

VidCheck

VidChecker Software for Auto QC of File-based Media with “Intelligent Automated Correction”

The screenshot displays the VidChecker web interface. At the top, there is a navigation bar with 'Task Monitor', 'Tasks', 'Results', 'Reports', 'Templates', and 'Admin'. The main content area is divided into several sections:

- File Table:** A table with columns: Thumb, Input File, Size, CoC Template, Type, Status, Completed, Check Result, Corrected, and Output File. One row is visible for 'E:\Vapets\AMD.ts' with a status of 'Complete' and a 'Check Result' of 'Failed' (indicated by a red X icon). The 'Corrected' column shows a green checkmark, and the 'Output File' is 'E:\corrected\AMD.ts'.
- File Details:** A section showing technical specifications: Container: None, Video: MPEG2, Audio: PCM 2 Channel, Frame Size: 720x576, Frame Rate: 25 frames/s, File Bitrate: 6.5Mbps, File Play Time: 00:01:27.00.
- Errors Table:** A table with columns: No., Type, From, To, Problem, Corrected. Two errors are listed:
 - 1. Type: RGB, From: 00:00:56.04, To: 00:01:06.23, Problem: RGB out of range, Corrected: Yes (green checkmark).
 - 2. Type: Loudness, From: 00:00:23.17, To: 00:00:25.02, Problem: Audio loudness exceeded limit by 2.54dB, Corrected: Yes (green checkmark).
- Report:** A dropdown menu with 'Select' and a checkmark.

VidChecker Overview

VidCheck

File-based Video Test with Intelligent Automated Correction

- Windows software application for testing file-based video and audio
 - ❑ Uses MainConcept decoders and encoders

- For professional broadcasters and content distributors
 - ❑ Broadcasters receiving file-based TV programs, shows, films, news, commercials ...
 - ❑ VoD and Cable service providers
 - ❑ Distributors of commercials, music video, other media ...
 - ❑ Post production houses

- Who face the challenges of many different
 - ❑ Formats: SD, HD, D-Cinema, web ..
 - ❑ Video: MPEG-2, IMX, XDCAM, AVC/H264, DV, DVCPPro, ProRes, DNxHD, M-JPEG
 - ❑ Containers: MPEG-2 Transport Stream, MOV, MXF, MP4, ASF, AVI
 - ❑ Audio: MPEG / PCM / WAV / AAC; stereo, 5.1 / 7.1 Dolby, different language tracks

- ***VidChecker automatically 'Checks and Corrects' video and audio to meet these needs***
 - ❑ to ensure video is 'good to transmit'
 - ❑ including meeting new audio loudness legislation (US 'CALM' Act) and ATSC, EBU recommendations

➤ File parameters

- ❑ Video codec profile/level, frame size, frame rate, bit-rate, play time, closed captions, number of audio tracks, GOP structure..

➤ Video

- ❑ Aspect ratio, letterboxing, presence/timing of color bars, black frames, field order; video quality
- ❑ Video luma, chroma, color gamut with *Automated Intelligent Correction*

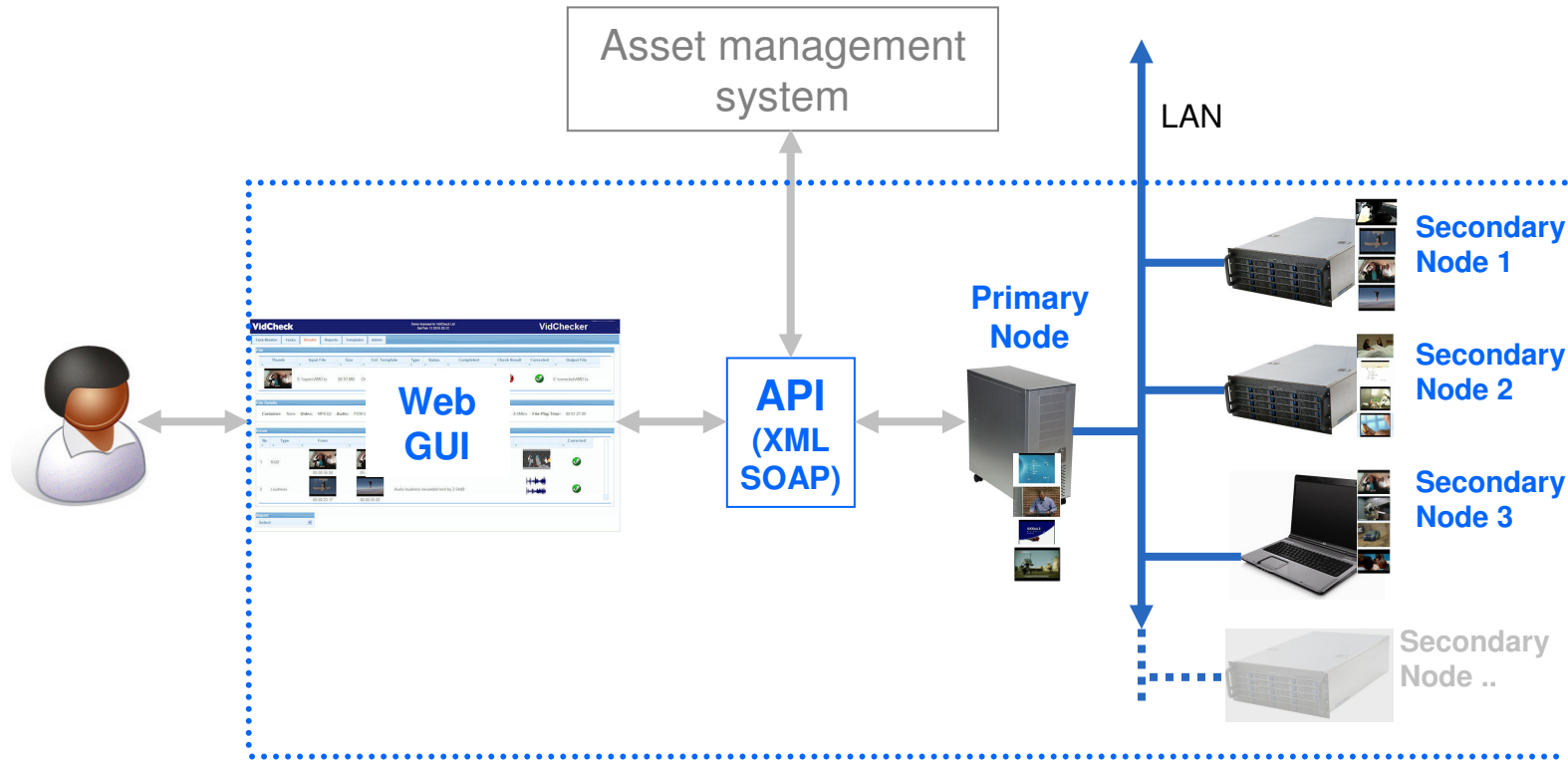
➤ Audio (any no. of tracks; 8 ch. per track)

- ❑ Audio codec, audio presence, min levels, number of channels, audio phase
- ❑ Peak levels, loudness with *Automated Intelligent Correction* to ATSC and EBU standards

VidChecker Use / Automation



File-based Video Test with Intelligent Automated Correction



VidChecker Corrects



File-based Video Test with Intelligent Automated Correction

➤ Video is checked and corrected

- ❑ Luma level incl. black levels; Chroma - color gamut errors; RGB - color problems using patent-pending algorithms to *intelligently* correct



Original - over limit highlights



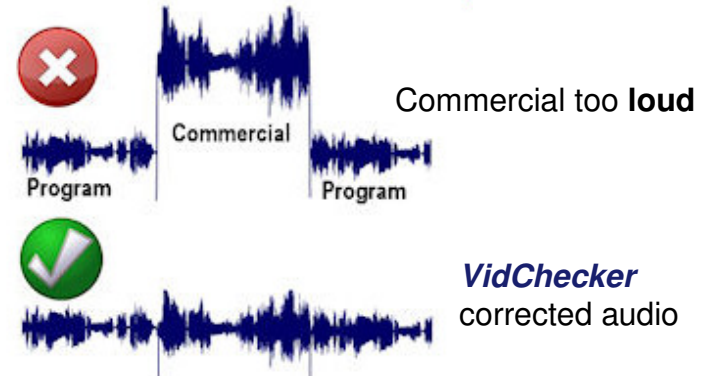
Typical "Legalizer" – color artefacts



VidChecker correction

➤ Audio is checked and corrected

- ❑ peak, loudness to ATSC (ITU) and EBU recommendations



VidChecker Advantages

VidCheck

File-based Video Test with Intelligent Automated Correction

- 2nd Generation of file-based QC: **Checking and intelligent correction**
- Flexible software solution with re-encode of corrected files
- Processing speed
 - ❑ Automatically takes advantage of multi core processors
 - ❑ Fully-scalable from single license processing 4 files to VidChecker Grid with enormous throughput
- Control / automation
 - ❑ Browser based GUI
 - ❑ Can move files in workflow on pass / fail / correction
 - ❑ Web service based API for integration with asset management / automation systems
 - ❑ XML based templates and reporting
- Low cost - from \$6K (typical configuration \$7.5K incl. maint.)
- Rapid development path