

Vantage IPTV VOD 2022.2 Release Notes

Date 25th May 2022

About This Release

This release is a ComponentPac release for Vantage that includes new features, improvements, and bug fixes. The release build is: # 2022.2.0.468 (2022.2)

These release notes are applicable to the IPTV VOD option for Vantage. Please refer to separate Version 8.0 / 8.1 release notes for Vantage Platform and other components of Vantage for additional information.

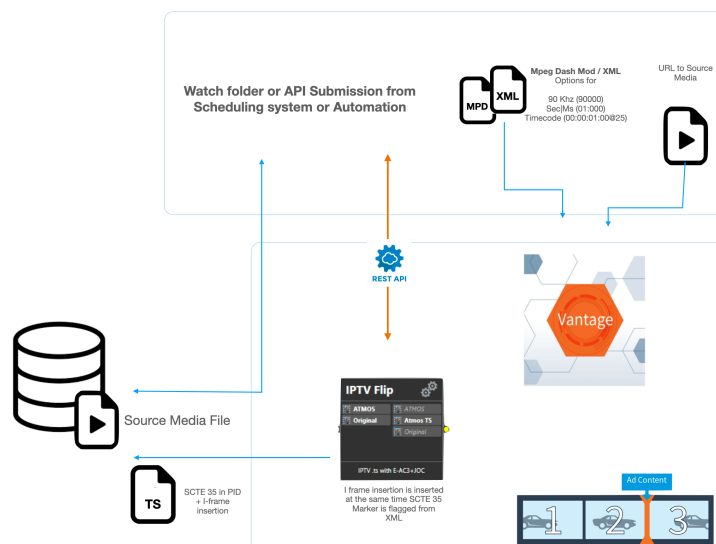
Note: This release requires Vantage 8.1 or Vantage 8.0 UP4 (or later). Vantage 8.0 UP4 also requires Vantage Patch:
Vantage_8_0_ComponentPac_Upgrade_Patch_Setup(8.0.958.135).exe.

Both Vantage 8.0 UP4 and the Patch need to be installed on every Vantage server and every client only machine. If you are using Vantage 8.1, then just Vantage needs to be installed on every Vantage server and every client only machine.

Note: The support Nvidia Driver for this release is 472.47

New Major IPTV VOD Features in this Release

- [TXMF-7044](#) Added capability for the insertion of SCTE-35 Triggers to Manzanita Transport Streams, using Mpeg Dash Manifest format, Enabling Automatic IDR Frame insertion at the SCTE-35 Trigger Frame, allowing the smooth transition from Program to Advert.**



For information on the schema used, please reference Document. "SCTE Dash Implimentation_V3.0"

Fixed and new features in this release

New Features

[TXMF-7410](#)

Added support for LATM AAC audio to Manzanita multiplexor

[TXMF-4569](#)

Added support for Audio Language Descriptors for "English, Visual Impaired Commentary"

[TXMF-7603](#)

Added capability for Kantar watermarking where Vantage automatically inserts the duration of the file into the "Metadata 10" metadata field. Previously it always had a value of 7200.

[TXMF-7576](#)

Slow and Slower presets for x264/x265 are not allowed to run in cloud mode.

Resolved Issues

Bug Fixes

[TXMF-7635](#)

Resolved issue when transcoding with Dolby E decode filter enabled and outputting to a .wav file where the action abort processing.

[TXMF-7547](#)

Resolved issue in Kantar watermarking, when custom metadata was being used and an error was being reported.

[TXMF-7540](#)

Resolved Issue when utilizing Direct convert of two audio tracks of different sampling frequencies, resulting in incorrect audio duration in the output.

[TXMF-7440](#) & [TXMF-7431](#)

Resolved issue when using the Nvidia NVENC encoders “Lightspeed GPU H264 & H265” Depending upon the Lightspeed server type being used will depend on what NVENC capabilities can be used.

Specifically :

- Interlacing is not supported on the latest GPU on G7, G8 & G10 servers. We have improved our error messaging, saying “Error creating GPU compressor: field-based encoding is not supported” if you try and run an interlacing job on the new Lightspeed Hardware.
- When using Older GPUs and encoding NVENC HEVC, you will now receive the error message “Error creating GPU compressor: requested number of b-frames is not supported”

[TXMF-7312](#)

Resolved Issue when running jobs utilizing CML lite files in Cloud Port mode.

[TXMF-7143](#)

New Capability in Cloud port mode, where you can now use multi-pass encoding.

Known Issues.

The following are known issues in this release, which may be fixed in a future Vantage or Vantage component release.

- [TXMF-6440](#) The capabilities of Nvidia NVENC “Lightspeed GPU” are different depending upon the Lightspeed Model you are using.

G7,G8,G10 Lightspeed - Utilizing the RTX4000 GPU- Interlacing mode is not possible on these server, however B-frame support is available for both H264 and H265 which significantly increases Quality

G5, G6 Lightspeed – Utilizing P4 or P4000 GPU – Interlace mode is possible utilizing H264, however B-frame support is only possible in H264, which significantly increases quality. B-frame support is not possible in HEVC

Note:- Quality issues have been experienced when using P3 and above presets, when in NVENC interlaced mode. To alleviate this, it is recommended to use the following command line setting “--useBframeAsRef=0”. This command turns of B-frame referencing.

- **Color Space Conversion Behaviour May Differ from Earlier ComponentPacs**

Since some of the major improvements to color space conversion and color processing rely on strictly accurate color space metadata in source essence, it is possible that missing or inaccurate source metadata will produce different results than previous ComponentPacs. Aside from correcting the source metadata, it is possible to achieve the old results by adding the legacy color space filter or by manually driving the modern color space conversion filter with specified color metadata.

- **Overlays and Color Space Conversion**

Overlays, such as the ratings system overlays (PG, MA etc.), added with the modern color space conversion filters applied may be corrupted. As a workaround the legacy color space conversion filters can be used in combination with these overlays without issue.

- **Constant Quantizer Cannot be Set to Zero**

The x264 CODEC rate control cannot utilize a constant quantizer value set to zero. This currently causes Vantage to report an unrecoverable error.

- **Overlay Looping Control Has no Effect**

In some cases, the control for requesting that an overlay loop, does not properly affect the output content.

- **Media Expansion Convertor and Discontinuous Timecode**

There may be cases where use of the Media Expansion Convertor will produce discontinuous timecode due to inserted media. In the future there may be more options to control this behaviour.

- **Using Multi-Pass Encoding with x265**

Multi-pass encoding in x265 is currently limited to two passes. Attempting more passes will result in an error.

- **Two Pass Encoding and Open Workflows**

When two pass encoding is enabled, Vantage actions may not be used in Open Workflows. An action in the Open Workflow mode which attempts two pass encoding will hang and does not provide an error that two pass encoding is currently unsupported with Open Workflows.