



Aurora
Automated File-based Quality Control System
Release Notes

This document supports software version 6.3.1.

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Release notes for Aurora version 6.3.1

These release notes provide a list of the new Aurora features and important defect fixes that have been made available in software version 6.3.1.

New features

Major new features

- Adds new metric called Perceptual Video Quality (PVQ) to measure and test the video quality of MPEG-2 and AVC coded files.
- Introduces the redesigned Template Editor and Template Manager.
- Adds support for Growing MXF and TS files.
- Upgrades drivers for NVIDIA GPU display cards that support Maxwell and Pascal architectures.
- Improves support for DNxHD and DNxHR files.
- Removes restrictions on the PRO VU License to allow more than 8 cores per VU, which allows greater utilization of system resources.
- Optimizes analysis by adding partial QC. Enhancements to the Start of Material (SOM) and End of Material (EOM) features now allow seeking to SOM and decoding till EOM.
- Adds improvements to AVC decoding by now using Floating point precision.

Minor new features in 6.3.1

- Adds improvements in the PVQ calculations for MPEG-2 coded files.
- Enhances performance of decoding AVC content by allocating more cores.

Minor new features in 6.3.0

- Modified the CeriTalk API method to retrieve the configured list of MediaLocations on the Aurora system.
- Adds support to allow the same email ID to be used for multiple Aurora users, which is useful for support teams.
- Adds improvements to the Compare Container Metadata to Streams (Test 2004) to work with MPEG-TS and MXF files. This test now compares the stream runtime, height and width, display aspect ratio, pixel aspect ratio, bit rate, scan order, frame-rate and caption service count metadata in the container to the actual elementary streams present.
- Adds improvements to the Netflix Distribution Profile (Test 7675) to detect the channel configurations.
- Adds improvements to the Active Picture Size (from Metadata) (Test 3003.002) to detect Active Picture size for MOV files.
- Adds improvements to detect AAC Version 1.

Fixed items

- Fixed items in 6.3.1**
- Addressed an issue with the Hotfolder handling of Smooth Streaming files (.ism) to process based on “clientManifestRelativePath” and “clientManifestPath” metadata tags.
 - Addressed an issue with decoding of MOV format files with external essences.
- Fixed item in 6.3.0**
- Addressed an issue with the detection of DVB-TXT subtitles embedded by FAB DVB multiplexer.

Known issues

- Aurora 6.3.0 does not support Perceptual Video Quality tests on AVC-Intra files.
- To correct loudness values of PCM audio files, the Target LU value in the Average Loudness test (6003.005) must be specified. The default value is –24 LUFS for ATSC/A85 and –23 LUFS for EBU R128 program loudness. For Dolby audio files, the settings must be configured in the Dolby Settings tab of the Edit Autofix Options dialog.
- The Audio Loudness Correction test (Test 6003.005) does not support combining with the performance improvement SOM/EOM markers.