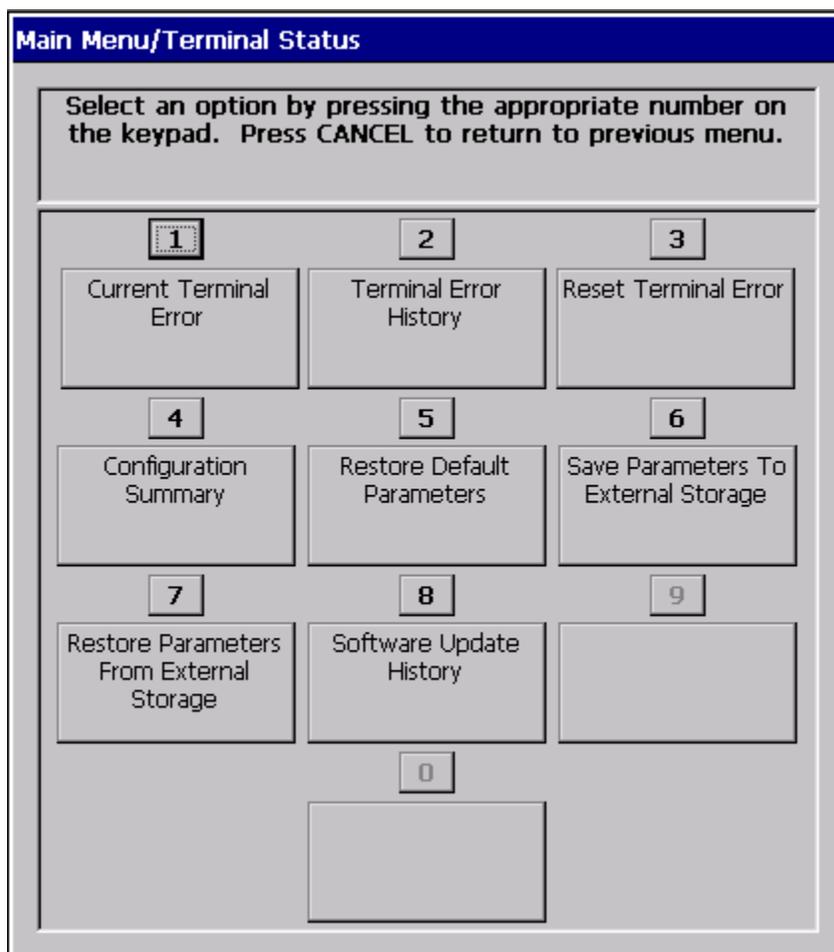
If the second entry does not match the first entry, the user will be prompted to return and re-enter the password or cancel out of the request and return to the Key Management screen. Press <ENTER>.

If the second entry matches the first entry for both User 1 and User 2, the display will return to the Key Management screen.

OPTION 8

TERMINAL STATUS





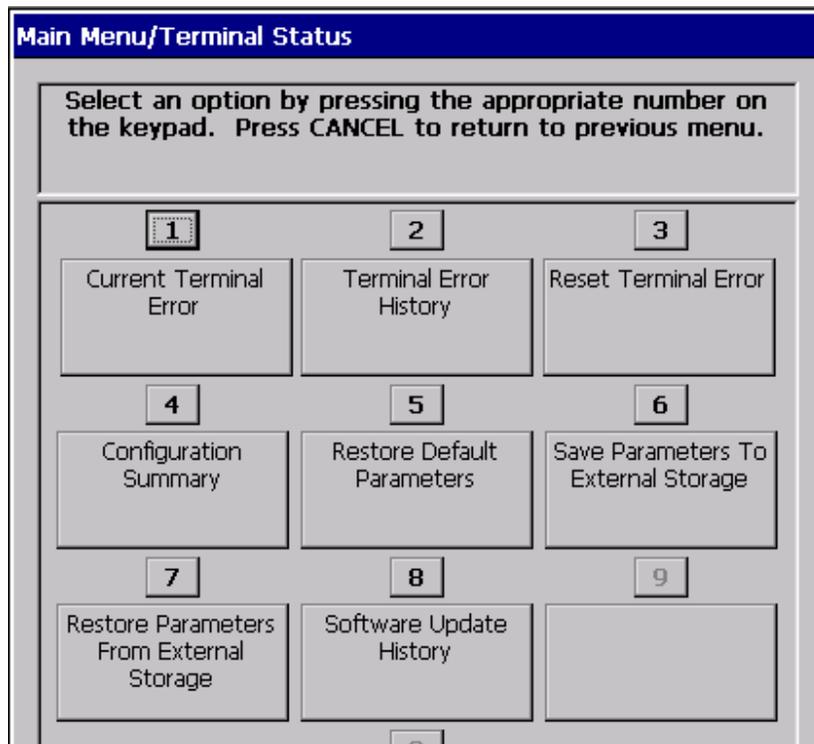
TERMINAL STATUS FUNCTIONS

TERMINAL STATUS FUNCTIONS MENU OPTIONS OVERVIEW.....	152
CURRENT TERMINAL ERROR.....	153
ERROR HISTORY.....	153
RESET TERMINAL ERROR.....	154
CONFIGURATION SUMMARY.....	154
RESTORE DEFAULT PARAMETERS.....	155
SAVE PARAMETERS TO EXTERNAL STORAGE DEVICE.....	156
RESTORE PARAMETERS FROM EXTERNAL STORAGE.....	157

TERMINAL STATUS

ACCESS INSTRUCTIONS:

From the Main Menu screen, select the Terminal Status option by pressing <1> on the keypad.



DESCRIPTIONS:

The Terminal Status option allows the terminal operator to perform the following functions:

1. **CURRENT TERMINAL ERROR**- Displays current error status of the terminal.
2. **TERMINAL ERROR HISTORY**- Displays a log of all terminal error events.
3. **RESET TERMINAL ERROR**- Allows the user to attempt to reset the current terminal error.
4. **CONFIGURATION SUMMARY**- Displays a comprehensive report of all terminal configuration information.
5. **RESTORE DEFAULT PARAMETERS**- This function restores the factory default parameter settings.
6. **Save Parameters to External Storage**- Allows the user to save all current terminal parameters to an external memory device (jump drive).
7. **Restore Parameters from External Storage**- Allows the user to restore terminal parameters that were previously saved to an external memory device (jump drive).

CURRENT TERMINAL ERROR

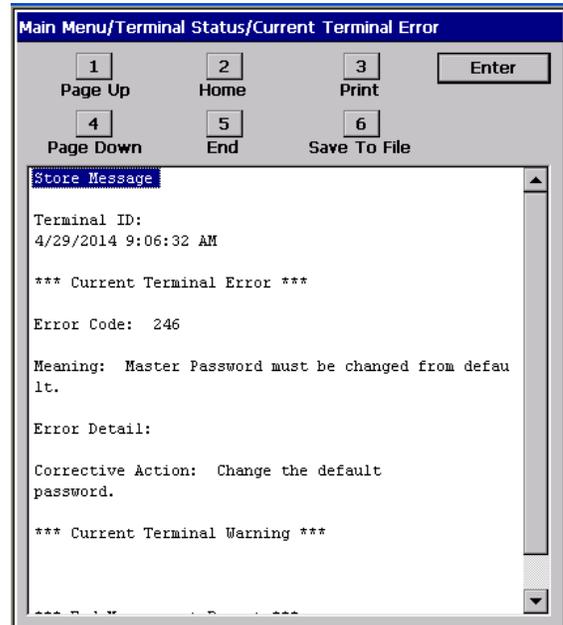
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Current Terminal Error option by pressing <1> on the keypad.

DESCRIPTION:

The Current Terminal Error function displays a management report that shows the most current terminal status / error code. The error code is listed with a short description of the condition.

The report is displayed in a management report dialog, which can be printed to the receipt printer or saved to an external memory device.



TERMINAL ERROR HISTORY

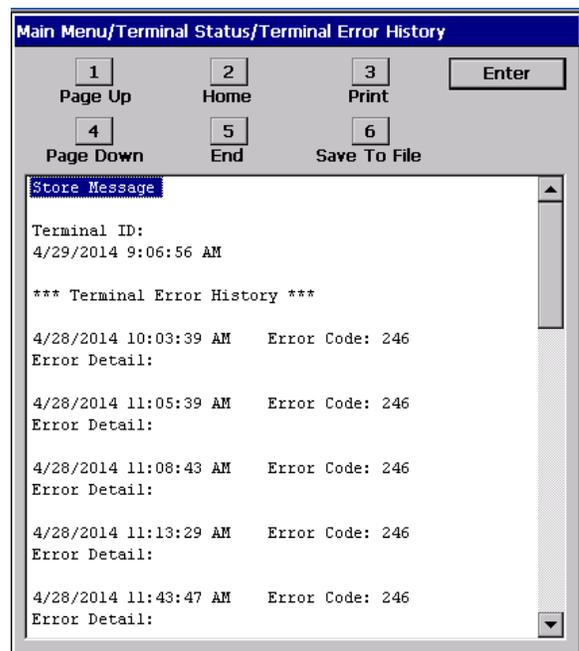
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Terminal Error History option by pressing <2> on the keypad.

DESCRIPTION:

The Terminal Error History function displays a management report showing all status / error codes that have been recorded since the initial terminal setup. A short description of each code is provided. The history of terminal status/error codes will not be cleared when the “Reset Terminal Error” function is used.

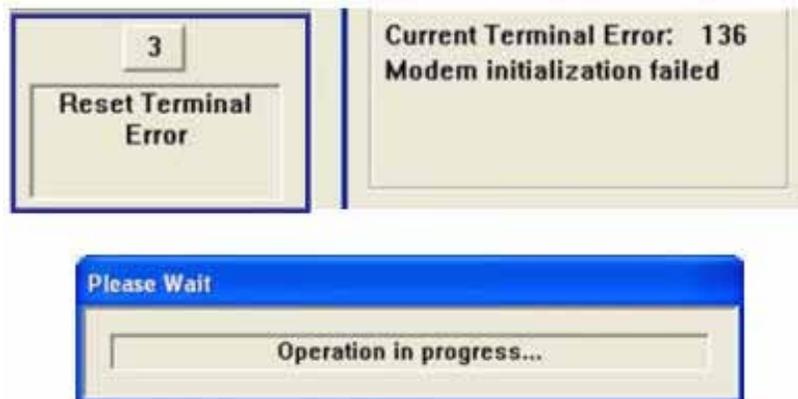
The report is displayed in a management report dialog which can be printed to the receipt printer or saved to an external memory device.



RESET TERMINAL ERROR

ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Reset Terminal Error option by pressing <3> on the keypad.



DESCRIPTION:

The Reset Terminal Error function attempts to reset the current terminal error. If successful, the current terminal error will show: Zero (0).

CONFIGURATION SUMMARY

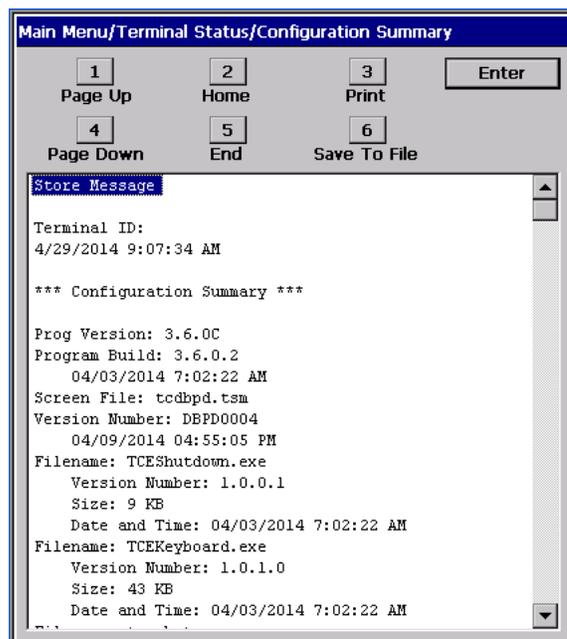
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Configuration Summary option by pressing <4> on the keypad.

DESCRIPTION:

The Configuration Summary function displays a management report of the current terminal configuration and hardware status information. Information is provided for all terminal configuration areas, as well as dispenser, printer, modem and keypad status.

The report is displayed in a management report dialog, which can be printed to the receipt printer or saved to an external memory device.



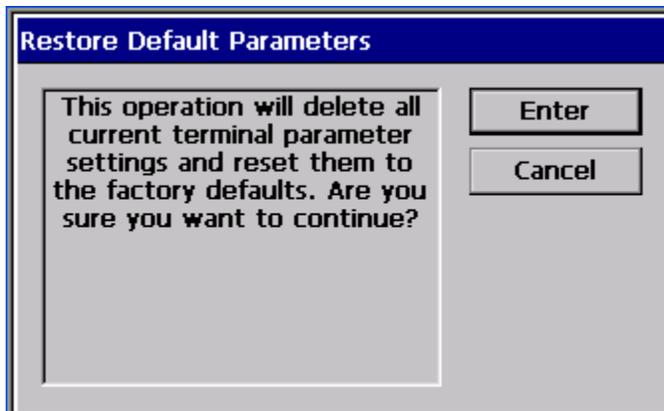
NOTE

It is highly recommended that the report be generated and saved after the initial setup of the terminal, and whenever significant changes are made to the terminal's current configuration.

RESTORE DEFAULT PARAMETERS

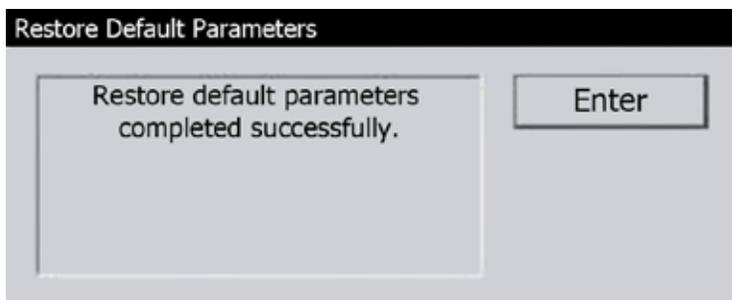
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Restore Default Parameters option by pressing <5> on the keypad.



DESCRIPTION:

The Restore Default Parameters function restores the factory-default terminal parameter settings. All the current parameters (including any that have been modified from their factory-default values) will be DELETED and the factory-default values will be restored. When prompted, select <ENTER> to continue.



A confirmation dialog is displayed. Select “Enter” to return to Terminal Status options.

SAVE PARAMETERS TO EXTERNAL STORAGE DEVICE

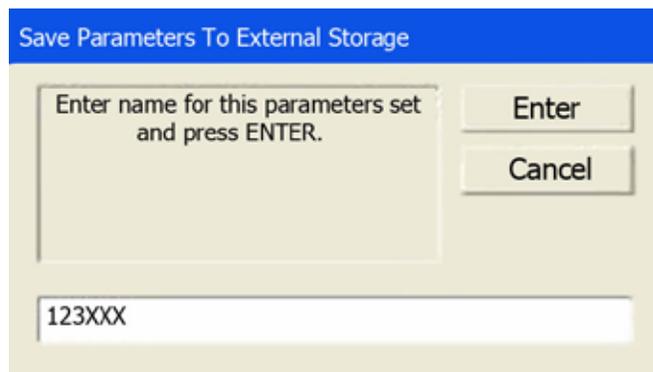
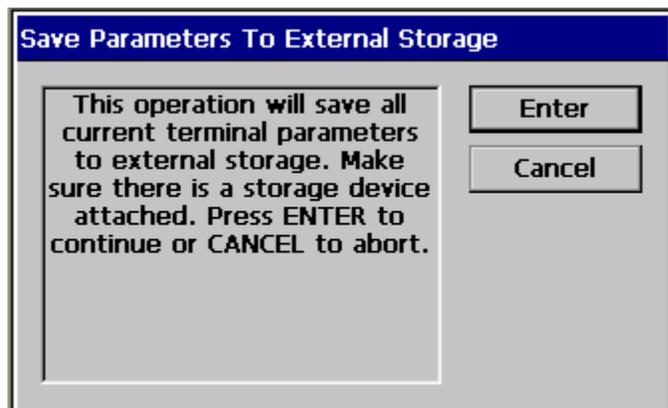
ACCESS INSTRUCTIONS:

From the Terminal Status screen, select the Save Parameters to External Storage Device option by pressing <6> on the keypad.

DESCRIPTION:

The Save Parameters to External Storage function saves the current terminal parameters to an external storage device (jump drive) attached to a USB port.

- ⇒ Install the jump drive to any unused USB port.
- ⇒ Select “6” on the keypad. The following prompts appear. Press “Enter” to continue.
- ⇒ Enter a name for this saved parameter file. Press “Enter”.
- ⇒ At the confirmation dialog, remove the jump drive.



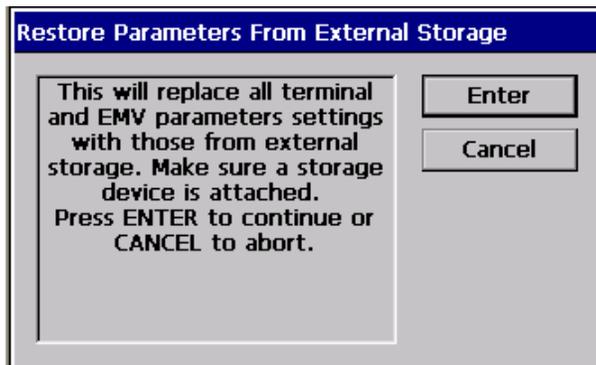
RESTORE PARAMETERS FROM EXTERNAL STORAGE DEVICE

ACCESS INSTRUCTIONS:

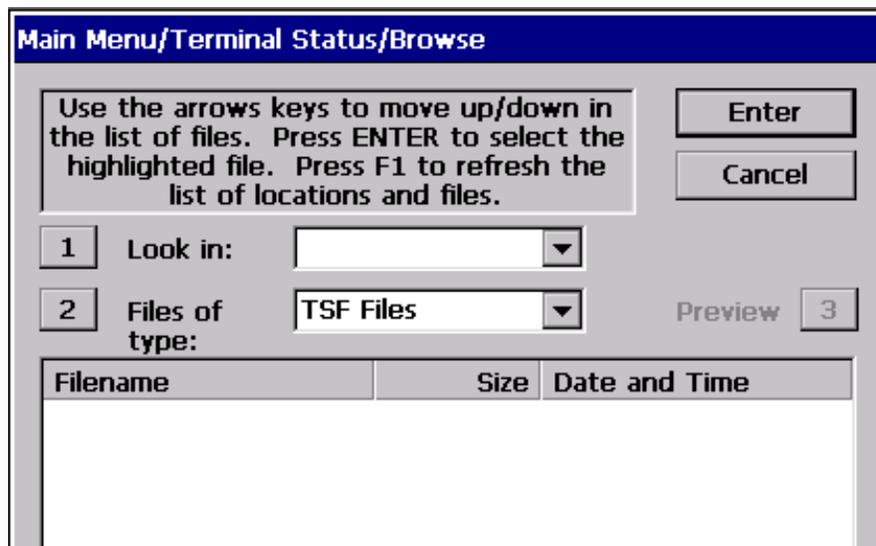
From the Terminal Status screen, select the Restore Parameters from External Storage Device option by pressing <7> on the keypad.

DESCRIPTION:

The Restore Parameters from External Storage function restores a previously saved set of parameters from an external storage device (jump drive).

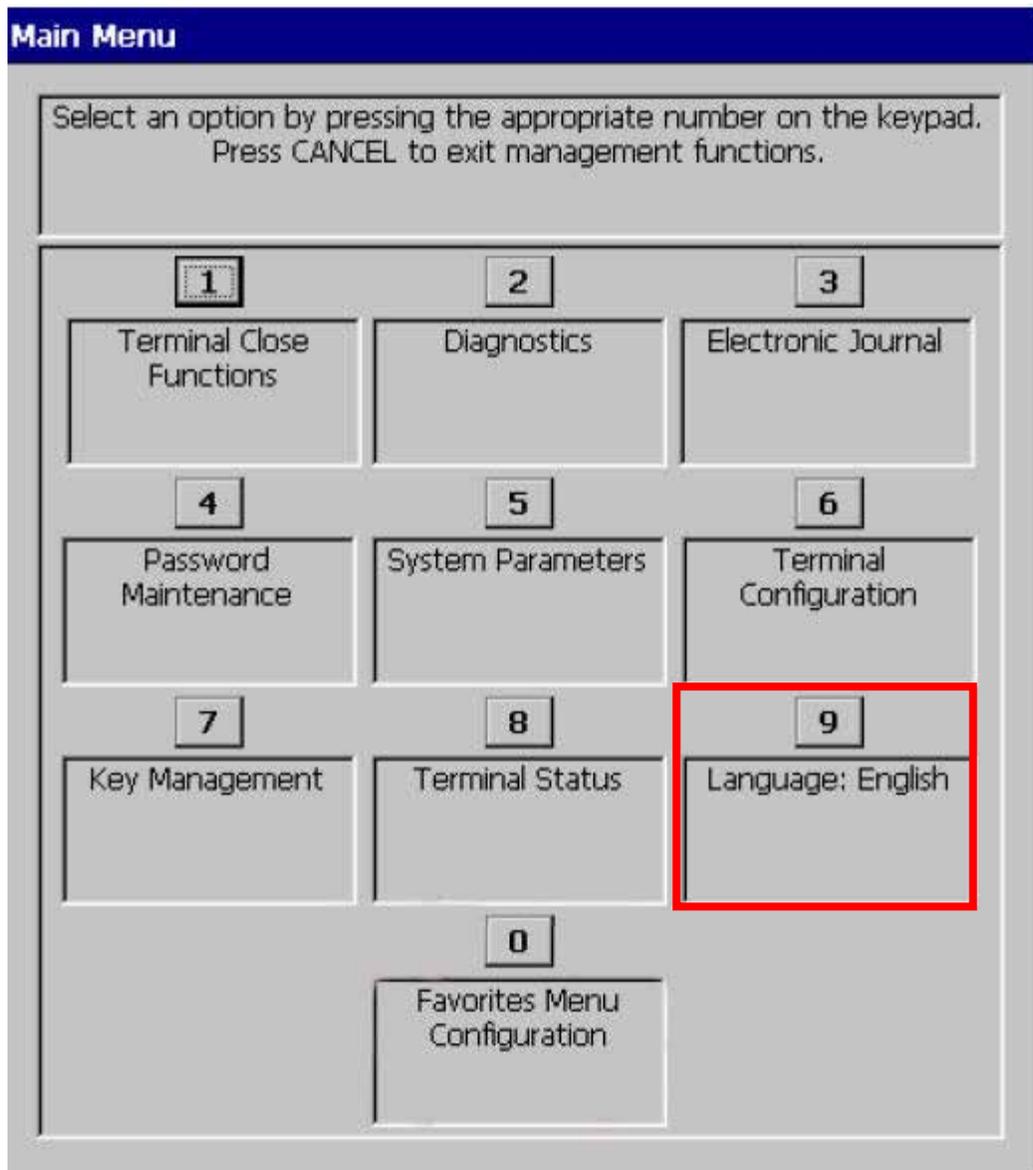


- ⇒ Install the jump drive into any unused USB port.
- ⇒ Select <7> on the keypad. The prompt shown below appears. Press <ENTER> to continue.
- ⇒ **LOOK IN:** Press <1> to cycle through the destinations of the saved parameter file. Select “USB Device”.
- ⇒ **FILES OF TYPE:** Press <2> to select the saved parameter file type and name. Use the arrow keys to move up/down in the list of files. Press <ENTER> to select the highlighted file.
- ⇒ The saved parameters will be loaded on the terminal. At the confirmation dialog, remove the jump drive.



OPTION 9

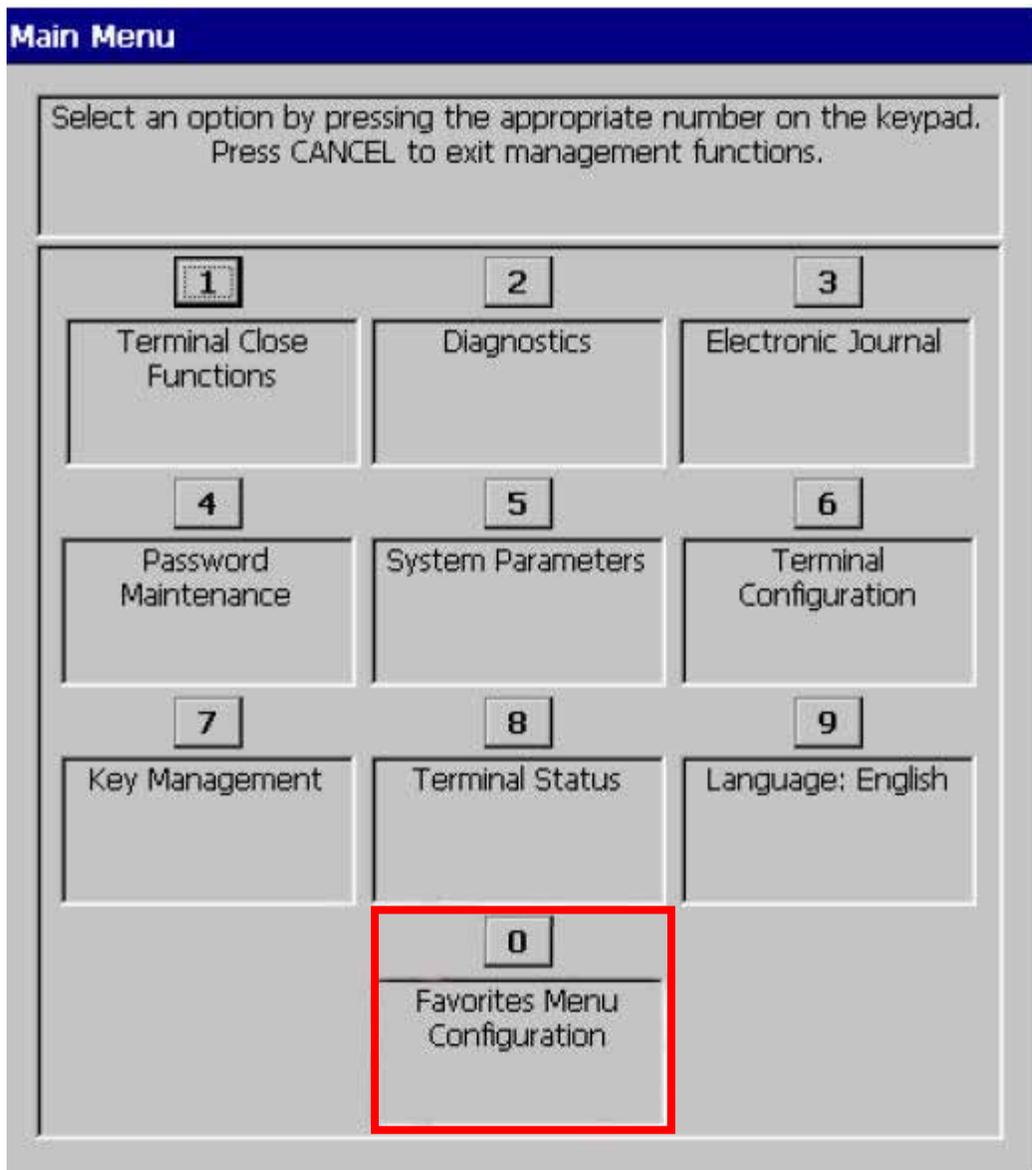
LANGUAGE

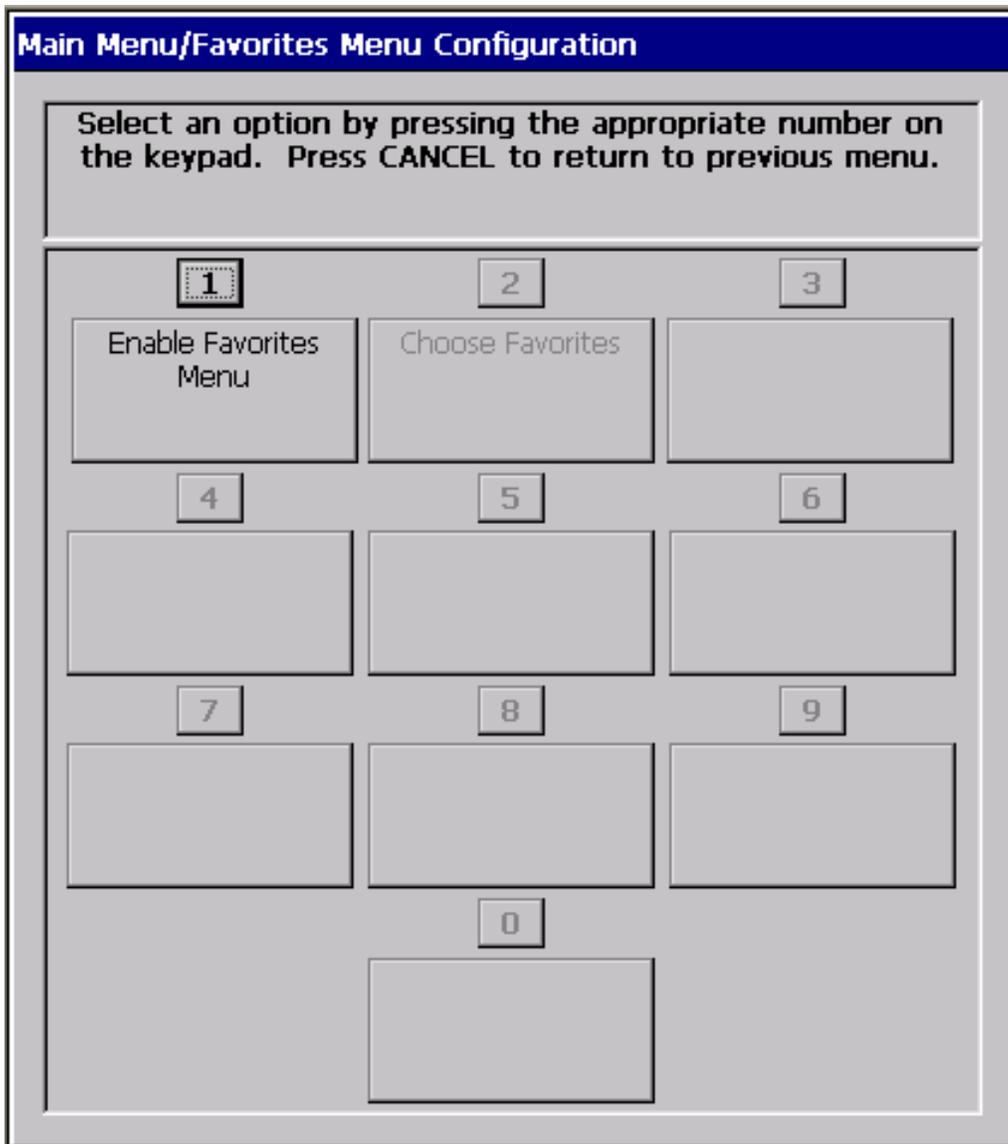
**DESCRIPTION:**

The Language option allows the user to set the language the unit will use when displaying customer screens. It also sets the Management Function language for all parameter options.

⇒ Press <9> to cycle through the available language options (English, French, Spanish, etc...).

FAVORITES MENU CONFIGURATION



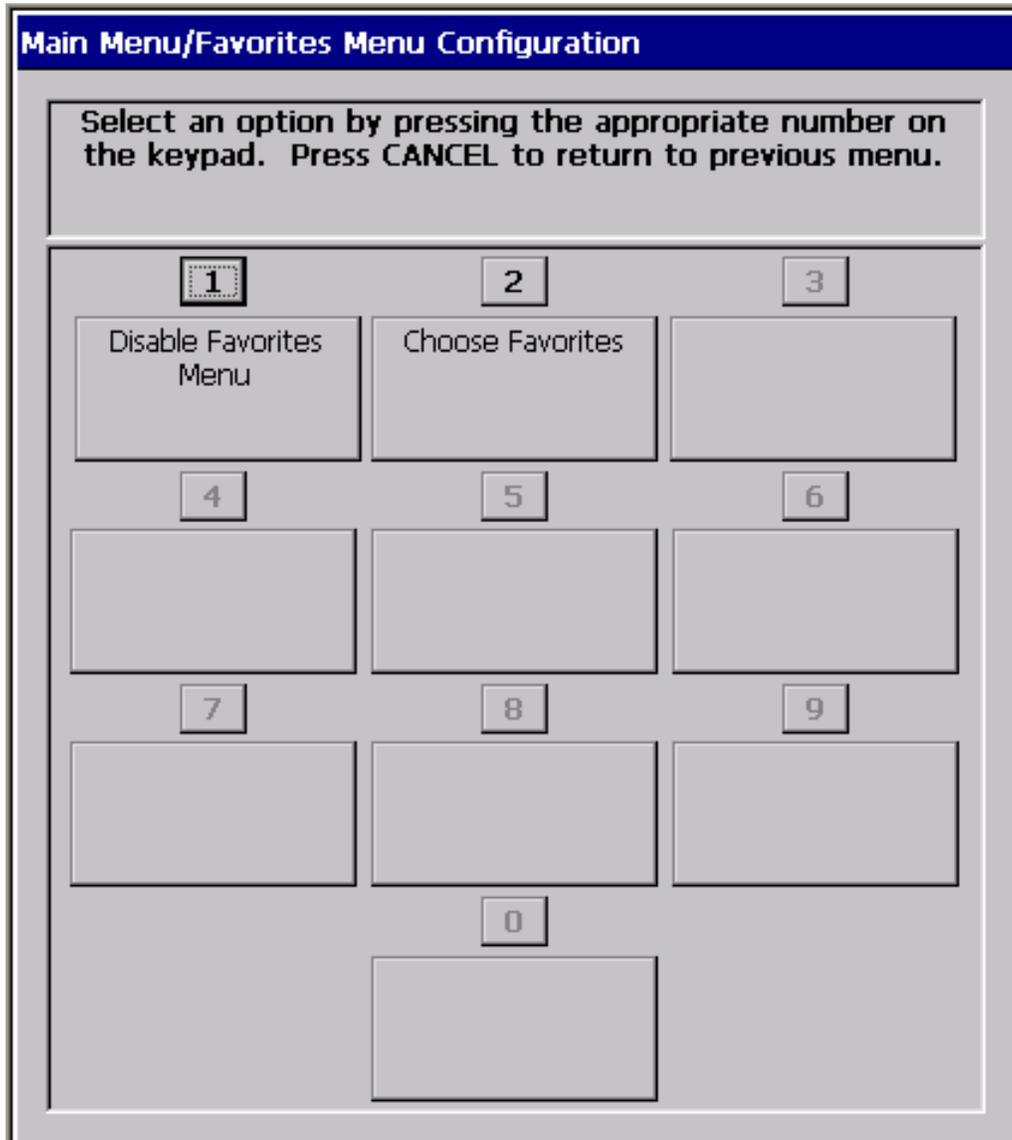


Favorites Menu Configuration Functions

Favorites Menu Options Overview.....	96
Programming the Favorites from the Favorites Main Page.....	97
Enable/Disable Favorites Menu.....	98
Choose Favorites.....	98
To Program a Function.....	99
To Change / Delete a Programmed Function.....	99

Access Instructions:

From the Main Menu screen, select the Favorites Menu Configuration option by pressing “0” on the keypad.



Descriptions:

If the management user disables the favorite menu, the user will be taken straight to the Main Menu upon login. If the management user enables the favorite menu, the user will be taken to the Favorite Menu and will have to press “0” on the keypad to navigate to the Main Menu. (By default, the Favorite Menu will be Enabled).

1. Enable/Disable Favorites Menu - Allows the user to enable or disable the Favorite Menu.

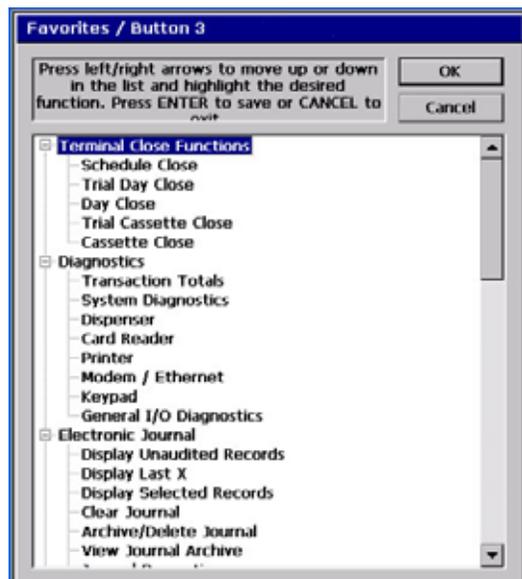
2. Choose Favorite - Allows the user to program a shortcut to a specific configuration.



The Favorites menu options can be changed from the Favorites Main page upon first entering the Management Functions. By default the Favorites Menu will be enabled and appear when first logging into Management Functions.

To program the Favorites options from the Favorites Main page:

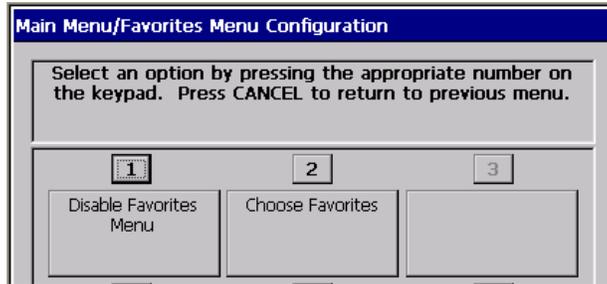
1. Log into Management Functions.
2. Choose a number that states “Put Favorite Choice Here”. (If a number has been programmed with “None”, it will appear blank on the Favorites page. If the number is blank, it has to be programmed from Main Menu/Favorites Menu Configuration).
3. Using the arrow keys, move up and down through the functions. When the desired function is highlighted, press Enter on the keypad to save the changes or press Cancel to exit.



1 - Enable/Disable Favorites Menu

Access Instructions:

From the Favorites Menu Configuration screen, select the Enable/Disable Favorites Menu option by pressing “1” on the keypad.



Description:

Pressing “1” will toggle between enabled and disabled. When the **Enable/Disable Favorites Menu** is enabled, the “2 - Choose Favorites” option will be accessible.

2 - Choose Favorites

Access Instructions:

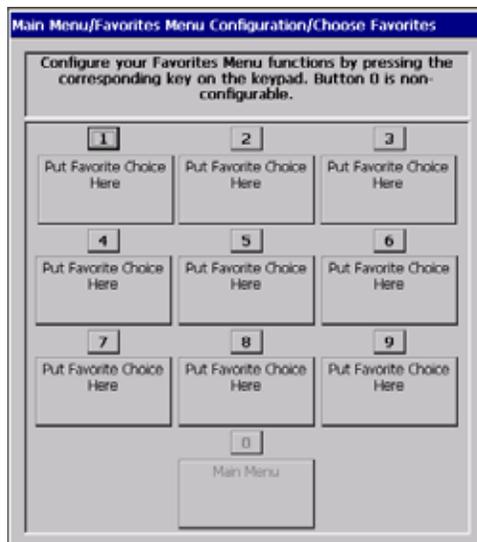
From the Favorites Menu Configuration screen, select the Choose Favorites option by pressing “2” on the keypad.

Description:

The **Choose Favorites** function allows the user to program a shortcut to a specific function. Programing the most commonly used functions will elimtate the navigating to the function everytime it is needed.

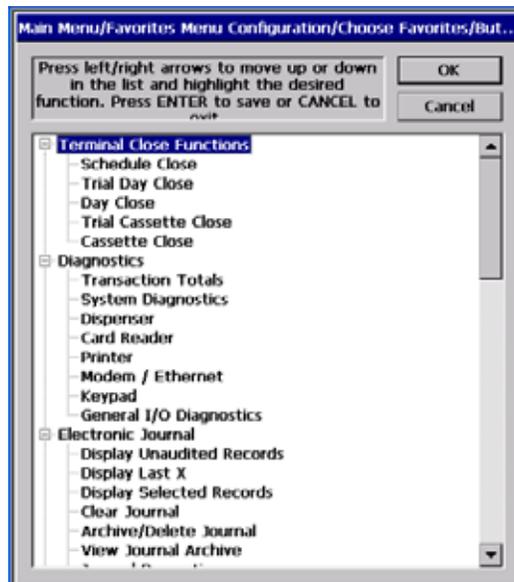
To Program a Function

1. With the Favorites Menu Enabled, choose “2 - Choose Favorites”.
2. Choose an available number to configure by pressing that number on the keypad.



To Program a Function cont...

- Using the arrow keys, move up and down through the functions. When the desired function is highlighted, press Enter on the keypad to save the changes or press Cancel to exit.



To Change/Delete a Programmed Function

- With the Favorites Menu Enabled, choose “2 - Choose Favorites”.
- Choose the configured number to either change or delete.
- Choose the new function or scroll to the end of the list and highlight “None”. When the desired function is highlighted, press Enter on the keypad to save the changes or press Cancel to exit.



APPENDIX A

SOFTWARE LICENSE AGREEMENT

AUTOMATED TELLER MACHINE (“ATM”) SOFTWARE END-USER AGREEMENT

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APPENDIX B

TERMINAL ERROR CODES

ERROR CODE	DESCRIPTION
0	No errors
32	Good operation
33	Feed failure
33	Note jammed between DDM and Exit sensor
34	Mis-tracked note at feed
35	Mis-tracked note at double detect
36	Mis-tracked note at exit
37	Too long at exit
38	Blocked exit
39	Too many notes
42	Transport error
44	Bad roller profile
45	Diverter error
46	Exit quantified
47	Note missing at double detect
48	Reject rate exceeded
49	Jam at exit
50	Interference recovery
51	Accountancy error
52	RAM error
53	EPROM error
54	Operation time-out
55	RAM corruption
56	LINK error
76	Communications error with EJ
95	Multiple cassette of the same type installed
96	Extension cable error
97	Extension exit trailing edge timeout
98	Extension exit timeout
99	Extension skew detected
100	Good operation
100	Trailing edge time-out at extension entrance
101	2 second timeout waiting for pick (feed failure)
102	Timeout at exit sensor
104	Unable to clear width sensor
105	Insufficient notes to learn from
106	FIFO error
107	Timeout waiting for FIFO
108	Unexpected note at double detect, width sensor did not detect note
109	Timeout at exit sensor

ERROR CODE	DESCRIPTION
110	Trailing edge timeout at exit
111	Diverter timeout
112	Timeout waiting for leading edge at reject
113	Timeout waiting for trailing edge at reject
114	Exit blocked during purge
115	Diverter timeout on purge
116	Motor fault
117	Timeout waiting for note to divert
118	Exit sensor blocked on start of dispense or learn
119	Diverter in dispense position on start of dispense or learn
121	Note cassette not present
122	Unexpected note at exit
123	Hardware error
124	Diverter moved to exit position during reject purge
125	Initial status check failed
126	Diverter moved to reject position during dispense
127	Jam in TDM extension
128	Error in reply from the dispenser mechanism
129	No response from the dispenser mechanism
130	Command not acknowledged by the dispenser mechanism
131	CTS (Clear To Send) line from the dispenser is not active
132	Status reports bad double detect in last dispense
133	+5 VDC not present on carrier detect
134	Exit blocked as reported by status check
135	Feed sensor blocked as reported by status check
136	Modem initialization failed
137	Print failure to journal
138	Printer failed while printing to the receipt printer
139	Printer controller not responding to commands
140	Timeout waiting for printer to be ready
141	Paper jam reported by the controller during status check
142	Dispenser returns bad command error
144	No reply from the electronic journal
145	Error in reply from the electronic journal
146	No reply from command to electronic journal
147	Error in reply from electronic journal
148	Write to electronic journal failed
149	Read from the electronic journal failed
150	Status command to journal failed
151	Electronic journal full
152	Electronic journal corrupt

ERROR CODE	DESCRIPTION
153	Electronic journal mode
154	Unknown electronic journal status
155	Electronic journal modify record failure
156	Cassette out of service
157	Erase command to electronic journal failed
158	Format command to electronic journal failed
159	Electronic journal test feature failed
160	Electronic journal set featured failed
161	Electronic journal clear feature failed
162	Electronic journal get serial number failed
163	Terminal did not answer. (Triton Connect error)
164	Terminal did not return call. (Triton Connect error)
165	Electronic journal not present
166	Bad dispense
167	Reported low cash to Triton Connect
168	Software download to terminal failed
182	Currency cassette low. Valid for SDD and GND mechanisms
183	Receipt printer paper is low
185	Telephone number not configured
186	Bill size not configured
187	Maximum withdrawal not configured
188	PIN working key not configured
189	Terminal ID not configured
190	PIN master key not configured
191	Feed failure
192	Communication error
194	An attempt to dispense is made, the cassettes are not locked
195	Receipt printer out of paper
196	Card reader error
203	SPED keypad is not replying to main board
205	SPED keypad reported tamper condition
206	SPED keypad could not perform a successful command within SPED_MAX_ATTEMPTS tries
207	SPED not detected
210	Dispenser type unknown
231	Card reader error (Smart Card)
233	Smart card reader not installed
234	SPED version number is not 3DES compatible
235	MAP stack overflow
236	Failed to make connection to TCP/IP host
237	TCP/IP device failed

ERROR CODE	DESCRIPTION
238	Power failure during dispense
239	SPED serial number change
240	SPED self-test error
241	SPED warning: Self-test error, low battery
242	Stuck key
243	Unable to display user defined surcharge screen
244	Min partial dispense enabled with no document count
245	Min partial dispense enabled with no usable bills
246	Master password must be changed from default
300	Successful command
301	Low level in cassette
302	Empty cassette
303	Lifts are down
304	Rejected notes
305	Diverter failure
306	Failure to feed
307	Transmission error
308	Illegal command or command sequence
309	Jam in note qualifier
310	Cassette not properly installed
311	Config record size invalid
312	No notes retracted
313	Cassette hopper map invalid
314	Dispenser offline – cannot resolve dispense count
315	Reject vault not properly installed
316	Delivery failure
317	Reject failure
318	Too many notes requested
319	Jam in note transport
320	Reject cassette almost full
321	Cassette data corrupted
322	Main motor failure
323	Dispenser offline – Dispense count check error
324	Reserved for warning status
325	Note qualifier faulty
326	Note feed sensor failure
327	Shutter failure
329	Notes in delivery throat
330	Communication timeout
332	Cassettes may have been changed
333	Reject vault full

ERROR CODE	DESCRIPTION
339	Error in throat
343	Sensor error or sensor covered
348	Dispenser internal error
349	Cassette lock faulty
350	Jam in note stacker
351	Module needs service
353	No message to resend
356	Error in note transport
357	Dispenser data size error
358	Dispenser device read error
359	Dispenser device record error
360	Dispenser invalid return ID
361	Dispenser sequence error
362	Dispenser device write error
363	Dispenser device not found
364	Dispenser device offline
365	Dispenser BBC error
366	Dispenser cassettes disabled
367	Dispenser communication error
368	Dispenser cannot dispense the request
369	Dispenser device reset
370	Dispenser – EOT error
371	Dispenser com error header – trailer
372	Dispenser item value error
373	Dispenser machine not opened
374	Dispenser rejected check
375	Dispenser invalid request
376	Dispenser multiple device error
377	Dispenser device error
378	Dispenser cassette low
379	Dispenser unknown error code
380	Dispenser setup incomplete
381	Dispenser cassette invalid
382	Dispenser cassettes disabled (ALL)
383	Dispenser cassettes low (ALL)
384	Dispenser cassettes empty (ALL)
385	Dispenser offline, no reject vault and no hoppers
386	Dispenser offline – no hoppers
387	Dispenser offline – error validating configuration
388	Dispenser offline – NMD require reject vault and at least one cassette

ERROR CODE	DESCRIPTION
389	Dispenser offline – detected offline error: check op state
390	Dispenser offline – storing configuration
391	Dispenser sensor failure 2
392	Error in last dispense
393	Error in double detect 2
394	Purge failed upon power-up
395	Multiple cassette of the same type
396	Dispenser offline – found no reject bin
500	SPED read error
501	SPED invalid return record
502	SPED read type error
503	SPED invalid command
504	SPED invalid return ID
505	SPED device busy
506	SPED invalid request
507	SPED sequence error
508	SPED LRC error
509	SPED no data
510	SPED invalid message ID
511	SPED data overflow
512	SPED device idle
513	SPED device offline
514	SPED device bit stuck
515	SPED device attention stuck
516	SPED device no attention
517	SPED device timeout
518	SPED command sequence error
519	SPED invalid command data
520	SPED device reset
521	SPED clear key
522	EJ error
523	EJ data size error
524	EJ bad command
525	EJ invalid ID
526	EJ device busy
527	EJ invalid request
528	EJ sequence error
529	EJ device offline
530	EJ EXT error
531	EJ SOH error
532	EJ STX error

ERROR CODE	DESCRIPTION
533	EJ BCC error
534	EJ device reset
535	Card reader – data size error
536	Card reader – device read error
537	Card reader – invalid record
538	Card reader – reader type error
539	Card reader – invalid track
540	Card reader – invalid message
541	Card reader – com error
542	Card reader – device busy
543	Card reader – sequence error
544	Card reader – invalid request
545	Card reader – LRC error
546	Card reader – no data
547	Card reader – start sentinel not found
548	Card reader – end sentinel not found
549	Card reader – parity error
550	Card reader – card not removed
551	Card reader – card removed to slow
552	Card reader – device received invalid request
553	Card reader – device offline
554	Card reader – device reset
555	Card reader – system timeout
556	System timeout
557	System device reset
558	System sync error
559	System error
560	Unknown device error
561	Software error
562	SPED error
563	Low memory
564	Unable to access external memory device
565	Cabinet door open
566	Vault door open
567	Security module not found
568	Security module com failed
569	Security module attached dev com failed
570	Security module dev port setup
571	Invalid default transaction
572	SPED key from pad CMD aborted by user
573	SPED keys from pad CMD verify failed

ERROR CODE	DESCRIPTION
574	SNA comms error
575	Timeout waiting to send command to dispenser
576	Timeout waiting to receive response from dispenser
577	Card reader disabled
578	Card reader present timeout
579	SPED – enable keypad command failed
580	SPED – disable keypad command failed
581	SPED – enable key from pad module failed
582	SPED – disable key from pad module failed
583	SPED – enable PIN entry mode failed
584	SPED – disable PIN entry mode failed
585	SPED – enable JETCO PIN entry mode failed
586	SPED – disable JETCO PIN entry mode failed
587	NMD 50 required cassette in TOP hopper
588	ERR presenter offline
589	ERR presenter motor stalled
590	ERR presenter exit jam
591	ERR presenter paper not detected
592	ERR SPED device reported failed
593	ERR SPED in use
594	ERR SPED device reported comm error
595	ERR SPED return invalid amount of data
596	ERR SPED invalid SPED type
597	ERR SPED invalid SPED comms protocol
598	ERR SPED invalid device class
599	ERR SPED reported unrecognized command
600	ERR SPED reported block does not exist
601	ERR SPED reported invalid encrypt mode
602	ERR SPED reported unsupported clear option
603	ERR SPED reported tamper present
604	ERR SPED invalid key index
605	ERR SPED reported parent key not loaded
606	ERR SPED reported wrong data length
607	ERR SPED reported PIN retry too soon
608	ERR SPED self-test CRC failed
609	ERR SPED self-test cryptographic error
610	ERR SPED self-test battery low status
611	ERR SPED self-test serial number error
612	ERR SPED tamper status cold
613	ERR SPED tamper status front
614	ERR SPED tamper status back

ERROR CODE	DESCRIPTION
615	ERR SPED tamper status grid
616	ERR SPED tamper status voltage
617	ERR SPED serial number changes
618	SPED serial number change
619	NMD 100 shutter failed after reset
620	NMD 100 shutter OK after reset

MODEM COMMUNICATION STATUS CODES

STATUS CODE	DESCRIPTION
1	Time-out
3	BCD NO-ANSWER
4	ERROR IN MODEM DATA
5	Connect 1200 Baud then lost carrier or connection. Host hung up.
6	BGD NO DIAL TONE
7	BGD - Busy
10	BGD - Logon
11	No connect
13	BGD DONE GOOD
14	BGD DONE BAD
15	Timeout waiting for End of Transmission EOT
16	Communication problem
17	NO EOT
18	OVERFLOW
48	NO ANSWER
65	Processor not communicating with the modem correctly
100	Time-Out - Request has been sent, time-out waiting for response
101	No-Connect
103	No-Answer
105	No EOT
107	User Cancelled Transaction
108	No response
109	No ENQ
110	Invalid response
112	Invalid LRC
113	Response format error