

SBS-3 Firmware L_0107_0000_0113_R_SBS3.kff

1. Mode A/C decoding

Mode A/C data can now be output. Works with Beamfinder Plus.

2. Ethernet LED

The yellow Ethernet LED now comes on whenever a socket connection is established with the SBS-3. This is to support stand alone data operation without BaseStation.

3. Bug fixes

Fixed a problem with some output data getting lost on ethernet

Fixed a problem with noise on the analog audio output

BaseStation v168

1. Stand alone operation of SBS-3

A new "Stand Alone Data" tab has been added to the Non-Volatile Memory settings screen. This allows you to turn on various data options for stand alone operation, without BaseStation. The reason for the settings is to control the amount of network bandwidth used.

Note - these settings apply to subsequent operation without BaseStation. When you run BaseStation, these settings are ignored. Instead use the Settings-Data Settings screen.

Note - Mode S messages with DF= 4, 5, 20, 21, and 11 (with PI = 0) are enabled as standard, as well as ADS-B / TIS-B / ADS-R messages.

Enable mode S air-air replies - enables output of DF 0 and 16 messages

Enable other Mode S messages - enables other Mode S messages including DF 11 with nonzero PI field

Enable mode A/C replies - enables output of mode A and C data

Enable Digital Audio Packets - outputs RAW digital audio data (16 bit 16 KHz mono or stereo).

2. Mode A/C Pass-through to port 30006

For the SBS-3, a checkbox has been added to the Data Settings tab to enable output of Mode A/C data on BaseStation's raw data output (port 30006). Enabling this will increase network usage significantly.

3. Stereo Audio Streaming

The audio streaming output from BaseStation is now in stereo for the SBS-3.

4. Improved network performance

Changes have been made to speed up the reception of data by BaseStation over the network.

5. Setting the name for radio stations

A “Set Name” button has been added to the pop-out tuning buttons on the SBS-3 Radio Control Panel. This allows the station name to be set which will then be stored when you save the frequency to a pre-set button.

6. Pre-set Tuning

On the SBS-3 Radio Control Panel, if a pre-set button is used to set the frequency of an SDR channel, and it is out of range of the 8MHz bandwidth of its associated tuner, the tuner will now be adjusted to centre on the new frequency, making tuning using presets a one-step operation.

7. Stand alone operation of the SDR radio

A Radio tab has been added to the SBS-3 Non Volatile Memory settings screen. A button allows all of the SDR settings to be written to the SBS-3 NV memory so that they will be used on power up, without BaseStation.

A second button allows the settings in the Non Volatile memory to be returned to their default state (radios will be left powered down when the SBS-3 is powered up stand-alone).

Changes made in BaseStation v165

Changes apply to use with the SBS-3 only.

1. Re-sizeable SDR control panel

The control panel can now be resized and has scroll bars. BaseStation remembers the size and position of the panel on shut down.

2. Saving settings on shut down

BaseStation now saves the current settings (such as frequency and squelch) for the tuners, SDR channels and audio mixer on shut down.

3. Presets

The preset buttons from the SBS-1eR control panel have been implemented. They appear in the pop-up frequency entry panel and operate on the SDR channel to the left of the panel.

4. Frequency lists

The frequency lists from the Internal Radio menu, toolbar button or radar screen pop-up menu can be used to set the frequency on the SDR's. It operates on the currently highlighted SDR channel on the control panel, although the control panel does not have to be visible to use this feature. If the SDR channel goes out of range of the 8MHz bandwidth of its associated tuner, the tuner will be adjusted to centre on the new frequency, making this a one-step operation.

5. Mute and volume up/down toolbar buttons

These toolbar buttons now operate on the master gain and mute controls of both the analog and digital channels at the same time.

6. Other

A spurious edit box has been removed on the SBS-3 hardware settings screen. Some messages referring to the SBS-1 have been changed.