



**BancTec Limited**  
**RFeasyServ**  
**Cipher Client Users Manual**  
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# OVERVIEW

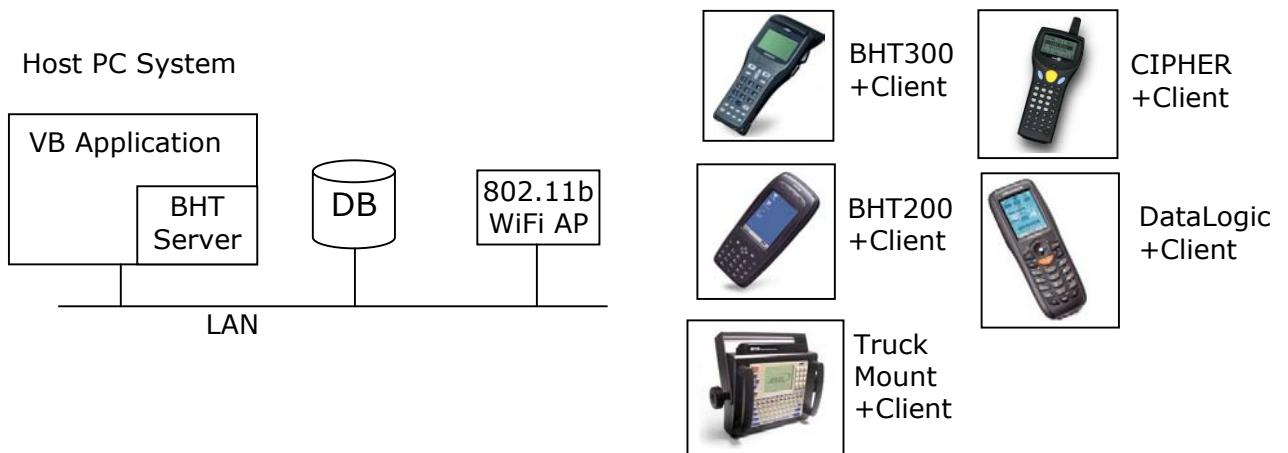
The RFeasyServ control (**RFeasyServ.ocx**) from BancTec is a 32-bit Windows ActiveX component that manages the user screens and data flow between a mobile terminal and a host application via a standard 802.11b WiFi network.

The control has been designed to assist developers in creating powerful RF client-server applications quickly and easily without having to get bogged down in the RF communications. The control provides a simple set of methods and events for the developer to control everything on the HHT and get notification of an input. These include screen outputs, barcode & keyed input fields, RS232 I/O to peripherals, LED and buzzer control, form/frame management and flow control etc.

The control on the Server coupled with the Client on the mobile terminal takes care of all the low-level communications, packet compilation, flow control etc allowing the developer to concentrate on the application functionality.

The Client will be available on a range of products from different manufacturers all connecting to the same RFeasyServ control and thus same Host Application. These will include the **DENSO** BHT300, BHT200, BHT400, **CIPHER** 8370 **DATALOGIC** Memor, Skorpio, Jet units plus a number of other CE.Net & XP devices including truck mount units, PDAs etc.

As all Client to Server links are the same it is possible to mix the mobile clients to suit your needs. e.g. handheld terminals for picking and goods in, Truck Mount units for bulk transfers and despatch etc..



The RFeasyServ control can be used in any application that supports ActiveX controls, Visual Studio, Visual Basic, Visual C++, Excel, Access, FoxPro, Delphi.

This Manual describes the set-up of the Client on the Cipher 8370 handheld terminal. For other references please refer to the RFeasyServ programmers manual and the sample source code.

# Client Settings

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## RF Settings

Before connection the handheld terminal (HHT) to the host you must first ensure that it can access the RF Network. These settings cannot be accessed from within the client application and must be set within the CIPHER 8370 System Menu.

With the HHT off press and hold the "7" & "9" keys then press power. This will display the SYSTEM MENU, now press "7" to show the next page

The RF settings are accessed via option 3. 802.11b Menu. Note. Use the keypad, Alpha and blue (Enter) keys are set the values, the ESC key navigates back to the previous menu.

1. Information – get the MAC number for entering on AP
2. Network
  1. DHCP – Normally off
  2. Subnet Mask – as per network
  3. Local IP – as per network
  4. Gateway – as per network
  5. DNS Server – as per network
  6. Domain Name – leave default
3. WLAN Setting
  1. Local Name – leave default
  2. SS ID – as per network
  3. System Scale – depends on network (normally medium)
  4. Power Saving – on
  5. Preamble - depends on network (normally both)
  6. Ad-Hoc - Off
4. Security
  1. Authentication – as per network
  2. WEP Menu
    1. WEP Setting – as per network
    2. WEPKey Length – as per network
    3. Default Key – as per network
    4. WEP Key – as per network
  3. EAP Menu
    1. EAP Setting – as per network
    2. EAP ID – as per network
    3. EAP Password – as per network
5. Echo Tests – uses a Cipher host program to perform ping type tests

For further information please refer to the CIPHER 8370 Users Manual.

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## Unit Settings

Once the HHT has the correct RF Settings all the other settings can be made within the client program. To access these power the unit on and at the BHT-300 Client screen press FN and dot. This will display the Program Set-up Menu

```
PROGRAM SETUP
1. UNIT SETTINGS
2. HOST SETTINGS
3. SCREEN SETTINGS
4. OTHER SETTINGS
5. RF LINK STATUS
6. LOG FILE

BHT-CLIENT Ver S1.03
```

Note, the system uses TCP/IP to transfer data between the Host computer and the handheld terminal (HHT) and as such needs fixed IP Addresses, which you may need to get the details from the Network Administrator.

The Client has the ability to store the details of up to three host systems, so that if a particular Host has a problem then the HHT will automatically switch to the next one.

### Unit Settings:

Enter the IP Address, Subnet Mask and Gateway for the HHT. Enter the option required then key the new setting. The C key returns you to the main menu.

```
UNIT SETTINGS
1. MY IP
  198.162.13.40
2. S/NET
  255.225.255.0
2. G/WAY
  198.162.13.1
```

### Host Settings:

Enter the IP Address and Port details for the 3 Host Servers. By Default the unit will attempt to connect to the first one but if there is a problem it will automatically switch to the next one.

Enter the option required then key the new setting, e.g. option 3 for Server 2 IP. The C key returns you to the main menu.

```
SERVER 1 SETTINGS
1: 198.162.13.50
2: PORT 81
SERVER 2
3: 198.162.13.51
4: PORT 81
SERVER 3
5: 198.162.13.52
6: PORT 81
```

### Screen Settings:

Backlight. Select if you want the backlight ON or OFF and how many seconds it will stay on after each action (key press, scan etc)

Prompt. Select the type of prompt required for the entry fields either underscore, dashes, dots and spaces.

Enter the option required then key the new setting, the C key returns you to the main menu.

Key Beep. Select if you want a BEEP when a key is pressed during keyed entry.

```
BACK LIGHT
  1:ON  2:OFF
ON (0-255) 3:5

PROMPT TYPE
  4:_____ 5:-----
  6:..... 7:
KEP BEEP
  8:ON  :OFF
```

### Other Settings:

Resume. OFF is the default and recommended so that the user is always starting from a known position.

RF Timeout. Number of seconds the HHT waits for a response before timing out.

RF Retries. Number of timeouts before the HHT fails the transfer.

Enter the option required then key the new setting, the C key returns you to the main menu.

```
RESUME
  1:ON  2:OFF

RF TIMEOUT 3: 3
RF RETRIES 4: 2
POWER OFF 5: 3 MIN
```

### RF Link Status:

This screen displays the status of the RF connection to the Access Point.

ASSOC TO: Shows what it is has connected to. Displays the access point address, the SPEED and CHannel number.

SIGNAL STRENGTH, RXD BEACONS & LINK QUALITY shows the quality of the link.

```
RF LINK STATUS
ASSOC TO 0007404D654
SPEED 11 Mbps CH 11
SIGNAL STRENGTH 100%
RXD BEACONS 100%
LINK QUALITY (0-4) 4

PRESS ANY KEY TO EXIT
```

### LOG FILE:

These options are used to record the RF and transfer status and should ONLY be in the event of problems and under the instruction of BancTec or an Authorised agent.