

Developers meeting January 2019/01/24

Present: Martin Savko (MS), Mikel Eguraun (ME), Ivars Karpics (IK), Gerard Bricogne (GB), Jakob Urbschat (JU), Roberto Borghes (RB), Gabriel Fedel (GF), Lais do Carmo (LC), James Piton (JP), Daniele De Sanctis (DDS), Antonia Beteva (AB), Marcus Oskarsson (MO).

Excused Rasmus Fogh (RF), Peter Keller (PK)

Absent: Jordi Andreu (JA)

1. Minutes of last meeting

The minutes of the previous meeting was approved

2. Approval of agenda

MO suggested to add “quick review of the open GitHub issues” to the agenda
AB had to leave the meeting early and the discussion of the AbstractDiffractometer, originally point 3, was therefore swapped with point 2 so that AB would have more time to explain her work on the AbstractDiffractometer

The proposed agenda was otherwise approved as it was.

1. Quick status reports from the participants.

ESRF

- Adapting MXCuBE3 to latest changes of HWR master branch
- Testing Python3 with EMBL exporter protocol

EMBL - HH

- Cleaned up references to BlissFramework and Qt4
- Now uses absolute import
- This version deployed on P14
- Web version installed for testing on P13 using same Hardware Repository

Elettra

- A lot of work overall but little on MX
- Characterisation integrated with distl
- Installation with ISPyB that gets information from User office for remote experiments on going

MAX IV

- Training of developer colleagues for MXCuBE3 development

- Jie finalizing characterisation on BioMAX
- Preparing next MXCuBE/ISPyB meeting

LNLS

- Running docker version of MX3 and ISPyB (setting up on-going)
- Iteration with beamline staff
- Updating MXCuBE3 server
- Improving the MXCuBE3 support for with EPICS

DESY

- Not a lot of time to work on MXCuBE3

SOLEIL

- Worked on Master and deployed on PX2, working well after only 16h of work
- Some catch up to do
- GP was on PX2 to have WFs running, went quite well

GP

- Good visit to PX2, identified troubles with MK mechanics
- Translation calibration WF working
- Collected multisweep datasets
- Model to predict shadows working OK
- WF near to completion
- Autoprocessing to combine multisweep not setup but overall everything very positive

2. AbstractDiffractometer

Antonia opened an WIP PR #276, the intention with this PR is to serve as a basis for discussion. The placement of certain functionality, like centering and beam position, within the hardware object hierarchy was discussed. It was said beam position procedure and other functionality not necessarily tightly coupled to a set of hardware would benefit from a separate beamline hardware object. It was further said that the centring routines should be separate from the diffractometer and implemented in a AbstractCentering hardware object.

3. Status of the refactoring

The refactoring continues with a high pace. The latest addition is Python 3 compatibility. The backward compatibility with Python 2.7 was discussed. It was decided that backward compatibility with Python 2.7 would be kept at least until 2020.

3.1 GitHub issue review

The currently open issues were reviewed. It was decided that Google Style Sphinx documentation will be used for code documentation, closing issue #337.

The rest of the issues were reviewed and discussed when needed.

4. Next steps in refactoring

The next steps in the refactoring had previously briefly been discussed under point 2 “AbstractDiffractometer” and point 3 “Status of the Refactoring”. There was a general consensus that we need to common AbstractDiffractometer and AbstractCollect in order for the refactoring to be considered to be really successful. It was decided that focus would be put on finishing the AbstractDiffractometer and AbstractCollect hardware objects before the MXCuBE meeting in Lund.

5. Plan and TODO list for making pre-meeting refactoring report.

It was decided that a draft Roadmap document should be created that describes the development plan for version 3.0 of HardwareRepository. The roadmap document should also describe the benefits of the work being done. MO volunteered to create a draft document for circulation among the developers.

7. Next meeting

Last week of February

6. AOB

APPENDIX - Meeting agenda

1. Quick status reports from the participants.
2. AbstractDiffractometer
3. Status of the refactoring
 - 3.1 GitHub issue review
4. Next steps in refactoring
5. Plan and TODO list for making pre-meeting refactoring report.
7. Next meeting
6. AOB