



ROUTE ACCOUNTING

Software Application



Apex III



Apex IV

Quick Start Manual

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Introduction

The Route Accounting application was created and compiled using the Compsee Apex III & IV Program Generator. This software has been designed to allow the user to easily change data prompt names and disable unused data prompts from the Apex III & IV PDT.

Overview and Purpose

The Route Accounting software package is designed to collect transaction information based on customers and items. An example application for this package is to track orders and deliveries of items per customer.

Main Menu Screen

The Route Accounting Main Menu is the first screen to appear on the PDT when the user starts the application software. This menu contains three options, Collect Data, Edit Data and display Utilities Menu. Menu options are executed by pressing the corresponding function key located beside the menu text. The operator can press the F10 function key on the PDT to quit the current application software and return the DOS prompt or calling Program.

| |
|---|
| <p>Route Accounting</p> <p>F1-Collect Data F2-Edit Data F3-Utilities Menu</p> <p>Press F10 to Exit the Program</p> |
|---|

Figure 1.0 The Main Menu Screen

Collect Data Screens

The Collect Data Screen is displayed once the operator has selected the F1 function key from the Main Menu Screen. The following data prompts are displayed for input.

- **Customer:** The customer data prompt is an alphanumeric field with a maximum of 30 characters. Data entry can be keyed or scanned. Valid barcode symbologies are Code 128 and 3 of 9. This data is a required field and cannot be disabled by the field options.
- **Transaction Code:** The transaction code data prompt is an alphanumeric field with a maximum of 1 character. Data entry can be keyed or scanned. Valid barcode symbologies are Code 128 and 3 of 9. This data is not a required field and can be disabled from the Modify Field Options screen.
- **Item Number:** The item number data prompt is an alphanumeric field with a maximum of 30 characters. Data entry can be keyed or scanned. Valid barcode symbologies are Code 128 and 3 of 9. This data is a required field and cannot be disabled by the field options.
- **Count:** The count data prompt is a numeric field with a maximum of 6 characters. Data entry is keyed from the PDT. This data is not a required field and can be disabled from the Modify Field Options screen.

Data is collected in the order of customer, transaction, item number and count. Note, transaction code and count are not required fields and may not appear if disabled from the Field Options screen.

Each time the Collect Data Menu option is selected from the Main Menu Screen, the user is prompted to enter all data in the collection order.

Pressing the F10 function key will close this screen and redisplay the Main Menu Screen.

Once the customer number data prompt is entered, then the transaction code entry prompt is displayed. The customer number is echoed above the transaction code data prompt.

Route Accounting Collect Data

100

Transaction Code

1

Up Arrow – Edit Previous Field
Press F10 to Return to Menu

Figure 1.2 The Collect Transaction Code Screen

Route Accounting Collect Data

Customer

100

Press F10 to Return to Menu

Figure 1.1 The Collect Customer Screen

After the operator has entered the customer and transaction code, then the item number data prompt is displayed for input. The customer number and transaction code are echoed above the item number data prompt.

The count data prompt is the last piece of data in a record set. The customer number and item number are displayed above the count data prompt.

| |
|---------------------------------------|
| Route Accounting Collect Data |
| 100 |
| 101ABC |
| Count |
| <u>205</u> |
| Up Arrow – Edit Previous Field |
| Press F10 to Return to Menu |

Figure 1.4 The Collect Count Screen

Once all data is complete, a record is added to the “**RTEACT.DAT**” file. The user is then returned to the item number prompt and retains the customer and transaction code from the previous entry. The user can change the previous information by pressing the up arrow key to move to the desired data prompt.

| |
|---------------------------------------|
| Route Accounting Collect Data |
| 100 |
| 1 |
| Item Number |
| <u>101ABC</u> |
| Up Arrow – Edit Previous Field |
| Press F10 to Return to Menu |

Figure 1.3 The Collect Item Number Screen

Edit Data Screens

The Edit Data Screen is displayed once the operator has selected the F2 function key from the Main Menu Screen. The following data prompts are displayed for input.

- **Customer:** The customer data prompt is an alphanumeric field with a maximum of 30 characters. Data entry can be keyed or scanned. Once the user has entered a customer number, the collection file is processed to verify and validate the customer number. If the customer has no data entries in the collection file, the operator is notified and returned to the customer data prompt.
- **Item Number:** The item number data prompt is an alphanumeric field with a maximum of 30 characters. Data entry can be keyed or scanned. Once an item number entry is complete, the data file is processed to locate the customer and item number. The user is notified if the item entry is invalid and is then returned to the item number data prompt.
- **Transaction Code:** The transaction code data prompt is an alphanumeric field with a maximum of 1 character. Data entry can be keyed or scanned. This data is retrieved from the file and displayed for editing.
- **Count:** The count data prompt is a numeric field with a maximum of 6 characters. Data entry is keyed from the PDT. This current count data is retrieved from the data file and displayed for editing.

Pressing the F10 function key will close this screen and redisplay the Main Menu Screen.

Once the customer number and item number data is entered, then the transaction code entry is displayed for editing. The customer number and item number is echoed above the transaction code data prompt.

| Route Accounting Edit Data | |
|-----------------------------|---------------|
| Customer | <u>100</u> |
| Item Number | <u>101ABC</u> |
| Press F10 to Return to Menu | |

Figure 2.1 The Edit Customer and Item Number Screen

The count data prompt is then displayed with the current count. Again, the customer number and item number is echoed above the data prompt.

| Route Accounting Edit Data | |
|-----------------------------|----------|
| 100 | 101ABC |
| Transaction Code | <u>1</u> |
| Press F10 to Return to Menu | |

Figure 2.2 The Edit Transaction Code Screen

Once the current data record editing is complete, the program returns the user to the customer number data prompt.

| |
|--|
| <p>Route Accounting Edit Data</p> <p>100 101ABC</p> <p>Count <u>205</u></p> <p>Press F10 to Return to Menu</p> |
|--|

Figure 2.3 The Edit Count Screen

Utilities Menu

The Route Account Utilities Menu is displayed once the user selects the F3 function key from the Main Menu. The following submenu options are available:

- **Modify Field Options:** Provides access to data prompt names and allows user to disable unused data entry prompts.
- **IR Communications Menu:** Infrared file communications options.
- **RS232 Communications Menu:** Serial file communications options.
- **Erase Data File:** Provides capability to erase the Route Accounting data collection file.

Pressing the F10 function key will close this screen and redisplay the Main Menu.

| |
|---|
| <p>Route Accounting Utilities</p> <p>F1-Modify Field Options F2-IR Communications F3-RS232 Communications F4-Erase Data File</p> <p>Press F10 to Return to Menu</p> |
|---|

Figure 3.0 The Utilities Menu Screen

Modify Field Options

The Modify Field Options Menu displays the available data entry prompts and their defined prompt names displayed on the data collection screens. All data prompt text is user defined and can be changed by simply selecting the data prompt menu number. The Define Field Settings Screen is then displayed with the selected information.

Pressing the F10 function key will close this screen and redisplay the Main Menu.

Note: The Route Accounting collection file must not contain data and should be erased before field configuration information can be modified. The following message is displayed if existing data is present in the collection file.

Data exists in the Route Accounting file. Delete the data file before changing the configuration file.

Press Any Key

Figure 3.1.1 The Erase Data File Warning Message

Select a Field to Configure

1-Customer
2-Transaction Code
3-Item Number
4-Count

Enter an Option:

F10 to Return to Main Menu

Figure 3.1 The Modify Fields Menu Screen

Define Field Settings

The Define Field Settings Screen is displayed with the selected data prompt information.

- **Enter a Field Name:** Type the text to be displayed on the data collection screen. Data prompt names are alphanumeric and are up to 30 characters long.
- **Active Field:** The active field option allows the user to disable unneeded data prompts. When the active field option is set to “N” or NO, the program does not display the data prompt and no data is collected from the PDT operator. Note: Required application fields cannot be deactivated. Refer to the “Data Collection Fields” chart for more information.
- **Update Field Information:** Selecting “Y” or Yes saves the defined data prompt information. The new data prompt name is reflected in the Modify Field Options Menu and in the data collection screens.

Pressing the F10 function key will close this screen and redisplay the Modify Field Options Menu.

| Define Field Settings | |
|-------------------------------------|------------------------------------|
| Enter a Field Name: | Count |
| Active Field (Y/N): | <u>Y</u> |
| Update | Field Information: <u>Y</u> |
| F10 to Return to Config Menu | |

Figure 3.1.2 The Define Field Setting Screen

IR Communications Menu

The IR Communications Menu displays the available data file transfer options. The user can upload and download the data collection file (**RTEACT.DAT**) and field configuration files by selecting the appropriate submenu option.

- **Send Data File to the PC:** This option alerts the PDT operator to prepare the PC for IR Communications and then begins transferring the Route Accounting data collection file to the PC. Once the transfer is complete, the user is prompted to erase the data collection file from the PDT.
- **Send Configuration File to the PC:** This option alerts the PDT operator to prepare the PC for IR Communications and then begins transferring the field configuration file to the PC.
- **Get Data File from PC:** This option alerts the PDT operator to prepare the PC for IR Communications and then begins receiving information from the PC.
- **Get Configuration File from the PC:** This option alerts the PDT operator to prepare the PC for IR Communications and then begins receiving information from the PC.

| IR Communications Menu | |
|------------------------------------|----------------------|
| 1-Send Data File to PC | |
| 2-Send Config File to PC | |
| 3-Get Data File from PC | |
| 4-Get Config File from PC | |
| Enter an Option: | <input type="text"/> |
| Press F10 to Return to Menu | |

Figure 3.2 The IR Communications Screen

Pressing the F10 function key will close this screen and redisplay the Main Menu.

RS232 Communications Menu

The RS232 Communications Menu displays the available data file transfer options. The user can upload and download the data collection file (**RTEACT.DAT**) and field configuration files via serial communications, by selecting the appropriate submenu option.

- **Send Data File to the PC:** This option alerts the PDT operator to prepare the PC for RS232 Communications and then begins transferring the Route Accounting data collection file to the PC. Once the transfer is complete, the user is prompted to erase the data collection file from the PDT.
- **Send Configuration File to the PC:** This option alerts the PDT operator to prepare the PC for RS232 Communications and then begins transferring the field configuration file to the PC.
- **Get Data File from PC:** This option alerts the PDT operator to prepare the PC for RS232 Communications and then begins receiving information from the PC.
- **Get Configuration File from the PC:** This option alerts the PDT operator to prepare the PC for RS232 Communications and then begins receiving information from the PC.

Pressing the F10 function key will close this screen and redisplay the Main Menu.

RS232 Communications Menu

1-Send Data File to PC
2-Send Config File to PC
3-Get Data File from PC
4-Get Config File from PC

Enter an Option:

Press F10 to Return to Menu

Figure 3.3 The RS232 Communications Menu Screen

Route Accounting Erase Data

The Erase Data File Screen is displayed once the user selects the F4 function key from the Utilities Menu. The operator is prompted for deletion verification and the data collection file is erased once the user selects “Y” or Yes. Selecting an “N” or No cancels the data file deletion operation and the Main Menu is displayed.

Pressing the F10 function key will close this screen and redisplay the Main Menu.

Route Accounting Utilities Erase Data File

This option erases the Route Accounting file from the PDT. Are you sure you want to erase the data file? (Y/N) N

F10 to Return to Main Menu

Figure 3.4 The Erase Data Screen

Data Collection Fields

The following chart depicts the available data prompts used by the Route Accounting application software.

- Data Prompt Name is the user-defined text displayed during data entry.
- Application Required Fields are always required for valid data entry and cannot be disabled or turned off by the operator.
- Data Prompt Characters defines the maximum number of characters displayed for a data prompts title. The Field Size is the total number of characters allowed for a prompts data entry.
- The Data Type defines valid input for data entry. A/N is alphanumeric and N is numeric only.

File Name = **RTEACT.DAT**

| <i>Data Prompt Name</i> | <i>Application Required Field</i> | <i>Data Prompt Max Characters</i> | <i>Field Size</i> | <i>Type</i> |
|------------------------------------|--|--|------------------------------|--------------------|
| Customer | YES | 1-30 | 1-30 | A/N |
| Transaction Code | NO | 1-30 | 0-1 | A/N |
| Item Number | YES | 1-30 | 1-30 | A/N |
| Count | NO | 1-30 | 0-6 | N |
| Date/Time | YES | System Controlled | | |