

Aurora integration with Route6 ContentAgent



ROOT6
TECHNOLOGY

Aurora file-based QC integrated within the Root6 ContentAgent automated file-based workflow management system - delivering unrivalled QC analysis speed and confidence in the quality of your media

In a world characterised by the proliferation of digital file types, formats and standards, automated file-based workflow management becomes essential to ensure an efficient and high quality environment for film, broadcast and editorial operations.

ContentAgent provides a central hub from which to manage all aspects of file-based workflow. Resolution independent transcoding ensures that, from the files you have, you can easily generate the files you need to work on, or the files you need to deliver. ContentAgent's Workflow Designer tool enables end-to-end workflows to be define, from importing and capturing content, to playout and burning disks. including dropping n Aurora QC into the relevant workflows.

Aurora is the automated file-based QC tool that you can rely on to place in your ContentAgent workflow to identify any visual, audio or metadata issues at ingest and before delivery. 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, presented to the user in the ContentAgent interface. Our architecture delivers guaranteed QC capacity and unrivalled speed of QC analysis to meet the demands for whatever your size of media operation and ContentAgent system deployed.

Root 6 Technology

ROOT6 Technology was established by industry professionals in 1997 at the heart of London's post production and new media communities in Soho. The close association with the media industry lead to the development of ContentAgent, the automated file-based management system, and the feature set incorporates considerable feedback from media professionals working in file-based facilities on a daily basis. In such mission critical environments, high quality technical support is essential and ContentAgent's success has in no small part been due to this provision.

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

Workflow Designer
Drop Aurora QC
into relevant workflows



Import & Capture
Bring content into your
operation with auto QC



Jobs
Monitor the status of QC jobs
and review QC test results



Output or Burn Disk
Distribute your content with
confidence in its quality



ContentAgent simplifies and streamlines your file-based operation and embraces the benefits already enjoyed by many of the world's leading digital media organisations. Used as a standalone system or integrated within a networked operation, ContentAgent is scalable with the addition of 'off-the-shelf' render nodes. In all cases, advanced CPU and GPU processing ensure outstanding performance. ContentAgent is available for different types of operation - the Film Bundle, the Broadcast Bundle and the Editorial Bundle.

ContentAgent's elegant and intuitive user interface echoes working practices and provides all the tools you need to create and automate workflows from acquisition to deliverables in a secure, reliable and repeatable manner. ContentAgent user interfaces are available for workflow design, storage management, importing content, content capture, camera card ingest, disk burning, playback and job monitoring. Integration with 'best of breed' third party technologies facilitates additional powerful features such as automated file-based QC.

Using ContentAgent's Workflow Designer tool, files can be sent to Aurora to check material. Files may be passed, quarantined for human intervention or auto-corrected. ContentAgent can generate mail notifications that particular files need attention, while passed files are proceed to the next stage in the workflow. Where simultaneous file processing is a requirement, throughput may be substantially increased with the addition of Job Agents 'off the shelf' render nodes.

Aurora verification units (VUs) are installed on standard IT hardware servers, blades or fully virtualized infrastructure. The quantity of VUs installed and the number of servers 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.

Contact Us

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