

NVLT Series Software 5.1.0

General Remarks:

NVLT Series Software Version 5.1.0 is a Software update suitable for all Nautel NVLT Series transmitters.

You can download NVLT Series Software Version 5.1.0 [here](#).

Software update procedures can be found in the *Non-Standard Maintenance* section of your *Operations and Maintenance Manual*. If updating from pre-5.Y.Z, refer to IS19001*, *NVLT Series – Updating to 5.x Software and OS Recovery Procedure*. Please be sure to review and understand the complete set of instructions prior to beginning the update.

Added:

- Added support for the VS-TC-HP Transfer Controller.
 - To enable support for the VS-TC-HP, the Transfer Control Enable option has been added to the FPUI's (Front Panel User Interface) User Settings menu.
 - VS-TC-HP-related settings are now shown in the FPUI when Transfer Control is enabled.
 - VS-TC-HP-related meters are now shown in the FPUI when Transfer Control is enabled.
 - VS-TC-HP-related alarms are now shown in the FPUI when Transfer Control is enabled and when the alarms become active.
 - New controller-based Transfer Controller Communications alarm when Transfer Control is enabled and the transmitter loses communication with the VS-TC-HP.
 - It is also logged in the AUI (Advanced User Interface) and the FPUI.

Changed:

- Increased the default RDS Injection Level from 0 % to 5 %.
- Changed the RDS Alternative Frequency range from “87.6 MHz to 107.9 MHz” to “87.5 MHz to 108.0 MHz”.

Fixed:

- The Audio Processor Distortion tab has been restored.
- Changed the maximum power setpoint for NVLT3.5 in the FPUI from 4.150 kW to 4.125 kW to align with the AUI limit.
- Renamed “Exc Low” and “Exc High” to “RF Drive Low” and “RF Drive High” under Thresholds in the FPUI.
- Fixed various typos.

Known Issues:

- `nvlControllerMeterCarrierFrequency` OID is currently unimplemented and GET requests will result in (Snmp No Such Object) error messages.
- AUI will not produce meter and alarms for Racks 3-4 (NV30LT models and above) FPUI reports meters and alarms correctly.
 - Unless VS-TC-HP Transfer Controller functionality is desired, downgrading to NVLT SW 5.0.0 will restore alarm and meter functionality.
- The Transfer Controller Communications alarm does not appear in the Status screen on the AUI.
 - Using Site Control, create a Control Rule as the following:
 - Name - Transfer Controller Comms Fail (or equivalent)
 - Severity – High
 - Delay – Immediate

- Latch – Unchecked
- Log – Checked
- Input - Controller : Transfer Controller Comms Fail
- Logic - Is True
- When the conditions for the Transfer Controller Comms Fail alarm have been met, the equivalent Site Control Rule will be triggered and will appear in the Status screen and will also be logged.
- Changing the Spectrum's Measurement Source to TX Output will instead change it to Internal (FM).
- Performing a GET on the nvtControllerMeterCarrierFrequency OID will result with "(Snmp No Such Object)".
- Blank logs can be created from Active Exciter hardware misconfiguration after the enabling/disabling of HD, which disallows the act of copying AUI logs.
 - Delete logs after configuring the Exciter and enabled/disabling HD to allow the AUI logs to be copied.
- AlarmPaOverTemperature is present in the MIB, however it will return a value of off(0) regardless of the actual alarm status.
 - The transmitter functionality dependent on the alarm is not impaired.
- Summary alarms in FM products are present in the MIB however they will return a value of off(0) regardless of their actual alarm status.
 - The transmitter functionality dependent on the alarm is not impaired.

Installation Considerations:

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