

Release Notes for Analysis and Analysis Pro in Vantage 6.0

About This Release

The Vantage 6.0 release includes a major update to the Vantage Analysis and Analysis Pro products. In addition to the Compare, Examine and Identify actions from earlier versions of Vantage, Vantage 6.0 provides four new Analysis actions; Analyze, MediaInfo, QC and Report.

The new Analyze action is part of Vantage Analysis and is available to all existing customers with current maintenance. The new MediaInfo, QC and Report actions are part of a new product offering, **Vantage Analysis Pro** which is a paid upgrade to Vantage Analysis.

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 6.0 installation.

Note: If your maintenance has expired and you upgrade your Vantage system, it will not function after the upgrade. Vantage 6.0 requires you to obtain a new license from Telestream if your maintenance expiration date is **September 1st, 2013 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

The following new Analysis features are available in the Vantage 6.0 release.

Analyze Action

The new Analyze action allows multiple analysis stages to be performed in a single action. This new action combines most Examine, Compare and Identify (Media Properties) capabilities into a single action to avoid having to read the same file multiple times. *Note: Slate Detection and Ancillary Data Detection are only available within Examine in this release.*

MedialInfo Integration

The new MedialInfo action allows full MedialInfo parameters to be used for decision-making. This includes Dolby E detection and channel configuration analysis, and audio language tracks. The MedialInfo action can also create a report on the media asset providing a full list of available MedialInfo parameters in a variety of file types including PDF and Excel. *Note: This feature requires Analysis Pro.*

QC Action

The new QC Action allows the specification of expected values, and will provide a pass or fail result. This combines most Examine and Identify (Media Properties) capabilities into a single evaluation step that will then generate a single pass/fail variable. The QC action can also create a report on the media asset indicating pass/fail state, and indicating which parameters (if any) did not meet the specified criteria, in a variety of file types including PDF and Excel. *Note: This feature requires Analysis Pro.*

Report Action

The new report action generates a report of all variables that are utilized in the workflow, along with their value at the time of execution. The action can create a variety of report file types including PDF and Excel. *Note: This feature is included with the Reporting option, or with Analysis Pro.*

Compare, Examine and Identify

The following additions have been made to the functionality of Compare, Examine and Identify.

- Max Momentary and max Short Term Loudness measurements have been added to the Advanced Audio Analysis in Examine. *Note: These measurements are not yet included in the Analyze action.*
- The option to generate two separate SCC outputs, one for each field, is now available in the Ancillary Data Detection Filter.
- The black detection analysis filter in examine can now be configured to return drop-frame timecode.

Fixed in this Release

The following reported issues with Compare, Examine and Identify have been verified as fixed in Vantage 6.0:

- TXC-4001: Examine Black Detection filter results are now correct with 2997fps sources
- TXC-3988: Black Detection now reports correct timecodes for source MXF files
- TXC-3930: Avid AVCI50 MOV files identifies correctly
- TXC-3828: Color Gamut Analysis now fixed for mpeg sources
- TXC-3727: Identify video bit rates have been fixed for Final Cut XDCAM sources
- TXC-3726: We can now identify profiles of ProRes422
- TXC-3639: AVCI50 identify codec correctly for TIFO and MOV sources
- TXC-3614: Ancillary Data Detection filter can now detect Drop/Non-drop Timecode
- TXC-3611: ANC Examine filter now correctly recognizes Drop-Frame Timecode
- TXC-3431: FCP HDV 1080p60 is now correctly reporting aspect ratio of 16x9
- TXC-3303: Ancillary Data Detection filter now detects proper timecode
- TXC-3057: Identify will now detect correct header information from QT XDCAM HD
- TXC-3020: Fixed Identify of QuickTime based XDCAM essence originating from FCP system
- TXC-2952: Identify no longer crashes on m2v source files
- TXC-2859: Added active segment for Examine "Interlacing detection"
- TXC-2827: Bit depth of 24 bit WAV files is now identified correctly
- TXC-2678: Added Option to generate two separate SCC outputs, one for each Field
- TXC-2661: Fixed issue examining some GXF HD files
- TXC-2486: FCP XDCAM files now Identify correct information for Video Codec
- TXC-2310: Identify now correctly detects the video bitrate of DNxHD MOV source files
- TXC-1481: Identify action can now be used on MPEG-2 Elementary DVD format

New Known Issues in this Release

IMPORTANT → GIR-7463 – The Analyze and QC actions will fall back to using the Flip decoder for certain file types, or if the “Force Flip Decoder” checkbox is checked. Actions using the Flip decoder will fail unless the file *VirtualDecoder64.ax* is registered manually. The error will report as “Reader (DirectShow) failed to read the input file”. To correct this, please run the following command from the command line (you do not need to restart the Vantage services):

```
regsvr32 "C:\Program Files x86)\Telestream\Transcode\bin\VirtualDecoder64.ax"
```

The following issues have been reported for the new Analyze and QC actions:

- GIR-7557: Analyze Advanced Audio Measurement results do not match those generated by Examine
- GIR-7548: Setting Minimum audio sample rate for media properties causes QC action to fail
- 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-7523: Analyze Relative Gated Loudness provides different results to Examine. Please continue to use the Examine action for Relative Gated Loudness measurements.
- GIR-7512: Analyze PSNR Compare, Ignore margins setting is not working.
- GIR-7508: Analyze & QC Curtain/Letterbox Detection: Will not work if "Define behavior for media that contains multiple, differing curtained segments" is disabled
- GIR-7471: Analyze PSNR will not compare files where the frame rates do not match. The Compare action does allow this.
- GIR-6850: Add Analyze Black Detection does not allow users to force Drop / Non-Drop timecode generation. Please continue to use examine if this functionality is required.

The following new issues have been reported for Compare, Examine and Identify since the Vantage 5.0 Release:

- 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-4143: Identify filters are not properly detecting audio media properties of Agility TIFO files
- TXC-4142: VANC examine filters are not detecting AFD or captions from Agility TIFO
- TXC-4133: Identify is reporting incorrect duration for PitchBlue source files
- TXC-4118: Examine doesn't detect Omneon AFD from Vantage created 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-3326: Identify does not find the correct frame rate of certain QT sources
- TXC-3291: Identify is detecting incorrect video codec for EVS DVCPProHD
- TXC-3290: Identify is detecting video when video stream is not present (MXF encoder)
- TXC-3204: Cannot identify video bit rate on Apple MP4 H264 main profile or H264 Sony PSP outputs

Other Known Issues in this Release

These are reported issues for Compare, Examine and Identify from the Vantage 5.0 release that have not been verified as fixed in Vantage 6.0

- TXC-2916: Can't identify AAC Audio in a Transport Stream
- TXC-2838: AFD Detected and AFD Value not reported when Examining Omneon sources
- TXC-2803: Identify action fails for video-only MPEG-2 Program Stream files
- TXC-2789: The Identify fails for MP4 sources with PCM or AC3 audio
- TXC-2838: AFD data is not detected for Omneon sources made in Vantage
- TXC-2738, TXC-2654: WMV Aspect Ratios are not correctly identified
- TXC-2827: Bit depth of 24-bit WAV sources is incorrectly identified

- TXC-856: Identify returns incorrect duration for some Transport Stream files
- TXC-1782: Identify for field ordering does not work for most QuickTime codec types

The following formats do not correctly work with Identify:

- Some AVI files, Flash 8 FLV, Flash 9 F4V, M2A, MP3, MPEG-1 System Stream, Windows Media Audio (WMA), Panasonic P2 MXF