

## Release Notes for Transcode, Transcode Pro in Vantage 6.3

### About This Release

The Vantage 6.3 release includes updated components for Vantage Transcode and Transcode Pro products. This release includes a number of format additions, as well as several bug fixes. Some of these updates may also affect the Flip Decoder input option of the Multiscreen Flip action and the IPTV VOD Flip Action.

*Note: The Vantage 6.3 release includes Media Transcoding & Analysis release 2014.7.37.139131.*

### Installation in a Vantage Environment

Updated Transcode and Transcode Pro 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 10<sup>th</sup> 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](mailto: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](mailto: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).

## Important Notices

### Lightspeed Jobs Hanging on K20 Servers

In certain circumstances, Lightspeed accelerated x264 encoding jobs that ran on Mk1 Lightspeed servers can hang on K20 servers. There is a workaround for this issue using the `-threads X264` command line argument, please contact Telestream support for assistance. This issue will be addressed in the next Vantage release.

### Upgrading to the latest transcoder

The Vantage 6.3 installer ships with Transcode and Analysis engine version `2014.7.37.139131`. By the time of release a later transcoder 2014.9 will be available that contains additional features and bug fixes. It is only recommended that you upgrade to the latest transcoder if advised to do so by Telestream Support. The 2014.9 transcoder update can be installed directly on top of a Vantage 6.3 installation and should be installed on every transcoding node of your Vantage system.

### Systems with a 2014.7 or 2014.8 Transcoder already installed

The original 2014.7 Transcoder update was released in June 2014, and 2014.8 was released in July. *Customers who installed either of these updates on their Vantage 6.2 systems need to uninstall the old their transcoder before installing Vantage 6.3.*

### Deprecated codecs

Certain video and audio compression formats used in AVI media containers were available in Vantage if suitable codecs were installed on the Vantage transcoding nodes. The makers of these codecs no longer maintain them and we are now unable to support them on the Windows Server 2008 and Windows Server 2012 operating systems for which Vantage 6.3 is supported. Affected codecs are:

- Intel Indeo Video
- Microsoft Video 1
- Fraunhofer IIS MPEG Layer 3

### Telestream Decoder Change

Significant changes have been made to the Telestream Decoder in Vantage 6.3 (see new features section). If you were previously using the Telestream decoder, please contact Telestream support for assistance.

## **Telestream Media Framework**

Reference is made in this document to the Telestream Media Framework. This is a common framework developed by Telestream for reading, writing and analyzing many different kinds of media files.

Telestream Media Framework is used across multiple Telestream products including Vantage and Switch, Telestream's new media playback, inspection and conversion tool.

## **New Features in this Release**

The following new Transcode, and Transcode Pro features are available in the Vantage 6.3 release.

### **Sony XAVC Decoding**

The Flip action can now decode Sony XAVC Intra files with support up to 4K (see Telestream decoder section below).

### **Panasonic AVC Ultra LongG Decoding**

The Flip action now decodes AVC Ultra LongG files from Panasonic cameras.

### **Telestream Decoder**

An updated "Telestream" decoder option is available in the decoder selection drop down. This decoder uses the Telestream Media Framework to read several different file types including:

- Sony XAVC Intra (up to 4K)
- Some MXF Files

### **QuickTime (Telestream) Encoder**

A new QuickTime (Telestream) encoder type is available in 6.3. This encoder is based entirely on the Telestream Media Framework and is not reliant on Apple's QuickTime for Windows. New features -in the QuickTime (Telestream) encoder include:

- Encoding ProRes up to 4K resolution
- Encoding ProRes 4444
- Encoding 10-Bit DNxHD
- Support for encoding multiple audio tracks in a QuickTime file

### **Decoder User Interfaces**

A number of new decoder types have been added to the decoder selection drop-down and many more user controls have been added to allow greater control of decoder behavior.

### **Nielsen Watermarking for VOD**

In addition to commercial content, Nielsen watermarking is now supported for VOD watermarking.

*Note: This requires purchase of the Vantage Nielsen option.*

### **Civolution Teletrax Watermarking**

Civolution Teletrax Video Watermarking can now be performed during a transcode. *Note: This requires both the purchase of the Vantage Civolution option and a separate license from Civolution.*

### **MP4 Encoder**

The MP4 encoder in Vantage 6.3 supports generation of proxies for use in the new Vantage Web Portal.

### **DNxHD Decoding**

DNxHD decode capability has been upgraded to support decode of DNxHD 444 at full 10-bit resolution.

### **ProRes Decoding**

ProRes decode capability has been upgraded to support decode of ProRes 4444 at full 10-bit resolution.

### **AS-11 DPP Encoding**

AS-11 encoding in Vantage 6.3 has been qualified to make files that comply with the requirements of the Digital Production Partnership in the UK.

### **VOD Encoder RDD 11 support**

The VOD Transport Stream encoder in the Transcoding and Analysis engine in Vantage 6.3 now supports the insertion of Ancillary Data according to SMPTE RDD 11-2007

### ***Avid Support***

This release supports integration with Avid Interplay 3.0 and Media Composer 7.0 using the AAF encoder, the TransferEngine encoder and the Send to Playback 3.0 installers.

## Fixed in this Release

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

- TXC-5874: FCP encoder XDCAM outputs now play correctly in Final Cut 7 & X
- TXC-5799: Fixed macroblocking artifacts when decoding IMX QuickTime MOV files.
- TXC-5753: Captions now play correctly on DVS Venus playout device
- TXC-5661: Specific XDCAM MOV source file now transcodes successfully
- TXC-5630: IMX MOV source file now transcodes
- TXC-5629: IMX 50 MOV file decodes correctly in Examine
- TXC-5490: Specific MP4 sources now decode correctly
- TXC-5457: Added Aspect Ratio Control for Mpeg2 in Elementary Stream Encoder.
- TXC-5452: Fixed issue decoding specific transport streams
- TXC-5413: Fixed issues decoding captions off GXF SD file in YUV Multi-Core VPL mode.
- TXC-5412: Chinese source file names get preserved on a Chinese OS using MP4 encoder
- TXC-5400: Elementary Stream Encoder WAV outputs can be copied / moved.
- TXC-5386: We can now decode AVC-Intra MXF files from Grass Valley Edius
- TXC-5380: Audio only AIFF files now transcode.
- TXC-5377: Fixed caption sync issue decoding XDCAM HD source file.
- TXC-5367: Specific GXF source no longer truncated after transcode
- TXC-5358, TXC-4880: Trim and Timecode Override can now be performed in a single Flip.
- TXC-5353: Fixed VOD encoder PTS errors.
- TXC-5332: XDCAM MXF outputs now import into Avid
- TXC-5303: SCC files generated in Examine now support Drop-Frame timecode
- TXC-5288: AFD from VANC insertion now preserved into XDCAM outputs.
- TXC-5270: Specific large ProRes source file now transcodes successfully.
- TXC-5263: Auto Trim pre-roll filter no longer causes transcode to hang and timeout
- TXC-5168: Fixed issue with writing to the ISIS once a certain number of files in dir has been reached.
- TXC-4937: Fixed timecode discrepancy on P2 MXF encodes
- TXC-4931, TXC-4930: Vantage P2 output now preserves timecode
- TXC-4919: Video now preserved from specific source file
- TXC-4911: Tachyon LXF MPEG-2 encodes no longer hang and time out.
- TXC-4903: Encoded WEBM files now have audio
- TXC-4900: QT ProRes source files now transcode if there are over 16 Channels of Audio
- TXC-4896: Added user control of prefix for selectable timecode in the timecode burn-in filter
- TXC-4895: Specific MP4 files will now successfully transcode to MPEG-1
- TXC-4892: Added H.264 direct convert to flip MP4 encoder.
- TXC-4869: Avid AAF DNxHD encoder: captions now in correct outputs w/ specific ProRes sources
- TXC-4866: Fixed keyframe encoding speed issue.
- TXC-4860: Omneon outputs from MP4 sources have correct audio
- TXC-4857: Added GOP timecode support for IMX D10.
- TXC-4855: Sony Content browser 2.2 no longer rejects Sony XDCAM 422 file from Flip
- TXC-4851: Audio preserved from certain ProRes MOV sources after transcode
- TXC-4835: Fixed empty space in MP4 files made in TSEDL workflows

- TXC-4834: AS-11 is now creating uniquely named on output files
- TXC-4821: Fixed Timecode burn-in issue for specific source file
- TXC-4807: File durations now preserved in some Omneon to Omneon transcodes
- TXC-4806: Fixed hang when decoding specific QuickTime source file
- TXC-4784: Fixed caption preservation issue for specific source file
- TXC-4782: Fixed MP3 to MP2 audio transcodes
- TXC-4779: Fixed decoding of specific ProRes source with some invalid metadata.
- TXC-4774: Fixed memory leak when transcoding certain sources files to Program Stream
- TXC-4755: MP4 encoder can now add audio language tag
- TXC-4754: Fixed duplicate frames in XDCAM output
- TXC-4753: Fixed issue with Keyframe encoder hanging on Lightspeed servers
- TXC-4730: Fixed default values for Elementary Stream encoder MPEG-2 codec
- TXC-4728: Fixed visual artifacts generated from Multi-core/Lightspeed VPL with Civolution Watermarking filter.
- TXC-4727: Fixed empty space in MP4 files made from TIFO sources
- TXC-4721: Fixed decoding of VBI Captions off specific m2v SD source file
- TXC-4719: Fixed caption sync after transcode of MXF XDCAM source file
- TXC-4712: Fixed issues with Bumpers and Trailers with Media Expansion in YUV mode.
- TXC-4688: DolbyE auto detection will now recognize DolbyE in any incoming PCM channels.
- TXC-4669: IMX MOV transcoded to IMX MXF in Multi-core/Lightspeed VPL no longer causes a green frame at end of file
- TXC-4630: Fixed A/V Sync issues for specific MP4 sources
- TXC-4627: Added ability to insert ATSC AFD into VOD Transport stream
- TXC-4622: Fixed D-10 IMX MOV direct converts to D-10 MXF
- TXC-4603: Omneon Direct Converts no longer change SOM timecode from original SOM
- TXC-4601: AFD insertion on SD outputs now placing data on both fields
- TXC-4598: Corrected index tables in certain MXF OP1a outputs
- TXC-4597: Specific 1080 50i XDCAM QT ref sources from Avid, with cuts, now transcode
- TXC-4589: Fixed preservation of audio channels 17-32 from certain ProRes source
- TXC-4575: Media Expansion no longer fails with customer's LXF source file
- TXC-4561: Proxy audio now plays back correctly on Interplay Central
- TXC-4558: Added option in FCP encoder to select the PAR for the output
- TXC-4556: Added option to select 486 height resolution in FCP Encoder
- TXC-4552: Timecode now preserved going from ProRes SD to Omneon IMX
- TXC-4489: Fixed memory leak issue decoding specific XDCAM source file with 16 ch BWF audio
- TXC-4481: VOD outputs are now Quad-Byte aligned
- TXC-4476: Fixed intermittent timeouts w/ Avid AAF XDCAM 422 HD Direct Convert workflow.
- TXC-4459: TC burn in does now scale with output size in 8 bit VPL
- TXC-4444: Flash VP6 encoder no longer crashes when using Multi-core Video Processor
- TXC-4430: AVCHD MTS sources with PCM audio now decode correctly
- TXC-4422: Creating FCP outputs with 708 captions checked, from a source without captions no longer creates an invalid file
- TXC-4414: Added MPEG2 to generic OP1a MXF container in the MXF encoder
- TXC-4408: All audio preserved when transcoding Pipeline TIFO file (with DolbyE) to IPTV
- TXC-4405: TimeCode burn-in now working in Multi-Core video processor

- TXC-4388: DVCPProHD file from MXF encoder no longer has one extra frame in output
- TXC-4387: Now able to decode MXF Op1a audio only files
- TXC-4386: Issues ingesting certain AS-02 J2K files have been fixed
- TXC-4358: Media Expansion now adds a valid caption stream for 60Hz and 24Hz sources
- TXC-4357: Direct convert of specific XDCAM to HD LXF no longer results in visual artifacts.
- TXC-4349: Multichannel audio-only TIFO source files no longer fails in Examine and Flip actions
- TXC-4321: Added VANC packet scanner filter to fix certain VANC preservation issues.
- TXC-4311: Added ability to make IMX with stereo audio tracks in MXF
- TXC-4293: Added ability to make WebM with audio at 128kbps
- TXC-4271: Fixed luminance issues for Media Expansion with MOV sources.
- TXC-4244: XDS information from Source file is no longer over-written by SCC insertion.
- TXC-4240: Added AVC-Intra to the Generic OP1A container in the MXF encoder
- TXC-4201: Fixed quality issue with certain MPEG2 HD 4:2:2 Encodes
- TXC-4200: Fixed decode issue with certain Avid QT Reference sources.
- TXC-4190: Fixed issue with file references in MPEG-2 Elementary Stream encoder
- TXC-4155: Fixed preservation of captions from DNxHD user data in MOV 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 and captions from Agility TIFO files
- TXC-4110: Added XDCAM EX 1080i full raster video resolutions to MXF Encoder
- TXC-4072: Fixed timeout when doing WMV 2pass encoding of long assets (over 2 hours)
- TXC-4064: Fixed issue with progress bar during Transcode of PitchBlue sources
- TXC-4028: Added option for MXF OP1a 1080@24p 50Mb/s I-Frame only w/ AES3 Audio
- TXC-4003: MXF XDCAM HD 4:2:2 Direct Convert outputs do now play correctly on DVS Venice
- TXC-3982: Multi-Core VPL no longer hangs on Source Timecode Burn-in with Mpeg Source file
- TXC-3971: Identify now detects additional Media properties on MXF wrapped XDCAM HD
- TXC-3955: MXF DVCPRO HD Harris Source file now Identifies and decodes
- TXC-3944: Fixed blocking artifacts when creating MXF XDCAM HD 422 output
- TXC-3909: Timecode from 23.98 XDCAM EX source now preserved correctly
- TXC-3867: WAV files that use WAV\_FORMAT\_EXTENSIBLE can now be decoded
- TXC-3853: Long AAF Encoder outputs will now play in Interplay Access and MediaComposer
- TXC-3813: Fixed blocking artifacts when transcoding DNxHD to XDCAM HD 4:2:2
- TXC-3804: Fixed language descriptor for "original audio" when doing IPTV encoding
- TXC-3746: Fixed A/V Sync issue when certain Mpeg2 PS file is Direct Converted to VOD
- TXC-3665: Fixed A/V sync issue for TSEDL workflow
- TXC-3597: Transcode of corrupt QT MOV files now timeout.
- TXC-3584: Updated VANC handling in LXF encoder to work with latest LXF server software
- TXC-3560: Fixed issues decoding certain QT ref files
- TXC-3529: Fixed the default field order for the 360 MAXX HD files
- TXC-3456: Added decode of single MXF OPAtom files
- TXC-3309: Selecting 16 Bit Windows Media Audio WMA now always makes 16-bit outputs
- TXC-3294: Source AVC HD from Canon EOS C100 now decodes correctly
- TXC-3293: MXF XDCAM audio UI now allows a minimum of 2 channels
- TXC-3210: Identify now reads Media Properties of MP4 XDCAM EX sources
- TXC-3073: Added support for encoding to MP4 with audio only in GP Transcoder
- TXC-2923: Added Avid IMX 50 Direct Convert option in FCP encoder

- TXC-2891: Fixed IPTV encoder MPEG-1 Layer 2 direct converts
- TXC-2767: Transcode of Video-only Mpeg 2 Program Stream files now succeeds
- TXC-2740: Source Timecode Burn-In now works with MOV sources
- TXC-2708: Audio now preserved when flipping specific QT ProRes source clip
- TXC-2691: Added XDCAM EX 720p codec profiles to MXF & FCP encoders
- TXC-2608: Correct A/V sync issue in FCP Direct Convert of ProRes 1080@23.98 sources
- TXC-2519: Fixed duration preservation issue for MOV direct converts.
- TXC-2185: Fixed SCC file reading at 23.98 Hz

## New Known Issues in this Release

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

### General Transcoding Issues

- TXC-6189: Encodes with teh MP4 encoder very occasionally hang and time out.
- TXC-6186: Flip action fails when image sequence source is on a Mac SMB share
- TXC-6184: Certain 8-bit DPX sequences fail if manually submitted to a transcode workflow.
- TXC-6160: AS-11 SD outputs fail DPP Metadata Application test due to invalid picture format
- TXC-6140: Minor color artifacts when going to 4:2:2 color in MPEG2
- TXC-6136: Minor error for Relative Gated Loudness Examine with Advanced Audio Measurement with certain source files.
- TXC-6131: Image Overlay filter in Multicore & LS VPL not fading out when it should.
- TXC-6126: Tachyon encoding of DNxHD 444 source producing bad video
- TXC-6124: Omneon encoder should make full ATSC caption packet for SD MPEG2
- TXC-6113: Issue with channel mapping making MXF AVC Proxy
- TXC-6111: QuickTime Telestream ProRes 4444 makes bad video in Tachyon mode
- TXC-6104: Audio fade filter isn't working in Flash 8 and WMV encoders
- TXC-6103: 720P50 option in MXF XDCAM 4:2:2 codec is making files that fail to load on to a XDCAM 422 deck.
- TXC-6100: 1080P24 MXF XDCAM 4:2:2 codec is creating a file that will crash the Sony content browser 1.1 and 2.0
- TXC-6092: Tachyon HD/SD down-conversion is adding incorrect letterboxing
- TXC-6090: Visual artifacts on certain MP4 source when encoder is set to YUV or GPU mode.
- TXC-6068: MXF XDCAM EX outputs identified with wrong bitrate
- TXC-6060: Quick Time(Telestream) Encoder issues with channel assignments
- TXC-6056: Possible issue with 23.976 fps burned in timecode
- TXC-6047: Possible issue decoding files from AJA Ki Pro.
- TXC-6043: MJPEG Direct Convert fails in GFX Encoder
- TXC-6042: Issue with ProRes MOV files in TSEDL workflows
- TXC-6040: Minor issue with composition offsets in Vantage encoded x264 MP4 files
- TXC-6037: Possible visual artifacts in MXF D-10 / IMX 50 encodes
- TXC-6031: Certain QT source file will not decode with Captions
- TXC-6015: Vantage's FCP / Avid x264 output used as source produces green bar in output
- TXC-6013: Customer's MOV XDCAM sources are truncated in transcode
- TXC-5999: Issue decoding certain DPX 4k source files
- TXC-5994: Transcoding WMV, Flash and MPEG-1 to MP4 produces larger than expected file size.
- TXC-5977: Audio issues on long QuickTime wrapped Omneon Mpeg2 outputs
- TXC-5937: MPEG2-PS output has longer audio and shorter video than source
- TXC-5934: Identify fails on WMV source for "Has Audio/Video" variables.
- TXC-5921: Intermittent issue with Omneon IMX outputs playing with slow audio
- TXC-5909: Examine SCC extraction on specific MOV file won't create populated SCC files
- TXC-5857: Certain DNxHD source files transcode with Green-ish Video on output

- TXC-5794: Tachyon: Gamma mismatch when going from ProRes 4444 to DNxHD
- TXC-5779: ProRes source file won't burn-in captions on output
- TXC-5757: Tachyon transcodes hang if frame rate is set to 15fps or below.
- TXC-5754: Specific GXF HD file not preserving Captions on Transcode
- TXC-5746, TXC-5709: Vantage encoded MXF XDCAM HD file rejected by Sony PDW- U2 device
- TXC-5729: Civolution Teletrax Watermark jobs to succeed even if the Civolution license has expired
- TXC-5727: Audio Measurement Levels differ between Examine and Analyze on many WAV files
- TXC-5699: IPTV H264 CFG import codec is ignoring bit rate setting
- TXC-5659: Final Cut / Avid QT output shows difference in audio and video duration
- TXC-5652: In the new QuickTime(Telestream) Encoder the ProRes Display Aspect Ratio UI selection box does not work.
- TXC-5650: New QuickTime(Telestream) Encoder HE-AAC audio, and AC3 audio do not work.
- TXC-5649: Bad outputs from Avid XDCAM HD 50 Reference files
- TXC-5632: Temporal reference value error on long MPEG1 output
- TXC-5631: Certain XDCAM MOV source file causes transcode to time out
- TXC-5626: EDL Decoder now requires the TSEDL file to include a full path for each file even if the files are local to the TSEDL file.
- TXC-5625: XDCAM 50i PAL long duration QTRef files failing to transcode.
- TXC-5621: Transcoding of certain QT ProRes source results in output files where audio has noise
- TXC-5614: Transcoding of QT DNxHD to Omneon MXF AVC-I fails
- TXC-5611: MP4 x264 Audio playout duration affected by Frame Rate 24/23.967 parameter.
- TXC-5586: Field encoded MP4 source will lose 1 frame when going to MXF AS11 AVCI 100
- TXC-5581: Examine start timecode is off by one frame on Omneon 60Hz MPEG-2 outputs
- TXC-5553: The Elementary Stream encoder hangs, and times out when items in the MPEG2 configuration is not set correctly.
- TXC-5543: 720p60 ProRes source encoded to IPTV NTSC/1080i60 with SCC insertion is doubling captions
- TXC-5537: Customer AS-02 JPEG2000 files no longer decode
- TXC-5535: Encoding to FCP XDCAM HD 4:2:2 720p23.98 results in files that are "jerky" when played in FCP/QT on Mac
- TXC-5533: Issue Retaining/Decoding Captions from H264/MOV 720p source file.
- TXC-5528: Static audio on x264/MP4 after transcoding ProRes MOV source
- TXC-5527: FCP x264 output cannot be played back by QuickTime when going to NTSC with HRD enabled
- TXC-5487: VOD TS outputs w/AES audio having issues playing out audio on VELA playout card
- TXC-5484: Issues Decoding Captions from DV TIFO source file
- TXC-5482: Specific WMV 8 source file won't Decode
- TXC-5448: Minor quality issue on TSEDL submits with IMX MXF files.
- TXC-5418: Interlaced Omneon AVCI in Tachyon mode hanging at 0%
- TXC-5401: Workflow portal can't read timecode for proxy made with Final Cut/Avid encoder
- TXC-5397: Omneon Video Track, Audio Track and Movie Track Tagging fields don't appear to be working correctly for DVCPProHD wrapped in QT or MXF
- TXC-5393: AFD won't get inserted into clip properties on K2 files
- TXC-5365: DNxHD 720p 10bit decoding issue

- TXC-5364: Transcodes hang when a non-QuickTime file is submitted to a Flip that has the QuickTime decoder selected.
- TXC-5363: Video only encode hangs when given audio only files in MP4 and QuickTime Encoders
- TXC-5334: The Examine Levels filter is not ignoring VBI
- TXC-5329: Multiple KeyFrame encodes from MOV source files will cause encode processes to hang
- TXC-5321: Encodes to Avid TM/TE DV25 NTSC hang at 0% in Tachyon mode
- TXC-5318: Identify action is reporting framerate as 29.97000002997 for QuickTime clips
- TXC-5306: Op1a MPEG2 encoder doesn't preserve 708 captions for particular profiles
- TXC-5294: Identify cannot determine the aspect ratio from default frame size IPTV outputs
- TXC-5292: Decoding Amberfin ProRes MOV sources result in Static audio on output
- TXC-5290: Direct convert of AVC-Intra outputs from Avid to the Omneon encoder fails.
- TXC-5276: FCP QT/XDCAM sources fail to transcode with timeout error
- TXC-5254: Vantage H.264 Encoder with Multi-pass encoding hangs on second pass and times out
- TXC-5247: Black Detection producing incorrect timecode variables for customer source
- TXC-5240: Some older WMV source files fail to transcode
- TXC-5238: Severe visual artifacts when decoding certain JPEG2000 sources.
- TXC-5233: AS-11 output files may have slight A/V sync error.
- TXC-5229: Apple Http Live Streaming Multibitrate Encoder outputs do not play when made with 2014.1 or later
- TXC-5226: Smooth Streaming encoder behaves differently since 2014.1
- TXC-5222: DNxHD AAF encoder outputs have ghosting effect with JPEG MOV source
- TXC-5216: MXF AS-11 Direct Convert from Avid Transfer exported source does not play video on Omneon Server
- TXC-5215: Small visual artifact with some sources going to FCP XDCAM 420/HDV codec in YUV/GPU mode
- TXC-5214: Avid TransferEngine: DVCPPro NTSC 25/50Mb output has color shift.
- TXC-5134: Examine action is reporting frame counts that are short by 1 frame.
- TXC-5131: GXF SD source has issue removing black slate with Examine Slate Detection action
- TXC-5130: QuickTime files with no extension won't flip in Vantage
- TXC-5102: Uncompressed TIFOs from Pipeline fail at the flip action.
- TXC-5020: Tachyon VPL combing artifacts on outputs
- TXC-4995: Omneon AS02 wrapped MPEG-2 outputs are losing frames in VBR encode mode
- TXC-4994: Omneon DNxHD Progressive outputs are corrupt/unplayable
- TXC-4991: FCP Encoder – H.264 QT CFG outputs showing Grey where Black frames should be
- TXC-4986: EVS timecode is not persevered correctly with some sources
- TXC-4976: XDCAM NTSC outputs to Avid TM getting 'partially offline' in Interplay Access window

## Other Known Issues in this Release

These are reported issues from the Vantage 6.2 release that have not been verified as fixed in Vantage 6.3.

### General Transcoding Issues

The following general transcoding issues have been reported:

- TXC-4962: Avid AAF: Media partially offline w/ H.264 Proxy 1080p 23.976 Interplay container workflow
- TXC-4945: Slate detection will not produce Drop-Frame Timecode
- TXC-4938: 16 bit VPL auto down-convert masking is incorrect
- TXC-4935: Certain WMV sources are failing with MS action and flip decoder
- TXC-4934: MXF AVC Proxy files we make cannot be decoded with production transcoders
- TXC-4933: Flip decoder: FLV sources cause failures and incorrect output color
- TXC-4932: Flip decoder: Color issues with some Omneon sources
- TXC-4927: Video fade filter doesn't work if 3:2 pull down filter is also used
- TXC-4925: Audio not decoded correctly from certain MTS files
- TXC-4923 : AAF DNxHD output shows Black border in Media Composer from certain sources
- TXC-4922: AAF Encoder Interplay is slower writing to ISIS 7000 than the Transfer Engine
- TXC-4921: MXF IMX D10 Encoder does not insert captions with the "Caption Insertion Filter"
- TXC-4915: XDCAM 422 MOV Transcode to FCP H264 w/cfg file causes Memory leak
- TXC-4898: Slate detection in Examine detects 2 pop as spot
- TXC-4873: Discrepancies in Audio Levels between Source (PCM) and Output (AC-3) files
- TXC-4865: Unexpected results from Black detection in Examine
- TXC-4861: Quality issue going from HD to SD using RGB video processor
- TXC-4859: Ability to decode Video only MXF source files
- TXC-4858: Unable to extract captions from certain MXF source files
- TXC-4856: Certain wmv files fail/hang when transcoding to MP4/x264
- TXC-4846: Vantage output files are rejected by MS Playready encrypter
- TXC-4845: 10 bit precision not preserved going from DNxHD to ProRes
- TXC-4822: 10 bit precision not preserved going from AVC Intra to ProRes
- TXC-4814: Issue with decoding certain wmv source files.
- TXC-4813: Caption decode issue from QuickTime DV source file (use fallback)
- TXC-4810: Avid AAF encoder hangs at 99% until time-out with WMV v9 source
- TXC-4809: Interlaced DNxHD MOV file is being Identified as Progressive
- TXC-4786: Down Convert filter has incorrect black Level on Letterbox selection
- TXC-4785: Certain WMV(VC-1) sources transcode slowly
- TXC-4778: Problems extracting captions from certain Transport Stream sources
- TXC-4776: Identify action hangs forever on broken MP4 source files (doesn't time out)
- TXC-4752: Analyze doesn't read correct codec information from QT DV25 sources
- TXC-4743: A/V sync issues with certain PitchBlue source files
- TXC-4740: MP4 sources crash direct converting video only in ES encoder
- TXC-4718: Unable to decode certain QuickTime audio only files
- TXC-4689: Identify won't detect all audio channels of ProRes sources

- TXC-4685: Black Detection results are off by 1 frame at start, and get progressively worse
- TXC-4678: Label produced by Examine: Black Detection does not match the Black Detection label template in the VMC
- TXC-4674: Media Trim filter will produce unexpected results when using an Omneon source and "Source Timecode Trimming"
- TXC-4638: Keyframe encoder often hangs with BPAV MP4 sources
- TXC-4629: Inverse Telecine not working with Multicore and Lightspeed Video processors
- TXC-4624: Decoding FFMpeg x264 source results in bad frames on output
- TXC-4620: MXF DNxHD files made with Preserve SMPTE 436 track enabled produces outputs which have no index information in the header
- TXC-4610: The Identify and Examine actions do not properly identify a media file if it's interlaced and top field first
- TXC-4609: Avid AVC150 MOV files have corrupt video when doing a DC in AAF encoder
- TXC-4606: x264 Preset "UltraFast" in LightSpeed mode results in a transcoder crash
- TXC-4600: Failure on Mpeg2 High@High files that are TSEDL submitted
- TXC-4594: Issue decoding certain XDCAM MOV files
- TXC-4587: Inserting 608 captions to FCP H.264 produces a corrupt output video
- TXC-4574: Certain WMV source files transcode with A/V sync errors
- TXC-4560: TSEDL workflows do not preserve captions from MOV source files
- TXC-4542: 608 to 708 up conversions create bad 708 captions with certain source files.
- TXC-4541: Timecode not preserved from XDCAM EX MP4 sources
- TXC-4538: Captions not decoded from P2 source
- TXC-4530: Examine hangs at 99% with certain MXF XDCAM source file
- TXC-4522: FCP IMX Direct Convert is failing with particular source
- TXC-4500: Black level on automatic letterbox filters not correct
- TXC-4498: VOD/MPEG-2 Direct Convert from specific source is extremely slow
- TXC-4482: Avid Vortex outputs are corrupt in YUV/LS/TACH processor modes
- TXC-4474: Direct Convert of LXF file leads to slow video playout (half-speed) on Nexio server
- TXC-4473: Identify after Omneon Monitor doesn't publish Audio Tag Variables
- TXC-4468: Quality issues when upscaling from SD to HD
- TXC-4461: Going to Omneon outputs with eight audio channels per file fails
- TXC-4439: Problems using Media Expansion to insert QuickTime Mov when using Multi-Core or Lightspeed video processing
- TXC-4429: Identify does not detect audio in MPEG 1 file
- TXC-4393: Captions/V-chip not preserved going from TIFO to GXF
- TXC-4355: Examine Action not detecting Telecine in certain source files
- TXC-4343: Examine unable to pull SCC from ProRes/DNxHD outputs created by Conform action
- TXC-4314: Artifacts in XDCAM HD Outputs
- TXC-4310: Avid TE – No Locators with sources that have starting timecode other than 00:00:00:00
- TXC-4308: Uncompressed output from Post Producer Conform action causes GP to create output with only green frames
- TXC-4305: Motion compensated de-interlacing filter does not work with crop filter
- TXC-4304: Timecode not preserved when using Tachyon in Omneon Encoder
- TXC-4301: Duplicate characters in caption stream encoded in field encoded H.264

- TXC-4300: Burned-in timecode from certain 720p 59.94 source counts to 39 frames, then resets to 0 for every second
- TXC-4284: GFX SD to DVCPRO HD MXF w/ Caption up-conversion to 708 scrambles output's Captions
- TXC-4270: Captions out of sync from certain Pitchblue source file
- TXC-4262: Issues direct converting Sony E-VTR D-10 source files
- TXC-4247: Examine fails trying to extract a .scc file from a ProRes/TIFO file generated by the Conform action.
- TXC-4233: Avid Transfer Manger/TransferEngine: IMX Direct Convert fails to play in Media Composer
- TXC-4222: DG 7.3: Caption display is missing from 720p file, after transcoding with media trim and media expansion filters enabled
- TXC-4210: WMV source transcoded to H.264/MP4 w/ stereo audio hangs @ ~25%
- TXC-4189: The field order is acting differently between Legacy, Multicore and LightSpeed in the 360 MAXX HD encoder
- TXC-4184: SCC Extraction of Field 2 captions generates unwanted characters on SCC output
- TXC-4182: Black Detection w/ Consider Audio enabled gives incorrect Segment End time values
- TXC-4010: Encoding to MXF AS02 - JPEG2000 crashes when using Tachyon Video Processor
- TXC-4009: 360 MAXX HD Encoder fails when using Tachyon Video Processor
- TXC-3964: Identify does not read XDCAM codec information
- TXC-3948: GFX 1080 down-converted to GFX SD DV shows artifacts and color shifts on text
- 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-3911: Omneon QT MPEG-2 720p60 timecode being decoded incorrectly
- TXC-3902: Issue decoding WMV1 source file
- TXC-3821: Vantage DNxHD MOV outputs won't "fast import" into Avid Media Composer
- TXC-3809: IPV Spectreview output does not create idx3 and idx4 if Specify Multiple Languages is enabled
- TXC-3694: MXF Application Specification Encoder fails trying to make JPEG 2000 in Tachyon Mode
- TXC-3693: AS02 JPEG2000 bit rate controls do not affect changes in the video bit rate
- TXC-3647: Some Omneon files will not transcode to FCP DVCPProHD 720p if 708 captions are enabled
- TXC-3636: Audio Fade in/out doesn't work with Audio only source to Audio only outputs
- TXC-3616: Expected P2 MXF encoder output files are not present
- TXC-3603: Nexio DV SD Transcoding to Omneon SD loses Captions
- TXC-3569: Scrambled or missing captions on Tachyon IPTV encodes
- TXC-3556: Resize filter in YUV VPL doesn't correctly pad for Letterbox with certain sources
- TXC-3527: Field order option not Available for Grass Valley MXF format
- TXC-3520: A/V sync issue applying Media Trim filter to MXF wrapped XDCAM HD422 sources
- TXC-3436: Omneon QT Direct Convert 'User Data Creation' box does not preserve captions
- TXC-3421: Transcoding AVC/MP4 sources with 1080@59.94 Progressive frame rate, creates an output with double the playout speed
- TXC-3292: Captions are lost if Source File has a Bumper/Header without a caption track
- TXC-3277: Caption insertion fails with SCC files with "Byte Order Mark" at start
- TXC-3192: Video only WMV/VC-1 source file fails going to Flash9 or WebM codecs

- TXC-3179: AAF encoder issues with Unicode filenames
- TXC-3134: Issues Decoding 720P AVC-Intra from MXF sources
- TXC-3011: Multithread Flash VP6 encodes will fail when using Multi-core Video Processor
- TXC-2995: A/V sync issues when transcoding ReutersSat sources
- TXC-2959: SAF files fail to direct convert to Seachange encoder
- TXC-2901, TXC-2900: Issues with field order detection in Examine
- TXC-2880: Omneon AS-02 AVC Intra 720p60 50Mbit doesn't play out on the Omneon server
- TXC-2868: Output file duration is incorrect when using QT Interstitials in Media Expansion
- TXC-2860: Issues decoding 720p DVCPProHD from Avid Playback Service
- TXC-2834: Media Expansion "Insert Black Frames" have high luma values
- TXC-2785: Using Move action for the P2 Encoder outputs doesn't work
- TXC-2753: TSEDL files with fills fail to direct convert to DV50 in MXF encoder
- TXC-2742: Issues with TSEDLs referencing DV essence clips
- TXC-2685: Quality issues with Grass Valley MXF files
- TXC-2631: When encoding audio at bitrates greater than 192 Kbps in the Flip IPTV encoder, audio may drop out when playing the output stream
- TXC-2396: IPTV/x264 with Lightspeed video processor creating bad outputs on Full Raster 1080 outputs
- TXC-2289: K2 MXF D10 transcoding to WMV randomly produces files without audio or with corrupt video
- TXC-2237: A/V sync issue using FCP H.264 Configuration File Import Encoder

### Encoder Backwards-Compatibility Issues

When importing workflows from previous versions of Vantage, new features will *not* appear in your Flip actions unless you rebuild them or upgrade the action. Generally, however, these actions will still function correctly.

The following actions have known issues with backwards compatibility and should be re-built when upgrading from versions prior to Vantage 4.0:

- TXC-1479: Smooth Streaming Encoder is not backwards compatible.

### Smooth Streaming Encoder

Microsoft Smooth Streaming DRM does not work on older operating systems. DRM encryption libraries from Microsoft only work on Windows Server 2008; please upgrade to this OS if you require PlayReady DRM encryption for Smooth Streaming. ***For Encoding for Smooth Streaming and other Adaptive Bitrate formats we recommend using Vantage Transcode Multiscreen.***

TXC-1375 – Smooth Streaming encoder does not support Asian characters in the file names.

### QuickTime 7.7 Issues

Issues have been reported when using the Apple 3GP and Apple MPEG-4 encoders with QuickTime version 7.7 – note that Telestream recommends using QuickTime 7.6.9 as the preferred version. Issues

have also been reported on systems where QuickTime version 7.7 has been installed, even after reverting the QuickTime version to 7.6.9.

### Long Form Content

The following issues have been reported when encoding long-form content:

- Omneon encode actions time out; increasing the time-out will solve the problem
- Long-running SeaChange BML SD PAL encode actions may time out; there is no known solution
- 360 MAXX encode actions time out; increasing the time-out will solve the problem

### Final Cut / Avid QuickTime Encoder

The following are known issues in this Encoder:

- TXC-1249: Minor visual artifacts when encoding to 720p AVC Intra formats

### H.264 Encoder

- Note: We plan to stop supporting this encoder in a future release. Where possible, use the MP4 or IPTV encoders instead.

### Omneon Encoder

The following are known issues with the Omneon encoder:

- TXC-1927, TXC-1812: Some direct converts are failing in the Omneon encoder.
- TXC-421: Encode to SD Mpeg-2 4:2:2 may cause severe artifacts in the video when encoding to 512 line Mpeg2 outputs.
- TXC-1647: Captions are not preserved transcoding from XDCAM HD with 436M to Omneon SD MOV MPEG-2

### VOD Encoder

(TXC-971, TXC-881) The Transport Stream MPEG-2 user interface allows you to select SCTE-20, Divicom and ATSC captions when encoding 1080 or 720-line HD material. These caption formats are not valid nor supported for HD material, only ATSC/DTV 9600 is supported.

Additionally, attempting to generate a Transport Stream MPEG-2 file with captions enabled will fail if the source does not have captions.

### Asian / Double-Byte Character Sets

The following are known issues with Asian / Double-Byte character support:

- TXC-2821: HLS encodes fail when using Japanese versions of Windows.
- TXC-2822: Files with Double-Byte filenames do not play on Omneon servers.
- TXC-2823: Files with Double-Byte filenames do not play on Grass Valley K2 servers.
- TXC-2824: Encodes with the Final Cut/Avid QuickTime encoder fail if output file name has double byte characters.
- TXC-2825: Encodes with the Avid Vortex encoder fail if output file name has double byte characters.
- TXC-2826: Encodes with the EVS encoder fail if output file name has double byte characters.
- TXC-1375: Encodes with the Smooth Streaming encoder fail if output file name has double byte characters.

**x264 Video Codec**

The following are known issues with the new x264 codec implementation:

- TXC-1614: Adaptive B-Frame setting does not have any effect on the encoded bitstream.

**EVS Encode**

- TXC-1640: Encoding to 1372x1080 or 1440x1080 will introduce color shifts.

**EVS Decode**

- TXC-1975: Audio decode issues from certain EVS sources (Note: that a fix for this is due to ship in Transcode and Analysis 2014.10)

**Avid OMF**

- TXC-1367: Encoding to Avid OMF Interlaced 10:1M PAL will hang.

**Avid AAF Encoder**

The following are known issues with the Avid AAF Encoder:

- If credentials, workgroup, or folder names are specified incorrectly, the Vantage job status indicates the encode succeeded, but the file is not checked into Interplay.
- Standalone proxies will not play in Interplay; proxies only work when part of a multi-res clip.
- Timecode format (Drop Frame or Non Drop Frame) must match in the Notify action and all Flip actions in a multi-res workflow.
- If doing a standalone encode, the clip symbol in Interplay window will be broken/partial until the clip is finished encoding.
- Simultaneous encodes to Interplay may not use the same output clip name, one of the files will complete, other(s) will fail.
- Encode output filenames cannot have a space at the end; the file won't get checked into Interplay. An error will not be reported when this happens.

**3GP Encoder**

TXC-1662: The 3GP encoder may occasionally have a delay before it releases an output file. As a result, any subsequent Move or Delete actions may fail. Please use automated retries to resolve the issue.

**Seachange Encoder**

TXC-1644: Converting SD NTSC files to Seachange BML PAL display jerky playback. This can be resolved by instructing the video processor to treat the output as Upper Field First.

**x264 Command Line Limitations**

Some x264 command-line parameters are not supported, and must instead be configured in the Vantage user interface. Examples include: bit rate, frame size, lookahead, output file creation and resizing. Contact Telestream Support if you have questions about a specific parameter.