

Vantage Flip64 2024.1 Release Notes

About This Release

This is a ComponentPac release for Vantage that includes new features, improvements, and bug fixes. The release build number is: 2024.1.5200.

These release notes are applicable to the Transcode and Transcode Pro option for Vantage. 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 UP5.

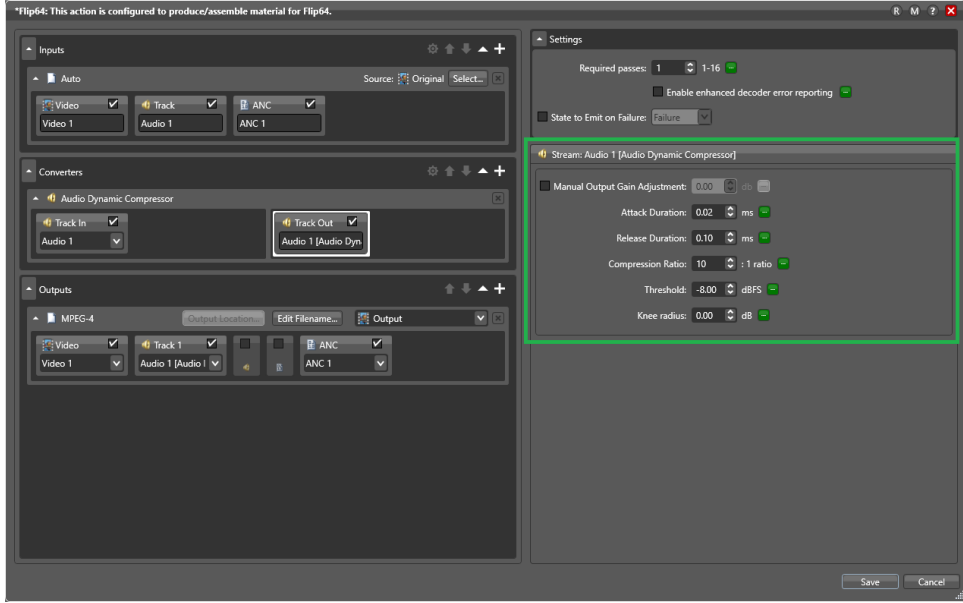
Note: For customers using Vantage 8.0 UP5, this release requires OpenCL version 16.1.2 or later. Flip64 8.0.8 and later removed support for MxPA. As a result, jobs may fail with an OpenCL error. To resolve this error a compatible version of OpenCL must be installed on every server where Vantage Flip64 jobs are executed. Note: Different versions of the OpenCL driver may break other Vantage functionality, so we recommend using version 16.1.2 where possible. This OpenCL version is automatically included in the Vantage 8.1 release.

Note: Testing for this release was performed using Nvidia Driver version 535.98 for use with Tachyon and is ONLY needed for Tachyon workflows. For customers not using Tachyon stay on Nvidia Driver version 471.41.

Nvidia Driver version 535.98 is only supported on Windows 2019 and higher.

Note: When installing this ComponentPac, the Vantage Management Console will give a popup warning saying that this ComponentPac is designed for a future version of Vantage. This warning is triggered by the new versioning Telestream is using and will not cause issues. This warning was removed in Vantage 8.1 UP1.

New Features in the 2024.1 Release

<p>New Audio Dynamics Compressor Converter</p>	
<p>TXMF-5162</p>	<p>Added to Flip64:</p>  <p>The new Audio Dynamics Compressor Converter allows you to dynamically compress the dynamic range of the first 8 channels of audio in output files. It can be used to limit audio peaks separate from adjusting the audio loudness level or can be used to compress audio.</p> <p>Note – The Audio Dynamics Compressor Converter is licensed with a new Audio Pro License (V-AUDIO-PRO-SW).</p> <p>Note – The Audio Dynamics Compressor Converter is currently not supported in Vantage Cloud. This functionality will be added in a follow-up release.</p>
<p>New Decode and process Canon C200 and C300 RAW files</p>	
<p>TXMF-7949 TXMF-4439</p>	<p>Added the ability to decode and process Canon RAW files including C200 and C300 formats.</p>
<p>Improvements and Fixes</p>	
<p>TXMF-8836</p>	<p>Fixes – Issue producing asset without video when "media to keep" configured.</p>
<p>TXMF-8819</p>	<p>Fixes – Issue when attempting to trim Arri ProRes files.</p>
<p>TXMF-8774</p>	<p>Fixes – Issue with XDCAM output from a AVC Intra input has flickers on Linux.</p>
<p>TXMF-8770</p>	<p>Fixes – Issue with MP4 H264/AAC sources with variable frame rate could not be decoded.</p>
<p>TXMF-8760</p>	<p>Fixes – 708 SC2 Caption Data should reside in Service 2 and not Service 3. Note – Added a new UI selection to allow 708 SC2 Caption Data to reside in Service 2.</p>
<p>TXMF-8753</p>	<p>Fixes – Issue with MP4 File from Teredek Prism cannot be Transcode with Flip64.</p>
<p>TXMF-8751</p>	<p>Fixes – Issue with not decoding specific BRAW 'brhq' files from SIGMA fp L camera.</p>

TXMF-8749	Improvement – Added capability to configure higher bit rates in the x265 UI according to HEVC specs.
TXMF-8741	Fixes – Issue with Trim and WAV Insert Missing Audio.
TXMF-8723	Fixes – Issue with Open Workflow, Flip64 completes while TIFO input is still growing.
TXMF-8721	Fixes – Issue with Kantar watermarking having incorrect Metadata.
TXMF-8712	Fixes – Issue with Open Workflow ending when the Open Workflow is completed.
TXMF-8693	Fixes – Issues with Color Space Filter in Auto mode leading to unexpected results.
TXMF-8682	Fixes – Issue with Media Expansion filter failing to write with certain sources.
TXMF-8666	Fixes – Audio issue with Transcode CML.
TXMF-8640	Fixes – Issue when processing Sony MTS sources.
TXMF-8599	Fixes – Issue with decoding VP09 (VP9) sources.
TXMF-8598	Fixes – Issue with Teletrax watermark filter causing pixelation with QT ProRes output.
TXMF-8590	Fixes – Issue with MPEG 4 sources failing to transcode to XDCAM.
TXMF-8583	Fixes – Issue with MP4 H264 sources with VFR cannot be decoded.
TXMF-8547	Fixes – Issue with FrameFormer showing artifacts for 23.976p to 25p conversion.
TXMF-8526	Fixes – Issue with open subtitles created by MediaMate are out of sync by a few frames in Flip64's output.
TXMF-8504	Fixes – Issue with output from MXF OP1a ProRes sources show black frames at the end.
TXMF-8469	Fixes – Issue with upgrading the Tachyon converter, the variables for determinism are not preserved.
TXMF-8460	Fixes – Issue with MP4 wrapped VP9 files cannot be decoded.
TXMF-8430	Improvement – Add decoding support for 10 Bit VP9.2 codec. Note – We currently only support decoding of a single video track in a file.
TXMF-8401	Fixes – Issue with ProRes MXF OP1a video only files coming from Final Cut Pro cannot be decoded.
TXMF-8389	Improvement – Add decoding support Snapstream MP4 files created in the cloud.
TXMF-8184	Fixes – Issue with sources failing to transcode on a LS server.
TXMF-8182	Fixes – Issue with audio noise when submitting XDCAM EX35 files from Sony PMW-500 via Transcoder CML.
TXMF-8148	Fixes – Issue with Luminance change on specific frames.
TXMF-8138	Fixes – Issue with MXF ARD ZDF HDF02 and HDF03 showing errors in MXF Analyzer.

Known Issues in This Release

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

Numa utilization and job performance differences in machines that have 96+ virtual cores (48 without hyper-threading)

This can be resolved by using OpenCL version 18.1 or newer (TXMF-7444). When updating OpenCL versions, a machine restart is required.

Known NVIDIA Lightspeed GPU encoder issues:

Flip64 actions that use an older version of the Lightspeed GPU encoder are not upgradeable to the new version of the NVIDIA Lightspeed GPU encoder. If you wish to use the new encoder, you will have to remake those Flip64 actions.

There is also a change in the GOP length limitation in the new encoder. The old encoder had a GOP Length maximum value of 1024 (GOP Length option under Codec Configuration). The new encoder has a GOP Length maximum value of 1000 (Max IDR-frame Interval (GOP length) option under Frame Type).

Tachyon Deterministic Mode limitations

There are some known limitations of this feature:

$\text{abs}(\text{src framecount} * \text{framerate_conv_factor}) - \text{output frame count}$ must be less than 5 frames. We recommend that users only adjust the output frames by + or - 1.

Media Expansion Converter and Discontinuous Timecode

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

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 in Vantage, actions may not be used in 'Open Mode'. An action in the Open Workflow mode which attempts a two pass encoding will hang and does not provide an error that two pass encoding is not supported.

FFV1 Encoding may fail when Flip64 is in Cloud Mode

FFV1 encoding of long form content may fail when Flip64 is in Cloud Mode. With Flip64 8.0.8 and later, Cloud Mode will be unavailable if FFV1 encoding is configured.