



# Automated Quality Control

## Cloud-based validation of your high-value VOD assets

Quality Control is a critical part of the video processing workflow, as errors in your video, audio and metadata files can have a detrimental impact on your business. Poor picture or audio quality can result in lower subscription rates. Compliance issues can add costs.

Manual QC operations help, of course, but humans are, well, human, and visible and audio imperfections can slip past. In addition, as your output scales up and the number of file formats and codecs continues to rise, humans simply can't keep pace.

Enter Encoding.com's QC-as-a-Service in the cloud. Gone is the need to purchase and manage expensive on-premise QC infrastructure, and reliance on human QC operators. In their place is a comprehensive slate of QC-as-a-service capabilities, letting you automate your QC job management and reporting needs via the Encoding.com API. By completely integrating content validation into the highly scalable, extremely efficient Encoding.com cloud service, many types of errors – whether visible or not – can be automatically detected and then repaired. The result is more consistently excellent video delivery.

The Encoding.com API enables fast and affordable QC for all production and broadcast operations. You can run any number of our 50+ individual QC validations at the time of transcoding and packaging, or use us as a standalone QC service on assets that are already transcoded and packaged.

All requested QC checks are performed on the same Encoding.com compute node as your transcoding and packaging to save time, friction and money when compared to manual transfers of media to a separate QC system. You can generate complete QC

reports in the time it takes to transfer content to your destination. In other words, no increase in total job time.

### Simple Integration

Encoding.com offers the most mature, well- documented and feature-rich cloud encoding API on the market, simplifying the ability to move your file-based ABR processing workflow 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.



Video asset protection across the widest range of devices, including mobile, desktop, IPTV and OTT



Easy integration of your workflow to the cloud with the Encoding.com API



Support for the most common DRM platforms, including Google Widevine, Apple Fairplay and Microsoft PlayReady



Get to market fast with fully protected VOD content

## Validation Tests

The following tests are available for videos conforming to the CMAF DASH/HLS and HLS TS standards.

GENERAL
Test Name
Duration
File Size
Bitrate
Bitrate Mode
Closed Captions (608/708)
No Short Segments
CMAF Conformance

AUDIO
Test Name
Audio Codec
Audio Bitrate
Audio Duration
Audio Bit Depth
Audio Sample Rate
Audio Channels
Audio Channel Layout
Audio Stream Count

VIDEO
Test Name
Video Codec
Video Bitrate
Frame Rate
Video Duration
Video Codec Profile
Video Level
Frame Size
Aspect Ratio
Video Stream Count
Validate DTS
Validate PTS
PCR Interval Is Maintained
PID Interval Is Maintained
Check B-Frames Present
Check B-Frames DTS Grow
IDR Interval Is Maintained
Each Segment Starts With IDR

MANIFEST
Test Name
Master Manifest Has Proper Bitrate
Master Manifest Has Proper Codec
Discontinuity Tags Proper Placement
Proper DRM URI
HLS Version Number
CUE-OUT:0 Proper Placement
Check Sample AES Proper Encryption
Target Segment Duration
Declared Segment Duration Is Correct

