

## Vantage Flip64 2023.4. 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: 2023.4.0.5149. This release supersedes the Flip64\_2023.3 release.

**Note:** As part of our testing and QA process we have found a licensing issue that affects the Flip64\_2023.1, Flip64\_2023.2 and Flip64\_2023.3 versions of this ComponentPac. Customers who have installed these versions are required to upgrade to version Flip64\_2023.4 as soon as possible. Please be assured that all files generated with the older versions are correct.

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.

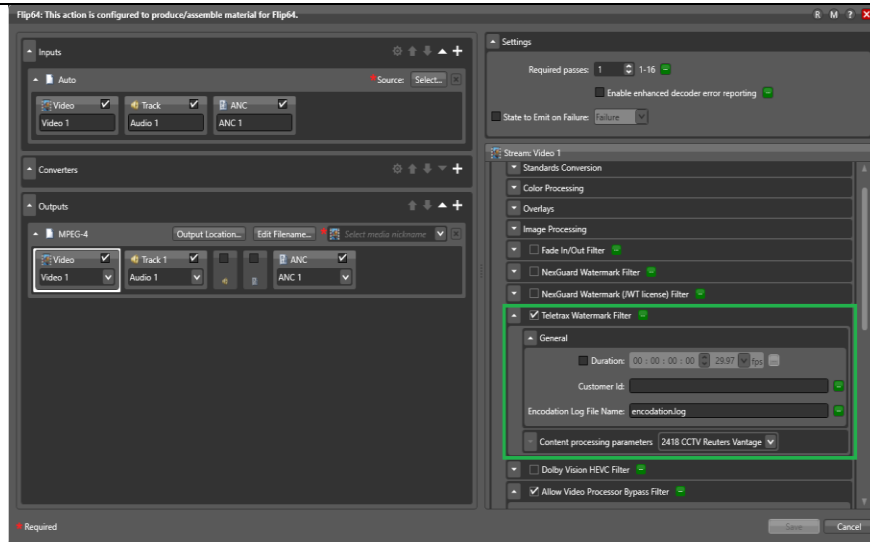
**Note:** Testing for this release was performed using Nvidia Driver version 535.98 for use with Tachyon and is ONLY needed for Tachyon workflows. For customers not using Tachyon stay on Nvidia Driver version 471.41.

**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 2023.4 Release

<b>New Teletrax watermarking</b>	
<b>TXMF-2679</b>	Added Teletrax Watermarking to Flip64:



The Teletrax system uses an imperceptible watermark in a piece of video content to monitor when and where that content is broadcast. Flip64 now supports Teletrax watermarking.

For more information, please refer to the Telestream app note:

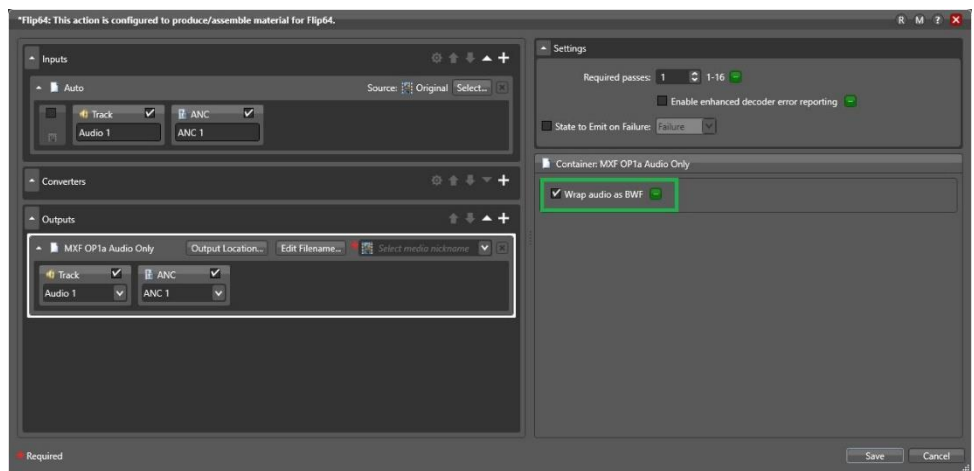
<https://www.telestream.net/pdfs/app-notes/app-Teletrax-and-Vantage.pdf>

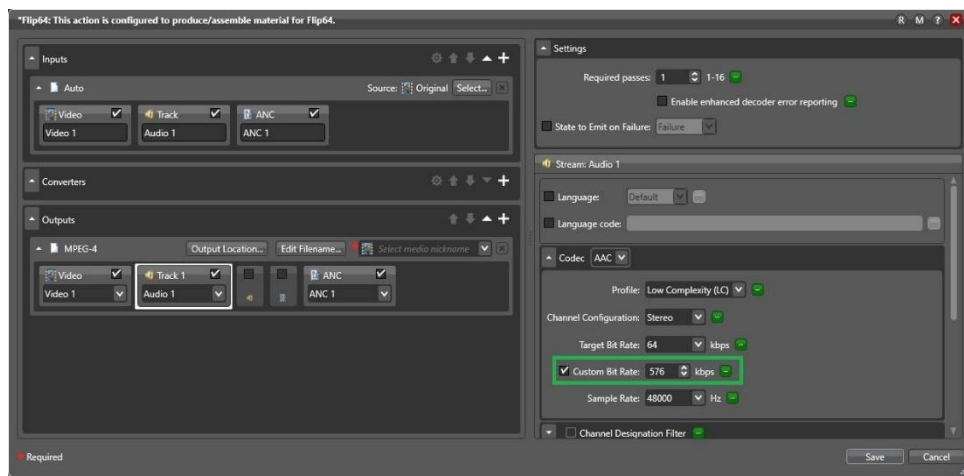
**Note** – With Teletrax watermark filter enabled, a QT ProRes output shows pixelation in the video in the output. This is a known issue and will be resolved in a future Flip64 release.

**New MXF-OP1a audio only as BWF**

**TXMF-8173**

Added capability to wrap MXF OP1a audio only files as BWF:

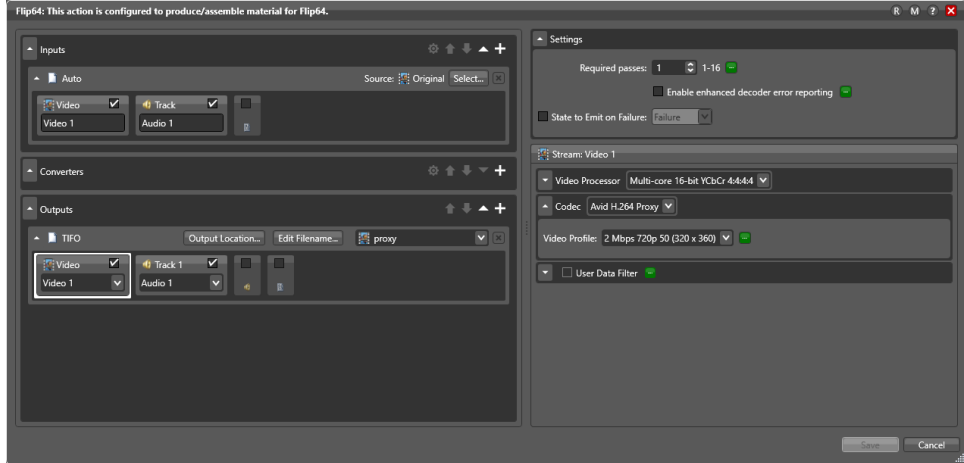


<b>New Custom AAC bitrates</b>	
<b>TXMF-8592</b>	<p>Flip64 now has the ability for custom bitrates with the AAC encoder:</p> 
<b>Improvements and Fixes</b>	
<b>TXMF-8700</b>	<b>Fixes</b> – Regression issue with transcoding IMF packages containing 12 Bit Full Range RGB J2K video essences to QT ProRes.
<b>TXMF-8606</b>	<b>Fixes</b> – UI for AS-10 French Shim output shows two General headings with the Codec French Shim.
<b>TXMF-8589</b>	<b>Fixes</b> – Upgrading a multi output action causes video bitrate to reset.
<b>TXMF-8586</b>	<b>Fixes</b> – Intermittent failures when transcoding XDCAM HD to XAVC.
<b>TXMF-8571</b>	<b>Fixes</b> – For Kantar configuration, if you enable Embedding Report Path or Attachment, you should be required to either select a nickname or specify a file path.
<b>TXMF-8566</b>	<b>Fixes</b> – SC2 File inserted in Flip64 MXF OP1A plays out garbled.
<b>TXMF-8562</b>	<b>Fixes</b> – Issues with the Abekas Encoder when the action configuration includes the Alpha Extractor.
<b>TXMF-8544</b>	<b>Fixes</b> – MPEG-4 ProRes files fail to transcode in Abekas codec.
<b>TXMF-8540</b>	<b>Improvement</b> – Increased Text Overlay UI to support resolutions up to 8K.
<b>TXMF-8517</b>	<b>Fixes</b> – Issue with Media Expansion filter fails with a timeout error for large files.
<b>TXMF-8359</b>	<b>Improvement</b> – Finish transcoding of Capture input as soon as recording is stopped instead of considering open file timeout.
<b>TXMF-8506</b>	<b>Fixes</b> – Issue with RDD11 Caption data is missing or garbled on output 608 tracks.
<b>TXMF-8457</b>	<b>Fixes</b> – Issues with MXF > Camera > XDCAM container has misspellings as well as MXF > MXF OP1a container.
<b>TXMF-8453</b>	<b>Fixes</b> – Remove ANC stream from Ross Abekas .clip. The ANC stream is currently not supported.
<b>TXMF-8452</b>	<b>Fixes</b> – QuickTime output that contains unwanted source captions.
<b>TXMF-8434</b>	<b>Fixes</b> – Issue with FrameFormer output is truncated.
<b>TXMF-8433</b>	<b>Fixes</b> – Issue with FrameFormer output shows stuttering.
<b>TXMF-8431</b>	<b>Fixes</b> – Issue IMX output will fail Vidchecker PSE test due to BT.470 Transfer Characteristics.

<b>TXMF-8395</b>	<b>Fixes</b> – Issue with transcoding to XAVC fails with a crash.
<b>TXMF-8359</b>	<b>Improvement</b> – Flip64 now finishes transcoding of a Capture input as soon as recording is stopped instead of considering open file timeout.
<b>TXMF-8355</b>	<b>Improvement</b> – Increased the performance of reading MXF files from S3 storage.
<b>TXMF-8352</b>	<b>Fixes</b> – Issue with MP4 source files transcoded to MP4 coming out sped up to double time.
<b>TXMF-8288</b>	<b>Fixes</b> – Issue with certain files are failing to transcode on Lightspeed servers.
<b>TXMF-8260</b>	<b>Fixes</b> – Issue with QuickTime files from Black Magic Davinci Resolve when using the Auto decoder.
<b>TXMF-8143</b>	<b>Fixes</b> – Issue with HEVC source files are producing black keyframes with repeating keyframe selection.
<b>TXMF-8085</b>	<b>Fixes</b> – Issue with HEVC source file with no audio fails to decode.
<b>TXMF-8061</b>	<b>Fixes</b> – Issue with wav files not being able to be decoded.
<b>TXMF-7946</b>	<b>Fixes</b> – Issue with transcoding MXF XDCam 35 source file to MXF Op1a with SMPTE 436 ANC data enabled.
<b>TXMF-7947</b>	<b>Fixes</b> – Issue with Media Creation - interlaced LGOP outputs for Camera ->AVC Ultra made with Flip64 2022.3 and used as input to Media Creation causes Media Creation action to fail.
<b>TXMF-7920</b>	<b>Fixes</b> – Issue with decoding MediaProxy MPEG-2 TS files.
<b>TXMF-7904</b>	<b>Fixes</b> – Issue with M4A files made with the Flac Audio codec are failing to decode.
<b>TXMF-7890</b>	<b>Fixes</b> – Issue with certain MP4 files that are failing to transcode.
<b>TXMF-7851</b>	<b>Fixes</b> – Issue with MXF OP1a AVCI100 output shows up in Interplay as XAVCI 100.
<b>TXMF-7773</b>	<b>Fixes</b> – Issue with Keyframe encoder naming behavior.
<b>TXMF-6240</b>	<b>Fixes</b> – Issue with XDCAM files failing the Sony FCT validator.
<b>TXMF-6359</b>	<b>Improvement</b> – Adds support to distinguish between Sony XAVCI(HD) and Panasonic AVC Ultra AVCI(HD) formats in Media Composer. <b>Note</b> – This requires Vantage_8_1_Avid_UP4_Service_Patch_Setup(8.1.641.87).exe patch which will be released with the Avid 2023.2 ComponentPac.
<b>TXMF-6237</b>	<b>Fixes</b> – Issue with settings of Media Expansion filter change after upgrading the action.

## Improvements and Fixes from previous Flip64-2023.x releases

Stadium Content	
<b>TXMF-6014</b>	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 <a href="#">xpvCodec</a> must be installed on the Vantage System to decode Ross Xpression AVI files: <a href="https://transfer.rossvideo.com/f/6d21d92a2c21ce20">https://transfer.rossvideo.com/f/6d21d92a2c21ce20</a>
<b>TXMF-8365</b>	Increase max width of QuickTime Animation encoding. To improve support for sport stadiums and public venues displays the QuickTime Animation encoding has increased the max width and height to 65,534 pixels.
<b>Avid Proxy</b>	
<b>TXMF-8307</b>	Add Avid proxy presets to Flip64 (H.264 + MPEG1L2 audio).  Avid proxy presets have been added to the TIFO output: 
<b>TXMF-8411</b>	Added bindable Avid Proxy Audio Channel Setting. The Avid Proxy audio codec makes MPEG-1 Layer 2 mono channel tracks at a bit rate of 96 kbps each and a sample rate of 48000 Hz. The number of channels can be bound to a variable and is a drop-down list containing values of 2, 4, 6, 8, 10, 12 and 16. For example if 8 is chosen then the output will have 8 tracks each with an MPEG-1 Layer 2 mono channel.
<b>Features</b>	
<b>TXMF-4781</b>	Added "looping" functionality to Video Overlays.
<b>TXMF-6148</b>	Added WMV encoder container. The WMV encoder is supported in Cloud Port mode.
<b>TXMF-7897</b>	Added Open decode support to CML for a referenced but growing TIFO file.
<b>Improvements and Fixes</b>	
<b>TXMF-8518</b>	<b>Improvement</b> – Increased the bitrate ceiling limit on the J2K IMF lossy single tile so it can go above 250Mbit / sec. for IMF Packages. J2K IMF 2K lossy single tile can go up to 800 Mbit per sec. J2K IMF 4K lossy single tile can go up to 1.6 Gbit per sec.
<b>TXMF-8455</b>	<b>Fixes</b> – Parameters/variables are no longer bound after upgrading the Flip64 action. True/False variables remain bound to their associated parameters after an upgrade of the Flip64 action.
<b>TXMF-8432</b>	<b>Fixes</b> – MXF AS-11 DPP HD output shows Format Profile "High 4:2:2@L4.1". MXF AS-11 DPP HD output now shows the correct Format Profile "High 4:2:2 Intra@L4.1"

<b>TXMF-8369</b>	<b>Fixes</b> – 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.
<b>TXMF-8363</b>	<b>Fixes</b> – An AV1 decompressor issue which caused intermittent artifacts in the outputs when transcoding AV1 UHD sources.
<b>TXMF-8361</b>	<b>Improvement</b> – 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.
<b>TXMF-8343</b>	<b>Improvement</b> – Improved performance when writing MXF OP1a output with multiple tracks of PCM audio.
<b>TXMF-8340</b>	<b>Fixes</b> – 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.
<b>TXMF-8332</b>	<b>Fixes</b> – Customer's png image sequences can now be processed properly.
<b>TXMF-8308</b>	<b>Fixes</b> – 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.
<b>TXMF-8294</b>	<b>Improvement</b> – Improved error message when an LUT file cannot be found.
<b>TXMF-8287</b>	<b>Fixes</b> – RED decoding no longer shows intermittent failures when enabling the checkbox "Use Lightspeed Acceleration if available".
<b>TXMF-8283</b>	<b>Fixes</b> – 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.
<b>TXMF-8240</b>	<b>Fixes</b> –Nvidia Lightspeed GPU (H264) encoder now correctly preserves source timecode.
<b>TXMF-8206</b>	<b>Improvement</b> – Improved UI for the Deterministic Mode option in the Tachyon converter.
<b>TXMF-8154</b>	<b>Improvement</b> – 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.
<b>TXMF-8108</b>	<b>Improvement</b> – Improved error message from Nielsen watermark filter when you get the Failed to end encode error.
<b>TXMF-8076</b>	<b>Improvement</b> – Added a "Connection Failure Sleep Time" to the Neilsen V3 filter.
<b>TXMF-7983</b>	<b>Improvement</b> – Updated Flip64 to use the NexGuard SDK v1.14.7.
<b>TXMF-7980</b>	<b>Improvement</b> – Updated Flip64 to use the Tachyon SDK version Space Time 10.0 version 10.0.010898.
<b>TXMF-7881</b>	<b>Improvement</b> – Expanded the formats of BRAW file support for Flip64 decoding.
<b>TXMF-7596</b>	<b>Fixes</b> – Transcodes now complete when applying Media To Keep option on Transport stream sources.
<b>TXMF-7491</b>	<b>Improvement</b> – Added decoding support for EXR source files made with Nuke v10, 11, or 12.
<b>TXMF-7432</b>	<b>Fixes</b> – Performance when decoding R3D files has improved since you can now use the Lightspeed Acceleration option.

<b>TXMF-7258</b>	<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.
<b>TXMF-7007</b>	<b>Improvement</b> – 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.
<b>TXMF-6960</b>	<b>Fixes</b> – 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.
<b>TXMF-6688</b>	<b>Fixes</b> – Tachyon SD quality output has improved with Tachyon SDK version 10.0.0.10898.
<b>TXMF-7884</b>	<b>Improvement</b> – Added decoding support for Interlaced AVIWest HEVC files.
<b>TXMF-7790</b>	<b>Improvement</b> – An x265 codec option has been added to the MXF Op1a container.
<b>TXMF-7794</b>	<b>Improvement</b> – Added decode support for ARRI RAW camera files.
<b>TXMF-7745</b>	<b>Improvement</b> – New Nvidia NVENC SDK has been implemented for AVC (H.264) and HEVC (H.265).
<b>TXMF-7802</b>	<b>Improvement</b> – Flip64 now includes sample open source LUT files (developed by NBCUniversal Media) that are available for customer use. These can be found in your Vantage installer location under Components\Flip64 (ex. C:\Program Files (x86)\Telestream\Vantage\Components\Flip64.X.X.X\NBC_LUTs where X.X.X.X is your Flip64 ComponentPac version).
<b>TXMF-8107</b>	<b>Improvement</b> – “Spoken Language” option has been added to the IMF encoder in the Audio Track settings.
<b>TXMF-8047</b>	<b>Improvement</b> – Expanded the Blur filter’s capability to make outputs have a more extreme blurry effect.
<b>TXMF-7858</b>	<b>Improvement</b> – Added the Ross-Abekas.clip encoder. The current use cases are limited. Input frame rate and frame dimensions MUST match the output frame rate and dimensions.
<b>TXMF-8000</b>	<b>Improvement</b> – Added XDCAM HD 4.2.2 50 Mbps support to MXF OP1a.
<b>TXMF-8021</b>	<b>Improvement</b> – Added a TIFO Flush period setting to help speed up open workflows; this option is in the TIFO container.
<b>TXMF-7597</b>	<b>Improvement</b> – Added Variable Bitrate settings to the MPEG-2 codec in these Flip64 containers: Elementary Streams, MPEG-2 Program Stream, MXF Op1a, MXF AS-03, and TIFO.
<b>TXMF-7712</b>	<b>Improvement</b> – Added Logarithmic Algorithm option to the Audio Fade In/Fade Out filter.
<b>TXMF-7328</b>	<b>Improvement</b> – Added decoding support for 10 Bit AV1 sources.
<b>TXMF-7400</b>	<b>Improvement</b> – Added the SD AS-11 DPP (IMX) spec to the MXF AS-11 encoder.
<b>TXMF-7976</b>	<b>Improvement</b> – Added the ability for the Flip64 action to emit a specific state in the event of a Failure condition. Useful for supporting NexGuard watermarking workflows.

<b>TXMF-8247</b>	<b>Fixes</b> – A Camera Ingest truncation issue with outputs based on Sony camera files.
<b>TXMF-8318</b>	<b>Fixes</b> – An edge case where Tachyon jobs were timing out with specific sources.
<b>TXMF-7628</b>	<b>Improvement</b> – Added ADIFilename to the Nielsen VOD watermarking list of metadata fields.
<b>TXMF-8033</b>	<b>Fixes</b> – An edge case where MXF wrapped AVC 25 fps with PCM audio sources would fail when doing NexGuard JWT watermarking.
<b>TXMF-7633</b>	<b>Fixes</b> – An edge case where DPX sequence input transcoded to MPEG-4 produced poor quality output.
<b>TXMF-7527</b>	<b>Improvement</b> – Added the ability for Channel Designation Filter tags to be written to the MXF Container in the XDCAM encoder.
<b>TXMF-7725</b>	<b>Improvement</b> – Added the ability to enable Flip64 (via CML) to support data track from Avid OPAtom as ANC data source.
<b>TXMF-7805</b>	<b>Fixes</b> – Issue where timecode preserved from MP4 XAVC-S sources did not match source timecode displayed in Sony's Catalyst Browse.
<b>TXMF-8237</b>	<b>Fixes</b> – Issue where FrameFormer outputs were truncated by 1 frame.
<b>TXMF-8183</b>	<b>Fixes</b> – Issue where MPEG-PS sources created with Adobe Media Encoder V 23.1 would cause jobs to fail.
<b>TXMF-8181</b>	<b>Fixes</b> – A trimming issue with CPL (from DCP) sources.
<b>TXMF-8137</b>	<b>Fixes</b> – Issue where jobs failed if trimming was based on 'use source media video timing'.
<b>TXMF-8106</b>	<b>Fixes</b> – Resizing filter is no longer ignored when the Color Space filter is used.
<b>TXMF-8049</b>	<b>Fixes</b> – A source specific AVIWest decode issue.
<b>TXMF-8034</b>	<b>Fixes</b> – Transform Rotation issue in QuickTime outputs.
<b>TXMF-8029</b>	<b>Fixes</b> – Issue where MXF OP1a audio only encoder jobs failed in CloudPort mode.
<b>TXMF-8028</b>	<b>Fixes</b> – Issue where the Nielsen Watermarking V3 Filter would fail when using a TIC server failover broadcasting IP Address.
<b>TXMF-8022</b>	<b>Fixes</b> – A source specific R3D decode issue.
<b>TXMF-8017</b>	<b>Fixes</b> – Movie Overlay is now working in CloudPort mode.
<b>TXMF-8008</b>	<b>Fixes</b> – Issue where MXF OP1a XDCAM HD Omneon specific timecode was not being set correctly.
<b>TXMF-7995</b>	<b>Fixes</b> – An edge case where the progress status was not reported correctly when making a Keyframe output.
<b>TXMF-7988</b>	<b>Fixes</b> – Image Overlay issue that occurred when using the LUT filter.
<b>TXMF-7985</b>	<b>Fixes</b> – Source specific Canopus HQX AVI decode issue.
<b>TXMF-7981</b>	<b>Fixes</b> – Issue that occurs when stitching files together.
<b>TXMF-7893</b>	<b>Improvement</b> – Text Overlay filter “Outline/Shadow” effect.
<b>TXMF-7870</b>	<b>Fixes</b> – Color Space filter issue with MXF outputs.
<b>TXMF-7824</b>	<b>Fixes</b> – Issue where QuickTime audio only outputs showed two timecode tracks in MediaInfo.
<b>TXMF-7823</b>	<b>Fixes</b> – Issue where QuickTime audio only timecode track showed an incorrect duration of 1 frame.
<b>TXMF-7819</b>	<b>Fixes</b> – Truncation issue with wav outputs that could occur when using the Audio Mixer.



<b>TXMF-7798</b>	<b>Fixes</b> – Issue with QuickTime audio only outputs where the timecode always had a 29.97 timebase.
<b>TXMF-7784</b>	<b>Fixes</b> – An issue where using repeating keyframes in conjunction with the Time interval would result in a failure if the source video was using drop frame timecode.
<b>TXMF-7769</b>	<b>Fixes</b> – A decode issue with MXF OP1a DNxHD sources from Black Magic devices and Davinci Resolve.
<b>TXMF-7758</b>	<b>Fixes</b> – An issue where captions from MPEG-TS source files with RDD 11 caption data were not getting passed through to the output files.
<b>TXMF-7756</b>	<b>Fixes</b> – Removed the Language dropdown option from the SCC Input component. This UI element was mistakenly exposed in previous Flip64 ComponentPacs but does nothing.
<b>TXMF-7719</b>	<b>Fixes</b> – A CloudPort specific issue where the timecode overlay’s last digit would get cut off.
<b>TXMF-7708</b>	<b>Fixes</b> – an issue where the Audio Fade-In value overrode the value specified for Audio Fade-Out.
<b>TXMF-7695</b>	<b>Fixes</b> – A source specific issue where MP3 audio files made with the LAME 3.99 library would fail to decode.
<b>TXMF-7693</b>	<b>Fixes</b> – An issue where using Media To Keep would lead to A/V sync issues.
<b>TXMF-7674</b>	<b>Fixes</b> – An issue where transcoding XDCAM MOV files with ADPCM audio source files produced silent audio in the outputs.
<b>TXMF-7647</b>	<b>Fixes</b> – A source specific issue where HEVC UHD Transport Stream files would time out when Media to Keep marks were applied.
<b>TXMF-7624</b>	<b>Fixes</b> – An issue where the Timecode from TIFO wrapped XDCAM HD source files was not being preserved during direct convert.
<b>TXMF-7623</b>	<b>Fixes</b> – An upgrade issue with Flip64 actions that contain the Audio Levels converter with multiple items defined under the Loudness Adjustment option.
<b>TXMF-7604</b>	<b>Fixes</b> – A decode issue with MXF DNxHD files created with Premiere v22.0.
<b>TXMF-7575</b>	<b>Fixes</b> – A playout issue with MXF Class 200 XAVC 4K Long GOP outputs on Sony PZW-4000 devices.
<b>TXMF-7282</b>	<b>Fixes</b> – A decode issue with MXF OP1a XDCAM HD files created with legacy GP Flip.
<b>TXMF-7170</b>	<b>Fixes</b> – A timeout error when creating Dolby Vision MPEG-4 x265 outputs with AAC audio from Dolby Vision IMF packages made with DaVinci Resolve.
<b>TXMF-7023</b>	<b>Fixes</b> – WAV outputs no longer have the Encoded Date metadata tag so they will now match the WAV outputs from the legacy GP Flip.
<b>TXMF-6771</b>	<b>Improvement</b> – The Keyframe encoder will now show a progress bar during transcodes.
<b>TXMF-6328</b>	<b>Fixes</b> – An issue where the Keyframe encoder failed when transcoding JPEG to JPEG.
<b>TXMF-5458</b>	<b>Fixes</b> – A source specific failure when using the Image Overlay Filter.
<b>TXMF-5189</b>	<b>Improvement</b> – Added the "Outline/Shadow" option to Text Overlay.
<b>TXMF-4834</b>	<b>Fixes</b> – An issue where 25 fps source files submitted to a workflow which had the Flip64 action using the Tachyon Converter with the “Allow Telecine/Pulldown Removal” option enabled would cause the transcodes to hang.

## 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.

When upgrading the Tachyon converter from Flip64 2023.1 to 2023.4, the variables for the Determinism option are not preserved. (TXMF-8469).

### **Tachyon Quality Issues**

The Flip64 2023.4 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 ComponentPac 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.

**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.