

MediaConch

implementation and policy checking
on FFV1, Matroska, LPCM, and more



Jérôme Martinez
MediaArea.net SARL

What is MediaConch?

A conformance checker

- Implementation checker
- Policy checker
- Reporter
- Fixer

What is MediaConch?

A conformance checker ... in four formats

- Command line
- Graphical interface
- Server (REST API)
- Web interface

MediaConch and open source

- GPLv3+ and MPLv2+
- Relies on MediaInfo (metadata extraction tool)
- Uses Qt, sqlite, libevent, libxml2, libxslt, libexslt...

Formats

- **Prioritizes...**
 - Matroska
 - FFV1
 - PCM
- **But also...**
 - Can accept any format supported by MediaInfo
 - Mainly as a policy checker
 - Implementation checker for other formats can be developed in the future

Versatile

- Binaries are provided for:
 - Windows
 - Mac
 - Linux (Ubuntu, Debian, Fedora, OpenSUSE...)
 - Can be ported on other distros (BSD...)
- Input can be from:
 - Files (local/network)
 - FTP/FTPS/SFTP
 - HTTP/HTTPS
 - Amazon S3

Standardization

- Matroska is widely used but not standardized
- FFV1 is preferred by some entities but not standardized

CELLAR: IETF workgroup

- Open standards group
- Goal to standardize Matroska/FFV1/FLAC
- A lot of progress, especially with Matroska/EBML specs

PREFORMA Sponsorship

- 3-year project (2015-2017)
- Sponsored by European Union
- Open source license is required!



PREFORMA Sponsorship

3 software projects:

- **Video** (Matroska/FFV1/PCM):
MediaConch (MediaArea)
- **Document** (PDF):
VeraPDF (Open Preservation Foundation)
- **Image** (TIFF):
DPF Manager (Easy Innova)

What's next?

- Still under development
- asynchronous mode (handling of huge libraries)
- Better user interface
- Statistics
- Standardize Matroska and FFV1
- More conformance tests

Want to help us?

- CELLAR participation
- Implementing CRC-32 into Matroska and FFV1
- Quality checking for all interfaces
- Bug tracking and reporting
- Documentation
- Your weird video errors
- Your codebase!



Stay in touch

MediaArea: <https://mediaarea.net>, @MediaArea_net

MediaConch: <https://mediaarea.net/MediaConch>,
@MediaConch

Jérôme Martinez: jerome@mediaarea.net

Slides: <https://mediaarea.net/Events>

License: CC BY