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# BreezeACCESS GFSK Spectrum Sweep Firmware

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BreezeACCESS II / MMDS / V / 900 Spectrum Sweep

Verison 4.6.s27

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Release Notes

## 1. Introduction

The BreezeACCESS Spectrum Sweep Firmware is a special firmware version based on version 4.5 for the BreezeACCESS II/MMDS/V/900 Family lines that implements Spectrum analysis feature. This feature is intended to sweep the applicable frequency spectrum and gather real time information about the signal strength levels and false alarms being detected by the modem, thus helping to determine the duty cycle and the level of interference from co-located radio systems operating in the same frequency range.

## 2. BreezeACCESS Spectrum Sweep Features

### Spectrum Analyzer

- Sets the device in a passive spectrum sweep state to gather information per frequency, including:
  - Average Signal Strength Level
  - Maximum (Peak) Signal Strength Level
  - Number of False Alarms
  - Average False Alarms
  - Maximum (Peak) False Alarms.

## 3. Compatibility and Interoperability

- Normal functionality of the unit is disabled when running from this version.
- BreezeCONFIG ACCESS does not support units running the Spectrum Sweep firmware. The message “Invalid response from host” will appear upon unit selection. For remote management use telnet instead.
- BreezeACCESS XL products operating in FDD (Frequency Division Duplex) mode are not supported by this firmware.
- Remote Management and configuration can be performed only behind the Ethernet port of the device as normal radio functionality is disabled.
- Subscriber Units with Voice port are not supported.
- The Firmware version is supported by BreezeACCESS Spectrum Analyzer Utility version 1.2.2.

## 4. Known Bugs & Limitations

- In case the Spectrum Sweep Firmware is set as default version, some of the unit parameters (e.g.: Flexible Hopping Frequency configuration) used in the standard version may be lost after couple of parameter re-configurations. This is caused due to process of switching sectors in the flash. It is recommended to export the unit parameters using TFTP before loading the Spectrum Sweep Firmware.

## 5. Fixed Bugs

Support for SU-I HW rev E

Parameter compatibility with firmware version 4.5

Compatibility with AU-BS configured to work in synch mode Master or Slave.

## 6. Upgrade Instructions

The Firmware files have the extension name 'all' and can be used for either AU or SU.

The Upgrade Process is the same as for standard firmware version.

You can use the included DOS based TFTP utility included in the Firmware Upgrade Package or BreezeCONFIG ACCESS Utility in order to upgrade the firmware. Any other TFTP Client can also be used with the corresponding commands.

The syntax is as follows:

```
tftp -i hostaddress put sourcefile [destinationfile]
```

where:

-i is for binary mode.

hostaddress is the ip address you give the unit.

put defines that the client will send file to hostaddress.

sourcefile is filename to be read from the current directory.

destinationfile is filename to be downloaded the unit.

### **For Type\_F, FLASH FILE or BootBlock:**

for AU or SU : sourcefile = **A46s27F.all** , destinationfile = <writecommunitystring> .dwn

### **For Type\_S or STRATA FLASH:**

for AU or SU : sourcefile = **A46s27S.all** , destinationfile = <writecommunitystring>.fmr

The default write community string is 'private' (omit the quotes).

Example for AU with TYPE\_S FLASH:

```
C:\BA_46s27\Firmware >tftp -i 206.25.63.55 put A46s27S.all private.fmr
```