



SDRconnect Release Notes



Overview

This document provides an overview of the modifications, changes and enhancements made to the SDRconnect Application Software.

v1.0.4 build 83273bcd8 (26th March 2025)

To operate this release with nRSP-ST, the firmware must be updated to at least 1.0.8

Added

- Additional waterfall palettes
- Selectable spectrum gradients
- Support for limited device controls in the sidebar (enable in preferences)
- Threshold slider for spectrum peak detection
- Show the notch filter bandwidth in the notch flag
- Toggle in IQ playback to allow start time to reflect actual recorded start time
- Frequency tick marks

Changed

- 2200m band limits
- Layout is now versioned to accommodate layout changes when switching between SDRconnect versions
- Default waterfall palette now SpecExt

Corrected Defects

- Frequency shown in Aux SP with mouse hover always used 0% zoom
- Frequencies module did not display correctly when size was too small
- Fixed crash that could occur when replacing an item in the frequency list
- RSPduo Bias-T state can get out of sync with UI display
- Synchronising HDR status between multiple clients
- The maximum value for AGC release was too low. Increased from 2000 to 4000

Notes:

- The HDR status issue is client side, so SDRconnect must be upgraded to at least this version for them to work correctly.
- This version will reset your layout from previous versions.

v1.0.3 build b6fce59a3 (13th December 2024)

To operate this release with nRSP-ST, the firmware must be updated to at least 1.0.6

Added

- Center frequency drag tuning
- Hardware control indicator under the frequency display
- Controls for touchscreens

Changed

- Increased max FFT rate in the web client to match the desktop client

Corrected Defects

- The duration field in timed recordings had an issue when trying to select > 60 minutes
- Manual frequency entry cancels if selecting another control
- Recording folder in preferences didn't support UNC paths
- Adjusting the filter bandwidth in VRX caused a crash

Notes:

- The administrator app supports configuring scheduled recordings to a network share (requires 1.0.6 firmware)
- The administrator app allows you to configure the IARU region for the web client (requires 1.0.6 firmware)

v1.0.2 build 362ce77dc (5th December 2024)

Corrected Defects

- Device stored state was not being loaded

v1.0.1 build 148fc242b (29th November 2024)

Added

- Added password reset to NRSPUpdater

Changed

- Increased Wi-Fi timeout

Corrected Defects

- Fixed KeyPad not working

v1.0 build 0217e3526 (27th November 2024)

Added

- Support for nRSP-ST including the NRSPUpdater and NRSPAdministrator tools

Changed

- Mode name changes (IQ -> Full IQ), (Audio -> Compact)

Preview 5 Update 2 build 0c0a9d6d7 (23rd November 2024)

Changed

- Incorporated an upstream fix in the UI toolkit that caused a memory leak on some platforms when resizing the window
- Fixed a few missing scroll bars in various places

Defects

- Addressed the issue where the LO frequency was incorrectly parsed from an IQ wav file used in IQ playback
- Fixed the antenna port selection sometimes automatically switching to the first port when setting certain LO frequencies

Note: This is anticipated to be the final Preview release prior to 1.0

Preview 5 Update 1 build 105b8f722 (6th November 2024)

Added

- Main and Aux waterfall contrast adjustment

Changed

- Updated to the latest Microsoft VC++ redistributable for Windows

Corrected Defects

- Crash and/or exception caused by preset filter parser in non-English locales
- PPM manual entry field now accepts negative values
- Frequency module missing a scrollbar around the tabs at the bottom of the panel
- Server service for Linux/ARM64 didn't support correct use of systemctl disable/enable
- Reset layout disabled the ability to re-dock floating windows and now forces a close of SDRconnect
- Band frame button state cleared when switching from KeyPad to Bands

Preview 5 build 8d71cadca (1st November 2024)

Added

- Wide and narrow band noise blanker
- Noise reduction using rnnoise from xiph.org
- Save/Load application layout *
- PPM correction support and calibration routine using SAM mode
- Spectrum peak detection and measurement
- Support for configurable audio AGC profiles
- 3.125 kHz step size
- Store step size in profiles
- CB band for US

* Note: on some platforms/OS distributions there are issues with floating docked windows including resizing, repositioning and being the incorrect size/position when the application is started. This is related to the latest version of the UI kit. The layout can be reset using the reset button in the Preferences menu.

Changed

- Improvements to the installer for Linux/ARM64 platform

Corrected Defects

More fixes and improvements, including:

- Fixed PMR bandwidth
- Server service not starting correctly on older OS versions after a reboot

Preview 4 build 5dce37273 (18th September 2024)

Added

- RDS decoder – supports both USA and rest of the world standards. Adds selected station name into the spectrum view.
- Profiles – save and recall custom radio profiles.
- Timed recordings.
- USB surprise removal support in the client.
- Network disconnection support in the client.
- Installer option to setup SDRconnect as a server service for Linux/ARM64 platform.
- Step sizes added: 2.5 kHz and 7.5 kHz

Changed

- All platforms now moved to .NET 8 and latest versions of the UI/docking kit.
- Power measurement text moved to save space.
- Play button disabled whilst the device list is being refreshed.

Corrected Defects

Quite a number of fixes and improvements, including:

- Marine band should have used a wider sample rate.
- Prevent HDR and overload indicators remaining on under certain conditions.
- Fixed potential crash if IQ filename was manually modified.
- Server antenna selection always caused an update of all the hardware settings.
- Fixed audio start-up on Linux.

Preview 3 Update 2 build f795c3df0 (24th May 2024)

Defect fix to the updated Preview 3 public release:

Corrected Defects

- Changing sample rate did not always complete successfully during band framing.

Preview 3 Update 1 build 27e92b0c3 (19th May 2024)

Defect fixes and changes to the Preview 3 public release:

Changed

- Frequency module behaviour with cut/copy & paste and selection.

Corrected Defects

- Mac (x64 and ARM64) – crashes on exit due to issues with the json output.
- Some of the text either clipped by a bounding box or edge of a panel.
- VRXs not receiving changes from the main receiver.

Preview 3 build ab08e01fe (10th May 2024)

This release is the product of over 100 fixes and improvements including:

Added

- RSPdxR2 Support.
- Tabulated frequency module to store and manage frequencies.
- Audio recording pre-roll buffering with up to 10 seconds history.
- MPX view for WFM signals.
- Spectrum peak hold with decay added to the Audio SP view.
- Recording settings are now saved.

Changed

- Layout has been adjusted to make it look better on smaller screen resolutions.
- Several updates to both the spectrum and waterfall displays to improve the overall look and feel.

Corrected Defects

- RSPduo - in dual tuner mode, starting the stream would sometimes cause a crash.
- RSPduo – in dual tuner mode, changing the sample rate on the Primary tuner caused the spectrum to stop until the stream was stopped/started or the sample rate was changed on the Secondary tuner.
- Tuning the centre frequency past the 2 GHz upper limit using the scroll wheel.

Preview 2 Update 3 build 0fd82d9dc (26th January 2024)

Added

- RSP1B Support

Preview 2 Update 2 build b85a1fe33 (15th January 2024)

Changed

- Improved Server List Editor (renamed to Remote Device Editor)
- Renamed Global Settings to Preferences

Corrected Defects

- Mac x64 only – FFT size of 64k causes a crash
- Mac only – opening Global Settings from the system menu causes a crash
- Bandwidth limits incorrect for network audio source
- Server attempted to stream WAV file when no USB device found
- Issue with biquad filter when adjusting bandwidth in AM or SAM mode to 100 Hz

Preview 2 Update 1 build 0274e9dcd (30th November 2023)

Changed

- When loading an IQ file saved in SDRuno, use the LO frequency from the file header.

Corrected Defects

- 40m band not showing the correct frequency span for regions 1 and 3.
- IQ file dropdown does not prompt for a file when it's the only source available.
- Notch filter could be removed when adjusting the asymmetric filter.

Preview 2 (27th November 2023)

Added

- Second public preview release
- Direct frequency input
- CB-UHF mode
- 11m, 13m, 15m and 16m broadcast bands
- Clear loaded device state when device is closed
- IARU region support (bands and power level)
- IQ Recording (64bit format, single file)
- IQ Playback as a device
- Asymmetrical filtering in Aux control
- Attack/Decay smoothing added to the s-meter display
- Add zooming to the Aux control
- Global Settings control
- Notch filters in Aux control
- Popup dialog to report any errors in stream starting
- Timestamps to server console output

Changed

- Linux installer: checks for 64bit OS and additional info on how to approve the license terms
- Rename CB band to CB-HF
- Popups now have transparency
- Zero the waterfall average slider default position
- Changes required to the Mac build profile due to changes in .NET 8 (now makes it harder to support older OS versions)
- Modify data exchange for FFT data for improved performance

Corrected Defects

- Audio gain range insufficient
- Hit marker on frequency digits not working as intended due to control having zero height
- Random graphical artefacts and glitches on windows
- GUI freezing
- Initial application startup size on "small resolutions"
- Fix NOAA band frequency range and mode
- Broadcast band buttons making the control too wide
- Fix marine band frequency range and mode
- Frequency scrolling in SSB mode not working
- IFAGC always starts enabled regardless of UI setting
- Device settings not applied properly when switching sources
- Spectrum axis is too small
- Fix spectrum flickering when resizing the application window
- Waterfall palette not applying correctly on startup
- Server sometimes crashing on new client connections when max client limit reached
- Reset zoom to 0% when band framing to avoid the chance of displaying out of bounds bins

Preview 1 (10th August 2023)

Added

- First public preview release

For more information go to <https://www.sdrplay.com>

For support go to <https://www.sdrplay.com/help>

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