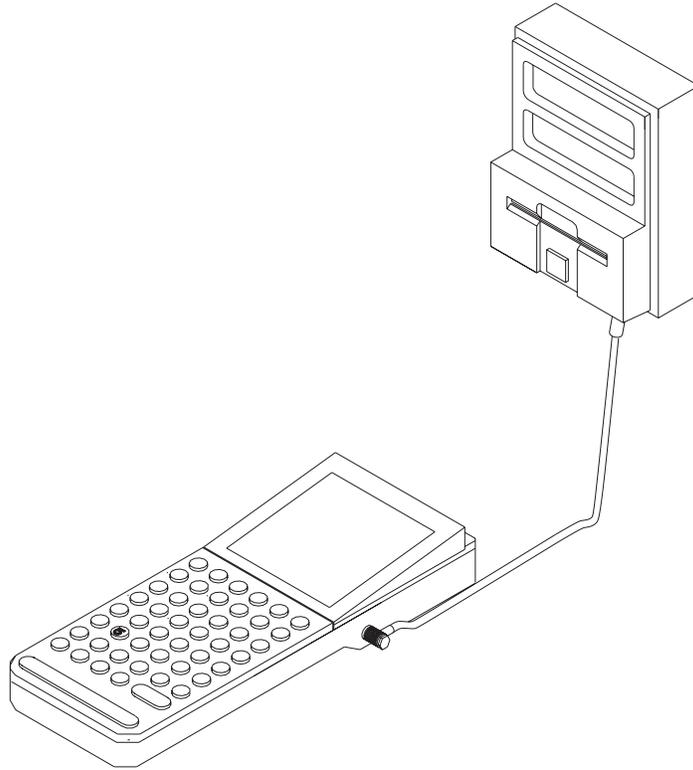


# HHDT USER'S GUIDE



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# 1 Introduction to the HHDT Terminal/Software

The HHDT Terminal is a tool which simplifies the processes of collecting and configuring Schlumberger Vending Control Units. The HHDT is a DAP Technologies MICROFLEX PC9500 temporarily connected directly to equipment during walkups collections. It has a menu-driven program designed to be easy to use and secure (via password protection). The HHDT must be used in conjunction with Schlumberger's RECAP Software and a PC to provide data processing or data export.

The HHDT terminal includes:

- DAP Technologies MICROFLEX PC9500
- 4 MByte ATA Flash memory card
- Charge/Communications cradle
- Collector cable

The following options are available

- In-vehicle charger unit
- Carrying case
- Spare batteries
- PC communications cable

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## About This Manual

This manual describes how to operate HHDT. If you are not already familiar with the functions, features, and operation of the VCU, read the introductory chapters of the *Vending Reference Manual* before proceeding with these instructions.

This manual contains the following information:

- Introduction to HHDT
- What This Manual Covers
- Operating HHDT
- Configuring, Planning, and Maintaining HHDT Software
- Collecting and Downloading Data

## **In Case of a Problem . . .**

Although the HHDT and this manual have been designed to be easy to use, you may have difficulties getting started. If this occurs:

- 1 Refer to the chapter in this manual covering the subject matter on the procedure you are trying to perform.
- 2 If you still can not resolve your problem, call Schlumberger at 1-800-221-4291 for technical assistance.

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## Keyboard Conventions

All required keyboard entries for the HHDT are indicated by a graphic representation of the key. For example, to activate the HHDT, press the **B** key.

When a desktop PC is used to interface with the HHDT terminal/software, the following procedures are used (on the PC) to navigate within RECAP choose menu items, and start operations:

- Select a menu item by highlighting it and pressing **Enter** or by pressing the item's "hot-letter" (indicated by reverse video)
- Use the **Tab**, **←**, **→**, **↑**, and **↓** keys to move around within each screen
- Press **F10** or **Enter** to save configurations and generate reports.

For further information on keyboard use, see the *RECAP Software User's Guide*.

## **Installing, Updating, and Configuring the Software**

HHDT Software is pre-installed on the HHDT Terminal.

## Operating HHDT

**Starting the HHDT** Follow these instructions to start HHDT:

- 1 Press the **ⓑ** key on the HHDT Terminal to start HHDT.

**NOTE:** If the terminal has been off for 5 minutes or more, the normal operation will include a 30 second delay before the unit is fully functional. During this time the ATA FLASH Card operation is certified.

### About the HHDT Main Menu Selections

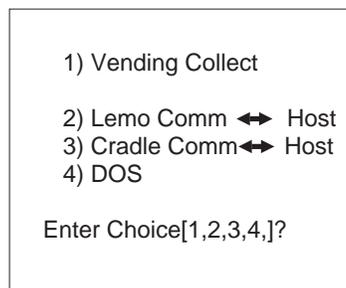
Four items are available from the HHDT Main Menu (Figure 1-1).

Selection 1 places the HHDT Terminal in the normal collection mode.

Selection 2 allows HHDT communications to a PC via the optional communications cable in the event the Charger/Communications Cradle is not being used.

Selection 3 allows HHDT communications to a PC via the Charger/Communications Cradle.

Selection 4 is available in the case troubleshooting is required.



**Figure 1-1**

## 2                    **Configuring the HHDT**

The HHDT software is pre-installed on the handheld computer and requires no configuration. RECAP configuration is covered in chapter 4. See your *RECAP Software User's Guide* to set up RECAP to accept inputs from the HHDT.



### **3 Planning the Standard Setup Parameters**

HHDT software lets you download configuration information to VCUs. This data is configured at the PC. See your *RECAP Software User's Guide* for procedures.



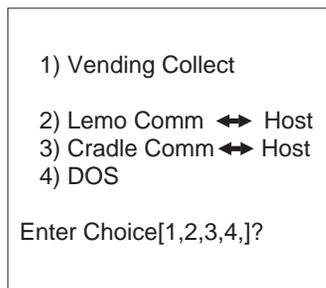
# 4

## Collecting Data & Downloading Information

The transfer of information between HHDT and RECAP is controlled from the RECAP Collect menu (Figure 4-1) and the HHDT Main Menu Figure 4-2). The accumulated record of activity at each unit is transferred to the main database and VCU configuration may be loaded into the HHDT Terminal.



**Figure 4-1**  
The RECAP Collect Menu HHDT Connections



**Figure 4-2**

## Vending HHDT Connection Setup

To set up the HHDT Terminal for collection and VCU configuration and to transfer data between the HHDT Terminal and your PC, you must first set up HHDT connection parameters. You specify these collection parameters from the *HHDT Connection* menu.

Follow these instructions to collect HHDT data:

- 1 Press the **FCT** and **Esc** on the HHDT Terminal keyboard to exit the Vending Collect mode and return to the Main Menu
- 2 Connect the HHDT Terminal to the Reader Port selected in RECAP System Setup using the direct communications cable or the Communications Cradle.
- 3 On the HHDT Terminal keyboard Press **2** to select the direct communications cable or **3** to select the cradle.
- 4 From RECAP's Collect Menu, highlight *Vending HHDT Connection* and press **Enter**. The Vending HHDT Connection Setup screen appears



**Figure 4-3**

Vending HHDT Connection setup screen

(Figure 4-2).

- 5 Choose an option. (NOTE: The PC port, baud rate, and parity appear on the screen as a reminder of the settings. They are not selectable options.) There are three options to choose from:

```

SECURITY
COLLECTION MODE
INCLUDE TRANSACTIONS
    
```

The cursor defaults to the SECURITY field.

- 6 **SECURITY ID**—allows connection only to VCU's with a Security ID matching the Security ID in the HHDT. Enter the same Security ID that was entered in the RECAP Collect Group. Then use the , or  key, or press  to move to the Collection Mode field.
- 7 **COLLECTION MODE**—has two options:
  - ( ) Complete Upload/Clear
  - ( ) Complete Upload/Clear/Download

Complete Upload/Clear configures the HHDT Terminal to collect and clear the resettable totals of each VCU. Complete Upload/Clear/Download configures the HHDT Terminal to collect and clear the resettable totals of each VCU and load new parameters into each VCU.

Use the , or  key to highlight your choice, then press  or  to select and move to the Include Transactions field.

- 8 **INCLUDE TRANSACTIONS**—allows the choice of collecting transaction data. Highlight *INCLUDE TRANSACTIONS* and press  or  to select.

**COMMUNICATIONS PORT, BAUD RATE, and PARITY**—are preset and can not be changed.

**Connecting/Exiting**

- 9 On the PC, press  to collect data and configure the HHDT Terminal

Note: Press  to return to the Collect menu without transferring any data or saving any changes

- 10 After pressing , the XCLIENT COMMUNICATIONS screen (figure 4-4, on next page) appears on your PC. Three items are listed.
  - The first is a reminder to connect the HHDT to your PC. Two connection options are available. you may use the HHDT Comm Port to PC Serial Port cable or the Charging Cradle to PC Serial Port cable. (See the HHDT manual for instructions.) Connect to the serial port selected on the previous screen.

- The second item is advises you that you may now start the transfer process.
  - The third item provides the essential instructions to start the data transfer. Press **Esc** on the PC to cancel the data transfer. Press any other key on the PC to start the transfer.
- 11 When the data transfer is complete:
- Press **①** on the HHDT to return the HHDT to the Vending Collect mode
- 12 Disconnect the cable between the HHDT and the PC.

**XCLIENT COMMUNICATIONS**

1. CONNECT HHDT DEVICE TO THE PC  
—
2. START THE TRANSFER ON THE HHDT  
—
3. PRESS ESCAPE TO CANCEL  
— OR ANY OTHER KEY TO START

**Figure 4-4**

Data Collection Setup Screen





# Instructions for the HHDT

Copy this instruction sheet to provide a description of the steps to be followed to use the HHDT.

- 1 Connect the collection cable to the HHDT collection unit.
- 2 Connect the collection cable to the VCU
- 3 Press the (B) button on the HHDT to "wake up" the collection unit. (The unit goes into a power saving mode after 45 seconds of inactivity.) There will be a 30 second delay after pressing (B) if the unit has been off more than 5 minutes.
- 4 Press the (5) to collect data.
- 5 When the HHDT display indicates that collection is complete, disconnect the cable from the VCU and proceed to the remaining machines.

