

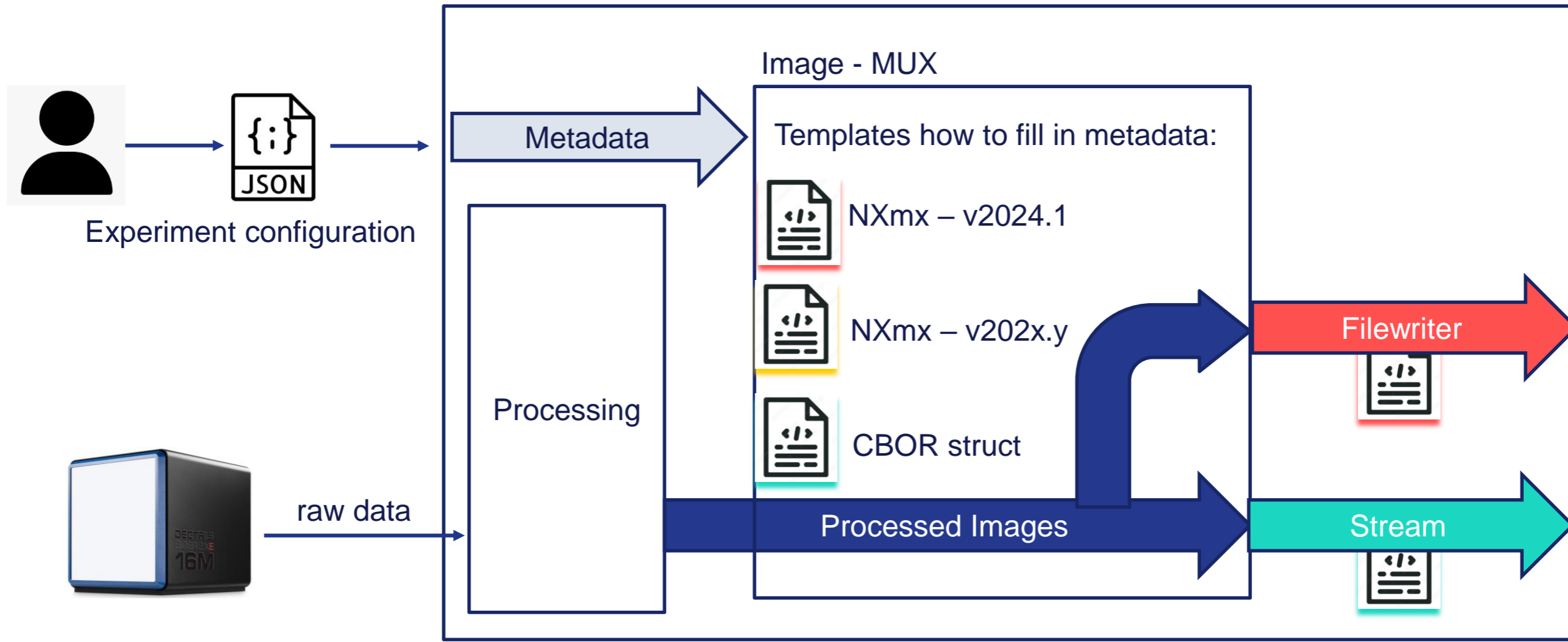
DECTRIS

Metadata @ DECTRIS

Diego Gämperle, Product Owner

2024-03-26

Metadata standards vs data interfaces



Metadata – current state and future support

- **NXmx v2024.02 currently in use**
 - «gold-standard» from our point of view
 - Incorporates changes required by new detector possibilities
 - Currently no open requirements / changes from our side
- **«WILDHAUS» (DAQ-SW)**
 - 1 -2 major releases each year
 - Main goal is to synchronize all product families at least once a year
 - Main vehicle to incorporate latest NXmx standards
 - N minor releases (new projects, features, ..)
 - Product specific features

```
/
|
+-- entry
|
+-- data
+-- instrument
| |
| +-- beam
| +-- detector
| |
| +-- threshold_1_channel
| +-- threshold_2_channel
| +-- difference_channel
| +-- geometry
| +-- module
| +-- transformations
|
+-- sample
| |
| +-- transformations
| +-- beam
|
+-- source
```

Ongoing developments

- **«NXem»**
 - Growing number of EM customers with a desire for standardized metadata
- **API modernization**
 - Metadata standards shouldn't «clutter» the API
 - NXmx is currently the only standard supported and heavily reflected in the API
- **DECTRIS Cloud**
 - Partnership with SciCat
 - LIMS models, metadata standards and schemas offering better support to the scientific community
 - Collaboration with Global Phasing and scientific community
 - Standardization / templates to cover different techniques and beamline specifics