CableLabs®

CableLabs-Compliant Output from the Cloud
Proven, Consistent Packaging of Broadcast-Ready Content

Producing content for linear or VOD playout that is compatible with the breadth of CableLabs standards has been the exclusive domain of proprietary on-premise video workflow systems for decades. These systems require expensive investments to purchase, maintain and replace on regular schedules, and, because of restrictive licensing models and rigid deployment frameworks, they do not integrate well with content-prep platforms that have migrated to and benefit from the efficiencies of operating in the cloud.

Encoding.com, the industry's most trusted cloud media processing platform, now offers a set of features that allow content providers, broadcasters and distributors to package CableLabs-compliant playout assets in the cloud. Our B2B capabilities simplify your ability to distribute pristine video to millions of users, avoid the complexity and cost of building out and maintaining on-prem infrastructure, and extract maximum value from your library.

CableLabs packaging at Encoding.com is matched with a range of microservices focused on the output of broadcast-ready content. Our open source and proprietary tools allow us to supply you with validated, fully-compliant CableLabs transport streams.

With just a few lines of JSON or XML, you can request a transport stream from nearly any source material with the confidence that it will pass the most stringent of conformance checks and be free of errors during playout on linear systems.

Throughout the development cycle of our B2B video processing capabilities, we worked with several broadcast partners, thousands of assets and a wide gamut of equipment to assure the flawless scheduling and playback of broadcast-ready content. As a result, we can apply a series of automated QC and QA tests for any release affecting the containerized engines responsible for producing content. We verify adherence to CableLabs testing standards by employing the industry's leading commercial solutions, the same tools employed by studios and broadcasters to verify their own content.

The Encoding.com solution includes support for MPEG-2 and H.264 transcodes, as well as passthrough muxing of pre-encoded content. Audio codec support is available for both Dolby Digital (AC-3) and SMPTE 302M outputs in a wide variety of audio layouts. Frame rates from 23.976 through 59.94 are supported.

Packaging of CableLabs- compliant content in the cloud via the Encoding.com API

Access to a complete set of broadcast-focused microservices

Automated QC for verifying adherence to CableLabs testing standards

Helps to avoid the complexity and cost of maintaining on-prem infrastructure

encoding.com

Advanced filters for interlacing, pulldown and deinterlacing content are available as well, along with explicit support for marking or modifying color space parameters.

The default options in a simple API call to produce CableLabs output will handle the vast majority of requirements for playback devices, but we've also built expansive support for systems that vary from the standard or possess other specific requirements. Transport stream parameters can be modified, including PID, PCR deltas and presence, PAT/PMT frequency and versioning. The same deep exposure we provide for D2C video codec parameters is also present for B2B transport streams, with hundreds of options available in case a specific parameter needs to be overridden.

Paired with our proven API and orchestration systems, a cloud-based Encoding.com broadcast workflow empowers organizations that rely on CableLabs transport streams to scale outside of their own data centers. With over 100 million assets a month produced on the Encoding.com platform, you can be assured that a highly available, resilient solution that possesses no upper limits on scalability is backing your workflow. We run in 15 data centers around the world, providing a level of efficiency that helps you minimize costs, latency and bandwidth.

Additional features of a CableLabs-compliant broadcast workflow on Encoding.com include:

- Advanced tools for identify and adapting multichannel audio for broadcast and VOD output.
- Comprehensive capabilities for addressing caption extraction, modification and insertion across a broad range of closed caption standards, including A/53 captioning of 608 and 708 content
- Cloud-based conformance and assembly

Simple Integration

EIntegration to the Encoding.com cloud service can be through our API, Watch Folders or GUI. Our API is the most mature, well-documented and feature-rich cloud encoding API on the market, simplifying the ability to move your ABR processing to the cloud. We can integrate with your CMS, MAM or post-production application, and offer XML templates for all popular devices. To further simplify the integration process, our API Builder helps generate properly formatted XML files to test your JSON or XML requests before writing a single line of code.

Contact Encoding.com today at +1 800-513-1740 to see how we can help optimize the revenue-generating potential of your library.

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