Wolf-2 - FW updates

06.12.2025

Experimental STM32 14.3.0 and FPGA 14.1.0

+STM32: Interface Russification Work, Tnx R3XG
+STM32: New font for CN translation, Tnx @buwv7
+STM32: Updates for CAT in FT-450 emulation mode, Tnx Serg
+STM32: Mute no longer affects USB audio output, Tnx RU3KV
+STM32: Fixed CW Multi-decoder operation during transmission, Tnx BI4JWL
+STM32: Wolf-100D: Fixed EXT PTT signal operation for EXT PA Mode, Tnx SP7MFR
+STM32: Split the "TX AGC Clipping" setting into SSB and AMFM groups, Tnx UR5MBQ
+STM32: Displayed ATU status for the Large theme, Tnx SP7MFR
+STM32: Added "CAT Transverters IF" calibration, allowing the transverter IF frequency to be transmitted over CAT, rather than the VFO frequency, Tnx R6DLC
+STM32: Long-pressing the "REPIT" function key opens the offset settings menu, Tnx E72X
+STM32: When repeater mode is active, the offset status and direction are displayed on the main screen, Tnx E72X
+STM32: Added "SD TX Record Level" calibration, which adjusts the recording level of the user's signal to the memory card during transmission/macro recording, Tnx R6DLC
+STM32: Wolf-2: Fixed a Self Test tuner error when the VHF band is selected, Tnx RT5D
+OTHER: Developed the WolfIntf.dll DLL module for pairing the Wolf transceiver with the Afreet CW(RTTY) Skimmer Server software (48 kHz IQ + CAT via OmniRig)

Experimental STM32 14.2.0 and FPGA 14.1.0

+STM32: Enabling low ATU inductance by default at 24/28 MHz is currently limited to the Wolf-2 firmware version only.
+STM32: DIGI sidetone level can now be reduced to zero, Tnx RC3RF, R3TJL
+STM32: FFT Automatic and FFT Manual menu items have been moved to a single-page area of the setup screen, Tnx R5ZX
+STM32: Added experimental "CW Multi-Decoding" mode, allowing decoding of up to 10 CW signals in the sweep band simultaneously.
+STM32: Added the ability to select an NTP server address, Tnx R3TKS
+STM32: FT8 displays a shortened locator instead of the full one, Tnx R3TJL
+STM32: "Repeater offset" items are adjusted in 10 kHz increments by the secondary encoder and in 1 kHz increments by the primary encoder.
+STM32: The selected "Repeater offset" is saved to memory channels, Tnx PY2MDA

+STM32: Added a larger "Large" design theme for people with low vision, Tnx RU3RQ
+STM32: Started working on localizing text into different languages; Russian fonts and partial translations have been added
+STM32: Added Chinese translation, Tnx BH7FFB, BD6MM
+STM32: WSPR beacon uses antennas saved for bands, Tnx RU4PN
+STM32: Improved algorithm for enabling ATU bypass, Tnx R7KBI

Experimental STM32 14.1.0 and FPGA 14.1.0

+FPGA: Bug fixes, Tnx WC1J
+STM32: Wolf-2: Long press of the ANT button turns on the additional RXANT receiving antenna, Tnx RM0A
+STM32: Added "ATU AutoRun" setting, which allows the ATU to be automatically turned on at SWR > 1.5, Tnx UA3RU
+STM32: "Input Auto Switch" setting can now work in conjunction with "Sequencer support", Tnx RU3RQ
+STM32: Wolf Interface improvements, Tnx R3TLI
+STM32: Wolf Interface connection is now via the STM32 programmer connector. The SCL line is connected to SWDIO, the SDA line to SWO, Tnx R3TLI
+STM32: Fixed an issue with CW self-checking when the CW decoder is active
+STM32: When PA Mode is enabled, the current power and mode are highlighted, Tnx R1CDZ
+STM32: VHF C-meter point correction now works from 30 MHz instead of 60 MHz, Tnx R1CDZ
+STM32: Wolf-2: The tuner activity signal is routed to the U2-Drain 0 pin of the chip to implement ATU bypass, Tnx R3TAR
+STM32: The DIGI and VOICE sidetone levels are unlinked from the current master volume level, similar to the CW sidetone, Tnx RM0A
+STM32: By default, a small inductance is enabled on bands >24 MHz to compensate for tuner reactance. A hard reset is required for use, Tnx R3TJL, Dire Wolf
+STM32: Improved saving of filter presets via function buttons, Tnx R3TJL
+STM32: "Linear Pwr Control" calibration has been renamed to "Power Control" with a choice of DAC signal level control options: power or amplitude adjustment.
+STM32: Separated RX equalizers for SSB, AM, and NFM, Tnx Dispatcher
+STM32: AGC status is now saved by mode, not by band, Tnx RN9RQ

Experimental STM32 14.0.1 and FPGA 14.0.1

+FPGA: Fixed high-frequency spike after transfer completion, Tnx Oleksandr, BH7FFB
+STM32: Fixed an intermittent issue with coordinate calculations when switching satellites
+STM32: Improved ATU algorithms to improve performance in low-frequency bands, Tnx R3RM, RY7Z

+STM32: During ATU tuning, power readings are limited to the "Max Power Tune" value due to incorrect measurements at high SWR, Tnx R3TAR
+STM32: When possible, the ATU first tries to adjust the current values rather than restarting the cycle from scratch.
+STM32: The Secondary COM RTS line is disabled by default in calibrations.
+STM32: Added a calibration to compensate for poor SWR meter isolation, which causes forward wave leakage into the reverse wave sensor.
+STM32: Added "SWR Hold Peaks" setting, allowing the power meter to hold at its maximum values, Tnx Oleksandr
+STM32: Wolf-1: Improvements to "Transverter only TX" mode, Tnx R9MDA
+STM32: Added the ability to disable any HF band via calibration, Tnx RA6KE
+STM32: Accelerated Tune carrier power ramp-up with EXT PA Mode active and RF Gain calibrations significantly lower than without PA mode, Tnx SP7MFR
+STM32: Added "RX Filter Margin" setting, which adjusts the RX filter width in RTTY mode relative to carrier frequencies, Tnx RM0A
+STM32: Eliminated a click in the speaker when switching TX->RX in CW, Tnx R3TJL
+STM32: "CW Memory debounce" reduced to 80ms by default. Don't forget to install capacitors on the key line if they aren't available on the motherboard, Tnx R3TJL
+STM32: Fixed saving calibrations when closing the menu with a long button press, Tnx R8QBE
+STM32: Tiles with current sensor readings are now displayed on the power/SWR calibration menu screens, Tnx R3TLI
+STM32: The "EQ" button is not illuminated in mods that don't use an equalizer.
+STM32: Fixed the "Balance" function button on the Tnx SP7MFR.

Stable STM32 13.7.1 and FPGA 13.6.0-2

+STM32: Fixes for mirror reception and BreakIn errors, Tnx SP7MFR

Experimental STM32 13.7.0 and FPGA 13.6.0

+STM32: RX equalizer no longer contributes to sidetone sound generation with Break-In disabled, Tnx SP7MFR
+STM32: Wolf-1: Restores the NONE function for customizable buttons, Tnx PY2MDA
+STM32: Increased the number of WiFi access points available for selection in the menu, Tnx SP7MFR
+STM32: Added "Use Keyer for RTTY" setting, allowing RTTY keying from MMTTY and similar programs via the CW COM port without using the audio input, Tnx RM0A
+STM32: Added self-checking in FM mode, Tnx UR5MBQ
+STM32: Dual RX control duplicated in the main menu
+STM32: Added "A Only" and "B Only" modes for Dual RX Type, allowing you to listen to only one VFO without stopping the dual receiver.

+STM32: Added "Dual RX IQ" setting, specifying the source (VFO) of the IQ signal to send to the USB audio card in Dual RX mode. Allows you to set up IQ monitoring on a fixed frequency without switching from the main VFO. Tnx RU3RQ
+STM32: Improved checksum verification in saved settings, which could lead to read errors
+STM32: Added NR/NB disable buttons to dialog boxes; the old buttons now only enable, but do not disable
+STM32: Small dialog boxes open directly at the click location
+STM32: Wolf-Mini: Removed duplicate SMPL buttons from the list of preset function buttons
+STM32: FT8/FT4 transmit frequency is now saved in the settings and can be changed in the menu (not just while the decoder is running), Tnx BI2QDM
+STM32: Default calibrations for the EXT port have been brought into line with Band-Data, Tnx RM0A
+STM32: The close button in the menu displays the name of the current subsection, Tnx RM0A

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