

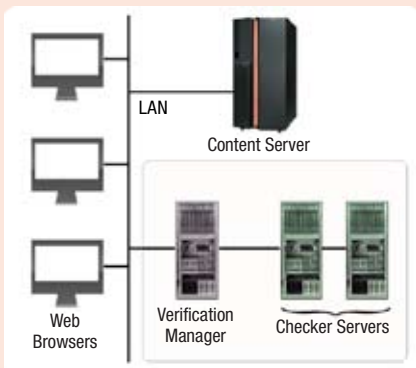
Content Readiness - From Creation to Distribution

File-based workflow is a reality in the media production and broadcast industry. Ingest, acquisition, repurposing, and distribution are getting re-aligned to the tapeless workflows. There is an explosion in digital content and heightened complexity with multiple formats demanded by new channels and new markets. In today's highly competitive environment, manual QC cannot ensure if your content is ready for delivery!

To ensure content readiness, adopt Interra's Baton - an automated content verification system for file-based SD, HD, and mixed workflows. Baton enables you to automate quality control of content, certify content for broadcast, streamline workflows, and minimize manual and subjective QC.

Available as software solution, Baton can be easily plugged into your facility's existing workflow. Baton's web-based architecture enables remote management of verification tasks, and its intuitive interface is easy-to-use for operations.

Baton Environment



Created by Experts

- Developed by audio/video experts who created Vega Analyzers, the leader in offline audio/video analysis
- Vega has been adopted worldwide as the de facto standards compliance tool, by Microsoft, Intel, Apple, Cisco, Broadcom, Sony, BBC, and many more leading companies

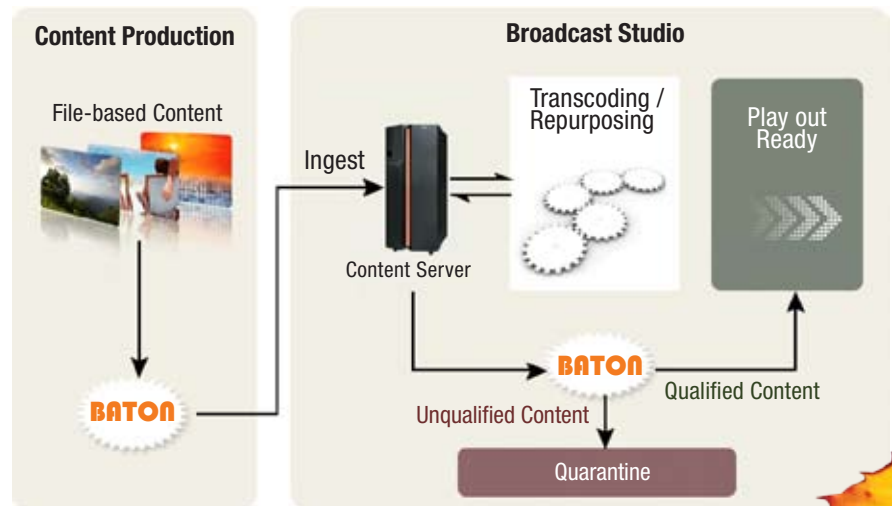
Baton Users

- Broadcasters • Production Houses
- Content Providers • Archiving Facilities

Feature Advantages

- First software solution for verification and quality control of digital media content
- Provides concrete quality metrics and QC audit trail
- Ensures content for quality broadcast
- Architected for LAN and multi-core CPU for enhanced performance
- Seamless integration with existing workflow
- Scalable architecture suitable for small, medium, and large facilities
- Leverages existing IT infrastructure
- Heterogeneous platform support

Baton Ensuring Content Readiness in Content Delivery and Broadcast



Software Solution

- Get started on Day One
- Add/remove Baton engines, as required
- Take advantage of hardware performance improvements without getting bogged down by fixed hardware solutions
- Easily upgrade to newer version of Baton or add support for required audio/video essence

Integrated with Popular Media Servers,
such as Omneon MediaGrid Storage System

Plugging Baton in your facility's workflow could be the best decision taken by you!

Backed by Interra's acclaimed pre & post sales support



Available for Windows,
Linux, and Mac platforms



With Dolby certified AC-3, DD Plus analysis





Content Readiness - From Creation to Distribution

Salient Features

High Level Features

- Web based application that enables multiple users to access the system simultaneously using standard browsers
- Capable of handling large volumes of content in a distributed environment
- Easily scalable for verification workload increase
- Intuitive user interface with visual cues to enable easy scheduling of tasks and quick grasp of error results
- Executes in background mode with remote configuration and scheduling
- XML based API interface to integrate with studio workflows and asset management systems

Verification and Reporting Features

- Compliance to media standards
- Easy to customize test plans based on custom requirements
- Automatic creation of test plans
- Extraction and verification of parameters and metadata in the content
- Detailed error description: error severity, location of error, and time code
- Reports in XML & PDF formats
- Incremental reports of tasks in progress
- Thumbnails of erroneous pictures
- Quick profiling of content without scheduling content for verification

Task Scheduling and Monitoring Features

- Priority-based scheduling of tasks
- Easy integration with content servers
- Watch folder operation
- Task scheduling strategies to handle verification load
- Fault tolerance strategies
- Utilities to manage disk usage

Post Verification Actions

- Email, TCP, UDP alerts
- Moving of qualified files to playback
- Moving of unqualified files to quarantine

Some Baton Checks

Container Level Checks

- Content layout
- CableLabs VoD compliance
- Teletext
- Play time
- File, Packet size
- Buffer analysis
- Number of audio/video streams
- Ancillary data
- Digital cinema compliance

Video Checks

- Frame rate
- Bit rate
- Frame size
- Aspect ratio
- Resolution
- Duration
- Video format
- Coding type
- Color format
- Close caption
- Blockiness
- Cadence
- Black frames
- Freeze frames
- Black bars
- Color gamut
- Luma/Chroma levels
- Flash detection
- Brightness
- Contrast
- Pixelation
- Blurriness
- White point
- Drop frame
- Combing errors
- Block error
- Stripe error
- Freeze frame

Audio Checks

- Silence
- Clipping
- Mute
- Test tones
- Loudness
- Phase detection
- Wow & Flutter
- Transient noise
- Audio distortion

Baton Supports

Workflows

SD, HD, Mixed workflows

Media Containers

MXF, GXF, LXF, DCP, DVB/ATSC/MPEG-2 Transport, ASF, AVI, MPEG-2 Program/DVD VOB, MP4, AVCFF, MOV, QuickTime, QuickTime Reference Movies

Video Codecs

MPEG-2, IMX30/50, XDCAM, D10, D11, DV(25/50/100), MJPEG2000, DNxHD (VC-3), Uncompressed RGB (in QuickTime), H.264, MPEG-4, VC-1, Apple ProRES, PhotoJPEG

Audio Codecs

AC-3, Dolby Digital Plus, Dolby-E, MPEG-Audio, MPEG 2.5, MP3, BWF, AAC, AAC Plus, AES3, LPCM, ADPCM, AIFF, WAV, WMA (Standard & Professional)

Detailed Verification Report