

## Vantage IPTV VOD 2023.1 Release Notes

Date 23rd October 2023

### About This Release

This release is a ComponentPac release for Vantage that includes new features, improvements, and bug fixes. The release build is: # 2023.1.0.329

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 471.41

### New Features

- [TXMF-8648](#) Added Support for Variable bitrate (VBR) in the Main Concept MPEG-2 & MPEG1 codecs.
- [TXMF-8030](#) Added capability to specify PID for DAI insertion in the Syntactic encoder

## Resolved issues in this Release.

- [TXMF-8665](#) Resolved issue providing the ability to preserve RDD 11 Closed Captions when utilizing the Lightspeed GPU encoder NVENC (H264 and H265)
- [TXMF-8654](#) Resolved issue for SCTE35 insertion using the “SCTE-35 Metadata Merge Filter” where the segmentation descriptors are in the wrong display order.
- [TXMF-8651](#) Resolved issue with logging of the IPTV service.
- [TXMF-8649](#) Resolved issue where random crashes are seen when users are dynamically enabling / disabling the Audio Mixer using the “Disable Processing” setting.
- [TXMF-8643](#) Resolved issue when using the MainConcept MPEG 1 / MPEG 2 configuration files.
- [TXMF-8631](#) Resolved issue for Kantar Watermarking, where the incorrect metadata was entered. The Output Stream Name is now added to the SNAP file.
- [TXMF-8522](#) Resolved issue, when using a CML files that reference media with RDD 11 caption data. Caption Data is now being preserved on the output TS.
- [TXMF-8416](#) Resolved issue where DVB Subtitles are not playing incorrectly when multiple TS files are created in one IPTV action.
- [TXMF-8360](#) Resolved issue when outputting to MP4, where the MP4 output shows an additional 4 bytes in Video codec private data, resulting in downstream DRM systems failing.
- [TXMF-8259](#) Resolved issue when decoding QT MOV files from Black Magic Davinci Resolve, which are coming out with green video when using Auto decoder.
- [TXMF-8242](#) Resolved issue when using PNG image overlays in Cloud port mode.
- [TXMF-8238](#) Resolved Issue when decoding MPEG-PS files created with Adobe Media Encoder V 23.1
- [TXMF-7977](#) Resolved Issue when using Dolby Vision 5, where the stream type value in the TS is not as per Dolby Specification.
- [TXMF-7751](#) Resolved Issue: Dolby Vision in MPEG2 TS has a missing HEVC video descriptor when using the Syntactic multiplexer

## Known Issues.

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

- **Nvidia NVENC Limitations**

The capabilities of **Nvidia NVENC “Lightspeed GPU”** are different depending upon the Lightspeed Model you are using.

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**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:-** If you try and run an interlaced job on a G7, G8, G10 server you will receive the error message “Error creating GPU compressor: device does not exist” In a future release this error message will be made more clear ([TXMF-7440](#))

**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.

- **Kantar Watermarking**

Currently the Kantar Watermarking filter does not operate in cloud port mode, this will be address in a forth coming release

- **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.