Release Notes for
Analysis and Analysis Pro in Vantage 6.3

About This Release

The Vantage 6.3 release includes some minor updates to **Vantage Analysis** and **Vantage Analysis Pro**. Vantage Analysis includes the Analyze, Examine, Compare and Identify Actions. Vantage Analysis Pro additionally includes the MediaInfo, QC and Report actions.

It should be noted that while the older Compare, Examine and Identify actions used components from the Vantage Media Transcoding and Analysis engine, the new actions do not use the same engine. Updates to the Vantage Media Transcoding and Analysis engine will not change the behavior of the Analyze, MediaInfo, QC and Report actions.

Please note that while the new Analyze action performs most of the same measurements as the Examine and Identify (Media Properties) actions, the core measurement code has been re-written to support full 64-bit processing and to improve performance. As a result, there may be differences between the information returned by Analyze and the results returned by Examine and Identify. Several such differences have been noted and are listed in the known issues section below. Please be sure to thoroughly test any workflow where Analyze is being used to replace Examine or Identify.

Installation in a Vantage Environment

Updated Analysis components are automatically installed as part of a Vantage 6.3 installation.

Note: If your maintenance has expired and you upgrade your Vantage system, it will not function after the upgrade. Vantage 6.3 requires you to obtain a new license from Telestream if your maintenance expiration date is **August 10th, 2014 or earlier**. Your maintenance expiration date can be found in the Licenses section of the Vantage Management Console, or you can contact license@telestream.net to verify that your maintenance is current and to obtain the new license.

! NOTE: Please test before upgrading your production environment

It is always advisable to run a separate copy of this new build, staging your production workflow in a test environment, before updating your Vantage production server. Telestream can provide you with a limited license in order to configure and qualify this new release in a test environment prior to upgrading your production server. For assistance email Telestream Support support@telestream.net or call our technical support team at 877-257-6245 (North America), +1-530-470-2036 (Europe, Africa and the Middle East) or +1 530-470-1300 (International).

New Features in this Release

DPP Validation Action

This new action in the Analysis section examines an XML document containing metadata used to generate AS-11 MXF files compliant with the requirements of the UK Digital Production Partnership. The action validates that the metadata in the XML is correct and can generate a report detailing any issues found with the metadata.

Ancillary Data Detection

A new Ancillary Data Detection filter has been added to the Analyze action. This filter detects the presence of captions, AFD and timecode in a file. It also has the ability to decode a 608 caption stream from a source file and Generate WebVTT and SMPTE 2052 files for use in web based video players. It is strongly recommended that Analyze be used for WebVTT and 2052 generation as the implementation has been greatly improved over the implementation in the Examine action. **Please Note: Decode of 608 data from VBI is currently not supported for WebVTT and SMPTE 2052 generation.**

Analyze SSIM

A new Structural Similarity tool has been added to the Analyze action. This is a tool that is used to give an index of perceptual quality differences between two copies of the same piece of video. It is typically used to assess quality degradation in a transcode by comparing the source and output video frames.

Analyze Slate Detection

Slate detection functionality has now been added to the Analyze action.

Action Upgrades

Analyze and QC actions can now be automatically upgraded after a Vantage version upgrade.

Fixed in this Release

The following reported issues have been verified as fixed in Vantage 6.3:

- GIR-9949: Analyze Advanced Audio Measurement now gives correct result for specific QuickTime source.
- GIR-9648: Analyze action no longer hangs at 0% with all MPEG inputs if only Media Properties is used
- GIR-9575: Specific sources now analyze correctly with Audio Analyze,
- GIR-9416: Analyze>Telecine Detection now correctly identifies Telecine on MOV sources
- GIR-9326: Analyze no longer detects 32 Channels of audio on a Video Only Source file
- GIR-9235: Analyze > Advanced Audio Measurement now works on WAV source files
- GIR-9083: Added support for Audio-only files in Analysis
- GIR-8743: Analyze > Advanced Audio Measurement now works for transport streams with AES audio.
- GIR-8658: Analyze no longer reports duration as non-drop frame for all content
- GIR-8602: Analysis is now detecting start timecode from LXF source file
- GIR-8579: Analyze: PSNR now requires the Reference Media File Nickname to be populated
- GIR-8515: Analyze > Audio Measurement now gives correct results on some sources, where before the result was -99.
- GIR-8502: Added parameter Scan type and field order in Mediainfo action
- GIR-8198: Added feature to detect the file modified date without a Monitor / Associate action
- GIR-8000: Analyze ->Advanced Audio Measurement no longer hangs with sources that have 384Kbps audio
- GIR-7882: Analysis actions now report correct Video Bitrate for Transport Stream sources
- GIR-7641: Added ability to read timecode from Harris MP4 Proxy
- GIR-7457: Identify - Checksum process no longer keeps running after job is stopped
- TXC-6130. TXC-6020, TXC-6019, TXC-5991: Fixed issues with "Relative Gated Loudness" in Examine action
- TXC-4809: Specific DNxHD MOV file is now correctly Identified as Interlaced
- TXC-4689: Identify will now detect all audio channels of certain ProRes sources
- TXC-4143: Identify filters are now properly detecting audio media properties of Agility TIFO files
- TXC-4142: VANC Examine filters are now detecting AFD or captions from Agility TIFO
- TXC-2803: Identify action no longer fails for video-only MPEG-2 Program Stream files

New Known Issues in this Release

The following new issues have been reported since the Vantage 6.2 Release:

- GIR-10411: WebVTT generation fails for certain source files.
- GIR-10367: Analyze action can intermittently fail on a heavily loaded machine.
- GIR-10355: If audio analysis is not last in the analyzer list, action will fail.
- GIR-10353: Intermittent failure making WebVTT files with Analyze
- GIR-10251: WMV source hangs Analyze action when set to use media properties
- GIR-10201: Force flip decoder not working for Analyze with Ancillary Data Detection.
- GIR-10191: Analyze/QC returning Aspect Ratio as true for 2.39x1 for all clips
- GIR-10181: Analyze > Black Detection has incorrect Timecode on last End Active segment.
- GIR-10156: Analyze: WebVTT and SMPTE 2052 outputs don't contain text when using some VBI sources
- GIR-10155: Examine and Analyze/QC suggested crop values are incorrect for several files
- GIR-10136: Incorrect Aspect width/height values being returned from Analyze/QC
- GIR-10135: Analyze/QC -> curtain detection not identifying black with luma set to either 5 or 10
- GIR-10132: Analyze/QC: Values for several level/gamut variables differ from Examine.
- GIR-10101: Certain QT and MXF sources cause Analyze > Ancillary Data Detection to crash
- GIR-10031: Analyze/QC: Results returned for Macroblock detection differ by a lot between Examine/Analyze for some sources.
- GIR-10011: Analyze > Ancillary Data Detection with a 59.94 source, generated Web VTT file contains incorrect timecodes.
- GIR-9917: Analyze doesn't return a timecode for specific files
- GIR-9870: Black Detection not passing correct timecode to variables
- GIR-9679: Vantage Analyze Advanced Audio measurement has Absolute Gate Error
- GIR-9328: Interlacing detection / scan type results different between Analyze and Examine
- GIR-9295: MediaInfo: TimeStamp_FirstFrame needs to be Timecode type not Integer
- GIR-9187: Loudness Analysis of audio only files in Analyze fails if "Force Flip Decoder" is checked
- GIR-8901: Analyze Audio Measurement doesn't measure audio from some source files.
- GIR-8628: Analyze incorrectly identifying Display Aspect Ratio on Anamorphic SD clips
- TXC-6019: Possible issue with true peak measurement in examine
- TXC-5334: The Examine Levels filter is not ignoring VBI
- TXC-5247: Black Detection with certain sources producing incorrect timecode variables
- TXC-5131: GXF SD source has issue removing black slate with Examine Slate Detection action
- TXC-4945: Need a provision for allowing a timecode returned by the Slate Detection analysis filter to be drop-frame
- TXC-4898: Slate detection in Examine incorrectly detects 2 pop as spot

Other Known Issues in this Release

These are reported issues for Analyze, MediaInfo, QC and Report from the Vantage 6.2 release that have not been verified as fixed in Vantage 6.3

- GIR-8097: When using "consider audio" with Black detection in Analysis, there is a cumulative lag in start and end timecode
- GIR-7606: Analyze & QC Duration Detection using Flip decoder detects WMV frame rate as 30.303 instead of 29.97
- GIR-7536: Analyze slower than Examine when using Level/Gamut and Macroblock analysis
- GIR-7526: Analyze & QC Curtain Detection: Aspect Ratio Detection results do not match results from Examine
- GIR-7471: Analyze PSNR will not compare files where the frame rates do not match. The Compare action does allow this.
- GIR-6850: Analyze Black Detection does not allow users to force Drop / Non-Drop timecode generation. Please continue to use Examine if this functionality is required

These are reported issues for Compare, Examine and Identify from the Vantage 6.2 release that have not been verified as fixed in Vantage 6.3

- TXC-4865: Unexpected results from Black detection in Examine
- TXC-4776: Identify action hangs forever on broken MP4 source files without timing out.
- TXC-4752: Analyze doesn't read DV codec information from QT DV25 sources
- TXC-4685: Examine: Black Detection results are off by 1 frame at start, and get progressively worse
- TXC-4530: Examine Advanced Audio Loudness hangs at 99% with customers XDCAM source file
- TXC-4429: Identify does not detect audio in MPEG1 source files
- TXC-4315: Analyze content duration reported incorrectly for Quantel DVCProHD 720p 5994 MXF files
- TXC-4329: Incorrect TimeCode in SMPTE 2052 file generated by Examine
- TXC-4203: Some Mpeg-2 PS source files won't Identify Video Codec correctly
- TXC-4133: Identify is reporting incorrect duration for PitchBlue source files
- TXC-4087: RF64 wav files fail on Identify Action
- TXC-3964: Identify does not read XDCAM codec information
- TXC-3943: Black Detection will only return values for black segments in the first hour of content
- TXC-3922: Identify Aspect Ratio is incorrect on 16x9 AVI source file
- TXC-3668: Can't identify aspect ratio with SD TIFO files from Send to Playback
- TXC-3545: Identify doesn´t detect number of audio channels from MPEG-PS source
- TXC-2838: AFD Detected and AFD Value not reported when Examining Omneon sources
- TXC-2789: The Identify fails for MP4 sources with PCM or AC3 audio
- TXC-2738, TXC-2654: WMV Aspect Ratios are not correctly identified
- TXC-856: Identify returns incorrect duration for some Transport Stream files

The following formats do not work correctly with Identify:
- Some AVI files, Flash 8 FLV, Flash 9 F4V, M2A, MP3, MPEG-1 System Stream, Windows Media Audio (WMA), Panasonic P2 MXF