2023.5 Data Sheet - Supported File Formats

Flow

Exported on 09/07/2023

1 Considerations

- Implementation of Avid proxy formats produced by Edge impose a number of known Avid-specific conversions. Avid proxies are under consideration and will be included upon binding commitment.
- Implementation of ingest through transcoding to Avid-supported video codecs other than DNxHD, DNxHR and AVC-Intra are under consideration and will be included upon binding commitment.

2 Limecraft Flow and Edge - Ingest File Formats

#	File Contai ner	Codecs and Variants	Ed ge ing est	Flo w ing est	Statu s	Notes
1	MXF	MXF OP1a Sony XDCAM (DV25, MPEG IMX codecs), XDCAM HD and XDCAM HD 422		•	Depl oyed	 No P2 spanned clips supported at the moment. Referencing original OP1a media from Flow AAFs is possible using AMA media linking in Avid. AAF workflows for P2 are not implemented end-to-end yet.
		MXF OP-atom P2 (DV codec) and P2 HD (DVCPro HD, AVC-I 50 and AVC-I 100 codecs)		8	Depl oyed. Only avail able in Edge	
1. 1	MXF	 Sony RAW and X-OCN (XT, LT, ST) in up to 6K and 8K sensor resolutions. for Sony Venice and Venice 2, F65, PMW-F55, PMW-F5 and NEX-FS700 	•	8	Depl oyed. Only avail able in Edge	Due to the heavy data rates involved in processing these files, a properly provisioned system is required, featuring fast storage (SSD or RAIDed spinning disks) and a recent GPU (with at least 4GB of memory).

#	File Contai ner	Codecs and Variants	Ed ge ing est	Flo w ing est	Statu s	Notes
2	R3D	R3D clips from all Red Digital Cinema cameras (incl. RED One and RED Epic)	•	8	Depl oyed. Only avail able in Edge	Full RED magazine and spanned clips ingest is supported through Edge, for older versions of R3D files. Ingest is no longer supported on Limecraft Flow. Full support for recent R3D clips and magazines with GPU acceleration is upcoming in Edge release 2023.2.
3	ARRI	ARRI Alexa RAW (incl. Open Gate sensor RAW imagery).	•	8	Depl oyed. Only	Due to the heavy data rates involved in processing these files, a properly provisioned
		 ARRI Alexa MXF/ARRIRAW (from ARRI Alexa Mini) ARRI Alexa MXF/ProRes (from ARRI Alexa Mini LF, not yet supported for ARRI Alexa 35) 	•	8	avail able in Edge	 system is required, featuring fast storage (SSD or RAIDed spinning disks) and a recent GPU (with at least 4GB of memory). Currently, only the Alexa line of cameras (Alexa, Alexa SXT and Alexa Mini) is supported, not the Alexa 65.
4	Quickti me	With video in following formats: ProRes DNxHD DV Apple Video Apple M-JPEG Quicktime Animation Quicktime Graphics Sorensen video and audio in following formats: PCM AAC alaw/µlaw MP3 ALAC	•	•	Depl oyed	This includes a.o. Quicktime clips generated by ARRI Alexa and Amira products, Blackmagic Design cameras, Video Devices PIX devices, Atomos recorders, Convergent Design Odyssey recorders.

#	File Contai ner	Codecs and Variants	Ed ge ing est	Flo w ing est	Statu s	Notes
5	Blackm agic RAW	Blackmagic RAW video with PCM audio.	•	8	Depl oyed. Only avail able in Edge	Due to the heavy data rates involved in processing these files, a properly provisioned system is required, featuring fast storage (SSD or RAIDed spinning disks) and a recent GPU (with at least 4GB of memory).
6	MP4	All MP4 with H.264 and AAC or MP3/MP2 audio. This includes support for the following types of cameras: GoPro HD and 4K XDCAM EX XAVC S	oyed reading timecod		XDCAM EX support includes reading timecode metadata (only available in Edge).	
7	MPEG TS/PS variant s	AVCHDDVD VOBMPG (MPEG-1 video and audio)	•	•	Depl oyed	
8	Legacy Format s	 AVI (incl., MJPEG, XViD, DivX, Cinepak and uncompressed codecs) Support for Starlight low-light cameras WMV (with Windows Media Video 7, 8, 9 codecs for video and Windows Media Audio 1, 2, 9 Pro and Lossless codecs for audio) DV (SD DV-based bitstreams without container, but including uncompressed audio) 	•	•	Depl oyed	

#	File Contai ner	Codecs and Variants	Ed ge ing est	Flo w ing est	Statu s	Notes
9	Web Format s	 WebM (with VP8 and VP9 video and Vorbis and Opus audio) Ogg (with Theora video and Vorbis audio) Flash FLV (with Sorenson Spark, VP6, H.264 video and MP3, ADPCM, Nellymoser, Speex and AAC audio) MKV (with a variety of codecs, incl., H.264, XViD video and uncompressed WAVE, MP3, FLAC, AAC and AC-3 audio) ASF (with WMV video and WMA audio, cf. WMV format) 			Depl oyed	
1 0	Image Sequen ces and time lapses	Sequences of JPEGs, PNGs, GIFs.	•	*	Depl oyed	 No timecode is imported when interpreting time lapse sequences In order to be imported as a sequence, a consistent supported file pattern needs to be present in all image file names. Currently, image sequences are imported with a default frame rate of 25 FPS. * Still image formats can be ingested by Flow directly, but as individual images and not as image sequences.
1 1	Audio Format s	 WAVE and BWF (support for both poly and mono-wave BWF files) Timecode and metadata are read from BWF audio files. AIFF MP2/MP3 streams MP4 (with AAC, MP3, PCM and ALAC audio) OGG (with Vorbis and Opus audio) FLAC 	•	*	Depl oyed	* Poly-wave BWF files are not interpreted as related when ingested directly into Flow using web-based uploads, Edge should be used to support this use case.

3 Limecraft Edge - MXF Rewrapping File Formats

Limecraft Edge supports rewrapping (or "consolidation") of content in MXF files, from OP-1a and OP-atom flavors to Avid-compliant OP-atom flavors for use in Avid editing environments. The following table lists the MXF OP-1a formats supported for this rewrapping operation. Rewrapping is not available in Limecraft Flow at the moment.

#	File Cont aine r	Codecs and Variants	Edg e ing est	Flo W ing est	Status	Notes
1	MXF OP-1 a and OP-	Sony XDCAM (DV25, MPEG IMX codecs), XDCAM HD and XDCAM HD 422 also for Canon C300/C500 and XF series Sony XAVC (incl. XAVC Intra and XAVC-L codecs) AS-11 MXF (MPEG IMX/D10, AVC-I codecs) DNxHD/VC-3 MXF (DNxHD codec in all variants, e.g., ARRI Alexa MXF)	•	8	Deplo yed. Only availa ble in Edge.	
2	MXF OP- atom	 P2 (DV codec) and P2 HD (DVCPro HD, AVC-I 50, AVC-I 100 and AVC-I 200 codecs) 				

4 Limecraft Edge - MXF Transcoding Formats

Limecraft Edge supports transcoding of all input formats to select OP-1a and Avid-compliant OP-atom MXF flavors. The following table lists the codecs supported for this transcoding operation. MXF Transcoding is only available in Limecraft Edge at the moment.

#	File Containe r	Codecs and Variants	Ed ge ing est	Flo w ing est	Status	N o t e s
1	MXF OP-1a and OP- atom	 (X)AVC Intra 50/100 transcoding output from all input sources listed above (for supported frame rates: 23.98, 24, 25, 29.97, 50 and 59.94 FPS). DNxHD/VC-3 and DNxHR transcoding output from all input sources listed above (for supported frame rates: 23.98, 24, 25, 29.97, 50 and 59.94 FPS). 	•	8	Deployed. Only available in Edge.	