Vantage Flip64 2022.3.1.328651 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: 2022.3.1.328651

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 Flip 64 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 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.

Priority Issues in the 2022.3.1 Release

- TXMF-8049 – Fixed several corner cases where AVIWEST files were failing to decode for Al Jazeera.
- TXMF-8017 – Fixed an issue where Movie Overlays were not working in Cloud Port mode.
- TXMF-8021 – Added the “Flush Period” feature to the TIFO container. This can help Open workflows.
- TXMF-8029 – Fixed an issue where MXF OP1a audio only encoder jobs failed in Cloud Port mode. This fix was on the Cloud side, so this ComponentPac is not needed to utilize this fix.
- TXMF-8000 – Added support for XDCAMHD422 50mbps in MXF OP1a for NBC VPOST.

- TXMF-7725 – Added a feature to allow Flip64 (via CML Lite) to support data tracks from Avid OPAtom as ANC data sources for NBC VPOST.
- TXMF-7687 – Fixed a typo in the dropdown list for the Rate Control selection in x264 codec.
- TXMF-7888 – Updated the source element section in the Transcode CML Developer Guide.
- TXMF-7867 – Updated documentation on new UI elements for adjustable levels of decoder error checking. This fix will become visible when 8.1 UP3 is released and installed.

Known issues introduced in the 2022.3.1 Release

- TXMF-7958 – Dolby Atmos jobs are intermittently crashing. This issue may be localized, but due to the speed required for this release, the issue is not completely understood at the time of release.

Major new Features in the 2022.3 Release

- TXMF-7578 – Decode support added for 8K Blackmagic RAW (.braw) files. There are still some edge cases where .braw is not supported. Enhanced support is planned for the Flip64 2022.4 release.
- TXMF-7733 – Updated the NexGuard SDK to version 1.14.4.
- TXMF-7070 – Tachyon Deterministic mode has been added. This is to be considered a Technology Preview.
- TXMF-7520 – The ability to add and edit QuickTime metadata has been implemented via the "QuickTime Annotations (Metadata)" setting which is found at the QuickTime container level.
- TXMF-7556 – Added decode support for QuickTime DNxHD files created by Avid Universal Media Engine.
- TXMF-7001 - Added support for Dolby Vision Profile 8.1.

Improvements, Features, and Fixes in the 2022.3 Release

TXMF-7244 - Added support for Dolby Vision XML 5.1.0.

TXMF-7529 – Fixed an edge case where direct converting large AVC-Intra files resulted in outputs of the wrong size.

TXMF-7730 - Added a checkbox to enable “Enhanced Decoder Error Reporting”. This feature is available in workflows created using Flip64 2022.3 or later. The checkbox will appear upon workflow upgrades with a future fix.

TXMF-7682 – Fixed a tooltip typo for Output Color Space in Dolby Vision HDR to SDR conversion filter.

TXMF-7866 – Nielsen StreamFP file creation is now limited to one per cluster.

TXMF-7883 - Improved Nielsen generic error messaging to provide more detail.

TXMF-7022 – Fixed an edge case where customer specific MPEG-PS files were having truncated outputs.

TXMF-6475 - Added “Apply Peak Limits for Negative Gain” checkbox to Loudness Adjustment filter.

TXMF-7362 – Improved transcoding performance of VP9 and AV1 sources.

TXMF-7481 – Improved Direct Convert timecode preservation of DF/NDF notation.

TXMF-5275 – Fixed an edge case where trimming customer specific files with pre-charge frames wasn’t working correctly.

TXMF-7172 – Fixed XAVC 4K-Intra encoding for video only sources.

TXMF-7460 – Fixed minor UI issue for XDCAM 4:2:2 1080p/23.98 and 720p/23.98.

TXMF-7522 – Fixed a case where MXF OP1a AVC-I 50 outputs included artifacts when inserting SMPTE 436 ANC for customer specific sources.

TXMF-7679 - QuickTime wrapped DNxHD sources coming from Adobe 22.3 will now be properly decoded.

TXMF-7711 – Customer specific Aviwest MP4 HEVC sources will now be properly decoded.

TXMF-7714 – Fixed a case where artifacts would appear at horizontal edges in MXF OP1a AVC-Intra outputs for customer specific QuickTime ProRes UHD sources.

TXMF-4721 – Enhanced decode support for Motion JPEG (MJPEG) sources.

TXMF-6171 – Fixed AVC Ultra LongG25 output playout issues on Avid Airspeed device.

TXMF-6925 – The new Deterministic mode fixes an issue where Tachyon 29.97p to 25p conversion was adding extra frames to outputs.

TXMF-6926 – The new Deterministic mode fixes an issue where Tachyon 25p to 29.97p conversion was shorting an extra frame on outputs.

TXMF-6946 – Fixed Panasonic compliance issues with P2 AVC-Intra 4K.

TXMF-7407 – Fixed a visual quality issue with IMF wrapper with JPEG 2000 CUDA outputs by upgrading the Compimato SDK to version 2.7.4.0.

TXMF-7459 – Fixed an edge case where Direct Convert was not working with a customer specific MPEG source.

TXMF-7517 – Fixed an edge case where a MOV DNxHR file failed to decode.

TXMF-7617 – Added decode support for HEVC MP4 files from Android phones.

TXMF-7629 - Added timecode support to MXF Op1a Audio-Only outputs.

TXMF-7654 – A potential fix for a customer with a very specific environmental issue causing truncated outputs on their EC2 VPC instance.

TXMF-7740 – Fixed a decode issue when transcoding from WAV source to WAV output.

TXMF-7749 – Fixed the Program Description for DolbyE to better align with the spec.

TXMF-7743 – Fixed a case where using multiple instances of Media To Keep caused audio sync issues on outputs.

TXMF-7483 – Fixed a customer issue where QuickTime ProRes sources with QT captions would not pass through to outputs.

TXMF-6119 – Added AVC Ultra to the MXF OP1a encoder in order to better support Harmonic Spectrum servers.

Known Issues in This Release

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

Significant MXF work this release

This is more of a general warning. Fixing several high priority issues in this release required Telestream to move parts of our code from Nablet to MainConcept for our MXF offerings. The Camera and MXF OP1a containers of XAVC, AVC-Intra, and AVC-Ultra are all now using MainConcept. Other MXF containers that use AVC-Intra are untouched by this release.

These changes were rigorously tested prior to release, but users should be cognizant of any edge case test escapes.

A known change that occurred when moving to MainConcept is that Avid AVC Intra outputs do not have the Full Video Range flag. (DIB-5252)

An additional change of note is that versions of Switch older than version 5.2 will display color range interpretations for AVC-150, 100, and 200 incorrectly. In these older versions, it will appear as though the brightness has changed. Switch 5.2 addresses this issue and will be released in the near future.

The changes here also have resulted in some potential issues with the Avid Media Creation action. Interlaced LongGOP AVC Ultra files made with Flip64 2022.3 will cause the Avid Media Creation action to fail (TXMF-7947).

Tachyon Deterministic Mode limitations

There are some known limitations of this new feature (TXMF-7070).
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.

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.