# Topic 4 - Ingest

# Scope of submission

### What is a SIP?

"An Information Package that is delivered by the Producer to the OAIS for use in the construction or update of one or more AIPs and/or the associated Descriptive Information." — OAIS, 1-15

Meaning: The stuff someone gives you to preserve (for them).

#### For example:

- 1-or-more content files
- Metadata
- Other (relevant) information

# Shape of SIPs to come

- File
- Folder(-structure)
- ZIP, TAR, etc.
- BagIt Bag
- Digital objects + database entry
- A video tape, film, image, tape, ...
- ...anything! :D

### Mom... Where to SIPs come from?

- Creators
- Digitization vendors
- Staff
- Passionate collectors
- All of the above!
- and more...

### How to decide...

#### what is accepted/required?

- Source (e.g., film, video)
- Agreements with producers
- Internal capabilities
- Metadata only available from producer
- Policies: collection, format
- etc...

Source: Example: If it's a physical medium "film" it goes to a film archive, if it's a magnetic tape it may go somewhere else: Mediathek.

This may also be a(n unwritten) policy.

# What is...?



# **Ingest activities**

These are as different as the world is colorful and amazing!;)

They depend on things like: \* media type \* focus, capacities \* policies \* etc

# Typical ones

- Prepare & record (analogue) source
- Generate unique ID
- Validate or generate fixity/hash data
- Format policy checks
- Format normalization
- Create derivatives
- Create metadata
- Logging
- Virus check
- etc...

Questions: \* Which of these activities applies to which kind of data formats? \* Which steps could be "source preparation"? And for which kinds of materials?

# The Unique Identifer

#### A "must have"!

Also known as:

- Object ID
- Archive signature
- Item ID
- UID, UUID
- •

Questions: \* For what reason(s) would you want/need an identifier? \* Why is it desired that it's unique? \* What is "Linked Open Data", and what's its relation to

# The Unique Identifer

#### **Examples**

- V-00815
- W/S #00034
- FBW002984
- 38AF2EC1A13494B9DF6FD6E75960307
- 111-ADC-4319
- VHS-0317
- adBDwKf\_aSE
- Q83697636

• ...

### **Format Normalization**

- Popular SIP to AIP use case
- Improve preservation properties
- By switching to a "better" format
- Cleaning/normalizing data (dialects)

# Format Normalization Examples

- Rewrap container (eg MKV, MOV, MXF)
- Audio to PCM
- Convert video to FFV1, V210, H.264, etc

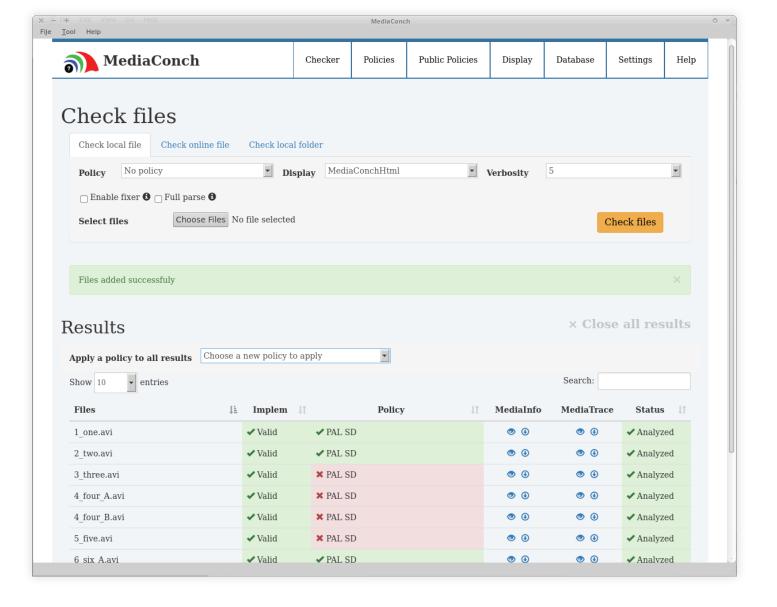
# Format Policy Checks

- Define conditions for tech-MD properties
- "whitelist" formats
- Spot irregularities

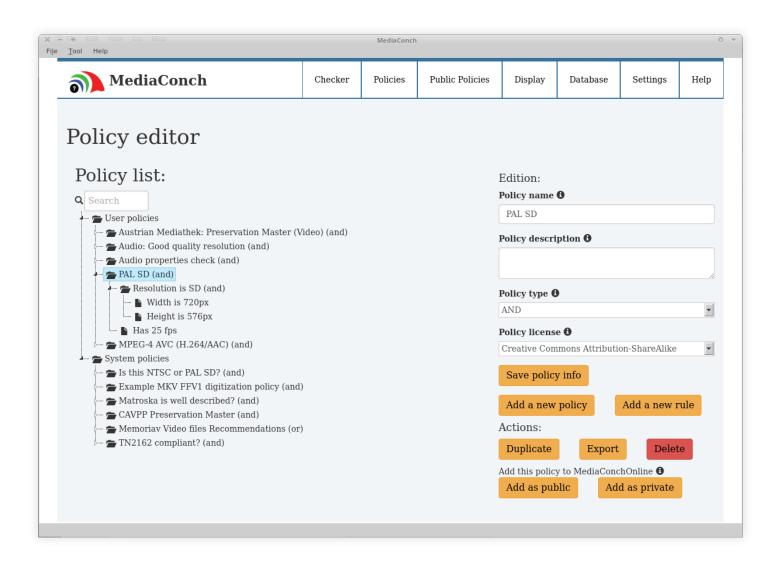
In order to decide which files can be ingested without format normalization, or need other special attention, it is good to define so called rules which properties a media file shall have. These rules are (also) called "policies".

These policies can then be used to decide further steps to be taken for certain objects.

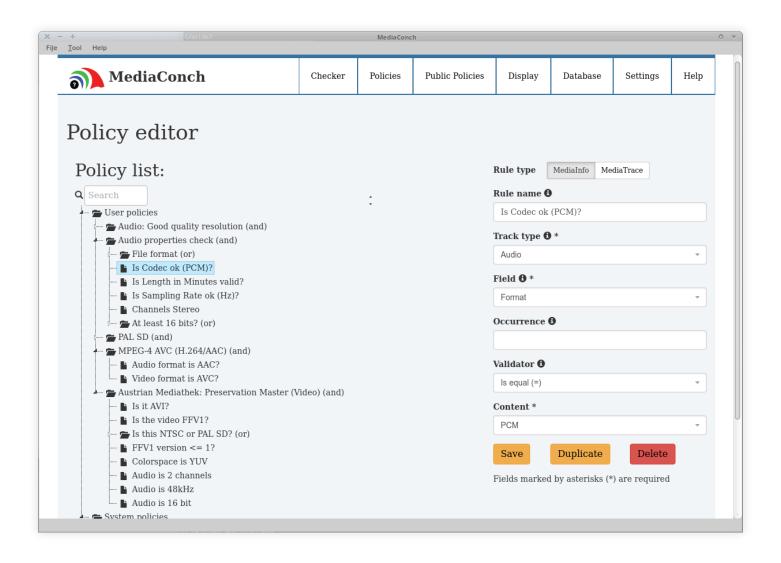
### MediaConch



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#### **Possible Bottleneck**

"Ingest can be a dangerous bottleneck.

Don't let the perfect be the enemy of the good"

# Comments?

**Questions?**