Nautel Software Bulletin

November 16, 2012

Nautel NVLT Series V3.0.3 Release Notes

If you have been advised by our customer service department to upgrade or if you have experienced problems addressed in this software release please proceed with the download.

The most significant improvements with the latest version include:

Version 3.0.3 – Released November 16th

- Resolved issue where the Main and SCA Audio Low Threshold functions did not work when using the NAE107 exciter
- Resolved issue where the "Turn-On Delay" function did not work while operating off of a UPS.
- Resolves an issue where the Preset Index value was shown incorrectly (e.g. 409#) when logs were copied and pasted
- Resolved multiple issues with the SNMP function, mainly related to Traps.
- Resolved issue with the SNMP function where a continuous "Low Audio" alarm was being detected in error.
- Resolved an issue where the Forward Power set-point would go to minimum when the "Forward Power" banner meter was double-clicked

Follow the link below for the latest files. Files may be safely transferred using flash drives or "copy and paste".

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- This release changed the Remote Active Exciter output status control reference from "Output Low When True" or "Output Low When False" to "Output Low When A" or "Output Low When B", with "Output Low When B" set to be the default.
- Changed the Analog Left and Right meter full scale deflection from +30dBu to +20dBu; to optimize usage of the meter scale.
- Resolved an issue where an erroneous PA Fail alarm would be displayed and logged when an associated power supply was extracted then re-installed.
- Resolved a rounding/scaling issue with the TCXO Calibration (Offset) value

Version 3.0.2 – Released July 3rd

- This release now supports dual exciter operation. This includes UI and AUI menu updates to accommodate dual exciter control and monitoring; such as the Changeover menu (for configuring the main/active exciter and changeover settings), Remote Reset for the Main and Standby exciters, Orban Inside and backup USB Audio support for the exciter module (already supported for the controller module), Standby Test (for standby interlock override into user supplied dummy load).

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support@nautel.com

Start an online chat session with Customer Service (7:30 AM – 7:30 PM EST)

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- Updated the streaming options to include Icecast; referenced as "Icecast/Shoutcast".
- Resolved an issue where the "No External 10MHz" alarm was not being displayed in the Status screen when expected, it was however being captured in the event logs.
- Updated the SNMP MIB and Trap alarm references to reflect release associated syntax updates.
- Resolves an Exciter TCXO calibration function issue where the calibration process reversed the offset value; the typical error was always so low that it was never observed to fall outside of the +/-200Hz specification. The Exciter TCXO menu was also updated to allow for +/- ppm entry of the TCXO Offset Value (was TCXO Calibration Value) in place of a non-intuitive value.
- Changed the Spectrum Analyzer Source name for "Internal (Hybrid)" to "Internal (Post EQ)" to be more intuitive.
- This release now supports configuring the transmitter via the UI, to acknowledge operation off an external UPS; this is mainly for correct ac phase loss alarm notification
- Resolved an issue where the Controller CPLD version was not being displayed
- Updates the associated internal faults that trigger the power supply summary alarms PS Fail (Rectifier or Fan Fail), PS Ac Fail (Ac Fail or Shutdown), PS High Temp (High Temp Shutdown) and PS Missing (PS removed or Loss of Serial Comm.).

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- Corrects Controller meter name "RF Drive Splitter Temperature" by removing the leading "High" text.
- Resolves issue where the Internal SCA 1 & 2 calibration value range was corrupted, limiting entry to 0dBu only; it now accepts the full -12dBu to +12dBu range.
- Resolves issue where the Internal SCA 1 & 2 were not being shown in the local UI calibration screen.
- This release now allows the local UI to log Exciter, Rack and RF module alarms.
- Resolved an issue where the AUI's Forward Power 'shortcut' loaded the previously typed-in value in error.
- This release re-organized the UI and AUI "User Settings" and "System Settings" menu to be more consistent and intuitive.
- This release eliminates the AUI "Factory Settings" menu and moves the "Audio Input Calibration" screen to the "System Settings" menu.
- This release updated some of the UI and AUI meter and alarm names to be more consistent.
- This release changes the AUI's "External 10MHz" menu buttons from "TRUE/FALSE" to "YES/NO".
- This release changes the default LCD Timeout (backlight) from "disabled" to 15 minutes in order to increase the life expectancy of the UI LCD. This timeout is reset as soon as any UI button is pressed
- Allows for setting of the Remote I/O configuration via the local UI.

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- Resolves issue where the AUI Remote I/O assignments did not agree with the local UI settings; the UI settings were correct as per the desired default I/O configuration
- This release added a few missing meters; they include: +5V-B, PWB Temperature, PA Bias Voltage, Pre-Amp Bias Voltage and Fan Voltage (Exciter & Controller as applicable).
- Increased the allowable "LVPS Voltage" range from 40-53V to 35-53V. The default remains at 40V.
- This release added a few more status/alarms associated with new functions; they include: Turn On Delay status, Standby Exciter Test status, Audio Processor Offline alarm, Audio Processor Output Fail alarm, Licensing Error alarm, In Bias Routine status, and RF Module RF Drive Loss alarm.
- Changed the Presets menu "Other Audio" tab to read "Other Settings".
- Improved the forward power accuracy versus frequency when calibrated at 98.1MHz.
- Resolved issues where the Impulse Response instrument's cursor and the Spectrum Analyzer's Source setting weren't working properly.
- Lowered the LVPS Low alarm threshold to 32V, with the clear occurring at 34V. The associated LVPS Input meters were also updated to reflect these levels for the transition from green to yellow (34V) and yellow to red (32V).

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- Updated the following meter's and Analog Output's full scale deflection value; Forward Power now 9kW (NV7.5LT), Reflected Power now 1200W (NV7.5LT) and 600W (NV3.5LT), Total PA Current now 480A (NV10LT & NV7.5LT) and 240A (NV5LT & NV3.5LT).
- Resolves a bug where the RF module wasn't detecting a loss of RF drive and issuing an alarm.
- This release now enables RF Module shutbacks to be logged
- This release now allows the user to copy and paste (and save) the transmitter Critical Parameters, such as Current Alarms, Current Preset parameters, Current Meters and Current Settings (system configuration, etc...) to an "output only" tab delimited file for logging purposes. The output can be pasted into any supporting program, for example, Excel (.xls) or Notepad.
- This release improves the sorting of AUI meters (pick list and summary screen) for the Controller, Exciter(s), Rack and RF Modules. It also improves the UI meter sorting.
- This release resolves some issues with erroneous event log timestamps
- This release now supports dual exciter operation. This includes UI and AUI menu updates to accommodate dual exciter control and monitoring; such as the Changeover menu (for configuring the main/active exciter and changeover settings), Remote Reset for the Main and Standby exciters, Orban Inside and backup USB Audio support for the exciter module (already supported for the controller module), Standby Test (for standby interlock override into user supplied dummy load).

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