

 **SOLUTION BRIEF** (Cybersecurity)

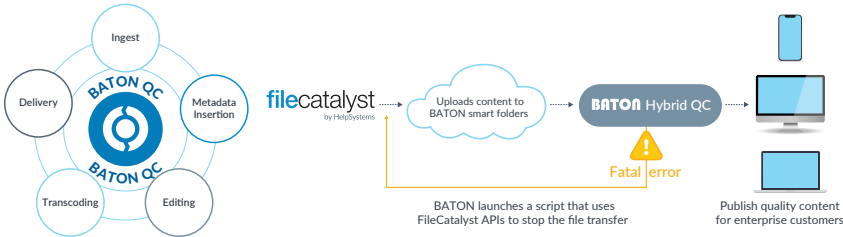
AT-A-GLANCE

BATON File-based QC Solution with FileCatalyst

File-based digital media has the potential for content monetization and operational efficiencies. Content monetization potential increases with a growing list of target consumer platforms. Operational efficiency improves when correct content is assured, guaranteed despite multiple transformations across various stages of the content lifecycle.

The content needs to be repeatedly verified for Quality Control (QC) extending beyond basic QC to Enterprise QC. Enterprise QC includes Comprehensive Quality Checks to verify a wide variety of content transformations as well as Enterprise Scalability to handle any content on any platform without interruptions.

Interra Systems' BATON is the industry's leading enterprise-class file-based QC solution. BATON has been deployed in production use by global media companies of all sizes. Major broadcasters, post production houses, IPTV, satellite and archiving companies use BATON for QC every day for its thorough list of quality checks and enterprise-wide scalability.



FileCatalyst provides the ability to send digital content securely and reliably at accelerated rates, resulting in transfers that used to take hours or days happening in minutes regardless of file size or format. The software's patent-pending UDP-based technology executes transfers at rates up to 10 Gbps despite potential network impairments, such as latency or packet loss, which ensures file quality throughout the quality control workflow.

BATON[®]

BATON's integration with FileCatalyst accelerates the file-based QC workflows. The integration ensures reliable and secure delivery of the digital media content to the customers.

SOLUTION

- Seamlessly accelerates movement of digital media in distributed QC workflows
- Able to transfer large amount of data at speed up to 10Gbps
- Secure and reliable solution using AES industry-standard encryption
- Automates quality checks of digital media content thereby reducing manual QC

CONTAINER CHECKS

Content layout, Slates, Closed Caption, Duration, File size, Audio/Video duration mismatch, Compare System to elementary metadata, Timecode checks, Teletext, Packet size, Ancillary data, Number of audio/video streams, Synchronization, CineCanvas Subtitle, TTML subtitle files, DolbyE

COMPLIANCE CHECKS

DPP compliance, Digital Cinema compliance, IMF compliance, CableLabs VOD compliance, ARD_ZDF_HDF compliance, AS02/AS03/AS10/AS11 compliance, TR101 290, ARIB specifications, DPI compliance

VIDEO CHECKS

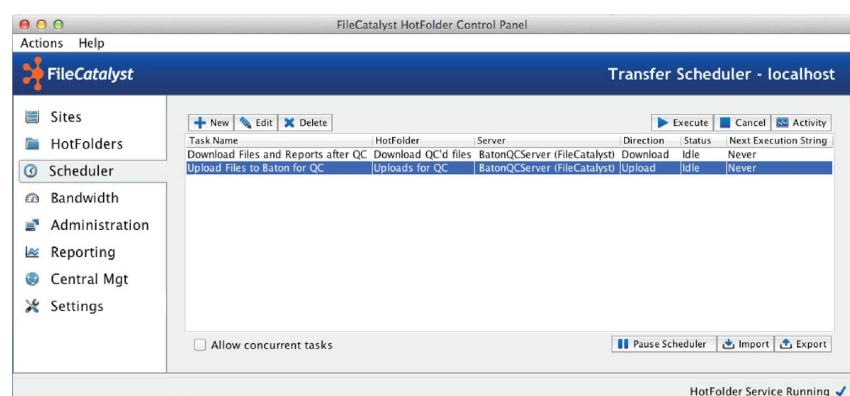
HDR Quality checks incl. SMPTE 2084 EOTF, lightness level (MaxFALL and MaxCLL), ST

Integration of BATON with FileCatalyst seamlessly automates QC workflows by accelerating content uploads to BATON for quality checks. BATON then ensures readiness across all stages of the workflow before delivering the highest quality content to the customers. The integration provides accelerated workflows at the fastest speeds possible for large digital media content transfers.

The following figure illustrates how the BATON file-based QC solution works with FileCatalyst..

BATON and FileCatalyst's Integration Highlights

BATON's integration with FileCatalyst ensures content readiness across a media production workflow. In the workflow, BATON QC can be set to start automatically as soon as content is repurposed.



2086, and ITU-R BT. 2020 compliance etc., Frame rate, Bit rate, Frame size, Aspect ratio, Duration, Resolution, Video format, Picture scanning type, AFD, GOP, Color format, Quantization parameter, Blockiness, Blurriness, Moiré pattern, Mosquito noise, Pixelation, Ringing artifact, Telecine / cadence analysis, Combing errors, Field dominance, Field order, Duplicate frames, Freeze frames, Motion jerk, Ofcom- compliant Flash/PSE (Flashy video), Action safe area, Black bars, Black frames, Blank frames, Color bars, Color banding, Credits, Ghosting artifact, Image presence, Shot transition, Color gamut, Upconversion, Luma/Chroma levels, Video noise, Chroma change, Defective pixels, Halfline blanking, Video dropout, Brightness, Contrast, White point, 3D experience

AUDIO CHECKS

Audio language detection, Audio level (min, max, avg), Dialnorm, Level mismatch, Loudness compliance (ITU, EBU, CALM Act, OP59) (BS.1770-1, -2, -3), PPM meter, Silence, Crackle, Background noise, Colored noise, High frequency noise, Jitter noise, Overmodulation noise, Transient noise, Echo, Wow & Flutter, Nielsen & Cinavia watermark, Click and pop, Clipping, Audio dropout, EAS tones, Misplaced channels, Phase detection, Stereo pair detection, Test tones, DPLM, Bitdepth upconversion detection, Repetitive pattern detection, Spectral aliasing detection, Audio impulse noise, Teletrax watermark

DATA CHECKS

Subtitle analysis and language detection, Burnt-in text detection and analysis, Closed Captions, DPI messages. Combination checks combine and analyze error messages of video and audio quality checks

Key Features

- Simplified and a very user friendly interface
- Available for both Mac and Windows
- User management & access control
- Task scheduling & monitoring
- Hybrid QC platform with a combination of automated & manual QC checks on content
- Extensive time code related checks including start TC / discontinuity / GOP / LTC, VITC and more
- Supports SD, HD, UHD, 4K Mixed workflows
- Supports S3, Spectrum, AMP, Avid Interplay and Google Cloud Servers
- Rich reporting features:
 - o Multi-language reports
 - o Multi-view reports in HTML, XML, PDF and Excel
 - o Reports based on analytics, timeline, content structure and thumbnails

- o Incremental reports of tasks in progress
- o Compact reports to analyze verification summary
- o Options to comment, tag, rate and compare reports
- o Configurable e-mail, HTTP alerts including SNMP
- Assess the health of BATON environment through an intuitive interface
- Configurable alerts
- Built-in test plans for various Standards and Workflows such as DPP, iTunes, Netflix, Cable Labs, ARD_ZDF, Ingest, Playout and more
- Compliance to media standards and regulatory requirements
- Quick content profiling without verification
- Detect language of the audio tracks
- BMP lists manual quality checks enabled in the Test Plan, allowing users to add necessary errors, as well as mark each manual task as reviewed
- Comprehensive online help

24x7 Post Sales Support

BATON's renowned technical support is available anytime to ensure users are always up and running.

About HelpSystems

HelpSystems is a people-first software company focused on helping exceptional organizations Build a Better IT™. Our holistic suite of security and automation solutions create a simpler, smarter, and more powerful IT. With customers in over 100 countries and across all industries, organizations everywhere trust HelpSystems to provide peace of mind. Learn more at www.helpsystems.com.