

## RES (Radio Editing Software) Release Notes

Version 5.8.41 (11/06/24)

### Fixes:

Fix patch key index off by one

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Version 5.8.40 (10/22/24)

### Fixes:

Update programmable buttons' ability to be assigned to toggle switch

Fix patch key combobox changing unexpectedly

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Version 5.8.38 (07/30/24)

### Features:

Add system throughput mute timer

Widen range of bluetooth mic gain

Allow BKR5000 to have internal mic select, AGC enable, and AGC gain

Enhanced roaming is now checked by default

### Fixes:

Fix zone list collapsing

Fix copy/paste operation for systems

Allow RES to write to a radio when it is locked up from "Error 2: Invalid Params File"

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Version 5.8.37 (03/25/24)

### Features:

Support enable accessory cable TX override for BKR9000

Adding system alias

### Fixes:

Fix Excel import/export

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Version 5.8.36

(02/06/24)

Features:

Add checkboxes to select which system is unlocked by the generated child key  
Allow multiple USB loads to unlock systems  
FES support for BKR9000 top display selection

Fixes:

Fix opening a .neo file by double clicking in file explorer  
Remove GPS feature disable conditions

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Version 5.8.35

(12/28/23)

Features:

Add full spectrum scan table

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Version 5.8.34

(12/09/23)

Fixes:

Add New File button  
Remove OTAP button  
Fix new file creation bug  
Improve new wizard layout

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Version 5.8.33

(12/03/23)

Features:

Blank screen default view in RES  
Default to multi-channel view  
Add keypad mute support  
Allow user to select band when converting from multi-band

Fixes:

Allow multi band radios to have the All band option chosen  
Only change out of band frequencies to the default  
Remove battery life from menu item and function button  
Remove evacuation tones from main menu and programmable buttons lists  
Remove man down

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Version 5.8.31 (10/12/23)

Features:

Add BKR9000 high and low power selections for each band  
Update button assignment images for BKR9000

Fixes:

Fix loading the phone number list entries  
Fix BKR9000 band type

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Version 5.8.30 (08/28/23)

Features:

Adding BKR9000 uniboard and daughter serial numbers to FES  
Adding VHF, UHF, and 700/800 disable options to FES  
Fixing file open dialog handling a missing path in FES

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Version 5.8.28 (06/22/23)

Features:

Add BKR9000 mic AGC enable and gain level options  
Change BKR9000 internal mic select default to automatic

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Version 5.8.27 (05/16/23)

Features:

Add internal mic select for BKR9000

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Version 5.8.26 (05/04/23)

Features:

Add LLA Keys Manager tool  
Hide man down panel if no man down switch in radio

Adding internal and external mic gains  
Add maximum volume setting  
Change function button name from RSM Speaker Attenuation to Speaker Attenuation

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Version 5.8.24 (02/05/23)

Features:

Expand BKR9000 700/800MHz Band Tx Frequency Range  
Add encryption level provisioning in FES  
Add Wi-Fi enable in FES  
Add noise cancellation in FES

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Version 5.8.21 (05/19/22)

Features:

Expand developer mode allowed email extensions

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Version 5.8.20 (03/09/22)

Fixes:

Fix the new project wizard causing a crash

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Version 5.8.19 (03/04/22)

Features:

Add ability hide columns in the multi channel view

Fixes:

Fix writing codeplug to mobile radio through a control head  
Fix code guard combo box text editor

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Version 5.8.18 (01/18/22)

Features:

Fixes:

Fix crash when opening new project wizard

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Version 5.8.17 (01/06/22)

Features:

Use the host system's locale decimal separator in numerical fields

Fixes:

Upgrade log4j version to 2.17.1 to avoid moderate level Log4Shell vulnerabilities

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Version 5.8.16 (12/15/21)

Features:

Fixes:

Upgrade log4j version to 2.16.0 to avoid the Log4Shell vulnerability

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Version 5.8.15 (11/2/21)

Features:

Add support for version 2 of the RSM accessory

Add support for all band radio type

Fixes:

Fix emergency hot mic selection logic

Remove requirement that MSB of ESN is 0x10

Remove call alert reset time

Remove keypad mute function

Remove evacuation tone sequence

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Version 5.8.14 (3/19/21)

Features:

Fixes:

Allow GPS Peer Location on top display  
Allow GPS Peer Location to include an alternate display option on the main display  
Force GPS Peer Coordinates to the main display option and disable the alternate when selected  
Use 'Selectable' as a Unit Call Encryption selection instead of 'Use Channel Setting'  
Allow only one system priority to use the main channel  
Allow only one priority to use the main channel in the Zone Settings

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Version 5.8.13

(3/3/21)

#### Features:

Added voice announcement priority global parameter.  
Added scan list global conventional button to allow editing scan settings of all conventional channels.  
Added scan list option to conventional menu items.  
Added scan list option to conventional programmable buttons.

#### Fixes:

Removed the GPS display options from the top-display choices.  
Disabled alternate display option if a GPS display option is selected on a main display line.

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Version 5.8.12

(2/16/21)

#### Features:

Allow all valid DTMF tone entries (i.e., 0-9, A-D, \* and #) where applicable

#### Fixes:

Hide off-hook mute all global parameter if non-mobile radio is selected  
Fix bug causing Zone Clone to fail whereby the dialog would never appear  
Fix bug of TX High and Low Power settings not retaining selected value

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Version 5.8.11

(1/29/21)

#### Features:

#### Fixes:

Allow a 6 character number to be entered for a two tone frequency  
Remove top alias from parameters  
Allow all display options for the top display  
Add voice announcement gain global parameter

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Version 5.8.10 (1/18/21)

Features:

Provide initial support for the BKR-9000 multi-band radio.

Fixes:

Fix hidden confirm dialog for zone clone window.  
Ensure proper validation of CxCSS entries after editing is finished on conventional channels in the multi-channel view.

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Version 5.8.9 (11/30/20)

Features:

The batch programming RSI fields behave more like the RES RSI fields (e.g., "N/A" displayed when values are out of range, etc.).  
The batch programming log now displays "N/A" if the RSI value is out of range.  
The batch programming dialog now displays the current parameter file correctly in a separate field; it has been removed from the title bar.  
The OTAP dialog now displays the current parameter file correctly in a separate field; it has been removed from the title bar.

Fixes:

Ensure proper validation of CxCSS entries after editing is finished on conventional channels in the single-channel view.  
Always default the BKR-5000 channel collar switch to perform zone-select after a file load to improve reading older .neo files.  
Removed "Automatic" selection from the trunking system Tx power type as the radio firmware does not support RSSI-based power changes.  
Corrected a bug whereby various pop-up windows (e.g., batch programming) could access unallocated memory thereby resulting in a crash.  
The batch programming RSI ID is validated before and after auto-increment.

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Version 5.8.8 (10/8/20)

Features:

Fixes:

Provide detailed message of possible file-lock when opening a RES file in Batch Programming.

Fix logic preventing OTAR data from being read from a radio.

Fix maximum limits on RSI text boxes.

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Version 5.8.7

(7/22/20)

Features:

Fixes:

Check RSI and Message Data fields for invalid values -- display "N/A" accordingly.

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Version 5.8.6

(6/26/20)

Features:

Add Top Display Text to keypad lockout options for BKR-5000; it should hide/show based on radio-type selection.

Limit top display options to ones that will fit for BKR-5000: Channel Label, Channel Number, Zone Number + Channel Number, and Zone Number.

Fixes:

Correct Excel export preferred site number: in both Announcement-Groups and Talk-Groups the preferred site list number was not correctly showing "None" for index 0.

Change Excel importing of Announcement-Groups to behave like Talk-Groups whereby "None" is now case-insensitive, and 0 is correctly assigned in the event none is imported.

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Version 5.8.5

(5/14/20)

Features:

Fixes:

Use default RES preference file if existing one is not readable

Excel Import Wizard: process zone sheets when no pick lists are selected

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ANNOUNCEMENTS:

This release is the result of combining features and fixes introduced in the 5.6.x version of RES into that of the 5.8.3 version that were previously not included. It is meant to be the single version of RES used to program all products moving forward.

Features:

Update firmware and parameters version limits: minimum firmware read/write version = 5.5.0, maximum parameter file version = 5.6

- firmware version can be overcome via options->firmware restriction menu option

Added in the enhance scan with zone parameter

Warn user that USB keys are not supported on Linux

Updates the Global->Conventional panel in RES

Automatically focuses on search text when tabbing away and coming back

Adds GPS Pre Tx Trigger to RES

Adds GPS Impolite

Removes MSAT from trunking main menu

Log all excel import values that aren't found and warn the user

Remove External Radio

Adds SNDP Derogistration to Excel Import

Adds Code Plug Version to global parameters

Removed 'Quick Status' from menu search

Changed 'Selectable' to 'Use Channel Setting' for unit call encryption selection

Recent file list updated to allow ',' in filename

Adds support for specific searches in Parameter search using quotation marks (single or double)

Alphabetize display line selections

Deprecated Mobile I/O enable parameters

Added prompt to warn users who program Auto Keypad PTT that this will override programmed keypad functions

Enable Auto-keypad PTT if Global DTMF Live Dial is enabled

Adds Trunking SNDP Derogistration Parameter

Changed logic to look at all systems, not just current system, for search

Move top display line into the display panel

Multi channel view now displays channel label and index on upper right portion of table to help user better navigate and use the multi channel view

Added auto-save feature to batch programming for log files

Systems are no longer allowed to be moved up/down

Upon update, users are prompted with the changes made in this version. The help menu has also been reorganized for better access

Batch Programming now sets title based on codeplug opened

Batch Programming now gets a copy of the parms RES has opened

Added File Lock to neo files to prevent other apps from modifying them while opened

Removes 'TX Inhibit' from search and from button options

Added 4,6,8,10,12 hour time intervals to mobile power down.  
Added Mobile Display Disabler application  
Added Mobile I/O Call Alert Feature  
AHS Handset Offhook Mute All  
You can now use the 'del' key to delete table entries  
Neo files can now be dragged and dropped to open  
Added new GC parameter: Ignore transmissions from own UID  
Added global DTMF Live Dial  
Moved all windows under the 'tools' panel. Renamed 'tools' panel to 'utilities'  
Global Default Squelch added & Conventional Channel Squelch exposed to user  
Add support for AES keys  
Added offhook talkback to GC  
Added in evacuation tone feature to both menu and buttons for conventional only

#### Fixes:

Fixed read issue with OTAP  
Fixed highlight color of table rows  
Pop-up messages now show up in front  
Various internal updates  
Fixed channel parms being set before picklist imported  
Changed name of 'OTAR Channel' to OTAR/Data Channel'  
Do not error out if unable to write the preference file  
Channel comboboxes now update properly  
Hide GPS distance change and GPS host request until implemented  
Autosave history window always on top blocked warnings and other windows and does not appear to be necessary  
Do not force an update for channel view selection  
Fixes bug where RES wouldn't let you reopen an open file  
Changed Window to Utilities for auto save history error  
Changed Versions Manager to Version Info String for window  
Updated RES Icon  
Batch Programming now ends connection threads when closed  
Baud rate now reads/writes properly  
Do not show duplicate errors per zone  
Removed Mobile I/O enables from search (deprecated)  
Better handling of null strings  
Try to prevent the registration window from popping up on read failure  
Updates searched menu items so that they go with their respective radio types  
Fixes read radio bug where RES would not receive current parameter  
Disable RSM emergency flash LED checkbox if P25 system is Rx only  
Fixes key index changing bug  
Fixes poor wording of Soft Power Down Timer  
Round frequencies to 1.25 kHz multiples  
Moving channels multiple spaces fixed  
Minor tweaks to contact software support email  
Tone Remote Interface is now mobile only  
Fixed caret placement  
Remove auto-Jira ticket generation  
Switching views now selects the proper channel on any zone

Talkgroup is now selectable in multi-channel view  
Enable write attribute before attempting to open file  
Fixed issue with opening a file after saving  
Conv Encryption keys menu and softkeys don't match  
Fixed error being thrown when reading from Batch Programming  
Fixed sizing of RS485BaudChanger  
RX only trunking system additional options not disabled  
Zone clone multiple zone window does not open.  
Remove Mahi and Wahoo radio types and multiband option  
Fixes Baud Rate Changer allowing baud rate to be changed on portables  
Fixed UI for Mobile ignition low timer  
Fixed programmable buttons  
Fixed searchable parameters  
Fixes to ensure additional ignition timer values are valid  
Fixed barcode scanning issue  
Changes to accomodate new ignition line lower timer in RES. Search/excel added.  
BRP would not increment radio name if no digit was at the end  
Added missing parameters to Excel import  
CParametersCC now limits frequencies properly for 700/800 band  
Fixed frequency updating issue

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Version 5.8.3

(4/2/20)

#### Features:

Added in dedicated zone/channel for GPS data  
Adds Daylight Savings time parameter  
Added date and time source and date and time manual override parameters

#### Fixes:

Added in missing search parameters  
Moved Time Zone selection into date & time panel  
Remove GPS lines from top-display combo boxes

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Version 5.8.2

(3/22/20)

#### Features:

Add GPS Peer Coordinates to the conventional and trunking display options  
Added support that allows the user to enable / disable GPS

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Version 5.8.1

(2/23/20)

Features:

Add keypad mute to menus and buttons

Fixes:

Add top-label to multi-channel view table

Show/hide the top-display parameters in multi-channel view

Adding top-label to Excel import parameters

Fix bug not allowing Enhance Scan with Zone Scan to update correctly

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Version 5.8.0-rc9

(2/5/20)

Features:

Add quick status button choices

Add voice annunciation mute to menus and buttons

Add Top Alias to conventional and trunking channels

Fixes:

Make top display default to channel label instead of none

Correctly set channel collar to zone-select

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Version 5.8.0-rc8

(12/27/19)

Features:

Added Volume Adjust Tone

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Version 5.8.0-rc7

(12/9/19)

Features:

Enhance Scan: add zone scan to enhance scan and toggle switches

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Version 5.8.0-rc6

(11/22/19)

Fixes:

Fix Top Display configuration on trunking channels

Disable FES checkboxes and radio buttons when it is opened from inside RES

## Remove Top Display Bottom Line Support

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Version 5.8.0-rc5 (11/4/19)

### Features:

Add RSM related conventional/P25 Trunking Main menus  
Add BKR5000 RSM programmable buttons

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Version 5.8.0-rc4 (10/23/19)

### Fixes:

Consolidate Codeplug parameters

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Version 5.8.0-rc3 (10/11/19)

### Features:

Add flip top-display option for BKR-5000

### Fixes:

Allow open Baud Changes  
Consolidate Codeplug parameters  
Remove ability to program Bluetooth to buttons/menus on BKR-5000 (no hardware support)  
Add physical unit to the Soft Power Down Timer Label

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Version 5.8.0-rc2 (9/16/19)

### Fixes:

Assign channel collar Zone Select for BKR-5000

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Version 5.8.0-rc1 (9/13/19)

### Fixes:

Reassign internal Radio Id enumerations

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Version 5.8.0-rc0

(9/12/19)

Features:

Support for Radios BKR-5000

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Version 5.5.9

(6/27/19)

ANNOUNCEMENTS:

As of April 8, 2014 Microsoft stopped supporting Windows XP and therefore it is no longer an officially supported platform. Users may still continue to use RES on Windows XP at their own risk, but we can no longer provide complete guarantees for RES on Windows XP, since the OS is no longer being updated by Microsoft.

Features:

Allow users to read / write from any firmware version

Allow RES 5.5 to read encrypted preferences from 5.6

Remove auto-update feature

Fixes:

Fixed rounding of non-standard frequency values assigned to control channels.

Fixed default Zone toggle to Zone 1 (instead of Zone 2)

Fixed Exception when attempting to open 5.6 codeplug

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Version 5.5.3

(11/10/17)

ANNOUNCEMENTS:

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Features:

Lightning Light driver is now installed when RES is installed

Exporting in Audio Converter automatically sets the Voice Annunciation directory in RES

Batch Programming can now change the radio type

Batch Programming can now save codeplugs with either the ESN or serial number  
Multiple rows are now selectable in Multi-Channel view by using shift-click or ctrl-click  
All tables now allow users to move entries up and down using ctrl-up, ctrl-down or the right-click menu.  
Added ability to close a codeplug without closing RES

#### Fixes:

Fixed issue where double-clicking to open a .neo file did not update the radio type  
Fixed issue where RES would not warn the user if they attempt to save a file that is open in another program  
Extended Channel ID Tx Offset entries to take 5 decimal places instead of 3  
Fixed issue where Batch Programming would lock up when trying to use a radio name of all numbers  
Removed various menu/buttons that are not programmable on certain radio types  
Fixed issue where importing Excel file with extremely long labels would not work  
Fixed issue where an exported Excel sheet with Trunking channels could not be re-imported  
Fixed Graphical issue where Batch Programming log colors would not reset

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Version 5.5.2

(7/6/17)

#### Features:

Added Child Key Maker (Window -> Child ASK Maker)  
Added option to turn off the Auto-update check (Options -> Check for update on startup)  
Added Text-To-Speech capabilities in Audio Converter / Voice Annunciation  
Added feature to set all systems & RSI to the same value (tools -> Set Global Radio ID...)  
PC Access password now restricts write  
All parameters are now searchable (accessible through keyboard shortcut "ctrl+F")  
Reworked excel import / export to dynamically find columns to make future excel exports backwards compatible  
ASK Implementation for Hardened computers

#### Fixes:

ESN now loads properly when opening a .neo file via double-click  
KNG2 codeplugs are now saved/loaded as KNG2 (not KNG) codeplugs  
Fixed auto-save functionality with newer codeplugs  
Fixed display issue with changing zone indexes  
Copy/paste directly from excel into text fields now works properly  
Trunking Channel Identifier Base Frequencies can now be set outside of the band restrictions  
Fixed issue where Software encryption keys were not editable until key data was

entered

Fixed issue where RSI values were not displayed properly

File choosers & Warning messages can no longer be clicked past

Fixed issue where Batch Programming was logging incorrect values while performing Express Programming

Fixed issue where in some cases the receive codeguard would change to the transmit code guard randomly

Various fixes with Dual Mode Scan table

Various fixes with 'save as...' functionality

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Version 5.5.1

(4/6/17)

#### Features:

Ability to open multiple instances of RES to compare/edit multiple code plugs at once

Zone Clone can now chose where the zone will be cloned to on the destination radio

Crypto Variable entries are now viewable until submitted to the table

RSI values are now saved within the .neo file

All Zone settings are now in a separate window to provide more space for multi-channel view

Expanded Audio Converter support to multiple .wav formats

Ability to copy/paste multiple channels across zones (and on multi-channel table)

Ability to type in the Trunking Talkgroup you wish to set on Trunking Channels

Added Recently opened file list (located in File -> Recent)

Excel Export/Import of Channels now assigns a system number to each channel

Updated Audio Converter help document

ESN is now saved with every code plug (instead of only with code plugs that have trunking systems)

Excel Import now handles both decimal & hexadecimal values for Trunking System Talkgroups

Updates & Improvements to Search feature

Developer Mode now allows disabling of Trunking System Receive Only parameter

Adding log clearing functionality to Batch Programming

Screens with resolution down to 1200x900 are now supported

Added Audit information, which includes last written System key, date, time, etc.

#### Fixes:

Fixed System ID not showing in Trunking System Sites Table

Fixed issue with setting conventional channel frequencies in Multi-Channel View

You can now paste channels into empty zones

Fixed Bug where Excel import of trunking channels did not accept blank cells

Fixed issue where Batch Programming would lock up with USB System Keys

Improved performance with codeplugs containing large scan lists

Various UI Improvements

Low/High Power for conventional systems are now defaulted properly based on band

setting

Fixed rare issue where RES would ask to register again

Fixed rare issue where selecting a column in multi-channel view caused the table to scroll

Fixed issue where programmable buttons could not be viewed properly in NeoVision

Fixed rare issue where Batch Programming would write duplicate system list entries

Fixed password-restricted USB keys not being able to be opened

Fixed issue with non-consecutive channels in multi-channel view

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Version 5.5.0

(1/25/17)

Initial version release

Added Batch Programming Application

Added Audio Converter Application

Name change from Radio Options Control to Feature Editing Software

Added all necessary parameters for firmware 5.5.0

This version is compatible with firmware 5.5.0.

Open code-plugs (.neo files) that are 5.0.0 or newer, you can still open older code-plugs but parameters may not be converted correctly.

Read radios that are 5.0.0 or newer ONLY

Write to radios with firmware versions 5.5.0 ONLY

Converters code-plugs that are 5.0.0 or newer to 5.5.0

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