

**NWE-3GA**  
**Nielsen Watermarks Encoder**  
**Software version 2.2.0.1**  
**November 17, 2018**

The Nielsen Company has developed new NWE-3GA software to further enhance reliability and improve the user experience. The new software continues to support all existing watermarking technologies and NWE-3GA features.

**The changes in the new software version include:**

- Addresses two specific fixes for 5.1 audio Right Channel Encoding concerns.
  - Fix 1: Message timing update to ensure right channel Digital Signal Processor stays in sync, and not enter a non-encoding state due to out of sync condition.
  - Fix 2: Implemented host software matrix which instructs hardware where to route audio signals, to prevent a mono channel issue.
  - In addition, a new optional feature to toggle watermarks off/on daily up to four times each day, including one at the fixed time of 3:40AM, resets Digital Signal Processor (will be activated on demand with the help of the encoder support team).
- Implements enhanced logging to assist with field support
  - Event log entry confirming watermarks off/on toggle.
  - Writes status information in the event log for diagnostic purposes.
  - Logs the arrival of non-PCM data in the audio stream
- Additional minor cleanup in Dashboard UI.

**Planned quality improvements**

Extensive QC testing has demonstrated no known quality defects.