

## General Remarks:

NX Series Software Version 4.6 is a **SIGNIFICANT** Software update suitable for all Nautel NX-Series transmitters. We recommend upgrading your transmitter(s) to this latest release DURING NEXT REGULARLY SCHEDULED SITE INSPECTION.

You can download NX Series Software Version 4.6 [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.

General areas of improvement include: significant SNMP improvements and a newly revamped B+ control algorithm. Further details are below.

## New Features:

This release 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. Some SNMP reliability and connection issues have also been resolved.

As well B+ power supply's control algorithm has been overhauled. This is a significant change that provides numerous improvements including minimizing the occurrence of B+ related events, providing B+ power supply stability under all operating conditions, and decreasing the power ramp up time of the transmitter.

## Improvements / Enhancements:

- Eliminated a number of nuisance alarms, primarily B+ related.
- Users can now make scheduler rules that start or end in January.

## 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.

## Bug Fixes:

- Resolved an issue where the transmitter's output power could be reduced to near-zero if a High B+ Shutback occurred during an SWR Shutback event. When this occurred, the transmitter would take a significant amount of time to recover to the power setpoint.
- Upper and lower sideband adjustments now operate independently, rather than the upper sideband control affecting both.
- The B+ Limit will now reset to 430V on every power cycle.
- Low B+ shutdown no longer occurs on exciter changeovers.
- Improved reliability of High B+ Shutback alarm logging.

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

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- Cleaned up some Phone Home connect/disconnect issues.
- Several NX meters that were not being logged correctly are now being logged correctly.
- The Host Not Responding alarm now displays correctly in the AUI logs on arm-based systems.
- Fixed an issue with incorrect scrolling in the Alert box.
- Only the top-most error message on any given AUI page will now be shown at the bottom of the page.
- Resolved a number of issues around creating/editing Configurations and local vs remote-enabled modes on NX.
- Corrected Heatsink Temperature meter upper limit.
- Minor UI consistency changes.
- Fixed a typo in Critical Parameters "Settings" output.

### Known Issues:

None

### Installation Considerations:

This Software update will take approximately 20 minutes, and may require multiple reboots. You will be OFF AIR during the upgrade process.