Vantage®

Vantage IPTV VOD 2022.4 Release Notes
Date 28th November 2022

About This Release

This release is a ComponentPac release for Vantage that includes new features, improvements, and bug fixes. The release build is: # 2022.4.0.223

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 Major IPTV VOD Features in this Release

- [TXMF-7707](#)   Implementation of the Dolby Vision Profile 8.1 in the X265 codec. Profile 8.1 enables backward compatibility with HDR10.

- [TXMF-7862](#)   Implementation of Intelligent source handling in Cloud Port Mode.

Fixed and new features in this release

- [TXMF-8038](#)

  Added checkbox to the Auto decoder "Relax decoder error checking" which enables users to relax the IPTV decoder when error checking source. This enables a customer to make a choice on how we flag decode errors.

  Please note that by default error checking will be at the most stringent and after selecting the checkbox, error checking is relaxed.
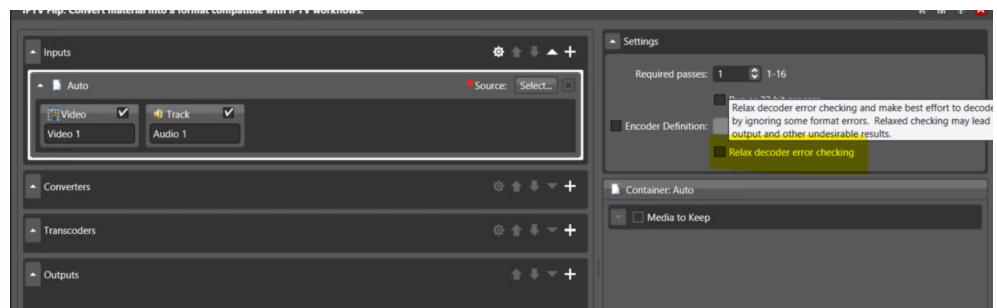
- [TXMF-7831](#)

  Fixed issues with the Keyframe encoder in IPTV

  - Ability to generate Keyframes for last 1 second of an input file

  - If using Sec:Ms timecode, the Ms potion of the timecode was ignored.

- [TXMF-7828](#)

  Add capability to bind x264 Level/Profile settings to a variable

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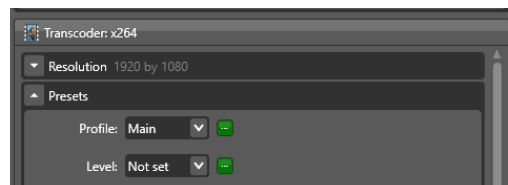
- [TXMF-7811](#)   Resolved Issue in the "Dolby Vision HDR to SDR conversion Filter" The HDR format metadata was not getting changed for the output file. Parameters such as Bit Depth, Color space and Color Primaries were getting changed as expected but not the HDR format. This observation was only seen in x265 transcoder and not on x264 transcoder.

- [TXMF-7567](#)   Resolved issue with the "Dolby Vision HDR to SDR conversion filter" where the Color range was set to "full" instead of Studio Range.

- [TXMF-7612](#)   Resolved issue with the Nexguard watermarking filter. Where no error was given when input file is too short to do NexGuard watermarking.

  Minimum duration for Watermarking is 150 seconds (2 1/2 minutes).

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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

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![Telestream logo]

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- **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.

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- **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.