# NVLT Series Software 5.3.0

## General Remarks

NVLT Series Software Version 5.3.0 is a Software upgrade suitable for all Nautel NVLT Series transmitters.

For those who do not require any of the bug fixes/improvements identified below, are satisfied with current transmitter behaviour or require any of the unimplemented features, do not upgrade to this version.

You can download NVLT Series Software Version 5.3.0 here.

## Upgrade Considerations

### Upgrade Procedure

Prior to performing a software upgrade, please perform an evaluation of the transmitter's rack boards (Module Control/Interface PWB) to ensure that the transmitter is eligible to upgrade in its current state using the System Health Eligibility Evaluation Program here.

Software upgrade procedures can be found in *Non-Standard* Maintenance section of your *Operations and Maintenance* Manual. If updating from pre-5.x, 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 your upgrade.

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

Nautel does not recommend downgrading to previously released software.

## Added

- Added support for the NAFP109B/01 power probe changing to 219-6524, Refld Power Probe PWB Assy and 219-6526, DC Refld Power Probe PWB Assy.
  - o Added RF Probe option in the HW Config menu under System Settings in the controller's UI with the following options:
    - ▪ Version 0 (All probes prior to NAFP109B/01)
    - ▪ Version 1 (NAFP109B/01)
  - o Upgrading to GV SW 5.2.0 will set the default RF Probe option to Version 0.
  - o For more information about the NAFP109B/01 power probe, please refer to the *Operating the Transmitter* section of the transmitter's *Operations & Maintenance Manual*.

## Changed

- The Rack 1 Sync Required alarm will now be triggered if the transmitter's controller version is 2.11.0.2 and the backplane version is **not** 1.2.0.1. This will inhibit RF operation.

## Known Issues

- The Transfer Controller Communications alarm does not appear in the Status screen on the AUI (Advanced User Interface).
  - o Using Site Control, create a Control Rule as per 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
  - o 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.
- If a connected VS-TC-HP has Dummy Load Interlock functionality installed, the Dummy Load Interlock Open alarm shows as "unused_2_6" in the controller's UI (User Interface).
- Changing the Spectrum's Measurement Source to TX Output will instead change it to Internal (FM).
- Performing a GET on the nvltControllerMeterCarrierFrequency 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.
  - o 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.
  - o 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.

## NVLT Series Software 5.2.0

### General Remarks:

NVLT Series Software Version 5.2.0 is a software update suitable for all Nautel NVLT Series transmitters.

For those who do not require any of the bug fixes/improvements identified below, are satisfied with current transmitter behaviour or require any of the unimplemented features, do not update to this release.

You can download NVLT Series Software Version 5.2.0 here.

Software update procedures can be found in the *Non-Standard* Maintenance section of your *Operations and Maintenance* Manual. If updating from pre-5.x, 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 your upgrade.

### Fixed:

- Meters and alarms for Rack 3-8 in NV30LTN and larger systems would not function correctly.

### Known Issues:

- The Transfer Controller Communications alarm does not appear in the Status screen on the AUI.
    - Using Site Control, create a Control Rule as per 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 nvltControllerMeterCarrierFrequency 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.

# 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 NV3.5LT 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:

- AUI will not produce meter and alarms for Racks 3-8 (NV30LTN models and above) and FPUI reports meters and alarms incorrectly.
    - 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 nvltControllerMeterCarrierFrequency 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.