

# **ESRF** | The European Synchrotron

# AbstractLims ICAT and SSO integration

#### **AbstractLims on GitHub**

#### **Documentation - GitHub and ReadTheDocs**

The pull requests and the documentation can be found on GitHub:

PR # 1079: https://github.com/mxcube/mxcubecore/pull/1079
PR # 1492: https://github.com/mxcube/mxcubeweb/pull/1492

Documentation on read the docs:

https://mxcubecore--1079.org.readthedocs.build/en/1079/dev/lims\_integration.html#ispybabstractlims



## Acknowledgement



**Antonia Beteva** 



Yan Walesch
Since June 2024



**Daniele De Sanctis** 



Alejandro De Maria



**Axel Bocciarelli** 



Jean-Baptiste Florial

And of course the SB and BCU group, and you guys!

### **Current status**

- The work have been tested and validated on the ESRF MX beamlines the last 6-8 months. Most of that work is to make sure that systems (User portal, ICAT, ISPyB, MXCuBE) involved work as expected for synchronization of, users, sessions etc.
- SSO and ICAT tested on MASSIF1 during spring and deployed since August.
- ICAT integration with proposal login deployed on all other MX beamlines since beginning of October. Switch to SSO will be done in January 2025

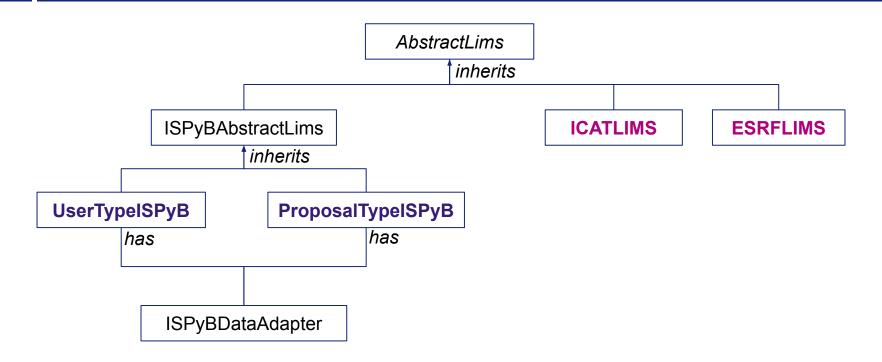
## **Background**

- ISPyB is no longer the standard LIMS, need for LIMS Abstraction as more sites use other systems
- At ESRF we needed a solution where we could synchronize to and from both ISPyB and ICAT
- At ESRF, retrieving session information for a user is done via ICAT thus a requirement for SSO

### **AbstractLims**

- Cleanup and merging of ISPyBClient and ISPyBRestClient have resulted in a new AbstractLims, very similar to the previous ISPyBClient (for now)
- Structures exchanged between AbstractLims and the internals of MXCuBE documented, to be modeled in a next iteration

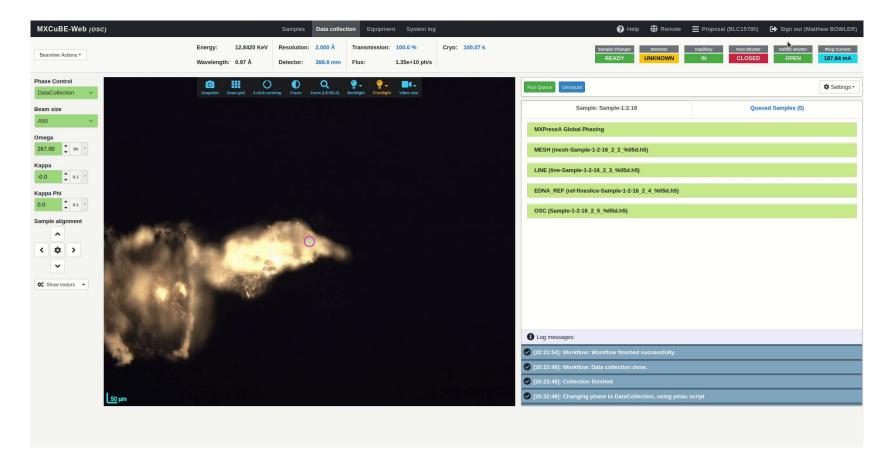
#### **AbstractLims**



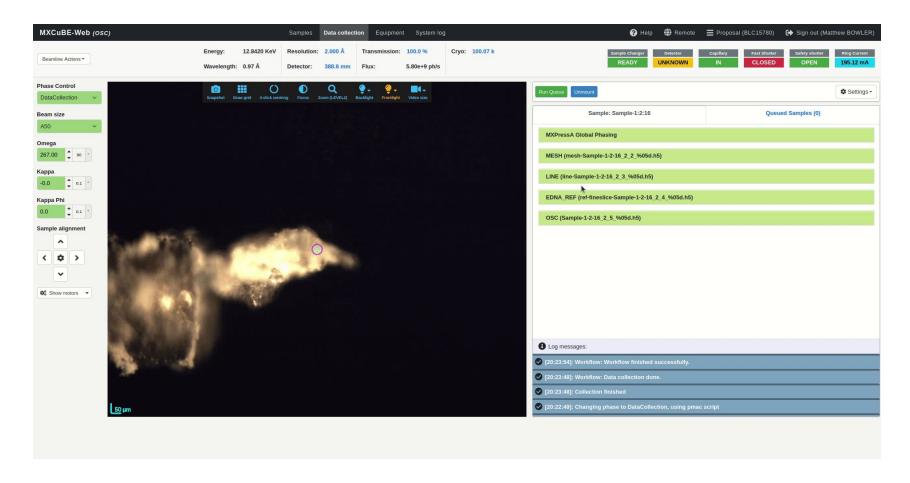
- ISPyBClient have been split into two classes ProposalTypeISPyB and UserTypeISPyB
- Introduction of adapter to abstract communication technology, such as SOAP and REST
- ICATLIMS for ICAT and ESRFLIMS for ICAT and ISPyB



## Selecting a session



## Synchronizing with LIMS - ISPyB or DRAC



### **Future work**

- Further refinement of AbstractLims and creating models for the data exchanged, internally, between AbstractLims and MXCuBE
- mxcubeweb UserManager:
  - Keep the existing UserManager as it is (proposal and user based login)
  - Create a new UserManager only for user based login
  - Remove proposal login completely?

# Thank you for your attention

