

NWE-3GA

Nielsen Watermarks Encoder

Software version 2.5.0.0

November 16, 2023

The Nielsen Company has developed new NWE-3GA software. The new software 2.5 is based on 2.3 software.

The changes in the new software release version 2.5.0.0:

- Resolve range restriction time range (01/01/2027 cutoff)
- BUG FIX: Loss of Audio Cluster settings during upgrade
- BUG FIX: infosid versioning for Canada corrected
- HDR 352 FPGA change

Additional details on these changes are presented at the end of this document.

Planned quality improvements

Extensive Quality Control testing has found some minor issues involving the Ross dashboard. Nielsen is working with Ross to address these Ross dashboard concerns in a future release.

1. Sometimes the event log cannot download the specified number of days (i.e. 30). If this happens, you can instead download all the event logs and select those you want from the resulting download.
2. An incorrect channel status of PCM audio being input to AES when in fact there actually was no AES audio input.

Additional change details

Resolve range restriction time range (01/01/2027 cutoff)

There was a restriction of the value to the unix time corresponding to 01/01/2027. User would not be able to encode beyond that date. This issue is corrected with this release.

BUG FIX: Loss of Audio Cluster settings during upgrade

The NWE-3GA Software version 2.3.0.9 upgrade needed to be done with Data Safe disabled to prevent loss of audio cluster settings. This issue has been resolved with this new release.

BUG FIX: infosid versioning for Canada corrected

infosid was incorrect for firmware version 2.4, a release candidate for Canada which was not deployed. The root cause was identified, and is corrected for all future releases. Prior release 2.3.0.9 was not impacted by this issue.

HDR 352 FPGA change

Ross Video updated the FPGA to pass through upcoming 352 packet as opposed to discard/re-author it. This was causing problem for HDR workflow that require data in the 352 such as EOTF (SDR, HLG, PQ) and colorimetry (709, 2020) that Ross was overwriting to the default SDR/709.