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PREservation FORMAts for culture information & e-archives



Empower memory institutions to gain full control over the technical properties of digital content intended for long-term preservation

Challenge Brief

- ☐ Develop an open source conformance checker that:
 - checks if a file complies with standard specifications
 - checks if a file complies with the acceptance criteria of the memory institution
 - reports back to human and software agents
 - performs simple fixes
- ☐ Establish an ecosystem around an open source reference implementation that:
 - generates useful feedback for those who control software
 - advances improvement of the standard specification
 - advances development of new business cases for managing preservation files



VeraPDF Consortium:

- Open Preservation Foundation
- PDF Association
- Digital Preservation Coalition

PDF/A Validation



■ TIFF/A Standard Initiative:

- Digital Humanities Lab / University of Basel
- Agents Research Lab / University of Girona
- Easy Innova
- DPF Manager



Open standard?	AUDIOVISUAL			TEXT	IMAGE
	broadcast	film	Consumer		
PREFORMA	MPEG-IMX	DPX	MOV/MPEG2	PDF 1.4	TIFF 6.0
stakeholders	(MXF/MPEG2)	DCP	AVI/MPEG2	PDF/A1	JPEG
	XDCAM HD422	(MXF/JPEG2000)	MPEG/		JPEG2000
	(MXF/MPEG4)		MPEG2		RAW
			MPEG/		
			MPEG4-AVC		
Industry standards	AS/07	DCDM	MPEG-AF	PDF	JPEG2000
	(MXF/MPEG2)	(TIFF 6.0)			TIFF
	(MXF/JPEG2000)	DCP (MXF/JPEG2000)			
	FIMS	IMF (MXF/MPEG4)			
	(MXF/MPEG2)	,			
Open standards	MKV/FFV1	PNG	WebM/VP8	PDF/A1	PNG
	OGG/Dirac		OGG/Theora	PDF/A3	
				PDF/A3	
PREFORMA	MKV (?) OGG JPEG2000 (?) FFV1 Dirac LPCM (?)			PDF/A	TIFF 6.0 (?)

CELLAR Codec Encoding for LossLess Archiving and Realtime transmission

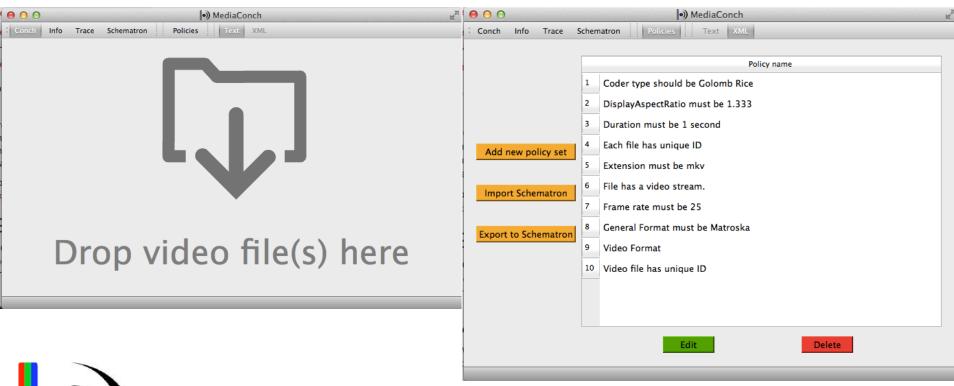
Project Advisors MATROŠKA {}



MediaConch

MediaConch is an extensible, open source software project consisting of an implementation checker, policy checker, reporter, and fixer that targets preservation-level audiovisual files (specifically Matroska, Linear Pulse Code Modulation (LPCM) and FF Video Codec 1 (FFV1)) for use in memory institutions, providing detailed and batch-level conformance checking via an adaptable and flexible application program interface accessible by the command line, a graphical user interface, or a webbased shell. Conch is currently being developed by the MediaArea team, notable for the creation of open source media checker software, MediaInfo. Furthermore, the MediaArea team is dedicated to the further development of the standardization of the Matroska and FFV1 formats to ensure their longevity as a recommended digital preservation file format.







preforma-project.eu

mediaarea.net/ mediaconch

Digital

MediaConch team

- Jérôme Martinez
- Dave Rice
- Guillaume Roques
- Florent Tribouilloy
- Ashley Blewer
- Tessa Fallon
- Erik Piil

