

# Radio



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## **Telxon/Aironet Radio 2.4GHz Firmware Issues Disconnects**

### **Introduction**

The following describes issues with Telxon/Aironet Radio firmware issues and terminal disconnects.

### **Problem Description**

Access points fill up with CRC errors and lock up. This happens particularly with version 1.24 Radio firmware in the terminals that roam between cells.

Also, terminals do not function in CAM mode and will disconnect randomly.

### **Resolution**

Firmware in the 4800 AP's needs to be at least version 3.92.

Terminals will not work in CAM mode. The terminals radio firmware must be at least 3.65 with the following file for the radio settings: <http://www.connectrf.com/Documents/Pktds8.def>

## Recommended CFG24 Settings for Symbol Radios

### Introduction

The following describes the recommended CFG24 settings for Symbol radios.

### Problem Description

If not set properly, these settings will override Twin Client options. This effects how the Twin Client operates for the user, and in some cases, it appears that the Twin Client features do not work.

### Resolution

Set CFG24 as follows:

Net ID:	Should match the Access Points
SubNet Mask:	Must match the customers network
Default Router:	Must Match the customers Network
MU IP Address:	Mobile Units IP address for the customers network
Diversity:	NO only 1 antenna unless a vehicle mounted or stationary MU is being used with 2 antennas
MU Sleep Mode:	ON Mobile Unit Sleep mode
Boot Mode:	Manual entry
Pwr Management:	PSP Power save Polling
Buffers:	8
ReXmit Delay:	short
Rate Control:	1Mb only (seems like this is dependent on radio installed in Mobile Unit)
Scan/RF Op:	Concurrent Op
Int Roaming:	No

## Techniques for Configuring Radio Configuration Parameters in Terminals

### Introduction

The following describes techniques for configuring radio configuration parameters in terminals. This should be done prior to loading Twin Client.

### Problem Description

While 802.11b is a standard, all of the manufacturers implement it differently, leaving the end user responsible for configuring the parameters correctly between terminal and access points.

### Resolution

Obtain the assistance and software from either the radio manufacturer or the Access point manufacturer.

We currently know the following methods:

Radio Manufacturer	Technique	Program
Symbol Spectrum 24	Use the manufacturers programs LWP and UDP	CFG11 or CFG24 on the Terminal depending on radio type.
Lucent/WaveLan	Edit the configuration files found within the Lucent directory for the specific terminal.	WordPad or Notepad on the Twin Client PC
Cisco/Aironet	Edit the configuration files found within the Cisco/Aironet directory for the specific terminal. Rumor has it that there exists a client program called ACU.	WordPad or Notepad on the Twin Client PC

## **Symbol S24 Radios, Flash Hardware Not Backward Compatible**

### **Introduction**

Symbol current radios and flash hardware are not backward compatible, and render WHAP obsolete.

The symptoms are as follows:

1. The terminal exits to a B: prompt.
2. The terminal is very slow after loading WHAP.
3. High data rate terminals are in a loop when using LWP4.07 from Symbol.

### **Problem Description**

Symbol current radios and flash hardware are not backward compatible. The Access Points and terminals must have the correct Symbol drivers loaded to match the radios and flash hardware.

Symbol current drivers for the terminals can be found at:

[http://www.symbol.com/services/downloads/download\\_spec24.html](http://www.symbol.com/services/downloads/download_spec24.html)

Access Point software can be found at:

[http://www.symbol.com/services/downloads/spec24\\_firmware2.html](http://www.symbol.com/services/downloads/spec24_firmware2.html)

[http://www.symbol.com/services/downloads/spec24\\_firmware\\_2\\_2.html](http://www.symbol.com/services/downloads/spec24_firmware_2_2.html)

[http://www.symbol.com/services/downloads/download\\_wireless.html](http://www.symbol.com/services/downloads/download_wireless.html)

[http://www.symbol.com/services/downloads/spec1\\_2.html](http://www.symbol.com/services/downloads/spec1_2.html)

[http://www.symbol.com/services/downloads/download\\_wireless\\_software\\_8021.html](http://www.symbol.com/services/downloads/download_wireless_software_8021.html)

Symbol LWP and UPD802 drivers for the terminals can be found at:

[http://www.symbol.com/services/downloads/download\\_mobile\\_series3000.html](http://www.symbol.com/services/downloads/download_mobile_series3000.html)

### **Resolution**

Following Symbol's direction for identifying the affected hardware, obtain the correct drivers from Symbol and load the terminals and Access Points appropriately.

Then obtain the current release of Twin Client from our web site: <http://www.connectrf.com>.

WHAP is obsolete.

## **About This Document**

This document is based on the following Technical Documents in our Notes Database that have been made obsolete: A1032, T1129, T1163, and T1183.

Please let us know about any errors in this document at:

<http://207.241.78.223/isoxpert/calltrak.nsf/WebTracking?OpenForm>.