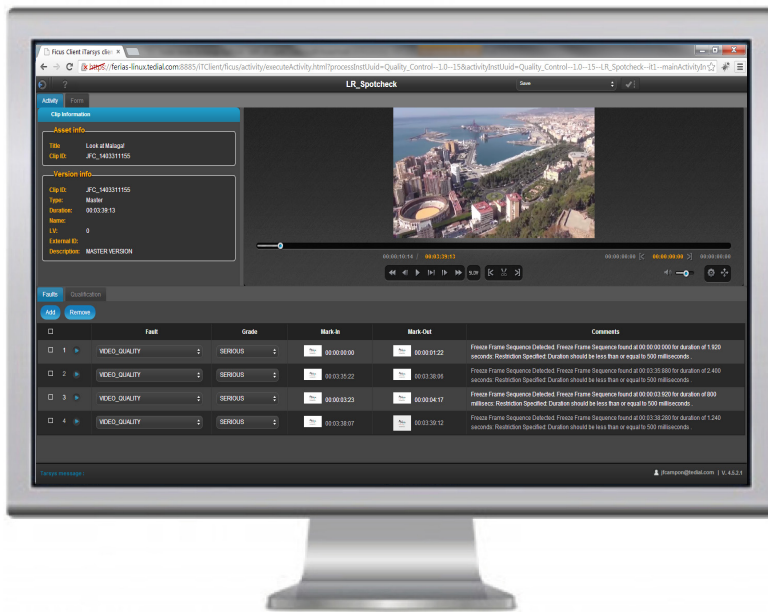


## Aurora integration with Tedral® Ficus Workflow



Aurora file-based QC integrated within the Tedral® Ficus Business Process Management system, delivering efficiency benefits and confidence in your media before archiving and distribution

Most broadcasters are implementing file-based systems in their facilities and yet many continue organising the way they work according to the inherent limitations associated with old tape-based technology. It's easy to forget that going tapeless is not the ultimate goal but rather a key, opening possibilities of improving productivity by organising the way people work in a logical and efficient manner.

Ficus enables broadcasters to simplify and redesign workflows according to business requirements rather than technical processes. Efficiency and savings are thus achieved by automating as many tasks as possible, including file-based QC using Aurora, while reducing the number of man-hours required and the incidence of operational errors.

Aurora is the automated file-based QC tool that you can rely on to place in your Ficus solution 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, presented to the user in your Ficus 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 Tedral® system deployed.

### Tedral®

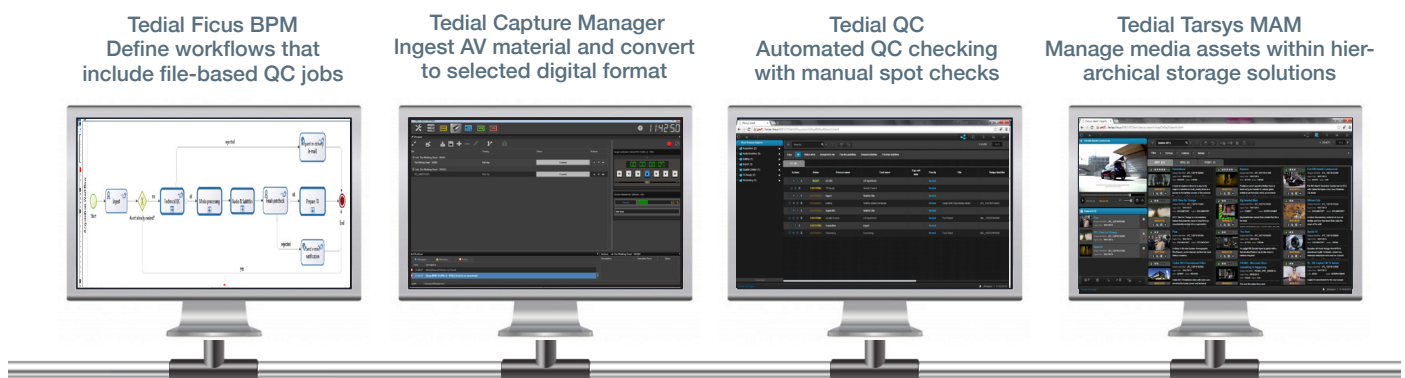
Tedral's innovative media management solutions are a leading standard for broadcasters and media companies who choose to improve efficiency and increase creativity throughout their media workflows. The company's enterprise level cloud technology maximises efficiency and content value across multiple stations and multiple locations by managing media asset management, hierarchal storage management, business process management, transcoding operations and media distribution.

### 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 Tedral® Ficus Workflow

## Solution Architecture and Workflow Overview



Workflows are designed and executed in the Tedral Ficus business process manager using standard BPMN 2.0 for workflows definition. Pre-Defined building blocks are used for workflows definition, reducing the definition time and minimizing risks.

The Tedral Capture Manager solution building block converts audio and video material from any source to a selected digital format. Designed to be an integral part of media acquisition workflows, Capture provides a single common tool to perform ingest and to simplify and automate the digitalisation process.

The Tedral QC (QC) solution building block has a tight integration with Aurora, using the Aurora API to receive all the information on detected faults. The full Tektronix QC reports are also archived and are accessible. In a typical workflow content must be signed off by an operator before material may be archived or distributed. In the event that QC solution building block finds errors an operator will make a judgement as to the seriousness of the problem using a low

resolution player for validation, before passing the item or following a corrective action workflow.

Within a Tedral solution 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 guaranteed QC capacity.

The result is that overall workflow remains seamless and that the data resulting from the QC process is captured and preserved in the Tedral database. This enables efficient process monitoring and the generation of QC reports that can be displayed in relation to the video's timeline. Furthermore, the tightly integrated Aurora functionality complements the file corporate profile checking, media normalisation and standard restoration also provided by Tedral's indexing tools.

## Contact Us

For complete information and sales contacts, go to [www.tektronix.com/file-based-qc](http://www.tektronix.com/file-based-qc).