

GV Series Software 6.1.2

General Remarks:

GV Series Software Version 6.1.2 is a software update suitable for all Nautel GV Series transmitters (**excluding GV60**) that use the NAC118*, NAC124, and NAC124A controllers.

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 release.

You can download GV Series Software Version 6.1.2 [here](#).

Upgrade Considerations

Upgrade File Compatibility

- For GV3.5 to GV40s using an NAC118* controller (identified by the PS/2 port and CF card port), use:
 - **gv.6.1.2.10871+UB97.tgz** for software upgrade
 - **GV_SW_6.1.2.10871+UB97.img** for OS image
- For GV3.5 to GV40s using the NAC124 or NAC124A controllers (identified by the HDMI-to-VGA adapter connected to the SBC), use:
 - **gv.6.1.2.6900+UB118.tgz** for software upgrade
 - **GV_SW_6.1.2.6900+UB118.img** for OS image

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](#).

For GV3.5 to GV40s using an NAC118* controller:

- Software upgrade procedures can be found in FM25010, *NAC118* Controller: Replacing the CF or SSD and Upgrading from GV SW 5.x.y to GV SW 6.1.2 or Later*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

For GV3.5 to GV40s using the NAC124 or NAC124A controllers:

- Software upgrade procedures can be found in FM24002, *NAC124* Controller: Replacing the SSD and Upgrading to GV SW 6.0.0 or Later*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

This software upgrade will take approximately 1 hour. Do **not** attempt to host reboot or ac cycle during the upgrade process. You must perform the initial screen calibration and then wait until the AUI login screen appears. The upgrade process will then be complete. You will be OFF-AIR during the upgrade process.

After performing the software upgrade, please compare the transmitter's installed firmware to the table below and confirm that they match. If they do not match, please contact Nautel Customer Service.

Device	Version
Controller	3.1.1.1
Exciter	1.9.1.1
Rack	2.0.0.4

Nautel does not recommend downgrading to previously released software.

Changed:

- Improved the software upgrade functionality.
 - The software upgrade now attempts several retries when upgrading firmware for each device to ensure success.
 - The controller's UI (User Interface) now has improved messaging for software and firmware upgrading to indicate what the status is.
 - When a software upgrade is successful, the AUI (Advanced User Interface) and the controller's UI will show "Firmware Upgrade Successful". Access the AUI and press the "OK" button on the popup to bring the AUI and the controller's UI back to their normal view.
 - If the software upgrade is not successful, the AUI and the controller's UI will show a "Firmware Upgrade Error" with a message describing the cause of the error. Access the AUI and press the "OK" button on the popup to bring the AUI and the controller's UI back to their normal view.
 - However, if an exciter is the cause of the error, the AUI and controller UI will show "Firmware Upgrade Successful" instead of an error. After a software upgrade, please compare the transmitter's firmware versions to the table in General Remarks. If they do not match, please contact Nautel Customer Service.
- Improved responsiveness for the AUI when the Power Module Meters' page is shown on both a Remote and Local AUI session. However, there are still some responsiveness issues for GVs with 3 or more rack (Module Control/Interface PWB) boards installed such as the transmitter lagging to turn RF off when the RF Off button is pressed while the Power Module Meters' page is open on the Remote and Local AUI sessions.

Fixed:

- The progress bar for a software upgrade would complete at 101 % instead of 100 %.

Unavailable Features:

If any of the features listed below are essential to transmitter operation, do not upgrade to this release.

- Audio Player is not available.
 - The Audio Player to AES 1 and Audio Player to AES 2 options are not available as audio sources in Presets.
- The Audio Processor (Orban Inside) instrument panel is not available.
- Site Control is not available.
- The EQ Impulse Response instrument panel is not available.
- The EQ Filter Delay instrument panel is not available.
- The Oscilloscope instrument panel is not available.

Known Issues:

User Interface

- If the transmitter is ac cycled, there is up to a 10 % chance that the Local AUI will be stuck on a black screen with a blinking text cursor.
 - This does not affect the Remote AUI.
 - This does not affect transmitter operation as the controller firmware will continue to function properly.
 - Performing a Host Reboot using the AUI or controller UI fixes the issue.
- The Remote I/O's Analog Outputs page in the AUI is inaccessible.
 - The Analog Outputs menu in the controller's UI is functional.
- The transmitter may get into a state where RF cannot turn on or off and show an error message on the AUI.

- Example:
 - Error Saving
 - Could not update RF On/Off
- The issue will remedy itself within 15 seconds.
- Depending on the transmitter’s frequency, the Mask Delta meter may not match the shown mask delta on the Dashboard’s Spectrum Analyzer panel.
 - Known problematic frequencies are as follows:

89.2 MHz	94.3 MHz	99.5 MHz
89.3 MHz	96.4 MHz	103.1 MHz
89.4 MHz	99.0 MHz	103.2 MHz
92.5 MHz	99.1 MHz	103.3 MHz
92.6 MHz	99.2 MHz	104.2 MHz
92.7 MHz	99.3 MHz	107.7 MHz
92.8 MHz	99.4 MHz	107.8 MHz

- The transmitter may show “Presets Error” messages and the Presets menu may be inaccessible in the AUI after a software upgrade.
 - Performing a Host Reboot using the AUI or controller UI will remedy the issue.
- Uploading new Security Certificate files causes the AUI to crash and the files are not uploaded.
 - Performing a Host Reboot using the AUI or controller UI will restore the AUI.
- If the touchscreen calibration has been performed and then the transmitter goes through a software upgrade, the touchscreen calibration prompt appears on boot-up. This happens for upgrades performed locally and remotely and the calibration must be performed for the AUI to appear on the Local AUI.
- If the Power Module Meters’ page is shown on a Remote AUI session and the Local AUI, and the relevant session’s logged in User attempts to press “RF Off”, the transmitter’s RF output will not turn off instantly and could take up to a few seconds to respond and turn off.
 - This may still happen for GVs with 3 or more rack (Module Control/Interface PWB) boards installed.
- If an incorrect value is entered into an AUI field, the error message is incorrectly only showing “Value invalid” instead of a more descriptive reason.
 - This does not affect the Remote AUI.
- If an incorrect value is entered into an AUI field, the error message does not appear until the Save button is pressed.
 - This does not affect the Remote AUI.
- Setting Installed Exciter(s) to Dual (A/B) does not allow access to the AUI’s Exciter Changeover settings. If setting Installed Exciter(s) to Single (A), the AUI’s Exciter Changeover settings can still be accessed.
 - Performing a Host Reboot using the AUI or controller UI will set the AUI’s Exciter Changeover settings to have the correct accessibility depending on the Installed Exciter(s) setting.
- The AUI’s Versions page shows the incorrect Engine versions.
 - Access the Engine’s User Interface using its network settings located in Engine Settings under HD/DRM to view the Engine’s correct version.

Dashboard

- The Spectrum’s Resolution Bandwidth and Span ranges change depending on the set values for both settings without any indication that the ranges have changed.
 - Examples (FM Spectrum):
 - Setting the Resolution Bandwidth to 3000 Hz causes the Span’s range to be 30 kHz to 1200 kHz.

- Setting the Resolution Bandwidth to 5555 Hz causes the Span's range to be 55.55 kHz to 1200 kHz.
- Setting the Span to 20 kHz causes the Resolution Bandwidth's range to be 300 Hz to 2000 Hz.
- Setting the Span to 80 kHz causes the Resolution Bandwidth's range to be 300 Hz to 8000 Hz.
- Attempting to change the Dashboard's layout while logged in as a User with no administrative permissions will cause the layout to change back to its default upon logging in.
- If the active preset's Main Audio is changed from Analog L/R to MPX, the Lissajous Plot will still show L/R instead of I/Q.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the Dashboard will remedy the issue for the Local AUI.

Meters

- If the User has RF on while in a Meters page, changes to another page, turns RF off and then goes back to the original Meters page, the meters that do not constantly update will be stuck to the values that were shown prior to exiting the page.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the menu will remedy the issue for the Local AUI.

Notifications

- If an email is being inputted into an email field and the local-part (contents on the left of the @) is made up of 32 or more characters and then the @ symbol is inputted, adding any character after the @ makes the AUI more and more unresponsive.
 - Enter the @ symbol and complete the domain name before entering the local-part to avoid this issue.
- If the transmitter's DNS settings are set to incorrect values and a test email is sent, the User does not get notified that email fails to send.

Orban Audio Processor

- Every second change to an Orban preset's settings will result in an error and the setting will not change.
 - Try to perform the action again.
- Setting ST ENC NO LIM as the active Orban preset and reloading the Audio Processing page shows none of the Orban presets as active.
- Changing the Active Orban Preset using Presets may not change the Active Orban Preset in the Audio Processing menu.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the page will remedy the issue for the Local AUI.
- The Text Preset Save button in Audio Processing is not present.

Presets

- If the transmitter is set to Local-only mode, Presets cannot be deleted, edited or copied using the Local AUI.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- If the transmitter is set to Local-only mode, the Active Preset cannot be changed using the Presets menu in the Local AUI.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- Attempting to edit/clone/delete a preset or change the Active Preset may result in the ERROR_TRANS_PACKET_LOSS error message and the action will not be completed.
 - Try to perform the action again.

- Attempting to change the Active Preset may result in the “Failed to communicate with hardware channel while changing active preset” error message.
 - Try to perform the action again.
- When creating a new Preset Scheduler rule, the rule may fail to be created.
 - Try to make the rule again.
- When editing a Preset Scheduler rule, the rule may fail to be updated.
 - Try to edit the rule again.
- When deleting a Preset Scheduler rule, the rule may fail to be deleted.
 - Try to delete the rule again.
- Deleting a Preset Scheduler Rule after it’s deleted but before it’s removed from the Rules list causes the Presets to become inaccessible and the Active Preset to not be changeable.
 - Performing a Host Reboot using the AUI or controller UI will fix the issue.
- Updating changes to a Preset may not automatically update the preset’s values in the Preset Banner or the Presets menu.
 - Pressing the browser’s refresh button for the Remote AUI’s page will remedy the issue.
 - Logging out and logging in to the Local AUI will remedy the issue.
- If a preset’s Audio Source is set to an MPX source and the Mode is set to HD, the Pilot 1 PPS Sync option is absent from the Other Settings menu.
 - Changing the Mode to FM/FM+HD/DRM+, changing the Audio Source to a non-MPX source and then changing the Mode back to HD will list the Pilot 1 PPS Sync option under the Other Settings menu.
- Enabling Mod Loss Timeout with the Action set to Change Preset, not changing the Mod Loss Preset and saving sets the Mod Loss Preset to None Selected.
 - Manually select the Mod Loss Preset being saving to get desired preset.
- The Orban preset list’s index for a preset does not match up with the Audio Processing preset index, resulting in incorrect selections for the Local and Remote AUI’s.
 - Select the desired Orban preset for a preset using the controller’s UI.
- Cloning a preset may result in two presets having the same name.
 - If a preset with a name that has reached the maximum character limit is cloned, the last 6 characters of the name is replaced with “_copy1”. If the new preset is cloned enough to get “_copy9” and is then cloned again, the Presets cannot be accessed and the Active Preset cannot be changed. In addition, another “_copy1” will be created.
 - Performing a Host Reboot using the AUI or controller UI will remedy the issue.
- If a new custom Orban preset is created, viewing the Orban Preset list in Presets will not show the new custom Orban preset. This also applies to deleting a custom Orban preset where the Orban Preset list will still show the deleted preset.
 - Pressing the browser’s refresh button for the Remote AUI's page remedies this issue.
 - Performing a Host Reboot using the AUI or controller UI remedies this issue for the Local AUI.
- If a new Preset is created, deleted or a Preset name is changed, viewing a Preset’s Mod Loss Preset option will not show the new changes to the presets.
 - Pressing the browser’s refresh button for the Remote AUI's page remedies this issue.
 - Performing a Host Reboot using the AUI or controller UI remedies this issue for the Local AUI.
- A Preset’s Delete button does not automatically change depending on its activation/deactivation conditions.
 - Performing a Host Reboot using the AUI or controller UI will fix the issue.

Remote I/O

- Some alarms listed in Digital Inputs and Digital Outputs are not necessary for the transmitter's type.
- If the Analog Outputs settings are changing via the controller's UI, the AUI will not automatically show the new values.
 - Pressing the browser's refresh button for the Remote AUI's page will fix the issue.
 - Exiting and reentering the menu will fix the issue for the Local AUI.

Reports

- Settings in Reports does not report settings such as Thresholds, Scale Factors, HD Settings, Spectrum Efficiency Optimizer or Network Settings.
- Sorting by Meter Collection, Meter Name, Value or Units in Meters under Reports will "freeze" the AUI and the AUI cannot be changed from the Meters page under Reports and no actions can be made. This happens on both the Local and Remote AUI.
 - Pressing the browser's refresh button for the Remote AUI's page will fix the issue.
 - Performing a Host Reboot using the AUI or controller UI will fix this issue for the Local AUI.
- When filtering options from the Audio section in Reports, Audio Delay from Other Settings is included when it should not be.
- Events in Event History's downloaded report are not translated correctly.
 - Examples:
 - LOCAL_REMOTE_CHANGE instead of Local/Remote Change
 - rfDriveLow instead of Low RF Drive
- Power and frequency changes are not currently logged in Event History.

SNMP

- Entering an out-of-range value into the SNMP Trap's Receiver Port setting and saving results in a successful save with the incorrect value saved.
 - This does not affect the Remote AUI.

Users

- If a User is logged in with only RF Control permissions, the User cannot change the RF On/Off state.
- New Users cannot be created in the Local AUI if the transmitter is set to Local-only.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- The Auto Login toggle is not present under Users in the Remote AUI.
- The Auto Login option can only be enabled for the currently logged-in User and the User must have Administrator permissions.

Miscellaneous

- If the Local AUI's Touchscreen Calibration is actioned, the Remote AUI session is disconnected until the calibration has been completed.
- If the Exciter Changeover window is opened in the Remote AUI, the Main Exciter's "A" and "B" buttons may be swapped.
 - This does not affect the Local AUI.
- HD/DRM settings for non-HD exciters can be edited but cannot be saved.
- If the Auto Changeover setting is changed via the controller's UI, the AUI will not automatically change the Auto Changeover's state.



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- Reopening the Exciter Changeover window from the Modulation panel or Hardware Configuration page will fix the issue.
- Main Audio Low Level and SCA Audio Low Level setting ranges in the AUI are -100 dB to -0.5 dB when they should be -100 dB to 0 dB.
- The AUI slows down when a new Remote AUI session is loading.
- Settings in Network have an "*" next to their names to indicate that the fields require values. Since the page cannot be changed using the Remote AUI, the "*" should not be in the Remote AUI.

GV Series Software 6.1.1

General Remarks:

GV Series Software Version 6.1.1 is a software update suitable for all Nautel GV Series transmitters that use the NAC124 and NAC124A controllers.

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 release.

Software upgrade procedures can be found in FM24002, *NAC124* Controller: Replacing the SSD and Upgrading to GV SW 6.0.0 or Later*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

This software upgrade will take approximately 1 hour. Do **not** attempt to host reboot or ac cycle during the upgrade process. You must perform the initial screen calibration and then wait until the AUI login screen appears. The upgrade process will then be complete. You will be OFF-AIR during the upgrade process.

Nautel does not recommend downgrading to previously released software.

Fixed:

- Depending on the hardware configuration of the transmitter, the Exciter A Offline alarm would sometimes trigger and clear within one second.

Unavailable Features:

- Audio Player is not available.
 - The Audio Player to AES 1 and Audio Player to AES 2 options are not available as audio sources in Presets.
- The Audio Processor (Orban Inside) instrument panel is not available.
- Site Control is not available.
- The EQ Impulse Response instrument panel is not available.
- The EQ Filter Delay instrument panel is not available.
- The Oscilloscope instrument panel is not available.

Known Issues:

User Interface

- If the transmitter is ac cycled, there is up to a 10 % chance that the Local AUI will be stuck on a black screen with a blinking text cursor.
 - This does not affect the Remote AUI.
 - This does not affect transmitter operation as the controller firmware will continue to function properly.
 - Performing a Host Reboot using the AUI or controller UI fixes the issue.
- The Remote I/O's Analog Outputs page in the AUI is inaccessible.
 - The Analog Outputs menu in the controller's UI is functional.
- The transmitter may get into a state where RF cannot turn on or off and show an error message on the AUI.
 - Example:
 - Error Saving
 - Could not update RF On/Off
 - The issue will remedy itself within 15 seconds.

- Depending on the transmitter’s frequency, the Mask Delta meter may not match the shown mask delta on the Dashboard’s Spectrum Analyzer panel.

- Known problematic frequencies are as follows:

89.2 MHz	94.3 MHz	99.5 MHz
89.3 MHz	96.4 MHz	103.1 MHz
89.4 MHz	99.0 MHz	103.2 MHz
92.5 MHz	99.1 MHz	103.3 MHz
92.6 MHz	99.2 MHz	104.2 MHz
92.7 MHz	99.3 MHz	107.7 MHz
92.8 MHz	99.4 MHz	107.8 MHz

- The transmitter may show “Presets Error” messages and the Presets menu may be inaccessible in the AUI after a software upgrade.
 - Performing a Host Reboot using the AUI or controller UI will remedy the issue.
- Uploading new Security Certificate files causes the AUI to crash and the files are not uploaded.
 - Performing a Host Reboot using the AUI or controller UI will restore the AUI.
- If the touchscreen calibration has been performed and then the transmitter goes through a software upgrade, the touchscreen calibration prompt appears on boot-up. This happens for upgrades performed locally and remotely and the calibration must be performed for the AUI to appear on the Local AUI.
- If the Power Module Meters’ page is shown on a Remote AUI session and the Local AUI, and the relevant session’s logged in User attempts to press “RF Off”, the transmitter’s RF output will not turn off instantly and could take up to a few seconds to respond and turn off.
- If an incorrect value is entered into an AUI field, the error message is incorrectly only showing “Value invalid” instead of a more descriptive reason.
 - This does not affect the Remote AUI.
- If an incorrect value is entered into an AUI field, the error message does not appear until the Save button is pressed.
 - This does not affect the Remote AUI.
- Setting Installed Exciter(s) to Dual (A/B) does not allow access to the AUI’s Exciter Changeover settings. If setting Installed Exciter(s) to Single (A), the AUI’s Exciter Changeover settings can still be accessed.
 - Performing a Host Reboot using the AUI or controller UI will set the AUI’s Exciter Changeover settings to have the correct accessibility depending on the Installed Exciter(s) setting.
- The AUI’s Versions page shows the incorrect Engine versions.
 - Access the Engine’s User Interface using its network settings located in Engine Settings under HD/DRM to view the Engine’s correct version.

Dashboard

- The Spectrum’s Resolution Bandwidth and Span ranges change depending on the set values for both settings without any indication that the ranges have changed.
 - Examples (FM Spectrum):
 - Setting the Resolution Bandwidth to 3000 Hz causes the Span’s range to be 30 kHz to 1200 kHz.
 - Setting the Resolution Bandwidth to 5555 Hz causes the Span’s range to be 55.55 kHz to 1200 kHz.
 - Setting the Span to 20 kHz causes the Resolution Bandwidth’s range to be 300 Hz to 2000 Hz.
 - Setting the Span to 80 kHz causes the Resolution Bandwidth’s range to be 300 Hz to 8000 Hz.

- Attempting to change the Dashboard's layout while logged in as a User with no administrative permissions will cause the layout to change back to its default upon logging in.
- If the active preset's Main Audio is changed from Analog L/R to MPX, the Lissajous Plot will still show L/R instead of I/Q.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the Dashboard will remedy the issue for the Local AUI.

Meters

- If the User has RF on while in a Meters page, changes to another page, turns RF off and then goes back to the original Meters page, the meters that do not constantly update will be stuck to the values that were shown prior to exiting the page.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the menu will remedy the issue for the Local AUI.

Notifications

- If an email is being inputted into an email field and the local-part (contents on the left of the @) is made up of 32 or more characters and then the @ symbol is inputted, adding any character after the @ makes the AUI more and more unresponsive.
 - Enter the @ symbol and complete the domain name before entering the local-part to avoid this issue.
- If the transmitter's DNS settings are set to incorrect values and a test email is sent, the User does not get notified that email fails to send.

Orban Audio Processor

- Every second change to an Orban preset's settings will result in an error and the setting will not change.
 - Try to perform the action again.
- Setting ST ENC NO LIM as the active Orban preset and reloading the Audio Processing page shows none of the Orban presets as active.
- Changing the Active Orban Preset using Presets may not change the Active Orban Preset in the Audio Processing menu.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Exiting and reentering the page will remedy the issue for the Local AUI.
- The Text Preset Save button in Audio Processing is not present.

Presets

- If the transmitter is set to Local-only mode, Presets cannot be deleted, edited or copied using the Local AUI.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- If the transmitter is set to Local-only mode, the Active Preset cannot be changed using the Presets menu in the Local AUI.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- Attempting to edit/clone/delete a preset or change the Active Preset may result in the ERROR_TRANS_PACKET_LOSS error message and the action will not be completed.
 - Try to perform the action again.
- Attempting to change the Active Preset may result in the "Failed to communicate with hardware channel while changing active preset" error message.
 - Try to perform the action again.
- When creating a new Preset Scheduler rule, the rule may fail to be created.

- Try to make the rule again.
- When editing a Preset Scheduler rule, the rule may fail to be updated.
 - Try to edit the rule again.
- When deleting a Preset Scheduler rule, the rule may fail to be deleted.
 - Try to delete the rule again.
- Deleting a Preset Scheduler Rule after it's deleted but before it's removed from the Rules list causes the Presets to become inaccessible and the Active Preset to not be changeable.
 - Performing a Host Reboot using the AUI or controller UI will fix the issue.
- Updating changes to a Preset may not automatically update the preset's values in the Preset Banner or the Presets menu.
 - Pressing the browser's refresh button for the Remote AUI's page will remedy the issue.
 - Logging out and logging in to the Local AUI will remedy the issue.
- If a preset's Audio Source is set to an MPX source and the Mode is set to HD, the Pilot 1 PPS Sync option is absent from the Other Settings menu.
 - Changing the Mode to FM/FM+HD/DRM+, changing the Audio Source to a non-MPX source and then changing the Mode back to HD will list the Pilot 1 PPS Sync option under the Other Settings menu.
- Enabling Mod Loss Timeout with the Action set to Change Preset, not changing the Mod Loss Preset and saving sets the Mod Loss Preset to None Selected.
 - Manually select the Mod Loss Preset being saving to get desired preset.
- The Orban preset list's index for a preset does not match up with the Audio Processing preset index, resulting in incorrect selections for the Local and Remote AUI's.
 - Select the desired Orban preset for a preset using the controller's UI.
- Cloning a preset may result in two presets having the same name.
 - If a preset with a name that has reached the maximum character limit is cloned, the last 6 characters of the name is replaced with "_copy1". If the new preset is cloned enough to get "_copy9" and is then cloned again, the Presets cannot be accessed and the Active Preset cannot be changed. In addition, another "_copy1" will be created.
 - Performing a Host Reboot using the AUI or controller UI will remedy the issue.
- If a new custom Orban preset is created, viewing the Orban Preset list in Presets will not show the new custom Orban preset. This also applies to deleting a custom Orban preset where the Orban Preset list will still show the deleted preset.
 - Pressing the browser's refresh button for the Remote AUI's page remedies this issue.
 - Performing a Host Reboot using the AUI or controller UI remedies this issue for the Local AUI.
- If a new Preset is created, deleted or a Preset name is changed, viewing a Preset's Mod Loss Preset option will not show the new changes to the presets.
 - Pressing the browser's refresh button for the Remote AUI's page remedies this issue.
 - Performing a Host Reboot using the AUI or controller UI remedies this issue for the Local AUI.
- A Preset's Delete button does not automatically change depending on its activation/deactivation conditions.
 - Performing a Host Reboot using the AUI or controller UI will fix the issue.

Remote I/O

- Some alarms listed in Digital Inputs and Digital Outputs are not necessary for the transmitter's type.
- If the Analog Outputs settings are changing via the controller's UI, the AUI will not automatically show the new values.
 - Pressing the browser's refresh button for the Remote AUI's page will fix the issue.

- Exiting and reentering the menu will fix the issue for the Local AUI.

Reports

- Settings in Reports does not report settings such as Thresholds, Scale Factors, HD Settings, Spectrum Efficiency Optimizer or Network Settings.
- Sorting by Meter Collection, Meter Name, Value or Units in Meters under Reports will “freeze” the AUI and the AUI cannot be changed from the Meters page under Reports and no actions can be made. This happens on both the Local and Remote AUI.
 - Pressing the browser’s refresh button for the Remote AUI’s page will fix the issue.
 - Performing a Host Reboot using the AUI or controller UI will fix this issue for the Local AUI.
- When filtering options from the Audio section in Reports, Audio Delay from Other Settings is included when it should not be.
- Events in Event History’s downloaded report are not translated correctly.
 - Examples:
 - LOCAL_REMOTE_CHANGE instead of Local/Remote Change
 - rfDriveLow instead of Low RF Drive
- Power and frequency changes are not currently logged in Event History.

SNMP

- Entering an out-of-range value into the SNMP Trap’s Receiver Port setting and saving results in a successful save with the incorrect value saved.
 - This does not affect the Remote AUI.

Users

- If a User is logged in with only RF Control permissions, the User cannot change the RF On/Off state.
- New Users cannot be created in the Local AUI if the transmitter is set to Local-only.
 - Set the transmitter to Local/Remote mode to remedy the issue.
- The Auto Login toggle is not present under Users in the Remote AUI.
- The Auto Login option can only be enabled for the currently logged-in User and the User must have Administrator permissions.

Miscellaneous

- If the Local AUI’s Touchscreen Calibration is actioned, the Remote AUI session is disconnected until the calibration has been completed.
- If the Exciter Changeover window is opened in the Remote AUI, the Main Exciter’s “A” and “B” buttons may be swapped.
 - This does not affect the Local AUI.
- HD/DRM settings for non-HD exciters can be edited but cannot be saved.
- If the Auto Changeover setting is changed via the controller’s UI, the AUI will not automatically change the Auto Changeover’s state.
 - Reopening the Exciter Changeover window from the Modulation panel or Hardware Configuration page will fix the issue.
- Main Audio Low Level and SCA Audio Low Level setting ranges in the AUI are -100 dB to -0.5 dB when they should be -100 dB to 0 dB.
- The AUI slows down when a new Remote AUI session is loading.



Nautel GV Series Software Release Notes

- Settings in Network have an "*" next to their names to indicate that the fields require values. Since the page cannot be changed using the Remote AUI, the "*" should not be in the Remote AUI.
- The progress bar for a software update completes at 101 % instead of 100 %.

GV Series Software 6.1.0

General Remarks:

GV Series Software Version 6.1.0 is a software update only suitable for Nautel GV Series transmitters that use the NAC124 controller.

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.

Software Upgrade procedures can be found in FM24002, *NAC124* Controller: Replacing the SSD and Upgrading to GV SW 6.0.0 or Later*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

Fixed:

- The transmitter's controller UI (User Interface) and AUI (Advanced User Interface) no longer show the "Entered Firmware Update" alarm after boot-up when a new image was installed or the software was updated and caused RF to not be able to be turned on.
- Firmware update progress is now shown on the controller's UI.
- If a Remote Output is set as Unused in the controller's UI, the polarity is now hidden.

Removed:

- Removed the Server Port option from the controller UI's Network Settings menu.

Known Issues:

User Interface

- If the transmitter is ac cycled, there is up to a 10 % chance that the Local AUI will be stuck on a black screen with a blinking text cursor.
 - This does not affect the Remote AUI.
 - This does not affect transmitter operation as the controller firmware will continue to function properly.
 - Performing a Host Reboot fixes the issue.
- Uploading new Security Certificate files causes the AUI to crash and the files are not uploaded.
 - Performing a Host Reboot will restore the AUI.
- Site Control is not available.
 - If Site Control is essential to transmitter operation, do not update to this release.
- Audio Player is not available.
 - The Audio Player to AES 1 and Audio Player to AES 2 options are not available as audio sources in Presets.
 - If Audio Player is essential to transmitter operation, do not update to this release.
- The EQ Impulse Response instrument panel is not available.
- The EQ Filter Delay instrument panel is not available.
- The Oscilloscope instrument panel is not available.
- The Audio Processor (Orban Inside) instrument panel is not available.
- If the touchscreen calibration has been performed and then the transmitter goes through a software update, the touchscreen calibration prompt appears on boot-up.
- If the Power Module Meters' page is shown on a Remote AUI session and the Local AUI, and the relevant session's logged in User attempts to press "RF Off", the transmitter's RF output will not turn off instantly and could take up to a few seconds to respond and turn off.

- If an incorrect value is entered into an AUI field, the error message is incorrectly only showing “Value invalid” instead of a more descriptive reason.
 - This does not affect the Remote AUI.
- If an incorrect value is entered into an AUI field, the error message does not appear until the Save button is pressed.
 - This does not affect the Remote AUI.

Dashboard

- The Spectrum’s Resolution Bandwidth and Span ranges change depending on the set values for both settings without any indication that the ranges have changed.
 - Examples (FM Spectrum):
 - Setting the Resolution Bandwidth to 3000 Hz causes the Span’s range to be 30 kHz to 1200 kHz.
 - Setting the Resolution Bandwidth to 5555 Hz causes the Span’s range to be 55.55 kHz to 1200 kHz.
 - Setting the Span to 20 kHz causes the Resolution Bandwidth’s range to be 300 Hz to 2000 Hz.
 - Setting the Span to 80 kHz causes the Resolution Bandwidth’s range to be 300 Hz to 8000 Hz.
- Attempting to change the Dashboard’s layout while logged in as a User with no administrative permissions will cause the layout to change back to its default upon logging in.
- If the active preset’s Main Audio is changed from Analog L/R to MPX, the Lissajous Plot will still show L/R instead of I/Q.
 - Refreshing the page will fix the issue.

Meters

- If the User has RF on while in a Meters page, changes to another page, turns RF off and then goes back to the original Meters page, the meters that do not constantly update will be stuck to the values that were shown prior to exiting the page.
 - Refreshing the page will remedy the issue.

Orban Audio Processor

- Every second change to an Orban preset’s settings will result in an error and the setting will not change.
 - Try to perform the action again.
- Setting ST ENC NO LIM as the active Orban preset and reloading the Audio Processing page shows none of the Orban presets as active.
- The Text Preset Save button in Audio Processing is not present.

Presets

- If the transmitter is set to Local-only mode, Presets cannot be deleted, edited or copied using the Local AUI.
- If the transmitter is set to Local-only mode, the Active Preset cannot be changed using the Presets menu in the Local AUI.
- Attempting to edit/clone/delete a preset or change the Active Preset may result in the ERROR_TRANS_PACKET_LOSS error message and the action will not be completed.
 - Try to perform the action again.
- Attempting to change the Active Preset may result in the “Failed to communicate with hardware channel while changing active preset” error message.
 - Try to perform the action again.
- When creating a new Preset Scheduler rule, the rule may fail to be created.

- Try to make the rule again.
- When editing a Preset Scheduler rule, the rule may fail to be updated.
 - Try to edit the rule again.
- When deleting a Preset Scheduler rule, the rule may fail to be deleted.
 - Try to delete the rule again.
- Deleting a Preset Scheduler Rule after it's deleted but before it's removed from the Rules list causes the Presets to become inaccessible and the Active Preset to not be changeable.
 - Performing a Host Reboot will fix the issue.
- Updating changes to a Preset may not automatically update the preset's values in the Preset Banner or the Presets menu.
 - Refreshing the page will fix the issue.
- If a preset's Audio Source is set to an MPX source and the Mode is set to HD, the Pilot 1 PPS Sync option is absent from the Other Settings menu.
 - Changing the Mode to FM/FM+HD/DRM+, changing the Audio Source to a non-MPX source and then changing the Mode back to HD will list the Pilot 1 PPS Sync option under the Other Settings menu.
- Enabling Mod Loss Timeout with the Action set to Change Preset, not changing the Mod Loss Preset and saving sets the Mod Loss Preset to None Selected.
 - Manually select the Mod Loss Preset being saving to get desired preset.
- The Orban preset list's index for a preset does not match up with the Audio Processing preset index, resulting in incorrect selections for the Local and Remote AUI's.
 - Select the desired Orban preset for a preset using the controller's UI.
- Cloning a preset may result in two presets having the same name.
 - If a preset with a name that has reached the maximum character limit is cloned, the last 6 characters of the name is replaced with "_copy1". If the new preset is cloned enough to get "_copy9" and is then cloned again, the Presets cannot be accessed and the Active Preset cannot be changed. In addition, another "_copy1" will be created.
 - Performing a Host Reboot will remedy the issue.
- If a new custom Orban preset is created, viewing the Orban Preset list in Presets will not show the new custom Orban preset. This also applies to deleting a custom Orban preset where the Orban Preset list will still show the deleted preset.
 - Refreshing the page will fix the issue.
- If a new Preset is created, deleted or a Preset name is changed, viewing a Preset's Mod Loss Preset option will not show the new changes to the presets.
 - Refreshing the Remote AUI's page remedies this issue.
 - Performing a Host Reboot remedies this issue for the Local AUI.
- A Preset's Delete button does not automatically change depending on its activation/deactivation conditions.
 - Performing a Host Reboot will fix the issue.

Remote I/O

- Some alarms listed in Digital Inputs and Digital Outputs are not necessary for the transmitter's type.
- If the Analog Outputs settings are changing via the controller's UI, the AUI will not automatically show the new values.
 - Refreshing the page will fix the issue.

Reports

- Sorting by Meter Collection, Meter Name, Value or Units in Meters under Reports will “freeze” the AUI and the AUI cannot be changed from the Meters page under Reports and no actions can be made. This happens on both the Local and Remote AUI.
 - Refreshing the Remote AUI’s page will fix the issue.
 - Performing a Host Reboot using the controller’s UI will fix this issue.
- When filtering options from the Audio section in Reports, Audio Delay from Other Settings is included when it should not be.
- Events in Event History’s downloaded report are not translated correctly.
- Power and frequency changes are not currently logged in Event History.

Notifications

- If the transmitter’s DNS settings are set to incorrect values and a test email is sent, the User does not get notified that email fails to send.

SNMP

- Entering an out-of-range value into the SNMP Trap’s Receiver Port setting and saving results in a successful save with the incorrect value saved.
 - This does not affect the Remote AUI.

Users

- If a User is logged in with only RF Control permissions, the User cannot change the RF On/Off state.
- New Users cannot be created in the Local AUI if the transmitter is set to Local-only.
- The Auto Login toggle is not present under Users in the Remote AUI.
- The Auto Login option can only be enabled for the currently logged-in User and the User must have Administrator permissions.

Miscellaneous

- If the Local AUI’s Touchscreen Calibration is actioned, the Remote AUI session is disconnected until the calibration has been completed.
- If the Exciter Changeover window is opened in the Remote AUI, the Main Exciter’s “A” and “B” buttons may be swapped.
 - This does not affect the Local AUI.
- HD/DRM settings for non-HD exciters can be edited but cannot be saved.
- If the Auto Changeover setting is changed via the controller’s UI, the AUI will not automatically change the Auto Changeover’s state.
 - Reopening the Exciter Changeover window from the Modulation panel or Hardware Configuration page will fix the issue.
- Main Audio Low Level and SCA Audio Low Level setting ranges in the AUI are -100 dB to -0.5 dB when they should be -100 dB to 0 dB.
- The AUI slows down when a new Remote AUI session is loading.
- Settings in Network have an “*” next to their names to indicate that the fields require values. Since the page cannot be changed using the Remote AUI, the “*” should not be in the Remote AUI.
- The progress bar for a software update completes at 101 % instead of 100 %.



Nautel GV Series Software Release Notes

Installation Considerations:

This software update will take approximately 1 hour. Do **not** attempt to host reboot or ac cycle during the update process. You must perform the initial screen calibration and then wait until the AUI login screen appears. The update process will then be complete. You will be OFF-AIR during the update process.

GV Series Software 6.0.1

General Remarks:

GV Series Software Version 6.0.1 is a software update only suitable for Nautel GV Series transmitters that use the NAC124* controller.

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.

Software Upgrade procedures can be found in FM24002, *NAC124* Controller: Replacing the SSD and Upgrading to GV SW 6.0.0 or Later*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

Fixed:

- The Local and Remote AUIs (Advanced User Interface) would have issues with updating their data after the Local AUI had been logged into.
- Meter values in Meters would stop updating when the menu was accessed.
- Creating a new Preset Scheduler Rule would cause a copy of the created rule to be created approximately every minute.
- Presets would get into a state where they could not be accessed using the AUI.
- The Local and Remote AUIs would get into a state where RF could not be changed without refreshing the AUI.
- The Local and Remote AUIs would get into a state where the Active Preset could not be changed without performing a Host Reboot.
- Changing the Temperature Units Display would not save correctly and reverted to its previously saved option.
- Various connectivity issues.

Known Issues:

User Experience

- Site Control is not available.
 - If Site Control is essential to transmitter operation, do not update to this release.
- Audio Player is not available.
 - The Audio Player to AES 1 and Audio Player to AES 2 options are not available as audio sources in Presets.
 - If Audio Player is essential to transmitter operation, do not update to this release.
- The EQ Impulse Response instrument panel is not available.
- The EQ Filter Delay instrument panel is not available.
- The Oscilloscope instrument panel is not available.
- The Audio Processor (Orban Inside) instrument panel is not available.
- If the Power Module Meters' page is shown on a Remote AUI session, and the relevant session's logged in User attempts to press "RF Off", the transmitter's RF output will not turn off instantly and could take up to a few seconds to respond and turn off.
 - This does not affect the Local AUI.

Dashboard

- If the active preset's Main Audio is changed from Analog L/R to MPX, the Lissajous Plot will still show L/R instead of I/Q.
 - Refreshing the page will fix the issue.

Meters

- If the User has RF on while in a Meters page, changes to another page, turns RF off and then goes back to the original Meters page, the meters that do not constantly update will be stuck to the values that were shown prior to exiting the page.
 - Refreshing the page will remedy the issue.

Orban Audio Processor

- Every second change to an Orban preset's settings will result in an error and the setting will not change.
 - Try to perform the action again.
- The Text Preset Save button in Audio Processing is not present.

Presets

- Attempting to edit/clone/delete a preset or change the Active Preset may result in the ERROR_TRANS_PACKET_LOSS error message and the action will not be completed.
 - Try to perform the action again.
- Attempting to change the Active Preset may result in the "Failed to communicate with hardware channel while changing active preset" error message.
 - Try to perform the action again.
- When creating a new Preset Scheduler rule, the rule may fail to be created.
 - Try to make the rule again.
- When editing a Preset Scheduler rule, the rule may fail to be updated.
 - Try to edit the rule again.
- When deleting a Preset Scheduler rule, the rule may fail to be deleted.
 - Try to delete the rule again.
- Deleting a Preset Scheduler Rule after it's deleted but before it's removed from the Rules list causes the AUI to lose connection.
 - Performing a Host Reboot will fix the issue.
- Enabling Mod Loss Timeout with the Action set to Change Preset, not changing the Mod Loss Preset and saving sets the Mod Loss Preset to None Selected.
 - Manually select the Mod Loss Preset being saving to get desired preset.
- The Orban preset list for a preset does not match up with the Audio Processing order.
 - Select the desired Orban preset for a preset using the Controller's UI (User Interface).
- Cloning a preset may result in two presets having the same name.
 - If a preset with a name that has reached the maximum character limit is cloned, the last 6 characters of the name is replaced with "_copy1". If the new preset is cloned enough to get "_copy9" and is then cloned again, the AUI loses connection. In addition, another "_copy1" will be created.
 - Performing a Host Reboot will remedy the issue.
- If a new custom Orban preset is created, viewing the Orban Preset list in Presets will not show the new custom Orban preset. This also applies to deleting a custom Orban preset where the Orban Preset list will still show the deleted preset.
 - Refreshing the page will fix the issue.
- If a new Preset is created or a Preset name is changed, viewing a Preset's Mod Loss Preset option will not show the new changes to the presets.
 - Refreshing the Remote AUI's page remedies this issue.
 - Performing a Host Reboot remedies this issue for the Local AUI.

- A Preset's Delete button does not automatically change depending on its activation/deactivation conditions.
 - Performing a Host Reboot will fix the issue.

Remote I/O

- Some alarms listed in Digital Inputs and Digital Outputs are not necessary for the transmitter's type.
- If a Remote Output is set as Unused in the UI, the polarity is shown as "Active High" or "Active Low".
- If the Analog Outputs settings are changing via the UI, the AUI will not automatically show the new values.
 - Refreshing the page will fix the issue.

Reports

- Sorting by Meter Collection, Meter Name, Value or Units in Meters under Reports will "freeze" the AUI and the AUI cannot be changed from the Meters page under Reports and no actions can be made. This happens on both the Local and Remote AUI.
 - Refreshing the Remote AUI's page will fix the issue.
 - Performing a Host Reboot using the UI will fix this issue.
- When filtering options from the Audio section in Reports, Audio Delay from Other Settings is included when it should not be.
- Events in Event History's downloaded report are not translated correctly.
- Power and frequency changes are not currently logged in Event History.

Users

- New Users cannot be created in the Local AUI if the transmitter is set to Local-only.
- The Auto Login toggle is not present under Users in the Remote AUI.
- The Auto Login option can only be enabled for the currently logged-in User and the User must have Administrator permissions.

Miscellaneous

- If the Local AUI's Touchscreen Calibration is actioned, the Remote AUI session is disconnected until the calibration has been completed.
- If the Exciter Changeover window is opened in the Remote AUI, the Main Exciter's "A" and "B" buttons may be switched.
 - This does not affect the Local AUI.
- HD/DRM settings for non-HD exciters can be edited but cannot be saved.
- Main Audio Low Level and SCA Audio Low Level setting ranges in the AUI are -100 dB to -0.5 dB when they should be -100 dB to 0 dB.
- The AUI slows down when a new Remote AUI is opened.
- Settings in Network have an "*" next to their names to indicate that the fields require values. Since the page cannot be changed using the Remote AUI, the "*" should not be in the Remote AUI.

Installation Considerations:

This software update will take approximately 45 minutes. Do **not** attempt to host reboot or ac cycle during the update process. You must perform the initial screen calibration and then wait until the AUI login screen appears. The update process will then be complete. You will be OFF-AIR during the update process.

GV Series Software 6.0.0

General Remarks:

GV Series Software Version 6.0.0 is a software update only suitable for Nautel GV Series transmitters that use the NAC124* controller.

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.

Software Upgrade procedures can be found in FM24002, *NAC124* Controller: Replacing the SSD and Upgrading to GV SW 6.0.0*. Please be sure to review and understand the complete set of instructions prior to beginning your upgrade.

Added:

User Experience

- New AUI (Advanced User Interface) user experience.
 - GV transmitters now use HTML5 instead of Adobe Flash.
- Transmitter Info page with the following fields:
 - Transmitter Model
 - MAC Address
 - Transmitter Unique ID (GUID)
 - Transmitter Name/Call Sign
 - Can be changed, 15-character limit.
 - Appears in the Remote AUI's browser tab when a value is saved.
 - Serial Number
 - Can be changed, 16-character limit.
 - Appears at the bottom of the Main Menu when a value is saved.
- System Preferences page with the following settings:
 - Temperature Units Display
 - Can be changed between Celsius and Fahrenheit.
 - Turn-On Delay
 - Ramp-Up Speed
- Security Certificates page to manually upload security certificates to the transmitter (Remote AUI only).
- Alarms data panel that provides a quick glance to the active alarms.
- Audio Inputs data panel that shows the current measurements for the various audio inputs.
- Meters data panel to show specific meters that can be selected without having to leave the Dashboard.
 - Selecting the gear icon will show the Meter Selection window.
- Modulation data panel for the Active Exciter and the FM Modulation measurement.
 - Selecting the Active Exciter indicator while Dual Exciters is enabled will show the Exciter Changeover window.
- More than one string can now be saved for Read and Write for SNMP.
- More than one trap setting can now be saved for SNMP and can be switched between Available and Selected.
- Trap settings can now have a Receiver Community String.
- Email functionality now supports up to and including TLS 1.3.

HD Radio

- Added MP11 support for GV transmitters that use the NAC124* controller.

- Refer to IS22007, *GV Series – Compatibility and Power Capability for GV SW 5.1.0 and Newer* for MP11 power and efficiency information.
- Added HD Carrier Protect Filter to HD PowerBoost for GV transmitters that use the NAC124* controller.
 - Refer to IS22006, *GV Series – Changing the HD Carrier Protect Filter* to configure the HD Carrier Protect Filter.

Transfer Controller

- 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 Controller's UI (User Interface) User Settings menu.
 - VS-TC-HP-related settings are now shown in the UI when Transfer Control is enabled.
 - VS-TC-HP-related meters are now shown in the UI when Transfer Control is enabled.
 - VS-TC-HP-related alarms are now shown in the UI 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 and the UI.

Changed:

- Pages in User Settings are now in Settings.
- User Accounts is now located in Settings as "Users".
- Audio Processor is now in Settings.
- Changeover settings are now in Hardware Configuration.
- The Email Configuration settings are now located in Notifications as "Email Server Configuration".
- The Exgine Settings, HD Settings (formerly IBOC Settings) and Spectrum Efficiency Optimizer pages are now located in the HD/DRM page.
- Capture Meters, Capture Preset and Capture Settings of Critical Parameters are now in Reports as Meters, Active Preset and Settings, respectively.
- NTP Servers settings are now located in the Time page.
- Upgrade Software is now "Software" with the following pages:
 - Upgrades
 - To manage and perform software updates.
 - Versions
 - Lists the versions of the various software components.
- Scheduler is now located in the Presets menu as "Preset Scheduler".
- The Scheduler Enable/Disable toggle button is now in Preset Scheduler.
- The Audio, SCA and RDS tabs in Presets are now inaccessible when HD is selected as the operating mode.
- Logs are now located in Reports as "Event History".
- The Reset Latched Alarms button is now in Alarms.
- Starting a software update while RF is on will inhibit RF.
- Main Audio Low Level and SCA Audio Low Level ranges are now -100.0 dB to -0.5 dB.

Removed:

- Removed the "Current Settings" preset.
 - If changes are made to the Active Preset, the changes are immediately applied to the transmitter's operation.

- Removed the Audio Input Calibration page from Settings.
- Removed the Phone Home functionality from the AUI.
- Removed the Capture Alarms functionality from the AUI.
- Removed the Port Number option from the AUI.
 - Users that are upgrading their transmitter from the Flash-based AUI and have changed their default AUI access port from 3501 may need to reconfigure their port forwarding when using the new AUI.

Known Issues:

User Experience

- The Local and Remote AUIs have issues with updating their data after the Local AUI has been logged into.
- Meter values in Meters stop updating when the menu is accessed.
- Creating a new Preset Scheduler rule causes a copy of the created rule to be created approximately every minute.
- Presets can get into a state where they cannot be accessed using the AUI.
- The Local and Remote AUIs can get into a state where RF cannot be changed without refreshing the AUI.
- The Local and Remote AUIs can get into a state where the Active Preset cannot be changed without performing a Host Reboot.
- Changing the Temperature Units Display will not save correctly and revert to its previously saved option.
- Site Control is not available.
 - If Site Control is essential to transmitter operation, do not update to this release.
- Audio Player is not available.
 - The Audio Player to AES 1 and Audio Player to AES 2 options are not available as audio sources in Presets.
 - If Audio Player is essential to transmitter operation, do not update to this release.
- The EQ Impulse Response instrument panel is not available.
- The EQ Filter Delay instrument panel is not available.
- The Oscilloscope instrument panel is not available.
- The Audio Processor (Orban Inside) instrument panel is not available.
- If the Power Module Meters' page is shown on a Remote AUI session, and the relevant session's logged in User attempts to press "RF Off", the transmitter's RF output will not turn off instantly and could take up to a few seconds to respond and turn off.
 - This does not affect the Local AUI.

Dashboard

- If the active preset's Main Audio is changed from Analog L/R to MPX, the Lissajous Plot will still show L/R instead of I/Q.
 - Refreshing the page will fix the issue.

Meters

- If the User has RF on while in a Meters page, changes to another page, turns RF off and then goes back to the original Meters page, the meters that do not constantly update will be stuck to the values that were shown prior to exiting the page.
 - Refreshing the page will remedy the issue.

Orban Audio Processor

- Every second change to an Orban preset's settings will result in an error and the setting will not change.

- Try to perform the action again.
- The Text Preset Save button in Audio Processing is not present.

Presets

- Creating a new Preset Scheduler Rule will cause a copy of the created rule to be created approximately every minute.
 - Performing a Host Reboot will fix the issue.
- Attempting to change the Active Preset may result in the “Failed to communicate with hardware channel while changing active preset” error message.
 - Try to perform the action again.
- When creating a new Preset Scheduler rule, the rule may fail to be created.
 - Try to make the rule again.
- When editing a Preset Scheduler rule, the rule may fail to be updated.
 - Try to edit the rule again.
- When deleting a Preset Scheduler rule, the rule may fail to be deleted.
 - Try to delete the rule again.
- Deleting a Preset Scheduler Rule after it’s deleted but before it’s removed from the Rules list causes the AUI to lose connection.
 - Performing a Host Reboot will fix the issue.
- Enabling Mod Loss Timeout with the Action set to Change Preset, not changing the Mod Loss Preset and saving sets the Mod Loss Preset to None Selected.
 - Manually select the Mod Loss Preset being saving to get desired preset.
- The Orban preset list for a preset does not match up with the Audio Processing order.
 - Select the desired Orban preset for a preset using the Controller’s UI.
- Cloning a preset may result in two presets having the same name.
 - If a preset with a name that has reached the maximum character limit is cloned, the last 6 characters of the name is replaced with “_copy1”. If the new preset is cloned enough to get “_copy9” and is then cloned again, a “_copy1” will be created with an error.
- If a new custom Orban preset is created, viewing the Orban Preset list in Presets will not show the new custom Orban preset. This also applies to deleting a custom Orban preset where the Orban Preset list will still show the deleted preset.
 - Refreshing the page will fix the issue.
- If a new Preset is created or a Preset name is changed, viewing a Preset’s Mod Loss Preset option will not show the new changes to the presets.
 - Refreshing the Remote AUI's page remedies this issue.
 - Performing a Host Reboot remedies this issue for the Local AUI.
- A Preset’s Delete button does not automatically change depending on its activation/deactivation conditions.
 - Performing a Host Reboot will fix the issue.

Remote I/O

- Some alarms listed in Digital Inputs and Digital Outputs are not necessary for the transmitter’s type.
- If a Remote Output is set as Unused in the UI, the polarity is shown as “Active High” or “Active Low”.
- If the Analog Outputs settings are changing via the UI, the AUI will not automatically show the new values.
 - Refreshing the page will fix the issue.

Reports

- Sorting by Meter Collection, Meter Name, Value or Units in Meters under Reports will “freeze” the AUI and the AUI cannot be changed from the Meters page under Reports and no actions can be made. This happens on both the Local and Remote AUI.
 - Refreshing the Remote AUI’s page will fix the issue.
 - Performing a Host Reboot using the UI will fix this issue.
- When filtering options from the Audio section in Reports, Audio Delay from Other Settings is included when it should not be.
- Events in Event History’s downloaded report are not translated correctly.
- Power and frequency changes are not currently logged in Event History.

Users

- New Users cannot be created in the Local AUI if the transmitter is set to Local-only.
- The Auto Login toggle is not present under Users in the Remote AUI.
- The Auto Login option can only be enabled for the currently logged-in User and the User must have Administrator permissions.

Miscellaneous

- If the Local AUI’s Touchscreen Calibration is actioned, the Remote AUI session is disconnected until the calibration has been completed.
- If the Exciter Changeover window is opened in the Remote AUI, the Main Exciter’s “A” and “B” buttons may be switched.
 - This does not affect the Local AUI.
- Changing the Temperature Units Display may not save correctly and revert to the previously saved option. This happens on both the Local and Remote AUI.
 - Performing a Host Reboot will fix this issue.
- HD/DRM settings for non-HD exciters can be edited but cannot be saved.
- Main Audio Low Level and SCA Audio Low Level setting ranges in the AUI are -100 dB to -0.5 dB when they should be -100 dB to 0 dB.
- The AUI slows down when a new Remote AUI is opened.
- Settings in Network have an “*” next to their names to indicate that the fields require values. Since the page cannot be changed using the Remote AUI, the “*” should not be in the Remote AUI.

Installation Considerations:

This software update will take approximately 45 minutes. Do **not** attempt to host reboot or ac cycle during the update process. You must perform the initial screen calibration and then wait until the AUI login screen appears. The update process will then be complete. You will be OFF-AIR during the update process.