

# Vantage Flip64 2023.2.0.5093 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: 2023.2.0.5093

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 (or later).

**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 528.89 for use with the new Tachyon SDK and is ONLY needed for Tachyon workflows. For customers not using Tachyon stay on Nvidia Driver version 471.41.

**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 Major Features in the 2023.2 Release**

Stadium Content		
TXMF-6014	Add Decode and Encode support for Ross XPression.	
	Flip64 now supports decoding and encoding Ross XPression codec used by many sport stadiums and public venues displays. The Ross XPression encoder supports Alpha channel, Interlaced, and HDR.	
	Note – The Ross <u>xpvCodec</u> must be installed on the Vantage System to decode Ross Xpression AVI files:	
	https://transfer.rossvideo.com/f/6d21d92a2c21ce20	





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TXMF-8369	Fixes – MXF XDCAM camera files getting transcoded to MP4 x264 when played
	back in an HTML 5 based player are skipping the first two frames. When
	transcoding MXF XDCAM camera files with edit lists to MP4 x264, enabling a
	new parameter called "Suppress edit lists" found in the MPEG-4 container
	allows for correct playout in an HTML 5 based player.
TXMF-8363	<b>Fixes</b> – An AV1 decompressor issue which caused intermittent artifacts in the
	outputs when transcoding AV1 UHD sources.
TXMF-8361	Improvement – Added capability to specify/edit Kantar Metadata10/File
	Duration in Flip64 UI (Custom Metadata). A new File Duration checkbox has
	been added to the Metadata manual entry selection. If enabled, Flip64 will use
	the value entered; if not enabled, Flip64 will use the duration the file. The
	default is the checkbox not enabled.
TXMF-8343	Improvement – Improved performance when writing MXF OP1a output with
	multiple tracks of PCM audio.
TXMF-8340	Fixes – Media to Keep set to 1 frame before actual start of media no longer
	causes the Flip64 action to hang for 29.97 fps, 50 fps, and 59.94 fps source files.
TXMF-8332	Fixes – Customer's png image sequences can now be processed properly.
TXMF-8308	Fixes – Applying Cropping or padding with RGB values AND using the Color
	Space Filter now results in correct RGB values in the crop and pad section.
TXMF-8294	Improvement – Improved error message when an LUT file cannot be found.
TXMF-8287	Fixes – RED decoding no longer shows intermittent failures when enabling the
	checkbox "Use Lightspeed Acceleration if available".
TXMF-8283	Fixes – Vertical blanking can now be removed from IMX sources when using the
	Tachyon Converter by setting the Resize Mode to Stretch and configuring the
	crop and pad settings to customize the outputs.
TXMF-8240	Fixes – Nvidia Lightspeed GPU (H264) encoder now correctly preserves source
	timecode.
TXMF-8206	Improvement – Improved UI for the Deterministic Mode option in the Tachyon
	converter.
TXMF-8154	Improvement – Added support for QT-style timecode tracks to MPEG-4
	container writer. A new "Insert a Timecode Track" parameter at the MPEG-4
	container level has been added.
TXMF-8108	Improvement – Improved error message from Nielsen watermark filter when
	you get the Failed to end encode error.
TXMF-8076	Improvement – Added a "Connection Failure Sleep Time" to the Neilsen V3
	filter.
TXMF-7983	Improvement – Updated Flip64 to use the NexGuard SDK v1.14.7.
TXMF-7980	Improvement – Updated Flip64 to use the Tachyon SDK version Space Time 10.0
	version 10.0.010898.
TXMF-7881	Improvement – Expanded the formats of BRAW file support for Flip64 decoding.
TXMF-7596	Fixes – Transcodes now complete when applying Media To Keep option on
	Transport stream sources.
TXMF-7491	Improvement – Added decoding support for EXR source files made with Nuke
	v10, 11, or 12.
TXMF-7432	Fixes – Performance when decoding R3D files has improved since you can now
	use the Lightspeed Acceleration option.

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TXMF-7258	<b>Fixes</b> – VANC User Bits metadata info is removed when transcoding. New
	parameter, SMPTE 328 Processing, has been added to the XDCAM codecs
	(XDCAM EX, XDCAM HD, and XDCAM HD 4.2.2). This new parameter provides
	these options: Do not preserve, Preserve Original, and Update timecode. When
	selecting Preserve Original the VANC User Bits metadata is preserved and not
	removed in the output.
TXMF-7007	Improvement – Tachyon Filter missing Vertical Blanking settings. Tachyon
	converter now includes additional settings when the Resize Mode is set to
	Stretch. You can configure the crop and pad settings to customize the outputs.
TXMF-6960	Fixes – Tachyon PAL to NTSC Borders/Framing issue. Tachyon PAL to NTSC now
	produces correct black frame borders when using the Stretch setting in the
	Tachyon Resize Mode and setting the crop and pad settings appropriately.
TXMF-6688	Fixes – Tachyon SD quality output has improved with Tachyon SDK version
	10.0.0.10000
	10.0.0.10898.

#### **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:

abs((src framecount \* framerate\_conv\_factor) - output frame count) must be less than 5 frames. We recommend that users only adjust the output frames by + or -1.

When upgrading the Tachyon converter from Flip64 2023.1 to 2023.2, the variables for the Determinism option are not preserved. (TXMF-8469).

#### **Tachyon Quality Issues**

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The Flip64 2023.2 release includes an updated Tachyon SDK which has improved the quality of our Tachyon outputs. However, customers should do testing with their own Tachyon workflows before upgrading to this component pac in a production environment to ensure the quality in the outputs meet their standards.

# 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.

## MXF ARD ZDF HDF02 and HDF03 are showing errors in the MXF Analyzer

There are known issues with this technology due to its age and the direction of the industry.

#### 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.

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