

## Vantage Flip64 2022.1.1.318989 Release Notes

### About This Release

This release is an incremental ComponentPac release for Vantage that includes new features, improvements, and bug fixes. The release build number is: 2022.1.1.318989

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 UP1 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: Later version 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 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 has been removed in Vantage 8.1 UP1.

**Note:** For the new open MXF to Media Creation functionality, this release requires Vantage 8.1 UP1 patch Vantage\_8\_1\_Flip64\_Open\_MediaCreation\_Patch\_Setup(8.1.210.7) or Vantage 8.0 UP5 patch Vantage\_8\_0\_Flip64\_Open\_MediaCreation\_Patch\_Setup(8.0.1211.165).

### Major new Features in this Release

- TXMF-7370 – Nielsen watermarking now supports up to 12 audio channels when using the new Nielsen Watermarking V3 filter.
- TXMF-7422 – Added support for Commercial Content in Nielsen watermarking to the new Nielsen Watermarking V3 filter.
- TXMF-5130 – Improved decode support for RED sources made by the Gemini Camera Kit.

- TXMF-7335 – Added ability for MXF OP1a XDCAM HD outputs to be consumed by Media Creation in an open workflow. Using this feature will require Vantage patches specified in the above notes. You must set the MXF Op1a Partition Strategy to “Place essence container in the body partition, the Index Tables are placed in the partition following essence partitions, mark footer partition index table as complete + RIP”. You must also use the MXF OP1a decoder with Open file support enabled.

## Improvements, Features, and Fixes in this Release:

TXMF-7389 – Upgraded FrameFormer SDK to v8.3.0.

TXMF-7558 – Improved handling of Kantar custom metadata.

TXMF-5164 – A 23.976 QT ProRes source file will now successfully direct convert with the ANC stream enabled.

## Included Improvements, Features, and Fixes from Flip64 2022.1:

TXMF-6689 - Kantar watermarking has been updated to version 8.2.

TXMF-4180 - Added decode support for Apple ProRes RAW.

TXMF-7280 - FrameFormer now has Cloud Port support.

TXMF-6468 - Added a new Nielsen filter that supports Unified Commercial Coding.

TXMF-7446 - Added the ability to select a priority for source caption tracks in the Closed Caption Processing filter.

TXMF-7213 - Added UI settings for better rate control using CRF (Constant Rate Factor) in x264 and x265. This exposes settings for VBV Max Rate and VBV Buffer size, enabling customers to constrain CRF rate control to a specific bitrate when doing Quality based encoding with CRF. This is available for both x264 & x265.

TXMF-7255 - The beta release of AV1 encoding has now gone through QA. This is a new, open source encoder. Telestream will support this encoder, but we expect there to be issues that may be codec or source specific.

TXMF-6962 - Added the 9:10 Pixel Aspect Ratio to the QuickTime container.

TXMF-6901 - Additional controls have been added to the Tachyon Dark Energy filter. These include: Basic Spatial, Smooth Spatial, Chroma Noise, and Single Event Artifact Removal. Additionally, the Denoise Amount control has been renamed to Power Spatial.

TXMF-7347 - The Nielsen PreRender filter issue with giving the wrong value for LastTimeStamp has been resolved. This issue affected the 8.0.11 and 8.0.11.1 releases.

TXMF-6548 - Added source duration and entry point tag options to IMF packages.

TXMF-6546 - Added FFOC and LFOC marker options for IMF packages.

TXMF-7005 - Fixed a corner case where a small number of mkv FFV1 sources could not be decoded.

TXMF-7403 - Small UI improvements for the WAVE encoder.

TXMF-6051 - Discrete Audio Label Tags can now be added to MOV outputs.

TXMF-6384 - Added decode support for QUANTEL DV MXF source files.

TXMF-6988 - Added decode support for a collection of LiveU mkv HEVC sources.

TXMF-1703 - Improved parity between the Flip64 and Flip Keyframe Encoders.

TXMF-6796 - Fixed an edge case where the Tachyon converter was mixing frames.

TXMF-7418 - Added "Norwegian" language support to Cloud Port.

TXMF-7017 - Added decode support for a collection of MTS source files that were coming from a Sony HXR-NX3.

TXMF-6924 - Fixed an ancillary data track issue that could occur when working with some iPhone sources.

TXMF-7179 - Improved visual quality when using CML to stitch bumpers.

TXMF-4786 - Fixed a Media To Keep issue with non-zero timecode.

TXMF-6952 - Improved Caption insertion when using SCC source files.

TXMF-7329 - Fixed a missing AC-3 codec from the list of audio codecs in MXF AS-03.

TXMF-7234 - Improved the Keyframe Encoder when working with sources that are under a minute in duration.

TXMF-7098 - Improved handling of some J2K MXF sources.

TXMF-7218 - Fixed an issue where the first line of captions was being removed from some DNxHD MXF sources.

TXMF-6545 - Fixed an issue where growing MXF XDCAMHD422 files that were subclipped from Capture outputs resulted in black video.

TXMF-7387 - Fixed an edge case where very small outputs were being made when working with a small collection of transport stream sources.

TXMF-7420 - Fixed an issue causing Nexio servers to not display caption data.

TXMF-7374 - Improved handling of Pinnacle Liquid MXF files.

TXMF-7326 - Fixed a Flip64 8.0.11 issue where NexGuard JWT filter would not work in Cloud Port.

TXMF-6871 - Increased reliability of CML use in Cloud Port.

TXMF-7224 - Fixed an issue with a collection of LAVF source files that were failing with ANC errors.

TXMF-7366 – Fixed an edge case with iPCM decoding.

TXMF-7355 – Fixed a few edge cases where Tachyon was not preserving super black and super white correctly.

TXMF-7169 – MaxCLL and MaxFall parameters will now correctly appear in the CPL file in the IMF Package if the values are 0.

TXMF-3264 – Media Trim now works correctly if the start trim point is before midnight and the end trim point is after midnight.

TXMF-7435 - Improved HLG color conversion for Sony RAW sources.

TXMF-6950 - Tachyon converter will no longer have HDR enabled by default.

## Known Issues in This Release

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

### Tachyon Quality Issues

There are many known quality issues with Tachyon since the Flip64 8.0.11 release. Telestream recommends not using Tachyon for these ComponentPacs. We are working with Cinnafilm to get these issues resolved.

### 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.

### **AVCI 720p MXF ARD\_ZDF outputs show GOP errors in MXF Analyzer**

AVCI 720p MXF ARD\_ZDF outputs show the following error in MXF Analyzer:

*Error: This file has at least one Track without a DisplayF2Offset value set which does not meet the maximum DisplayF2Offset allowed by the ApplicationSpecifications best matching EssenceContainer with ID 1 (0). The value was not computed but taken from the files Metadata.*

### **XDCAM 1080i MXF ARD\_ZDF outputs show ClosedGOP error in MXF Analyzer**

XDCAM 1080i MXF ARD\_ZDF outputs show the following error in MXF Analyzer:

*Error: The correct value for property ClosedGOP is false and not true as encoded in the file.*

### **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, Cloud Mode will be unavailable if FFV1 encoding is configured.