

Automated QC for File-based Media

Introduction

- What is QC?
- Why do you need QC?
- Who uses QC?
- Vidchecker features
- Vidchecker typical workflows
- Questions

What is QC?

- QC for file based workflows involves validating that a media file is fit for its intended purpose.
 - Compliant to specification
 - Correct file type
 - Correct Time Code
 - Correct layout (slate, bars, etc.)
 - Video errors (Color Gamut, Artifacts)
 - Audio Errors (Loudness, pops, clicks, silence)

Types of QC

■ Automated QC

- Software validates file based media with little or no human intervention
- Fast and efficient, but it can't check for everything

■ Manual QC

- Human operator manually reviews the content of a file
- Time consuming, but can pick up issues that are hard to detect with automated systems (sync issues or color shifts).

Why do we need QC?

- Finding problems early saves money!
 - Verify that content meets required specifications before delivery
 - Avoid costly content rejection
 - Fixing content problems close to air date can be very costly (or impossible).

Why do we need QC?

- Avoid regulatory issues

- Many countries have legislation governing multiple aspects of content for broadcast.
- Audio loudness, caption quality, photosensitive epilepsy.
- Failing to catch issues before content airs can lead to fines and disciplinary measures.

Why do we need QC?

- Fulfill contractual obligations

- Many content recipients require content to comply with strict specifications
- Content that does not meet specifications is rejected and has to be re-submitted
- Costs of re-submission can be high

Why do we need QC?

■ Example: NABA DPP Specification

- UK broadcasters developed their DPP specification back in 2014
- All content delivered to broadcasters needs to be delivered to specification or it will be rejected
- NABA and DPP issued a similar specification for North America this year
- Compliance to the new specification will become a major factor in the media supply chain in North America

Who uses QC Tools?

■ Post-Production

- Typically working with tight timescales and budgets.
- Receiving content from multiple sources – need to be sure that the content coming in is the content they need
- Need to ensure that final deliverable meets client specifications and broadcast standards

Who uses QC Tools?

■ Broadcasters

- Dealing with more channels, more content, in shorter timescales
- Content coming from multiple suppliers via multiple delivery mechanisms
- Need to find any issues as soon as content arrives
- Content with issues needs to be corrected or re-supplied before it is due to go on air
- Broadcasters can face legal penalties if problem content makes it to air

Who uses QC Tools?

■ Archive

- Broadcasters, governments and corporations typically have large archives of file based media
- Archive content may have originally been ingested from tape, or digitized from film
- Need to check content going into the archive to ensure that it is highest possible quality
- Need to check content coming out of archive to ensure it doesn't have issues.

Telestream Vidchecker

Telestream welcomes the Vidchecker Team!

- Telestream purchased Vidcheck in September 2016
- Vidcheck employees now part of the Telestream family
- Vidchecker and Vamp products are a great compliment to existing Telestream product line
- Vidchecker already tightly integrated with Vantage

Vidchecker – 2nd Generation QC

- Worlds first QC product for file based media, Cerify develop in 2004
- The team that developed Cerify later went on found Vidcheck and develop the Vidchecker QC products
- 100's of organizations worldwide use Vidchecker for automated QC

Vidchecker Features

- File Level Testing
 - File Type
 - Codec, Frame Rate, Frame Size
 - MXF structural tests
 - Bitstream syntax errors

Vidchecker Features

■ Metadata Testing

- Captions
- Subtitles
- Timecode
- AFD

Vidchecker Features

■ Video Tests

- Bit Rate, GOP structure, encode settings
- Chroma subsampling, color gamut, black levels
- Blocking artifacts, freeze frames, corrupt frames
- Dropouts, stripe errors, cadence issues
- Photosensitive epilepsy risk

Vidchecker Features

■ Audio Tests

- Bit-rate, sample-rate, bit depth
- Silent / missing channels
- Clicks, pops and clipping artifacts
- Loudness and peak level

Vidchecker Features

■ Fixing

- Vidchecker not only checks for many problems in media files, it can also optionally correct a number of issues:
 - Layout (bars, slate etc.)
 - Color gamut errors
 - Loudness and peak level non-compliance
 - Photosensitive epilepsy risk

Vidchecker Features

■ Format Support

- Broad format support for all of the media formats commonly used in Post-Production and Broadcast
- Support for new formats such as IMF
- Support for new video standards such as UHD, HDR and WCG

Vidchecker Features

■ Economical

- Vidchecker product range provides the most cost-effective QC solution on the market today
- Vidchecker Post provides fully featured low cost solution for low volume users

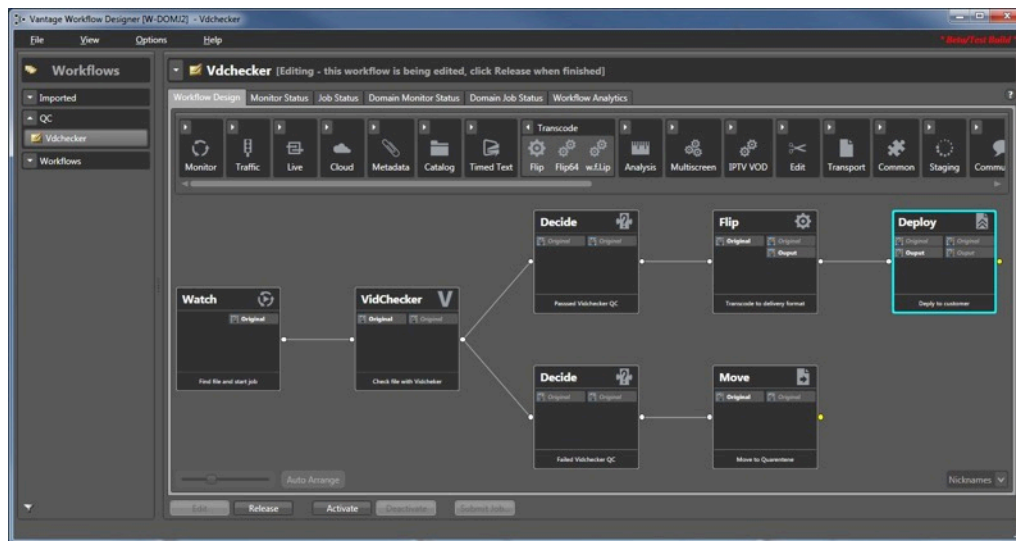
Vidchecker Features

■ Scalable

- Vidchecker Post – low cost, low volume.
- Vidchecker – roughly four times the throughput of Vidchecker Post
- Vidchecker Grid – for very high volumes,

Vidchecker Features

- Integration to Vantage
 - Seamlessly integrate Vidchecker into your Vantage workflows



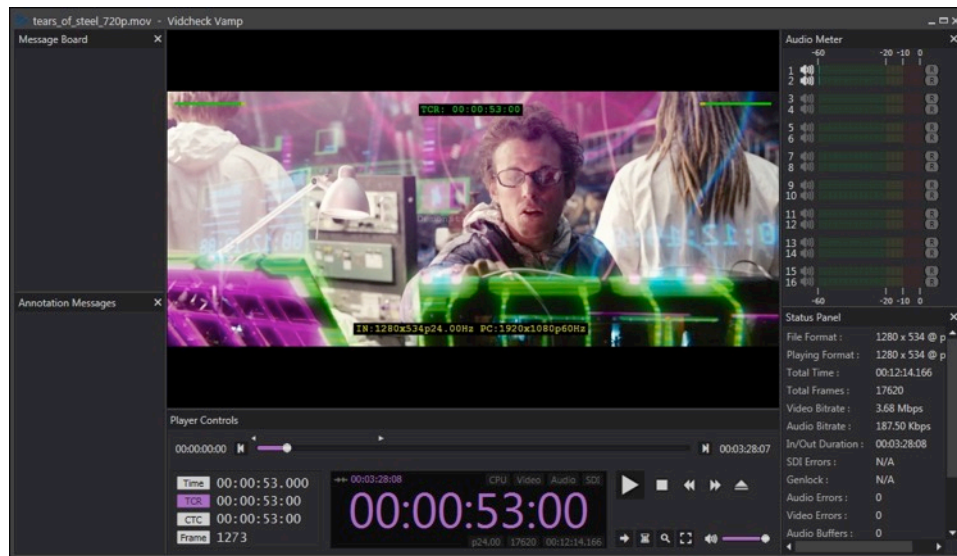
Vidchecker Features

- Easy to use!

- Pre-defined templates for many common delivery specifications
- One-click template creation from a known good sample file
- Templates can be easily configured and adjusted
- Easy-to-read reports user configurable language and terminology

VAMP

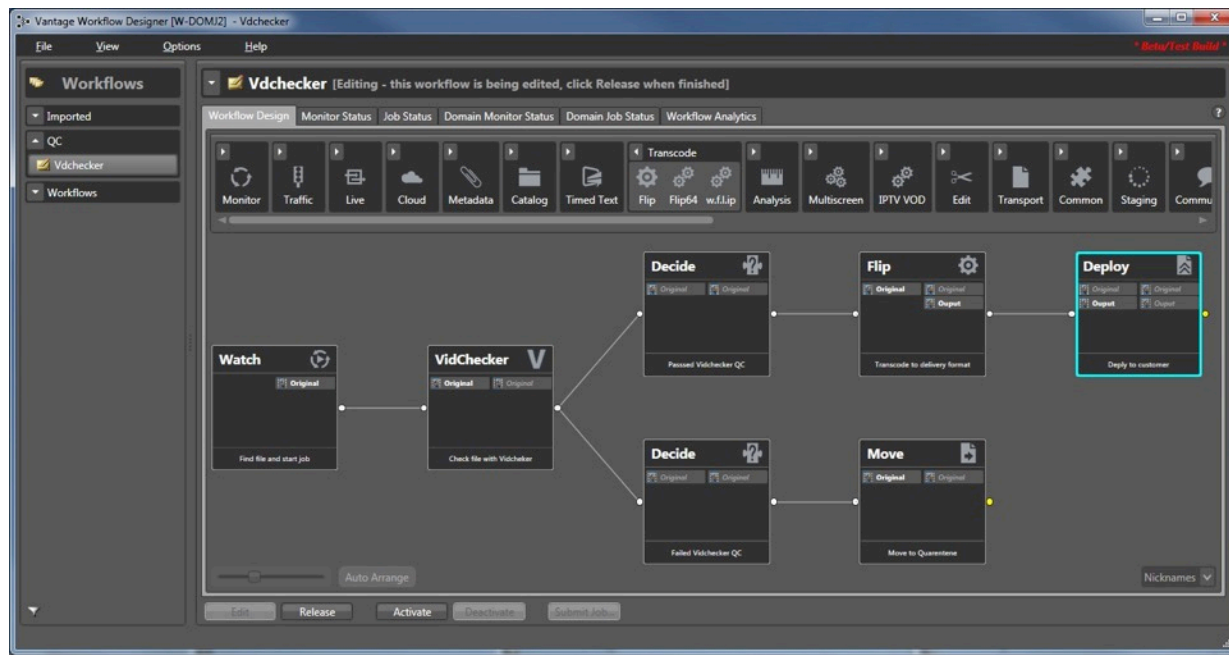
- Vidchecker Advanced Media Player
- Powerful media player and manual QC tool
- Integrated with Vidchecker to provide hybrid Automated / Manual QC solution



Vidchecker Stand-alone workflow



Vidchecker Vantage Workflow





**Contact Telestream for a free
trial copy of Vidchecker!**

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Questions?



Contact Information

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