

Release Notes for Transcode IPTV VOD in Vantage 6.3

About This Release

The Vantage 6.3 release includes a new release of Vantage Transcode IPTV VOD. This product is specifically designed for generating Transport Stream files with MPEG-1, MPEG-2, H.264 and HEVC video.

For more detailed information about the Vantage 6.3 release, including system requirements, please see the Vantage 6.3 Release Notes.

Installation in a Vantage Environment

Updated Transcode IPTV VOD 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).

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.

New Features in this Release

HEVC upgraded to x265 v1.2

This release includes x265 release 1.2 which improves bit rate control, adds caption support in SEI user data, and which improves performance. Additional profiles and levels are also supported including Main10 (10-bit encoding), please refer to the x265 documentation for more details. . x265 documentation can be found here: <https://media.readthedocs.org/pdf/x265/stable/x265.pdf>

MainConcept Version Selection

The user interface now allows direct control of which version of MainConcept should be used for MPEG-2 or H.264 encoding. This defaults to “auto” and should only be changed if directed by Telestream support.

2-Pass Multiplexing

A new 2-pass Multiplexing option has been added to the advanced configuration section of the Manzanita Multiplexer. Enabling this option reduces the likelihood of errors when multiplexing video streams that have inconsistent bit rates.

Fixed in this Release

- GIR-9943: Source AFD now propagates to output when “use source AFD” is selected
- GIR-9939: USTV content advisory settings are now adding a graphic overlay as intended
- GIR-9494: Using both insert black filters is no longer causing the action to fail
- GIR-9241: MXF OP1a J2K sources are no longer causing failures
- GIR-9055: No longer hang indefinitely if overlays content extends beyond end of primary source
- GIR-9037: Corrected x265 Quantizer UI range to 0-51
- GIR-8978: There is now an X265 Open GOP control in the user interface
- GIR-8903: Added support for Sorenson SVQ3 source files with Flip decoder
- GIR-8873: Added blend deinterlacing option
- GIR-8851: Fixed crashes when using MainConcept H264 config file
- GIR-8814: Fixed captioning issue with SCTE 20 payload location
- GIR-8632: Content Advisory Rating is now bindable
- GIR-8617: IPTV Action with "Dolby E Decode" no longer hangs when no Dolby E is in the Source
- GIR-8586: Transmuxing with SCC now succeeds
- GIR-8247: Session status now shows which decoder was used
- GIR-8077: Encoder no longer fails with customer source Prores & SCC files
- GIR-8011: Action no longer fails when submitting/watching a shortcut link to a source
- GIR-6617: Tektronix Cerify no longer detects frames with wrong field order in our IPTV output
- GIR-5969: Added meaningful error message in case of GPU memory overuse

Known Issues

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

- GIR-10277: Adding long bumpers with Insert Video / Audio filters can cause action to hang.
- GIR-10250: Visual artifacts when decoding 10-bit HEVC sources
- GIR-10207: Using both video inserts with a mixture of same as source and same as output causes the job to hang
- GIR-10205: Insert video/audio causes hangs when using an offset with a source at 25/50 fps
- GIR-10196: H264 MC interlaced outputs cause garbled captions when re-ingested
- GIR-10175: Level list for x265 adds a level 4.2 that has not been implemented
- GIR-10173: x265 output set to a constant rate factor of 0 creates blocky video
- GIR-10157: Making interlaced outputs with the insert black frames filter doesn't add the correct duration
- GIR-10150: Manzanita TS outputs causing errors with Manzanita analyzer when 24 bit 302m audio used
- GIR-10120: Action crashes when a TIFO/MPEG2 is submitted

- GIR-10036: Action unable to ingest X265 V1.2 sources
- GIR-9824: PCM used with Insert Black/Silence filter creates output with a sync issue
- GIR-9804: If a job is stopped prematurely the status shown an error instead of a "stopped by user" status
- GIR-9704: X264 jobs that run on Mk1 Lightspeed server hang on K20
- GIR-9189: X265 and PCM audio cause Manzanita jobs to fail
- GIR-9143: Mixed inserts (same as source and same as output) settings used causes action to hang
- GIR-9047: Files made with Cable Labs 720p preset cause errors in Transport Stream analyzers
- GIR-8828: Making multiple outputs in 32-bit mode can cause failures
- GIR-8824: SCTE-35 errors when using SCTE 35 XML from generated by Chronicle action
- GIR-8501: Encoder crashes intermittently when using several concurrent Manzanita outputs
- GIR-8431: Encoder crashes on SD with lookahead of 60, but not 40 when running in Lightspeed mode.

The following reported issues from the Vantage 6.2 release that have not been verified as fixed in Vantage 6.3:

- GIR-8253: Using 2-pass X264 in VBR mode can cause multiplexing errors
- GIR-8215: Longer X264 lookahead values cause failures on new K20 Lightspeed servers
- GIR-8214: Inserting null streams causes Manzanita Analyzer errors
- GIR-8189: Using Content advisory gives closed caption error when some sources are submitted (works if you enable cc filter and ignore cc errors)
- GIR-8151: 5.1 to Stereo Downmix does not work
- GIR-7902: Certain ProRes MOV files fail to decode
- GIR-7856: MXF input type not able to decode certain MXF DNxHD sources that work with Flip decoder
- GIR-7716: Encoding using MainConcept H.264 results in lost frames
- GIR-7622: Cannot trim based on source timecode
- GIR-7173: Progress reported inaccurately for GXF sources when "Media to Keep" option is enabled
- GIR-6548: IPTV/VOD encoder crashes when creating open GOP x264 and having Lightspeed Pre-analysis checked
- GIR-5869: It is possible to configure invalid combinations of audio bit-rate and number of channels in the user interface, causing the action to fail
- GIR-5839: User Interface allows creation of 1920x1080 interlaced video at frame rates higher than 30fps, causing the action to fail