

Aurora integration with Wohler radiantGRID™



Aurora delivering unrivalled QC speed and accuracy as an integral part of the radiantGRID enterprise class, grid-enabled transcoding and media workflow solution

Managing the many file formats used in a modern media workflow is complex, inefficient and can introduce errors during the content workflow.

RadiantGRID uniquely addresses this by gathering important information about the media assets during the ingest and preparation workflows and then creates uniform mezzanine files that can be accessed and re-purposed as many times as needed without going back to the source. The application of TrueGrid™ processing manages and accelerates several tasks simultaneously whilst allowing true scalability across multiple machines. The result is a process that is simpler, faster and dramatically more efficient.

Aurora is the automated file-based QC tool that you can rely on to place in your radiantGRID workflow to identify any visual, audio or metadata issues at ingest and before playout. The Tektronix focus on minimising false positives and a high degree of correlation to human perception means that our test reports highlight just the issues you need to address. Our architecture delivers guaranteed QC capacity and unrivalled speed of QC analysis to meet the demands for whatever your size of playout operation. As an integral part of the radiantGRID workflow, Aurora delivers you confidence that your media meets the standards required before playout.

radiantGRID™

radiantGRID is a file-based software solution with built-in intelligence that automates the entire workflow for ingest, preparation, transformation and distribution of content for multi-platform delivery. radiantGRID takes typically intensive file analysis and correction processes and fully automates them. Integration with best of breed technologies such as Aurora from Tektronix enables in-line processing such as automated QC and more as part of a single workflow.

Aurora

Visual artifacts that can be detected by Aurora include Macro-block Noise/Cloud, Up-conversion, Comb Artifacts, Field Order Swaps, Tape/Digital Hits, Perceptual & Film Artifacts, Black/Freeze Frames, Letter-boxing/Pillar-boxing, Color Bars, PSE/Flash Detection, and Cadence Change. Audio artifacts that can be tested include Silence, Drop-outs, Peaks (dBTP, PPM, dBFS), Average Levels (R128, ATSC, ARIB), Clipping, Snaps/Clicks/Pops, Test Tones, Phase Swaps and Hiss/Hum.

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Solution Architecture and Workflow Overview

TrueGrid™
radiantGRID Manager
allocating tasks to a
scalable grid of
radiantGRID Machines



radiantGRID Manager
Intuitive workflow management
from ingest to distribution



radiantGRID QC
Configure, monitor and review
automated file-based QC



At the heart of the RadiantGrid architecture is the RadiantManager user interface. It provides an interactive workflow dashboard, where operators intuitively manage everything from ingest to distribution. User-created profiles enable automation of the entire workflow including Ingest, Index, Prepare, Transform, CC insertion and translation, Publish and Distribute.

The RadiantManager assigns one or multiple tasks to RadiantMachines. These are the workhorses in the radiantGRID platform whose computing resources can be accessed using the exclusive TrueGrid™ processing—accelerating the media transformation process across multiple computing nodes or machines' based on user-defined profiles that determine final output formats from a single ingest.

Integration with third party technology partners enables in-line processing such as standards conversion, loudness correction, automated QC and more.

For automated QC radiantGRID integrates the Aurora file-based QC software from Tektronix as an optional module/plugin. As part of the overall workflow, the QC functionality is accessible through the radiantGRID Manager.

Aurora VUs (verification units) are installed on separate standard IT hardware servers, blades or fully virtualized infrastructure. The quantity of VUs installed and the number of servers required depends on the number of concurrent QC tasks and the speed of QC analysis required. One or more Aurora Controllers are installed to manage QC job queues, allocating QC tasks to the next available VU instance. Each VU tests one file at a time with dedicated CPUs and GPU acceleration for guaranteed QC capacity.

The RadiantGrid Platform with the integrated Aurora file-based QC is the fastest and most efficient and powerful solution for managing a full range of processes required to test and transform content for multiplatform delivery.

Contact Us

For complete information and sales contacts, go to www.tektronix.com/file-based-qc.