



Product
VIP110-24

Software Version
2.5.11

Note: Please read this entire document before proceeding with the upgrade; there may be special instructions or prerequisites that need to be followed.

Reason for Change

The software, as listed in the “Files Included Section”, including the procedures defined in this document will provide the following changes (enhancements and bug fixes) for your Wi-LAN product.

Enhancements (Since Release 2.5.09):

1. Includes all features and fixes introduced in VIP 110-24 Release 2.50-09 (See file SFCO-VIP110-002 release notes for details).
2. Addition of FTP server.

Software Fixes:

1. When running the monitor-environment command on a leaf radio, you would occasionally see a reboot if the leaf was currently connected to a parent. This version fixes this issue.
2. RF-Multicast blocking behavior was fixed:
 - Multicast traffic was being blocked regardless of the source. The radios now check on the source, and if the multicast packet came from its parent, it passes it unchanged.
 - The repeater was sending upstream multi-cast traffic directly to its parent. This meant upstream multi-cast traffic never appeared on a repeater's LAN port and upstream multi-cast traffic to the repeater's parent was being sent as normal (non-multi-cast) traffic. This is the explanation for the "very odd" behavior as described in the 2.50.03 release notes. Upstream multi-cast traffic is now sent upstream as multi-cast, but not sent downstream at all.
3. Under certain circumstances with an auto-acquire leaf, the first “rf-from-parent” channel was overwritten by the new channel when a parent was acquired. This has been fixed.
4. Under certain circumstances, when a radio was dropped the associated MAC entries weren't purged. When the radio re-attached, the MAC entries weren't

updated and some nodes attached to the radio became unreachable. Version 2.50-11 fixes this issue.

5. The least significant byte of the random number generator sometimes repeats. When two radios were attempting to attach to a parent simultaneously, they wait a random amount of time to retry, but if their generators were in sync, they would continue to collide for an extended period of time. The new code fixes this issue.

Known Issues:

1. None.

Status (Mandatory, Recommended or Optional)

Recommended - This SFCO does not include any service affecting issues but includes new enhancements that allow more flexibility for maintenance. Installation is optional.

Prerequisites

In order to fully implement version 2.50.11, the boot loader MUST be version 1.14 or higher, ***Failure to do so WILL cause the radio to become inoperable, requiring a software re-build that can only be done at Wi-LAN's Calgary factory.*** Boot loader 1.15.1 is supplied with this version. Upgrading to 1.15.1 from a version previous to 1.14 or upgrading from version 1.14 will not render the radio inoperable but all fixes above may not be realized. This software is supported on all models of VIP 110-24 and may be applied to all previous hardware platforms.

The instructions on how to upgrade the boot loader are given in Application Note VIP11024-148C, supplied with this upgrade package. Follow the instruction carefully to upgrade the software correctly. The VIP software image files are held in the BinFiles.zip archive which is password protected. The password to open the file is "Calgary".

Please note that by opening the BinFiles.zip file using the password supplied, you acknowledge that you have read and understood the warning notice.

Upgrade Procedure

This section provides details specific to this upgrade. User Manual and Application Note procedures may be reference to aid in the upgrade.

Upgrade the VIP product using the following procedures:

1. Unzip the file ***vip110-24_v2-50-11.zip*** to your c:\ directory. There will be 5 files:
 - a. **BinFiles.zip** – The software for the VIP product.
 - b. **SFCO-VIP110-003.pdf** – These Software Release Notes.
 - c. **Warning_Must_Read_First.txt**– Warning notice.
 - d. **Operators_Manual_rev_g.pdf** – User Manual.
 - e. **App148C.pdf** – Application note for Bootloader update and Firmware installation.
2. Read the Warning_Must_Read_First.txt file or Prerequisite section, then extract the contents of the BinFiles.zip archive to the directory containing the ECON program, or to a known directory if you are using a serial connection to transfer files to the radio.
3. Follow application note APP148C.pdf to upgrade the bootloader and operational firmware.

Back-out Procedure

For this version there are no special requirements or procedures to follow to revert back to an older version of Operational Software. Follow the upgrade procedure in the User Manual, selecting the older version of Operation Code as the default program.

DO NOT revert back to an older version of Boot Loader code unless advised to do so by Wi-LAN technical support. Technical Support will advise you at that time on the safest way to proceed, based on the current status of your radio.

Files Included

These files are found in the protected BinZip.zip archive.

bvip01-15-01.dwn	652,556 Bytes	5/28/2004 9:50 AM
vip02-50-11.dwn	1,389,548 Bytes	1/12/2005 12:12 PM
bvip01-15-01.bin	260,992 Bytes	2/20/2004 12:28 PM
vip02-50-11.bz	218,530 Bytes	1/12/2005 12:12 PM