



PSC DOS Client User Guide

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Introduction

The Wavelink Client user documentation is a complete guide to the functions and components of the Wavelink Client and presents:

- An introduction to the Wavelink Client environment and conceptual information about the Wavelink client/server structure
- Detailed installation instructions
- Information on how to configure the client for your network

This introduction describes this document's assumptions and conventions, provides an overview of the Wavelink Client, and offers a list of additional reference materials.

About This Document

This user documentation provides assistance to anyone integrating the Wavelink Client into a Wavelink-enabled wireless network.

Document Assumptions

This document makes the following assumptions:

- You have a general understanding of their wireless network layout.
- You have read and understood the instructions provided with their mobile devices.

Document Conventions

This document uses the following typographical conventions:

Courier New

Any time you interact with an option, such as a button, or type specific information into a field, such as a file path, that option appears in the *Courier New* text style. This text style is also used for any keyboard commands that you might need to press.

Examples:

Click *Next* to continue.

Press *CTRL+ALT+DELETE*.

Bold

Any time this document refers to an option, such as descriptions of elements in a dialog box, that option appears in the **Bold** text style.

Examples:

Click *Open* from the **File** menu.

The **Auto-Add** button automatically adds IP addresses to the IP address pool.

Italics

Any time this document refers to a section, that section appears in the *Italic* text style.

Example:

See *Configuration* on page 21 for more information.

About Wavelink Studio Clients

Wavelink Studio Clients are part of the Wavelink thin-client/server model. In this model, major application functions are carried out on the system hosting the Wavelink Server. Wavelink Studio Clients are responsible for communicating with the appropriate Wavelink Server and displaying relevant application information to the mobile device.

A few of the benefits that Wavelink Studio Clients offer are:

**Event-driven
Architecture**

Wavelink Studio Clients' unique event-driven architecture minimizes wireless traffic by sending data packets only when prompted by user actions. This architecture ensures that communication between a device and a server is as efficient as possible.

**Control Over Device
Features**

Wavelink Studio Clients integrate with the unique hardware requirements of mobile devices. Consequently, when you install the client, you retain full control over the device's functionality.

Client-side Menus

With Wavelink Studio Clients, you can save commonly-used files and menus, such as barcode configuration files, directly to the device.

Additional Information

For additional information concerning Wavelink Studio Clients, see the following documentation:

- [Wavelink Studio Server Documentation](#)
- [Wavelink Studio API Library Documentation](#)

Installation

This section covers the hardware and software requirements of the Wavelink Client, and describes how to install the client on a mobile device.

Requirements

To install and run the Wavelink Client, you need the following components:

- A host computer with a connection to the network
- A means of connecting the device to the host computer

In addition, you also need one of the following PSC mobile devices:

- PSC 325
- PSC 335
- PSC 345

Getting Started

You must acquire the files appropriate to the configuration of the mobile device. Installation files for Wavelink Clients use the following naming convention:

```
WLC_[Device]_[OS]_[Radio]_[Version]_[Language]_[Font].[Extension]
```

Where

- *Device* is the hardware type
- *OS* is the operating system
- *Radio* is the radio type
- *Version* is the client version
- *Language* is the language type
- *Font* is the font size displayed

- *Extension* is the file extension

NOTE The platform, operating system, radio components, and extension of the installation filename are determined by the mobile device and chosen installation method. You define the language and character-size components based on the needs of your mobile device users.

For example, if you want to install the Wavelink Client on a 802.11b PSC 315 mobile device, using US English and normal character sizes, you would use the following installation file:

WLC_FAL_DS_8B_400_US_N.HEX

To determine the correct installation file, use the following table to locate the code that matches the configuration of the mobile device.

Device	OS	Radio	Ver.	Lang.	Font	Ext.
FAL	DS	8B	400	US	D	HEX
	EM	SP		FR	H	EXE
		SL		GR	W	
		TC		UK	N	
		RU				
		ES				
		HE				

Table 1: Codes Included in Client Installation Filename

Device Key

FAL = PSC Falcon devices

OS Key

DS = DOS

EM = Embedded

Font Key

D = Double High, Double Wide

H = Double High

W = Double Wide

N = Normal

Language Key

US = US English

FR = French

GR = Greek

UK = United Kingdom

RU = Russia

ES = Spanish

HE = Hebrew

Radio Key

8B = 802.11b

SP = Spring

SL = SAB-Lite

TC = TCP/IP

Extension Key

HEX = HEX file

EXE = Self-extracting Zip file

Installing the Wavelink Client

This section describes how to install the Wavelink Client on a mobile device. The tasks are as follows:

- 1 Configure the parameters for the mobile device.
- 2 Prepare the system hosting the install utility.
- 3 Prepare the mobile device.
- 4 Download the client.

NOTE Because the Wavelink Client operates on a variety of mobile device types, the screenshots used in this documentation have been modified to make them as generic as possible. As a result, while the information in each screenshot is accurate, certain characteristics unique to a specific mobile device might not be present.

Configuring the Mobile Device

You configure PSC mobile devices through two configuration files: `socket.cfg` and `net.cfg`. You can open these files using any standard text editor.

The `net.cfg` file resides in the `Falcon\31x\RF` directory within the working directory you used to install the PSC installation utility. By default, this directory is `c:\PSC\Falcon\31x\RF\net.cfg`.

The `socket.cfg` file resides in the `Falcon\RF\Network` directory within the working directory you used to install the PSC installation utility. By default, this directory is `c:\PSC\Falcon\RF\Network\socket.cfg`.

Once you modify a configuration file, you must re-install that file on the mobile device.

This section describes the different ways you can configure the PSC mobile device.

NOTE While this section describes many of the different configuration values you might want to set to optimize device-to-network communication, it does not describe all of the configurable options for PSC devices. See your device documentation for information on additional configuration options.

Setting the Net ID or ESS ID

You can set the Net ID or ESS ID for the mobile device by accessing the `net.cfg` file.

To set the Net ID or ESS ID:

- 1 Locate the `net.cfg` file on your host computer.

The `net.cfg` resides in the `Falcon\31x\RF` directory within the working directory you used to install the PSC installation utility. By default, this directory is `c:\PSC\Falcon\31x\RF\net.cfg`.

- 2 Open the file, using a standard text editor.
- 3 Locate the line that starts with `Link Driver SLAODI`.

This line is typically located at line 100.

A series of configurable options follows this line.

- 4 Locate the Net_ID option.

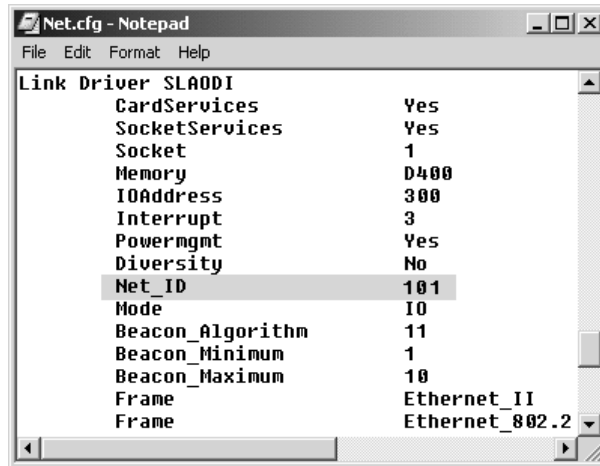


Figure 1. The Net_ID option of the net . cfg file (highlight added)

- 5 Type the new Net ID.

A Net ID must be in alphanumeric form and no longer than 32 bytes.

- 6 Save the net . cfg file.

Setting the Subnet Mask

You can set the subnet mask for the mobile device by accessing the socket . cfg file.

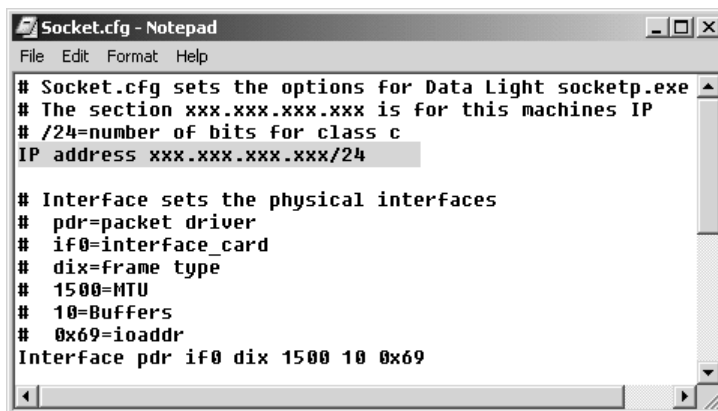
To set the subnet mask:

- 1 Locate the socket . cfg file on your host computer.

The socket . cfg file resides in the Falcon\RF\Network directory within the working directory you used to install the PSC installation utility. By default, this directory is c : \PSC\Falcon\RF\Network\socket . cfg.

- 2 Open the file using a standard text editor.
- 3 Locate the IP address option.

This option is typically located at line 4.



```
Socket.cfg - Notepad
File Edit Format Help
# Socket.cfg sets the options for Data Light socketp.exe
# The section xxx.xxx.xxx.xxx is for this machines IP
# /24=number of bits for class c
IP address xxx.xxx.xxx.xxx/24
# Interface sets the physical interfaces
# pdr=packet driver
# if0=interface_card
# dix=frame type
# 1500=MTU
# 10=Buffers
# 0x69=ioaddr
Interface pdr if0 dix 1500 10 0x69
```

Figure 2. The IP address option of the Socket .cfg file (highlight added)

Next to the words IP address is a series of Xs in a dotted-quad format, followed by a slash.

- 4 Type the number of bits for the subnet mask immediately after the slash on the same line.

For example, if your subnet mask was 255 . 255 . 255 . 0, line 4 of the socket .cfg file would be as follows:

```
IP address xxx.xxx.xxx.xxx/24
```

- 5 Save the socket .cfg file.

Setting the Default Router

You can set the subnet mask for the mobile device by accessing the socket .cfg file.

To set the default router:

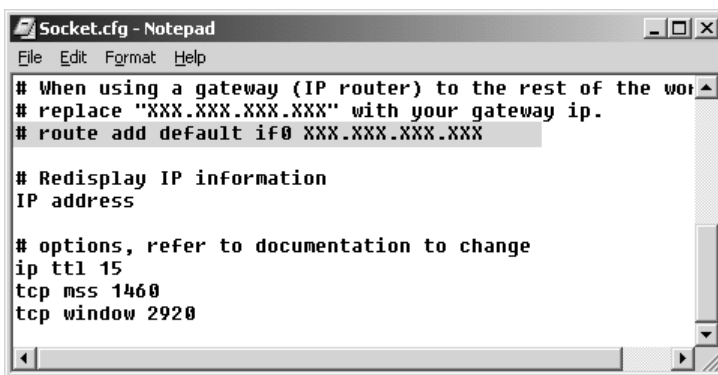
- 1 Locate the socket .cfg file on your host computer.

The socket .cfg file resides in the Falcon\RF\Network directory within the working directory you used to install the PSC installation utility. By default, this directory is c : \PSC\Falcon\RF\Network\socket .cfg.

- 2 Open the file using a standard text editor.
- 3 Locate the **Route** option.

This option is typically located on line 15.

NOTE By default, this option is commented out.



```
Socket.cfg - Notepad
File Edit Format Help
# When using a gateway (IP router) to the rest of the world
# replace "XXX.XXX.XXX.XXX" with your gateway ip.
# route add default if0 XXX.XXX.XXX.XXX
# Redisplay IP information
IP address
# options, refer to documentation to change
ip ttl 15
tcp mss 1460
tcp window 2920
```

Figure 3. The **Route** option of the `socket.cfg` file (highlight added)

- 4 Delete the # symbol to uncomment the **route** option.
- 5 Replace the series of Xs with the IP address of the default router.
- 6 Save the `socket.cfg` file.

Setting the IP Address

You can set the IP address for the mobile device by accessing the `socket.cfg` file.

NOTE You only need to set an IP address for the mobile device if you do not use a DHCP server to assign IP addresses to network devices.

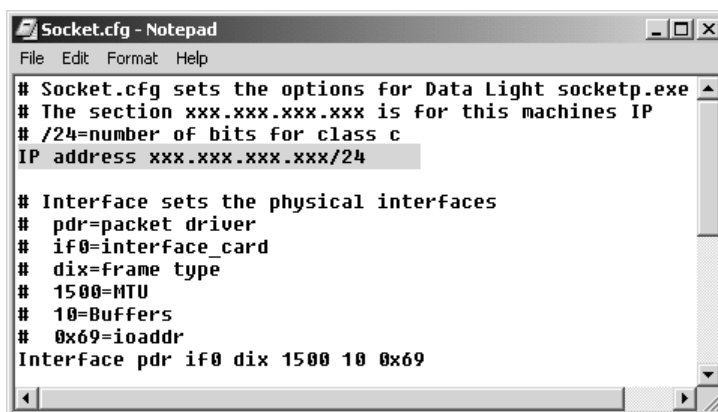
To set the IP address:

- 1 Locate the `socket.cfg` file on your host computer.

The `socket.cfg` file resides in the `Falcon\RF\Network` directory within the working directory you used to install the PSC installation utility. By default, this directory is `c:\PSC\Falcon\RF\Network\socket.cfg`.

- 2 Open the file using a standard text editor.
- 3 Locate the **IP address** option.

This option is typically located at line 4.



```
Socket.cfg - Notepad
File Edit Format Help
# Socket.cfg sets the options for Data Light socketp.exe
# The section xxx.xxx.xxx.xxx is for this machines IP
# /24=number of bits for class c
IP address xxx.xxx.xxx.xxx/24
# Interface sets the physical interfaces
# pdr=packet driver
# if0=interface_card
# dix=frame type
# 1500=MTU
# 10=Buffers
# 0x69=ioaddr
Interface pdr if0 dix 1500 10 0x69
```

Figure 4. The IP address option of the `Socket.cfg` file (highlight added)

Next to the words `IP address` is a series of Xs in a dotted-quad format, followed by a slash.

- 4 Replace the series of Xs with the IP address of the mobile device.
- 5 Save the `socket.cfg` file.

Setting the DHCP Option

You can set the DHCP option for the mobile device by accessing the `socket.cfg` file.

If you enable this option, the mobile device broadcasts its network connection request as a DHCP message and accepts the first valid response it receives from a DHCP server. This response contains the IP address the mobile device will use and any optional network parameters you want to set.

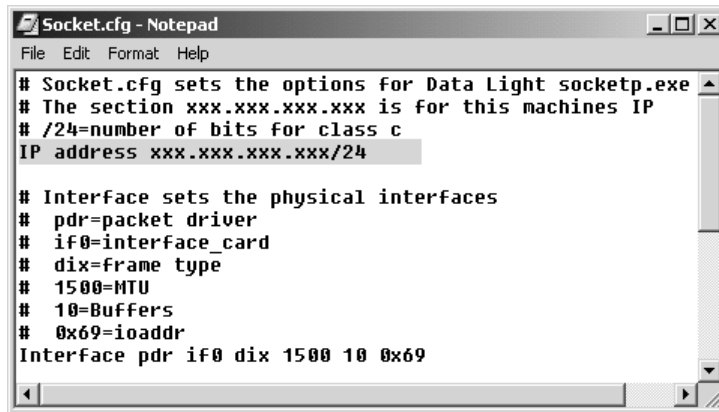
To set the boot mode:

- 1 Locate the `socket.cfg` file on your host computer.

The `socket.cfg` file resides in the `Falcon\RF\Network` directory within the working directory you used to install the PSC installation utility. By default, this directory is `c:\PSC\Falcon\RF\Network\socket.cfg`.

- 2 Open the file using a standard text editor.
- 3 Locate the **IP address** option.

This option is typically located at line 4.



```
Socket.cfg - Notepad
File Edit Format Help
# Socket.cfg sets the options for Data Light socketp.exe
# The section xxx.xxx.xxx.xxx is for this machines IP
# /24=number of bits for class c
IP address xxx.xxx.xxx.xxx/24
# Interface sets the physical interfaces
# pdr=packet driver
# if0=interface_card
# dix=frame type
# 1500=MTU
# 10=Buffers
# 0x69=ioaddr
Interface pdr if0 dix 1500 10 0x69
```

Figure 5. *The IP address option of the Socket .cfg file (highlight added)*

Next to the words `IP address` is a series of Xs in a dotted-quad format, followed by a slash.

- 4 Replace the series of Xs with the following: `0.0.0.1`.
- 5 Save the `socket.cfg` file.

Setting the Power Management Mode

You can set the power management mode for the wireless network card by accessing the `net.cfg` file.

To set the power management mode:

- 1 Locate the `net.cfg` file on your host computer.

This file resides in the same directory as the other PSC files you installed when you downloaded the PSC installation utility. By default, this directory is `c:\PSC\Falcon\31x\RF\net.cfg`.

- 2 Open the file, using a standard text editor.
- 3 Locate the line that starts with `Link Driver SLAODI`.

This line is typically located at line 100.

A series of configurable options follows this line.

- 4 Locate the **powermgmt** option.

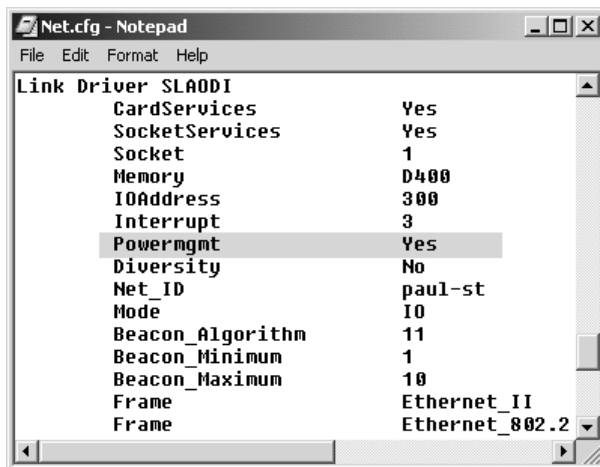


Figure 6. The *Powermgmt* option of the *net.cfg* file (highlight added)

- 5 To activate power management, type `Yes` in the right column.
To deactivate power management, type `No`.
- 6 Save the `net.cfg` file.

Installing the Client

After you modify the `net.cfg` and `socket.cfg` files and prepare the mobile device to receive the client software, you can begin the installation process.

This section describes how to install the Wavelink PSC Client with the PSC Falcon configuration utility. If you do not have this utility, you can download it from the PSC Web site: www.pscnet.com.

To install the Wavelink PSC Client:

- 1 Launch the PSC Falcon configuration utility.

By default, this utility is located in `c:\PSC\Falcon\Program\Falcon95.exe`.

The Falcon Configuration Utility main dialog box appears.

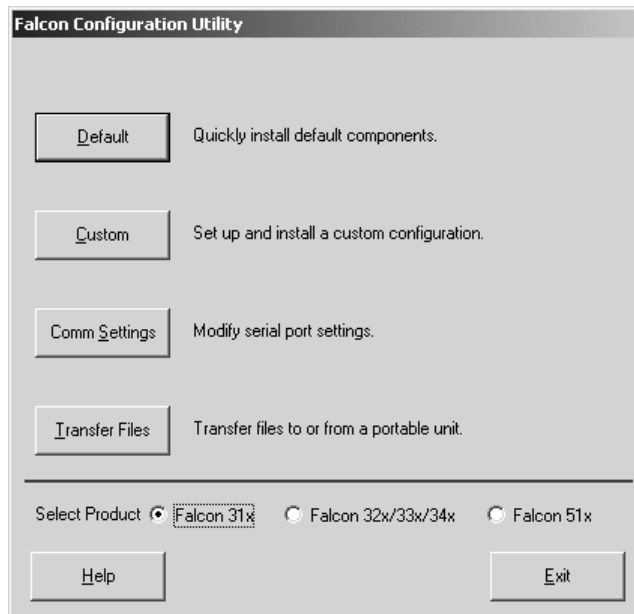


Figure 7. *The Falcon Configuration Utility Main Dialog Box*

- 2 Select the **Falcon 31x** option in the Select Product section located at the bottom of the dialog box.
- 3 Click **Custom**.
An Open dialog box appears.
- 4 Type `socket.cfg` in the **File name** text box and click **Open**.

A second Open dialog box appears.

- 5 Click **Open** to use the default file, `DEFAULT.PRS`.

The Custom Configuration dialog box appears.

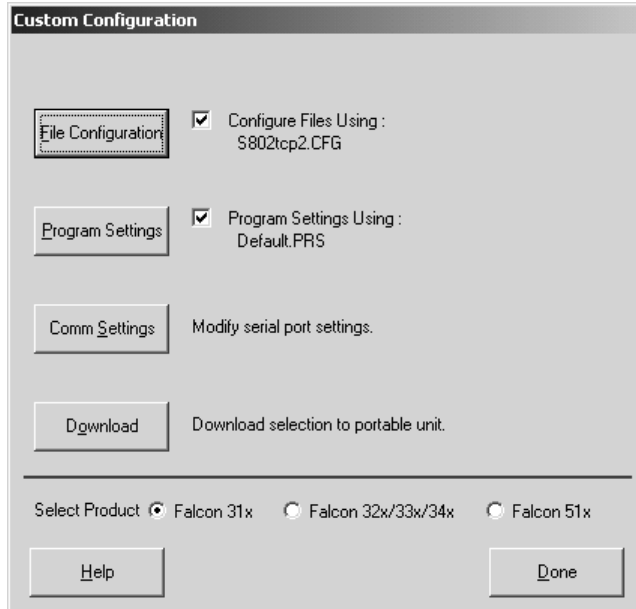


Figure 8. *The Custom Configuration Dialog Box*

- 6 Disable the **Program Settings Using: Default.PRS** checkbox.
- 7 Click **File Configuration**.

The File Configuration dialog box appears. This dialog box allows you to select the Wavelink Client files you want to install on the mobile device.

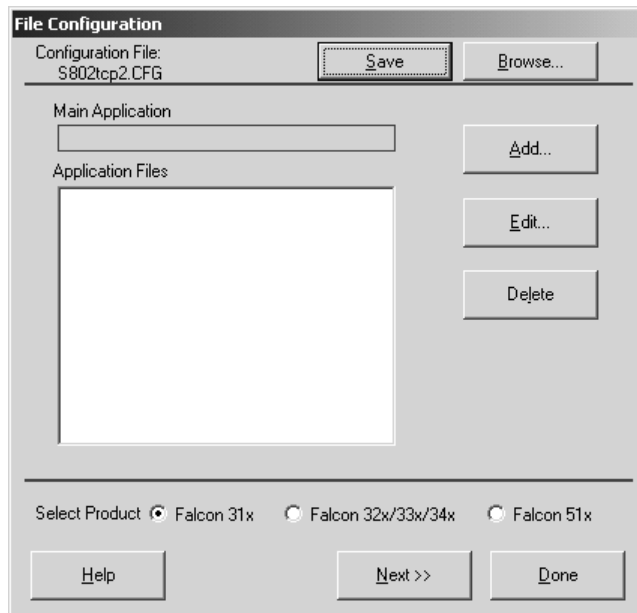


Figure 9. *The File Configuration Dialog Box*

8 Click Add.

The File Selection dialog box appears.

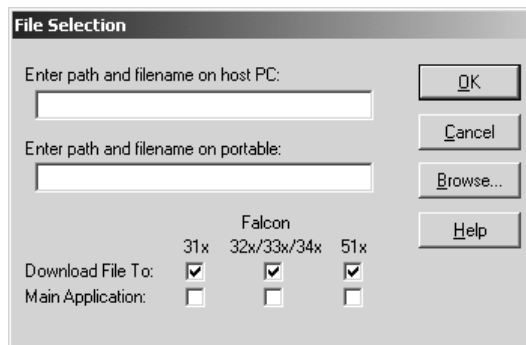


Figure 10. *The File Selection Dialog Box*

9 Type the path to the `wlc.exe` executable.

Alternatively, you can click `Browse` to navigate to the executable.

10 Repeat steps 9 and 10 to add the following files:

- `wlc.bmp`
- `wlc.msg`
- `wlclient.ini`
- `wlcsmall.bmp`

As you add each file, it appears in the **Application Files** list within the File Configuration dialog box.

NOTE If the file does not appear in the directory, make sure the **Files of Type** list in the Open dialog box is set to All.

11 Click **Next >>**.

The File Configuration dialog box refreshes to display additional configuration options for this installation.

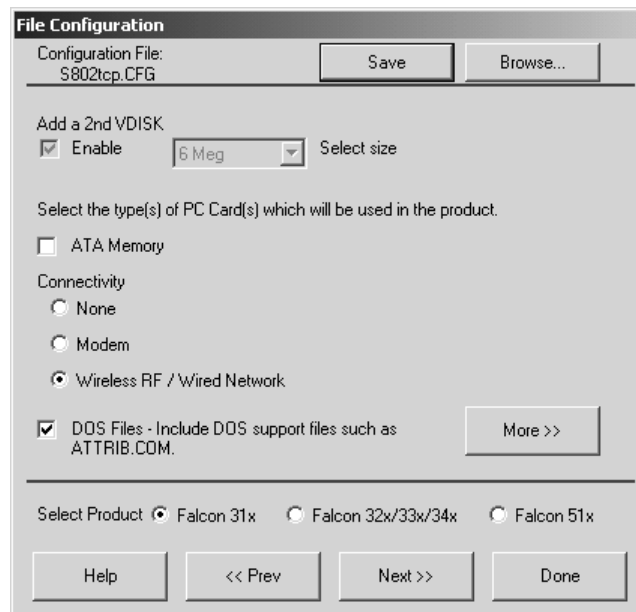


Figure 11. The second File Configuration Dialog Box

12 Click Next >>.

The File Configuration dialog box refreshes again.

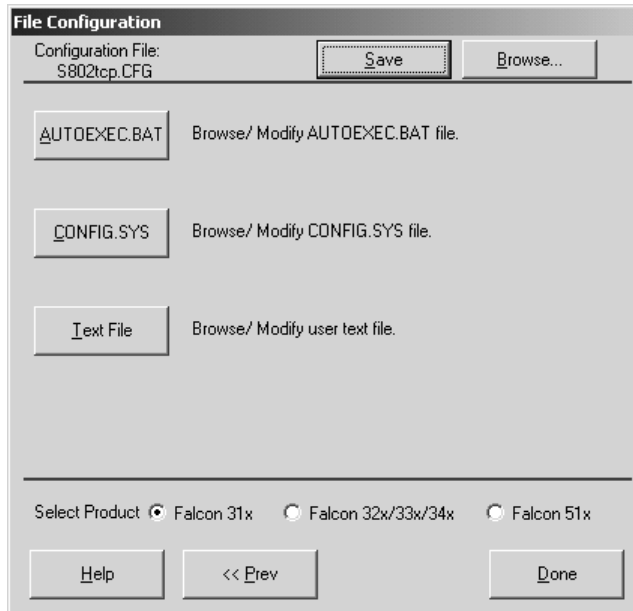


Figure 12. The third File Configuration Dialog Box

13 Click AUTOEXEC . BAT.

A dialog box appears, informing you that you are about to modify the Autoexec.bat file. Click OK in this dialog box.

The Autoexec.bat file opens.

14 Scroll to the bottom of the file and type the following command:

```
c:\wlc.exe
```

This command tells the mobile device to automatically start the Wavelink PSC Client at startup.

15 Save and close the file.

16 In the File Configuration dialog box, click Done.

The Custom Configuration dialog box appears.

- 17 Click **Download**.

The following dialog box appears.

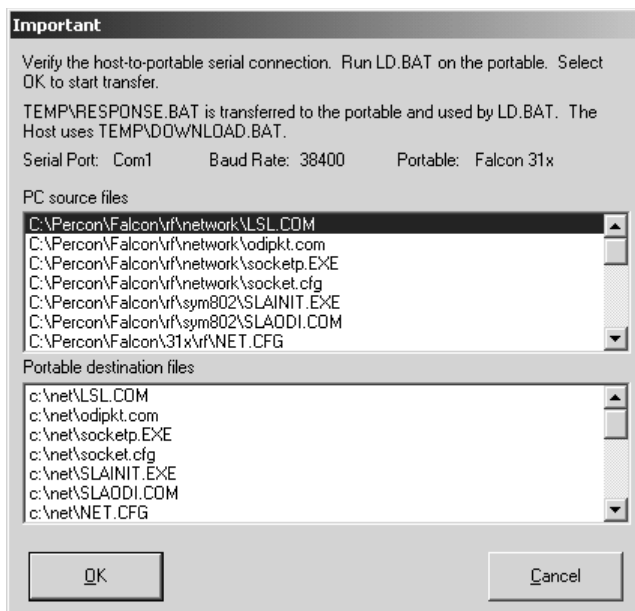


Figure 13. *The Verify Connection Dialog Box*

- 18 On the mobile device, type LD and press **Enter**.
- 19 On the host computer, click **OK**.

The Falcon Configuration utility begins the installation process. When this process is complete, the Custom Configuration dialog box appears.

- 20 Click **Done**.

The Falcon Configuration Utility main dialog box appears.

- 21 Click **Exit**.

A dialog box appears, asking if you want to save the configuration settings. You can then save the configuration settings if desired.

To access the Wavelink PSC Client on the mobile device, press `CTL+ALT+DEL`. The mobile device reboots and starts the Wavelink client software.

Configuration

Once you install the client on the mobile device, you can configure the Wavelink client so it will correctly connect to the wireless network.

Configuring the Wavelink Client

You can configure the Wavelink Client using the client's Control Panel screen.

To access the Control Panel screen, press CTRL+Z on the mobile device.

NOTE Some mobile devices require you press CTRL and Z at the same time, while others require you press and release CTRL, then press and release Z. See the documentation for your mobile device to determine which method to use.

The Control Panel screen appears.

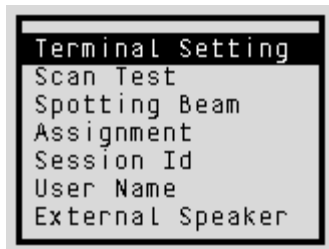


Figure 14. *The Control Panel Screen*

From this screen, you can use the up arrow or down arrow to select one of the following configuration options: Terminal Setting, Scan Test, Spotting Beam, Session Id, User Name, and External Speaker.

Determining Terminal Settings

The **Terminal Settings** option allows you to set four hardware options of the mobile device: cursor, back light, key click, and time out.

To determine terminal settings:

- 1 From the Control Panel screen, select Terminal Settings.

- 2 Press Enter.

The Term Settings screen appears.

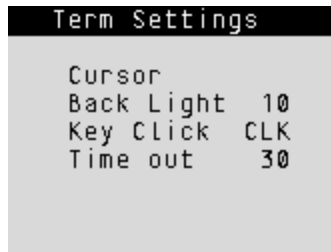


Figure 15. *The Term Settings Screen*

- 3 Using the up arrow or down arrow key, select the **Cursor** option.
- 4 Using the left arrow or right arrow key, select how you want the cursor to appear on the mobile device.

You can select from either a blinking block or a solid carrot.
- 5 Using the up arrow or down arrow key, select the **Back Light** option.
- 6 Using the left arrow or right arrow key, decrease or increase how much time can pass before the backlight display turns off.

The value for this option must be between 0 and 255 seconds.
- 7 Using the up arrow or down arrow key, select the **Key Click** option.
- 8 Using the left arrow or right arrow key, decrease or increase how long the mobile device plays a tone when the user presses a key.

The value for this option must be between 0 and 250 milliseconds.
- 9 Using the up arrow or down arrow key, select the **Time out** option.
- 10 Using the left arrow or right arrow key, decrease or increase how long the mobile device can remain inactivity before it powers down.

The value for this option must be between 5 and 255 seconds.
- 11 Press Esc to return the Control Panel screen.

Testing the Scanner and Keypad

You can test the functionality of the mobile device's scanner by accessing the **Scan Test** option from the Control Panel screen.

To test the scanner and keypad:

- 1 From the Control Panel screen, select **Scan Test**.
- 2 Press **Enter**.

The **Scan Test** screen appears.

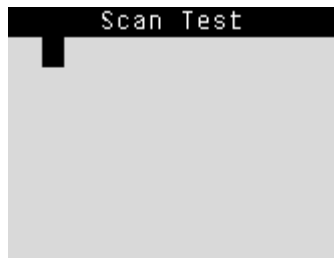


Figure 16. *The Scan Test Screen*

To test the scanner, scan any barcode. The screen displays the bar code data, followed by the message "From Label."

To test a standard character, press that character. The screen displays the character, followed by the message "From Key."

To test a function command, press that function command. The screen displays the function command followed by the message "From Command."

- 3 Press **Esc** to return to the Control Panel screen.

Setting the Session ID

Each time a Wavelink Client connects to the network using AutoDiscovery, a Session ID is assigned to the mobile device. If a connection is lost, a user can reconnect to the network using this session ID. Using this method to re-establish a network connection allows the user to return to the exact point within an application they were at before the connection loss occurred.

NOTE It is not recommended that you set the session ID unless you are trying to reestablish a lost connection.

To set the session ID:

- 1 From the Control Panel screen, select `Session Id`.
- 2 Press `Enter`.

The Session Id screen appears.

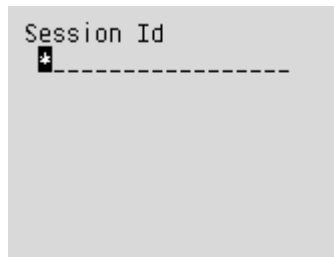


Figure 17. *The Session Id Screen*

- 3 Type the session Id for the connection in the **Session Id** field.
- 4 Press `Enter`.

When the client next attempt to connect to the network, it will use the session ID provided.

Assigning a User Name

Wavelink Studio 4.0 AutoDiscovery requires a valid user name if you want a mobile device to connect to the network using AutoDiscovery.

NOTE Future versions of Wavelink Studio will not require a user name and password.

To set the user name:

- 1 From the Control Panel screen, select `User Name`.
- 2 Press `Enter`.

The User Name screen appears.

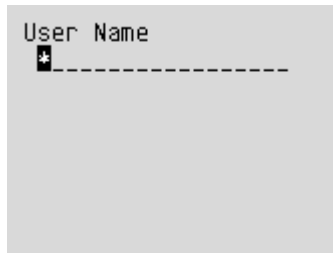


Figure 18. *The User Name Screen*

- 3 Type the session Id for the connection in the **User Name** field.
- 4 Press `Enter`.

Enabling the Spotting Beam

This feature is not yet supported by PSC mobile devices.

Defining the Network Assignment

You can define the network assignment for the mobile device by accessing the **Assignment** option from the Control Panel screen.

To define the network assignment:

- 1 From the Control Panel screen, select **Assignment**.
- 2 Press `Enter`.

The Assignment screen appears.

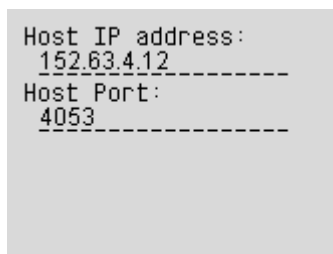


Figure 19. *The Assignment Screen*

- 3 Type the IP address of the system hosting the application the mobile device uses in the **Host IP Address** field.
- 4 Type the port number the mobile device uses to connect to the host system in the **Host Port** field.
- 5 Press `Enter` to save the network assignment and return to the Control Panel screen.

Press `Esc` to return to the Control Panel screen without saving the network assignment.

Enabling an External Speaker

This feature is not yet supported by PSC mobile devices.

Connecting to a Wavelink-enabled Network

After you configure the Wavelink Client on a mobile device, you can use the device to connect to a Wavelink-enabled network.

To connect to a Wavelink-enabled network, press F1 from the Wavelink Client startup screen.



Figure 20. *The Wavelink Client Startup Screen*

The mobile device uses the network assignment parameters you defined when configuring the Wavelink Client. If the client cannot connect to the network, it displays the Assignment screen and requests the IP address and port number of the system to which the device must connect.

See *Defining the Network Assignment* on page 25 for more information on defining the network assignment for a mobile device.

Common RFT Boot Sequences

The following is a chart listing the various boot sequences for supported PSC devices.

For cold boots, you must first power off the device.

Terminal	Cold Boot	Warm Boot	Safe Boot
PSC Falcon 325	ALT+FN+Power	CTL+ALT+DEL	ESC+DEL
PSC Falcon 335	ALT+FN+Power	CTL+ALT+DEL	ESC+Space

Table 2: *Common RFT Boot Sequences*

Safe boots are available only during the `Wait . . .` message displayed after a cold or warm boot.

See the documentation included with the mobile device for the most up-to-date information on booting the device.

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