OMERO-ARC Integration

OMERO to ARC

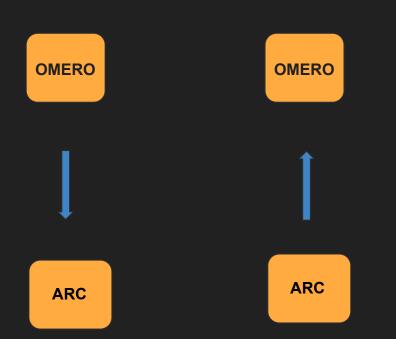
Proposal de.nbi - Various Tasks

1. Conceptual part: ?

2. Data curation: ?

3. Technical implementation: ?

OMERO-ARC Flow Chart



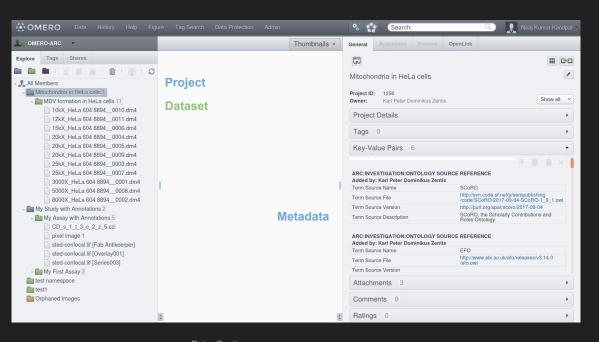
Two Directions:

- 1. OMERO to ARC
- 2. ARC to OMERO

OMERO to ARC



ARC like Structure in OMERO



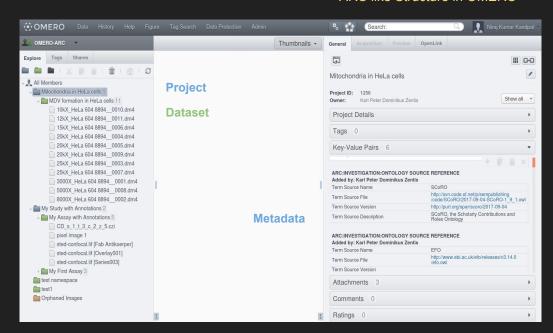
Peter Zentis

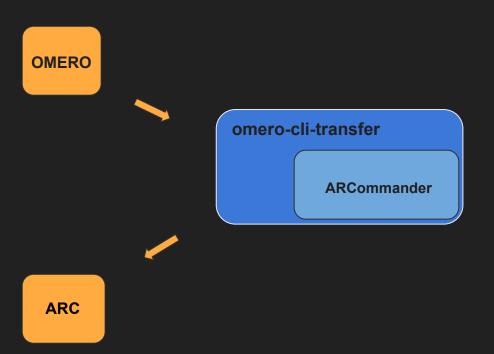
OMERO to ARC

Mapping

OMERO	ARC	ARC Metadata in OMERO
Project	Study	Isa.investigation.xlsx isa.study.xlsx
Dataset	Assay	isa.assay.xlsx

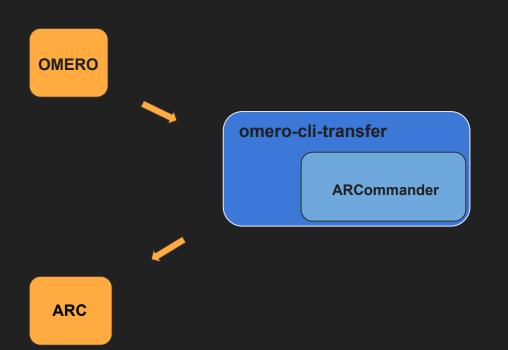
ARC like Structure in OMERO





Notes:

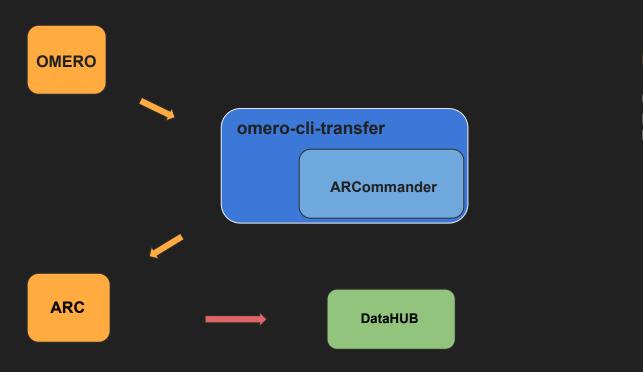
User does not use ARCommander.



Notes:

User does not use ARCommander Final ARC in our local machine.

Technical Part

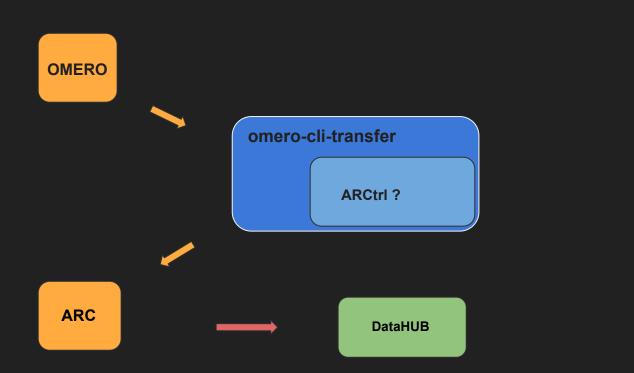


Notes:

User does not use ARCommander Final ARC in our local machine.

Push ARC to DataPlant DataHUB

Technical Part

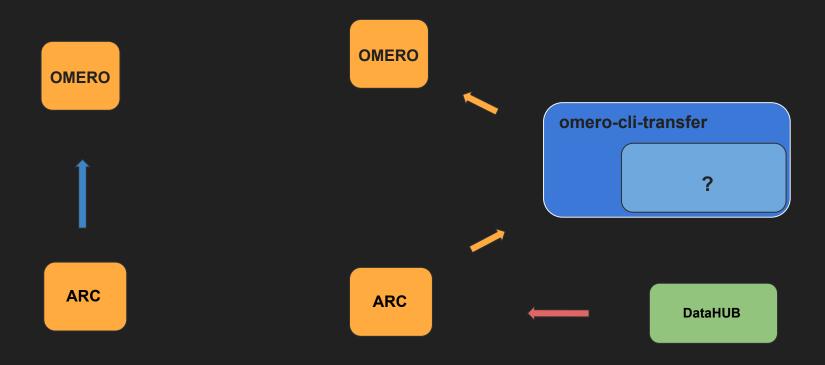


Notes:

User does not use ARCommander. Final ARC in our local machine. Push ARC to DataPlant DataHUB Replacing ARCommander by ARCtrl (python)

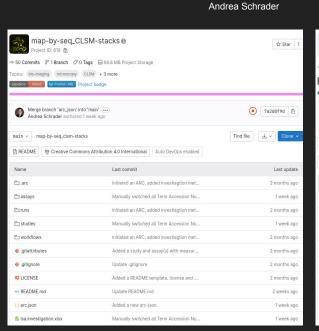
Technical Part

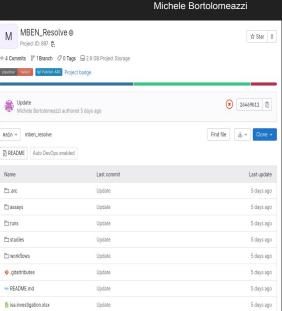
Future work: ARC to OMERO



Future work: ARC to OMERO







Sample ARCs: Imaging

Proposal de.nbi - Various Tasks

1. **Conceptual part :** Developing templates that can seamlessly integrate with various research areas and imaging modalities within OMERO and ARCs. This involves designing efficient methods for transferring metadata accompanying image data stored in both ARCs and OMERO.

[beneficial skills: OMERO, ARC]

2. **Data curation**: Existing ARCs containing microscopy data are transferred to OMERO and vice versa. Participants can work on their own datasets or use existing examples. This will validate the conceptual part and prepare the technical part.

[beneficial skills: OMERO or ARC, image data]

3. **Technical implementation**: Enable import/export of meta(data) from and to specialized and domain-specific data management solutions, such as OMERO.

[beneficial skills: Programming, e.g. Python, Java]