

General Remarks:

NV Series Software Version 4.3 is a **SIGNIFICANT** Software update suitable for all Nautel NV-Series transmitters. We recommend upgrading your transmitter(s) to this latest release DURING NEXT REGULARLY SCHEDULED SITE INSPECTION.

You can download NV Series Software Version 4.3 [here](#).

Software Upgrade procedures can be found in the *Non-Standard Maintenance* section of your *Operations and Maintenance Manual*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

This release marks a significant shift in our development process that should streamline future updates. Some minor changes may be undocumented; our process changes will prevent that from happening in the future. Further details are below.

New Features:

NV software version 4.3 introduces a change in Nautel's philosophy surrounding local vs. remote operation. Rather than control being limited to remote or local operation, local operation is now always available; remote operation can be toggled. See Local-Remote Functionality.pdf (also available on the FTP site) for further details.

This release also introduces a new SNMP agent, one which adheres correctly to the SNMP standard. Issues surrounding invalid GETs, the inability to walk the OID tree, and including multiple commands in a single packet have been resolved. As well, the MIB data has been cleaned up substantially. As a result, SNMP password validation has become more robust in NV SW 4.3. Note: SNMP Client applications must be configured to use the Read and Write Community passwords as specified in the AUI. Failure to do this will prevent remote control of transmitter via SNMP.

Improvements / Enhancements:

- The RF Modules page for FM products has been modified to improve TX responsiveness when viewing that page.
- Remote Output logic levels now change in realtime on the Remote I/O page.
- Cleaned up mode-dependent preset field availability for a number of fields.
- Expanded the number of RDS Alternate Frequencies from 7 to 25.
- Increased the hysteresis window of the "IPA Bias Balance Recommended" alarm to prevent event log filling when the total reject power is jumpy around the alarm threshold.
- Adjustments to the Power Symmetry setting through the controller menu will now persist over power cycles.
- Improved exciter preset synchronization algorithms.
- Improved user feedback during the upgrade process.
- The MPX SCA meter now reads as N/A when MPX is in use as the main audio source.

All Nautel Software Releases are cumulative and contain features and fixes from prior releases.

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Removed / Retired Features:

- The ability to individually enable or disable SNMP traps has been removed. It is still possible to enable or disable traps as a whole.
- "Transmitter RF Off" has been removed from the Notifications alarm list. It is not technically feasible with the current software topography, and should not have been included in the first place.

Bug Fixes:

- User passwords can once again be changed without error.
- Fixed an issue with incorrect scrolling in the Alert box.
- Cleaned up some Phone Home connect/disconnect issues.
- Only the top-most error message on any given AUI page will now be shown at the bottom of the page.
- Corrected Heatsink Temperature meter upper limit.
- Minor UI consistency changes.
- Fixed a typo in Critical Parameters "Settings" output.
- Resolved some display issues around available selections in the remote I/O screen.
- Corrected available preset fields when Audio Player->AES2 is selected as the audio source.
- Renamed 'Main Mod Adjust' option to read 'Main Audio Gain Adjust'.
- Renamed 'Secondary Source' to 'Audio Player Source' in the presets when the audio source is 'Audio Player->AES 2'.
- Renamed preset field 'Dynamic' to 'Dynamic PTY'.
- Renamed the Remote I/O->Analog Outputs columns for clarity.
- The Mod Loss Timeout action 'None' has been renamed to 'Alarm Only', to more accurately reflect actual behaviour.
- The RDS preset Dynamic PTY options have been renamed from 'Enabled/Disabled' to 'Dynamic/Static'.
- The RDS preset Stereo options have been renamed from 'Enabled/Disabled' to 'Stereo/Mono'.
- Fixed several alarms that would log with incorrect names.
- The RF Module summary screen will now properly display 16 modules simultaneously on the local AUI.
- The "Meter Scale Full" column on the NV Remote I/O->Digital I/O page now populates properly.
- Adjusted the allowable AUI limits of the Main/Backup Audio Gain Adjust field to match the actual limits.
- The Custom Input Severity drop-down box under Remote Inputs no longer gets stuck open.
- Pressing the "Apply" button within the Remote Inputs page of Remote I/O no longer causes an error popup.
- Fixed a minor error that could occur if one user was looking at Remote I/O while another was modifying it.
- Incorporates several RDS fixes.
- USB devices should now always mount properly.
- Local/Remote LEDs on the controller board now match Local/Remote settings in the AUI.

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- All physical buttons on the controller now function when the transmitter is in remote-enabled mode.
- Streamlined summary alarm behaviour to eliminate some nuisance alarms.
- Corrected the inverted labels for the Overall Summary Remote I/O selection.
- Unified analog output display data across all FM products.
- Resolves erroneous appearance of Exciter "CRC Table Corrupt" alarm.
- The 'Capture Alarms' feature no longer takes longer when there are no alarms than when there are.

Installation Considerations:

This Software update will take approximately 30 minutes, and may require multiple reboots. You will be OFF AIR during the upgrade process.