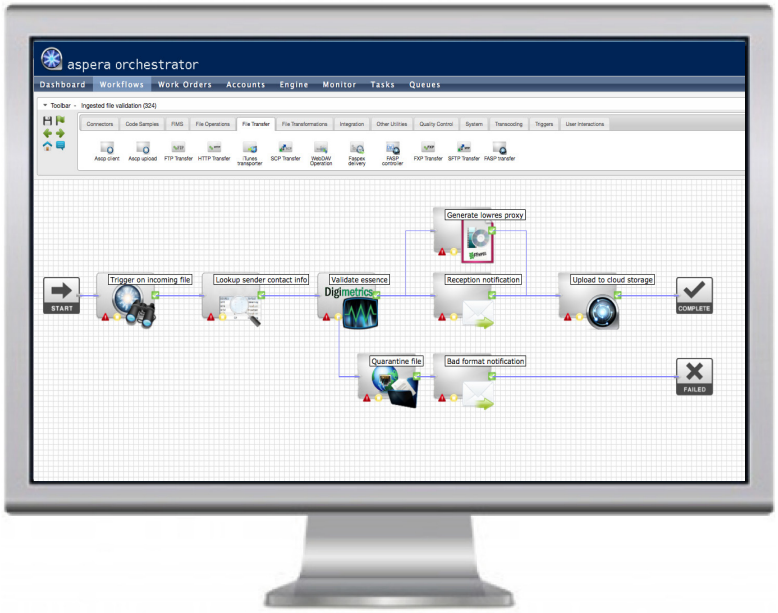
Tektronix®

Aurora integration with Aspera Orchestrator



aspera
an IBM® company

Aurora file-based QC integrated within the Aspera Orchestrator, delivering high performance and predictable file transfer and QC analysis

Aspera Orchestrator is a web-based application and SDK platform that enables precise control over the Aspera high-performance file transfer environment. It allows organizations to build efficient, predictable file processing pipelines that interconnect business units and external partners. With Orchestrator, files can be directed, processed and redirected with easy-to-define rules based on an organization's workflows and using existing IT infrastructure. Aspera automation streamlines complex workflows, integrates seamlessly with third-party plug-ins and ensures that each processing step is accurately performed.

Aurora is the automated file-based QC software that you can integrate within the Aspera Orchestrator solution to identify any visual, audio or metadata issues with the media files. 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.

Aurora complements the Aspera high-performance and predictable file transfer capability with the highest performance and most predicable file-based QC on the market, ensuring a highly efficient and reliable process for media organizations.

Aspera

Aspera is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented FASP™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

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.

Aurora integration with Aspera Orchestrator

Solution Architecture and Workflow Overview

Aspera Orchestrator
Design workflows using graphicical user interface

Tektronix Aurora
Execute file-based QC as part of the Orchestrator workflow

Tektronix Hydra Player
Manually review media and make QC decisions

Aspera Console
Monitor and manage file transfers between sites

Aspera Orchestrator's interactive graphical designer makes it easy to compose execution streams based on your organization's existing workflows. Use drag-and-drop visual elements to define logical sequences, inputs, action types, outputs and dependencies, and group them into reusable templates. The graphical interface also allows you to monitor active workflows in real time and to drill down into a detailed history of operations.

To automate workflows and assure timely delivery of content under fixed schedules, Aspera Orchestrator combines a logical execution engine with third-party plug-ins for asset transformation, quality control and other functions. Its conditional rules engine binds inputs to actions on the fly, allowing results from earlier steps to decide subsequent actions in the pipeline, including prompting for human input if needed. A comprehensive library of plugins includes transcoding, virus scanning, ad insertion, digital fingerprinting and other solutions from leading vendors, plus an SDK for future integrations.

Aurora file-based QC software integrated as a plugin within the Aspera Orchestrator workflow offers a high performance QC analysis and file transfer solution with unrivalled speed and predictability. Aurora VUs (verification units) 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. Each VU tests one file at a time with dedicated CPUs and GPU acceleration for unrivalled QC analysis speed and predictable throughput with guaranteed QC capacity.

Aspera Orchestrator manages the process of delivering files to be QC tested to the Aurora plugin and then depending on the results of the QC tests will transfer the file to the required destination or take a corrective action workflow route. This may include human intervention using the Tektronix Hydra Player to manually review the issues, add annotations and make QC decisions.

Contact Us

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

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