

SmartSDR Basic and SmartSDR+ v4 Changelog

The SmartSDR™ v4.x changelog lists software and firmware updates and fixes across SmartSDR for Windows, SmartSDR for the M-Models, and Maestro.

SmartSDR v4.0.1 - October 30, 2025

Feature/Defect	Description
SMART-11431	New DSP Noise Mitigation: We have updated and added a variety of new noise reduction/mitigation algorithms to the 6000 and 8000 series radios. The new noise mitigation features are designed to cater to different types of noises, environments, and setups. Multiple Noise Mitigation functions can be used simultaneously. Toggle the various noise mitigation functions on and off to taste. NRF - Spectral Subtraction Filtering Algorithm NRS - Spectral Subtraction with Voice Detection RNN - AI Noise Reduction NRL - NR algorithm using LMS (Least Mean Squares) ANFL - ANF algorithm using LMS ANFT - ANF algorithm using FFT (Fast Fourier Transform)
SMART-3985	Digital Voice Keyer: Digital Voice Keyer (DVK) allows recording, playback, and transmission of up to 12 voice recordings stored on the radio.
SMART-10570	Enhanced Signal Clarity (ESC): ESC is a unique diversity reception feature that is only available on dual SCU radios. Enhanced Signal Clarity (ESC) in diversity. ESC combines signals from multiple antennas to optimize audio receive capabilities via beamforming/nullforming. Used to accentuate desired signals (constructive interference patterns) or to remove undesired signals (destructive interference patterns) to improve signal quality. This does not affect the displayed panadapter or waterfall, but metering will be affected.
SMART-9958	Relative Noise Floor Scaling: This feature automatically adjusts the displayed noise floor to maintain a visually consistent reference level as you operate on different bands and antennas. This feature makes it easier to compare signal strengths and visually interpret band conditions.
SMART-11332	CW Auto Tune: Introducing CW Auto Tune. CW Auto Tune automatically tunes the active slice receiver to CW signals within the passband, simplifying the process of locking onto CW transmissions. There are two modes of operation: One-Shot or Intermittent Mode. • One-Shot - Autotunes once to the highest signal on the click of the AUTOTUNE button • Intermittent – Continuously autotunes to the highest signal every two seconds when the AUTOTUNE button is enabled.
SMART-10956	Implemented SmartSDR+ Subscription in support of future v4.0 deployment
SMART-11309	Wide Noise Blanker (WNB) is now only accessible in the Antenna menu rather than in addition to the Slice DSP menu.
SMART-11597	Improved error logging when Tune Power is set higher than RF Power
SMART-11545	The Maestro Analog meter scale now matches other RF Power Out meters with 40, 80, 100, and 120 markings.
SMART-8466	SmartSDR now honors the locale settings and displays the appropriate date format.
SMART-11198	Fixed an issue where the PGXL Amp Temp was displayed in the wrong color

SMART-9596	Fixed an issue where the Network menu was not displayed correctly on some computers
SMART-11589	Fixed an issue where Diversity Slice did not persist configuration settings
SMART-11130	Fixed a false 10 MHz detection issue, which could result in clocking issues and a Slice being off frequency. <i>Note that External 10MHz will no longer be a source for the Auto option. When using an External 10 MHz as your clock reference, you will need to manually select the External 10 MHz option. The Clock Reference setting is now persisted over power cycles.</i>
SMART-11424	Fixed an issue where APF was not cloned properly with DIV enabled
SMART-11551	Fixed an issue where VOX could briefly trigger transmit on the wrong Slice when switching TX Slices
SMART-11556	Fixed an issue where FM Squelch would suddenly stop working
SMART-11505	Fixed APD API Status messages not changing between Active and Cal
SMART-11358	The ATU button no longer stays highlighted in the event of an ATU Tune failure.
SMART-11704	Fixed a DAX Unhandled Exception (UHE): Object not set to an instance of an object upon closing the application.
SMART-11735	Fixed an issue where the IQ Stream did not terminate after client disconnection
SMART-9103	The SmartLink Session Expired message is now worded more clearly.
SMART-11543	Fixed an issue where the peak hold meter segment would lag behind the peak meter
SMART-11734	Added percentage symbol to Max Power menu items for clarity
SMART-10948	Fixed Unhandled Error: Cannot animate the 'Text' property on a System.Windows.Controls.TextBlock
SMART-11720	Fixed the disconnect command to prevent a crash on invalid use
SMART-11773	Fixed a DotNetZip vulnerability
SMART-9084	Maestro changed the "Switch Radio" button to "Choose Radio" to be consistent with SmartSDR for Windows.
SMART-9661	Frequency range limits are now better handled by the client.
SMART-11880	ATU: 2-tone Tune option doesn't revert to single tone for ATU tune
SMART-11918	DAX IQ: Fixed the older version of the stream create command, causing incorrect byte orientation
SMART-11364	Fixed RTTY showing no RF carrier when using the TUNE feature.
SMART-9529	Tune Button no longer remains blue after Tune is deactivated due to a frequency change.
SMART-11507	APD does not recalibrate when going from TUNE to MOX at different power levels

Copyrights and Trademarks

© 2005-2025 FlexRadio. All rights reserved.

FlexRadio is a registered trademark of FlexRadio, Inc.

FLEX-8400, FLEX-8400M, FLEX-8600, FLEX-8600M, FLEX-6300, FLEX-6400, FLEX-6400M, FLEX-6600, FLEX-6600M, FLEX-6500, FLEX-6700, FLEX-6700R, Maestro, FlexControl, SmartSDR Basic, SmartSDR+, SmartSDR, SmartSDR for Windows, SmartSDR CAT, SmartSignal, SmartLink, DAX, TNF, WNB, multiFLEX, SmartControl, the SmartSDR “spectrum” (logo), and the FlexRadio “wave” (logo) are trademarks of FlexRadio.

FlexRadio, Inc.
4616 W. Howard Lane
Suite 8-860
Austin, TX USA 78728
+1 (512) 535-4713
www.flexradio.com