Vantage Avid Service

About This Release

These release notes describe the v8.0.2 release of the Avid Service ComponentPac which includes updates to the *Asset Monitor Action* and *Media Creation Action*. The *Media Creation Action* is now fully released and is no longer in Technology Preview.

This release can be installed on any system running Vantage v8.0 with Update Pack 2 and any critical patches.

Avid Service 8.0.2 Components
- Avid.8.0.2.297612.nupkg
- Vantage_8_0_Avid_UP2_Rollup_Patch_Setup(8.0.658.78).exe

Required Vantage version - Vantage v8.0 with UP2
Recommended Flip64 version – v8.0.6

Overview

The Asset (Interplay) Monitor action and the Media Creation action can be found in the Vantage Avid Service. The Avid Asset Monitor action monitors an Interplay database 'virtual' folder, configured within the action's Interplay Folder selection, for both Master clips and Sequences, while the Media Creation action provides containers for the creation of Avid MXF OP-Atom media for Media Composer directly and for delivery to ISIS/NEXIS storage with Interplay check-in.

> **Best Practices:** When implementing a system utilizing the Avid Service's Media Creation Action the latest *Flip64* ComponentPac should be installed. Contact <u>Telestream Technical Support</u> to obtain the latest *Flip64* release.

For more details on how to use and configure the Avid Service's Asset Monitor or Media Creation Action see the embedded context Help or the latest <u>Avid Integration Guide</u>.

V8.0.2

New Features, Improvements and Fixes in this Release

The following new features/improvements and fixes are included in this release:
- **Improvement –** Asset Monitor: Support ignoring of an Asset's online status while process the asset. (AVID-788)
- **Improvement** – Asset Monitor: Added support for asset sequences containing pre-roll frames. (AVID-704/786)
- **Improvement –** Media Creation: Added ability to create new directories when Directory Control's max file limit is reached. (AVID-644)
- **Improvement –** Media Creation: Added upgradability allowing Media Creation Actions made with v8.0.1 to be upgraded to v8.0.2 with no additional configurations. (AVID-821, AVID-829)
- **Fixed** – Asset Monitor: Fixed issue generating "… same key has already been added" error. (AVID-814)
- **Fixed** – Asset Monitor: Masterclips - handle Assets with no Interplay preroll metadata. (AVID-863)
- **Fixed** – Asset Monitor: Fixed an issue with handling assets with no preroll metadata. (AVID-846)
- **Fixed** – Asset Monitor: Retries a failed job multiple times even after succeeding (AVID-681)
- **Fixed** – Media Creation: Fixed an issue with ingesting XDCAM Camera file in Open Mode. (AVID-808)
- **Fixed** – Media Creation: Fixed failure to read open TIFO XDCAM files. (AVID-811)

- **Fixed** – Media Creation: Fixed Flip64 issue where TIFO Open Mode fails intermittently without a delay action. (AVID-812)
- **Fixed** – Media Creation: Fixed an issue with TIFO: XDCAM fails with audio. (AVID-817)
- **Fixed** – Asset Monitor: Fixed issues with upgrading action. (AVID-711, AVID-290)

V8.0.1
New Features, Improvements and Fixes in this Release
The following new features/improvements and fixes are included in this release:
- **New** – Media Creation: Added support for Cross-rate relinking. (AVID-630)
- **New** – Media Creation: Added support for dynamic Interplay folder creation. (AVID-451)
- **Improvement** – Media Creation: Added support for open workflow processing with TIFO and MXF OP1a sources. (AVID-71, AVID-617)
- **Improvement** – Media Creation: Added support for "Avid Restriction" metadata tags. (AVID-538)
- **Improvement** – Media Creation: Added configurable Max Duration control (AVID-640)
- **Improvement** – Media Creation: Add variable binding for headframe path (AVID-700)
- **Improvement** – Media Creation: Allow Head Frame option to be disabled (AVID-651)
- **Improvement** – Media Creation: Implement Read Margin setting for Open workflows (AVID-641)
- **Improvement** – Media Creation: Make Processor Settings configurable (AVID-679)
- **Improvement** – Media Creation: Support Avid Frame Chase/Edit While Capture feature (AVID-80)
- **Improvement** – Media Creation: Support backslashes as separators in Interplay Folder configuration (AVID-705)
- **Improvement** – Media Creation: Added Timecode source selector (AVID-708)
- **Improvement** – Asset Monitor: Asset Monitor now ignores assets while they are being ingested and are growing. (AVID-639)
- **Improvement** – Asset Monitor: Support for passing audio at the end of an asset when no associated video exists. (AVID-781)
- **Improvement** – Asset Monitor: Added support for edge effects on sequences with no video mix-down. (AVID-331)
- **Improvement** – Asset Monitor: Asset Monitor now automatically choose the "Highest resolution" for masterclips. (AVID-468)
- **Improvement** – Asset Monitor: Added support for video dissolves when sequences are rendered. (AVID-563)
- **Fixed** – Asset Monitor: Fixed an issue with audio effect (fade) on a sequence causing in AV Sync issues. (AVID-760)
- **Fixed** – Asset Monitor: Fixed issue with 'Indexer failed' error on specific sequences. (AVID-601)
- **Fixed –** Asset Monitor: Fixed an issue with XDCAM sequences failing with 'Incomplete Asset' (AVID-648)
- **Fixed** – Asset Monitor: Fixed an issue where jobs fail with Incomplete Asset error. (AVID-768)
- **Fixed** – Asset Monitor: Fixed issue with jobs hanging at 0% for sequences having audio gaps at the end (AVID-631)
- **Fixed** – Asset Monitor: Fixed issue with jobs failing with Incomplete Asset on growing XDCAM sequences. (AVID-772)
- **Fixed** – Asset Monitor: Fixed issue where MXF reader fails with files compatible Media Composer media. (AVID-547)
- **Fixed** – Asset Monitor: Fixed issue with jobs crashing when sequences contain fractional audio filler samples. (AVID-776)
- **Fixed** – Asset Monitor: Fixed issue with 'No Suitable Filler' error being thrown with good media. (AVID-706)
- **Fixed** – Asset Monitor: Fixed and issue where MP4 output file is missing black frames between segment effect. AVID-594)
- **Fixed** – Media Creation: Fixed issue where ANC data tracks where not being published. (AVID-629)
- **Fixed** – Media Creation: Media files created with *Flip64 v8.0.5* (or later) resolves the following issues associated with the Media Creation Action:

- Avid Essence Analyzer unit duration doesn't match field or frame duration (AVID-255)
- XAVC 1080p50 file is not compatible with (X)AVC-Intra constraints (AVID-256)
- XAVC 1080i25 and 1080i29.97 throw Core consistency error when played or imported into Media Composer (AVID-258)
- XDCAM HD 1080p30 25Mbps CBR output fails to play in Media Composer (AVID-424)

V7.1.6
New Features, Improvements and Fixes in this Release
The following new features/improvements and fixes are included in this release:

- **New** – Media Creation*: Adds support for XAVC and AVC based codecs. XAVC-Intra Class 300/480, XAVC Intra Class 50/100, XAVC Long 25/35/50 and AVC Ultra LongG 12/25/50 (AVID-163)
- **New** – Media Creation*: Adds support for DNxHR (HD/UHD): 444, HQX, HQ, SQ & LB. (AVID-300)
- **New** – Media Creation*: Adds support for XDCAM EX 35, XDCAM HD 25, 35 and XDCAM HD422 50. (AVID-305, AVID-306)
- **New** – Media Creation*: Adds support for setting Media Composer custom user properties. The Tag Names will appear as separate column headers in the Media Composer bins with the populated values. (AVID-367)
- **New** – Media Creation*: Adds support for DNxHR at 47.952 frame rate in HD/UHD support added to Media Creation. (AVID-367)**
- **New** – Media Creation*: Adds support Headframe creation when using the Interplay check-in mode.
- **Improvement** – Media Creation*: Now automatically retains and passes through SMPTE 436M data track. (AVID-67)
- **Improvement** – Asset Monitor: Added a new option for choosing if an asset should be re-processed on subsequent modifications. (AVID-273)
- **Improvement –** Asset Monitor: Now supports audio effects without audio mix down when rendered within the sequence timeline. (AVID-352)
- **Fixed** – Asset Monitor: Fixed an issue where MP4 output file where missing black frames between segment effect (AVID-594)
- **Fixed** – Asset Monitor: Fixed an issue when an error was not thrown for assets containing multi-layer video sequences. (AVID-333)
- **Fixed** – Asset Monitor: Fixed an issue preventing assets containing DNxHD 350x from being processed. (AVID-341)
- **Fixed** – Asset Monitor: Fixed an issue preventing Asset Monitor's MP4 reference output files from playing in Switch. (AVID-340)
- **Fixed** – Asset Monitor: Implemented ST 377 "Best Effort" requirement for Video Line Map (AVID-362)

V7.1.5
New Features, Improvements and Fixes in this Release

> **Important:** The v7.1.5 release supports the Asset Monitor Action only. The Media Creation Action is completely disabled in this release. Install only on systems that do not require the Media Creation Action.

The following new features/improvements and fixes are included in this release:
- **New** – Asset Monitor: Interplay Access virtual directory path is now shown in the Monitor Status view. (AVID-291)
- **New** – Asset Monitor: Real-time progress is now shown in the Vantage UI. (AVID-267)
- **Fixed** – Asset Monitor: Fixed an issue with one less video frame in an MP4 sequence. (AVID-282)
- **Fixed** – Asset Monitor: Fixed an issue with incorrect Sequence offset in MP4 outputs. (AVID-339)
- **Fixed** – Asset Monitor: Unable to process customer audio file. (AVID-123)
- **Fixed** – Asset Monitor: Outputs corrupt captions from XDCAM sequences. (AVID-166)
- **Fixed** – Asset Monitor: MP4 output has bad audio. (AVID-312)
- **Fixed** – Asset Monitor: Causes blockiness at a specific edit endpoint. (AVID-254)
- **Fixed** – Asset Monitor: Fixed CML Datatrack submission hanging at zero percent. (AVID-257)
- **Fixed** – Asset Monitor: Output shows an additional frame for specific XDCAM HD. (AVID-288)
- **Fixed** – Asset Monitor: Fails for specific sequences. (AVID-296)
- **Fixed** – Asset Monitor: Fixed an issue with 1 frame subclips causing a job to crash. (AVID-217)

- **Fixed** – Asset Monitor: Fixed issue with DNxHD Subclip missing 2 frames at file end. (AVID-218).
- **Fixed** – Asset Monitor: Takes a long time to create Telestream mp4 file for XDCAMHD MXF OP-Atom sources. (AVID-247).
- **Fixed** – Asset Monitor: Sequences with audio gaps hang at 0% for XDCAM HD. (AVID-249)

V7.1.4
New Features, Improvements and Fixes in this Release
The following new features/improvements and fixes are included in this release:
- **New** – Added XAVC Class 300 at 1080*p59.94 to* the Media Creation action (***Technology Preview***). This action creates Avid compatible MXF OP-Atom and AAF files for use directly in Media Composer or checked into Interplay.
- **Fixed** – Asset Monitor: Fixed an issue where sequences with audio gaps hung at 0%. (AVID-108)
- **Fixed** – Asset Monitor: Fixed an issue where AVC-I sources with cuts had A/V Sync issue on outputs. (AVID-116)
- **Fixed** – Asset Monitor: Fixed an issue where MP4 outputs fail with "input string was not in a correct format" error. (AVID-119)
- **Fixed** – Asset Monitor: Fixed an issue where MP4 outputs have Audio Channels in the incorrect order when compared to the Source files Audio Channels. (AVID-181)
- **Fixed** – Asset Monitor: Fixed an issue where MP4 output file had A/V sync issues. (AVID-185)
- **Fixed** – Asset Monitor: Fixed an issue where the Asset Monitor output had macroblocks on edits of XDCAM HD sources. (AVID-189)
- **Fixed** – Asset Monitor: Fixed an issue where jobs failed with "Writer Begin Failed" error. (AVID-190)
- **Fixed** – Asset Monitor: Fixed an issue where Asset Monitor output for XDCAM master clips are shorter in duration. (AVID-192)
- **Fixed** – Asset Monitor: Allow Subclip support. (AVID-191)
- **Fixed** – Media Creation: Fixed an issue where the source file output was missing a frame at end. (AVID-213)
- **Fixed** – Media Creation: Fixed an issue where the source file output's Timecode is off by 1 frame at the end. (AVID-216)

Requirements
The following are required for this release:
- Vantage 8.0 with Update Pack 2 and any critical patches.
  - The Avid Service must be installed
  - The correct Vantage Avid Service Patch must be installed
- Licensing
  - Vantage **V-Avid** option (requires Vantage Transcode Pro Connect) or Live Capture **LS-LIVE-AVID-OPT** option.
  - Media Creation Technology Preview licenses are no longer valid.
- Updated Flip64 ComponentPac
  - Latest released Flip64 ComponentPac (Contact Telestream Technical Support to obtain the latest *Flip64* release)

Installing the Avid Service Patch and Avid Service ComponentPac
If the Avid Service is not yet installed on your Vantage system, follow the instructions contained in ***Installing Vantage*** chapter of the Vantage Domain Management.

After the Avid Service has been installed (or on a system where it already exists) the associated Avid Service Patch and Avid Service ComponentPac must be installed.

Following these steps:

1. Install the Avid Service Patch. - ***Vantage_8_0_Avid_UP2_Rollup_Patch_Setup(8.0.658.78)***
2. Update the Avid Service ComponentPac with ***Avid.8.0.2.297612.nupkg***, by following the instructions contained in ***Upgrading and Modifying Vantage*** chapter of the Vantage Domain

Licensing

The Avid Service is included in the Avid Advanced Option (**V-AVID**) or the Live Capture **LS-LIVE-AVID-OPT** option. Vantage systems requires Vantage Transcode Pro Connect. This license combination will enable the Avid Service Asset Monitor Action and Media Creation Action. Those using a previous Technology Preview license for the Media Creation Action should request that their license be re-issued in order to properly license the v8.0.2's version.
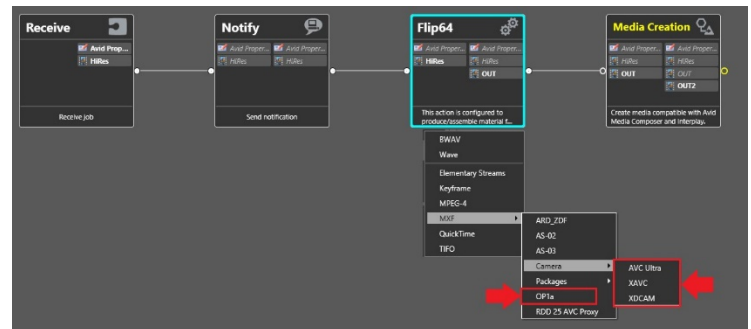
Avid Media Creation codec support

The Media Creation Action currently supports pass-through of:

- AVC Ultra LongG 12 / 25 / 50
- AVC Intra 50 / 100
- XAVC Long 25 / 35 / 50
- XAVC-Intra Class 100 / 300 / 480
- DNxHD – 444 / HQX / HQ / SQ / LB
- DNxHR – 444 / HQX / HQ / SQ / LB
- XDCAM EX 35, XDCAM HD 25, 18, 35 and XDCAM HD422 50
- DV based 25 / 50 /100
- IMX 30 / 40 / 50

Media Creation action does not perform any transcoding. Therefore, files submitted to this action must contain the desired codec in their video essence. Files submitted will be re-wrapped into Avid compatible MXF OP-Atom and AAF files.

If the files you wish to submit do not contain the desired essence, then they can first be processed through a Flip64 action to produce an MXF OP1a outputs.

Avid Service test environment

The Asset Monitor and Media Creation actions have been tested in the following Avid environments:

Avid Supported System Specifications (Interplay | Production & Media Composer)

Avid Product	Version	Operating System	Version
Media Composer	2019.12	Windows	10 Enterprise 64-bit OS Build 1809
Interplay | Production Management Engine	2018.11	Windows Server	2016 Standard 64-bit
Interplay Access	2018.11	Windows Server	2016 Standard 64-bit
Interplay Media Indexer	2018.11.0.32693	Windows Server	2016 Standard 64-bit
Interplay Web Services	2018.9.0.61515	Windows Server	2016 Standard 64-bit
NEXIS Client	2019.12.0.5	Windows Server	2016 Standard 64-bit
Service Framework	1.8.1.1	Windows Server	2016 Standard 64-bit

Note: There is no support for Media Composer on Production Management (Interplay) 2019.6 currently. Media Composer 2018.12.x and 2019.6 are in the process of being qualified on Production Management 2019.6. The documentation will be updated when the qualification is completed, including the specific versions of Editor and Production Management components. This Readme and the following document will be updated. http://resources.avid.com/SupportFiles/Attachments/Interplay_Editor_Compatibility.pdf. Note that Media Composer 2019.6 is supported on Production Management 2018.11 as listed in the above support matrix.

Known Issues

The following are known issues in this release.

Asset Monitor action

- Asset Monitor: Black frames at file start/end are ignored in MP4 output (AVID-707)
- Asset Monitor: Reprocesses sequences when AVID Web service is restarted (AVID-599)

Media Creation action

- Media Creation: XML submission from Camera Ingest causes "Media Offline" errors in MediaCentral. (AVID-160)
- Media Creation: Submitting multiple files via a Watch or Receive Action causes an 'input string' error (AVID-391)
- Media Creation: DNxHR 3840x2160 47.952 & 48 FPS have incorrect timestamp in Interplay Access (AVID-467)

The following know Flip64 issues can affect Avid Service Media Creation action workflows:

- Flip64: DNxHR>3840x2160>47.952/48 FPS not preserving start timecode with non-zero sources (TXMF-4860). Recommended workaround is to use the Timecode Override Filter.
- Flip64: DNxHR>444>UHD/HD>47.952 + ANC fails with filter error (TXMF-4861).
- Flip64 does not support the creation of DVCPro HD. When your workflow requires transcoding to DVCPro HD use the Generic MXF OP1a container within the Flip Action's MXF Encoder (AVID-301)