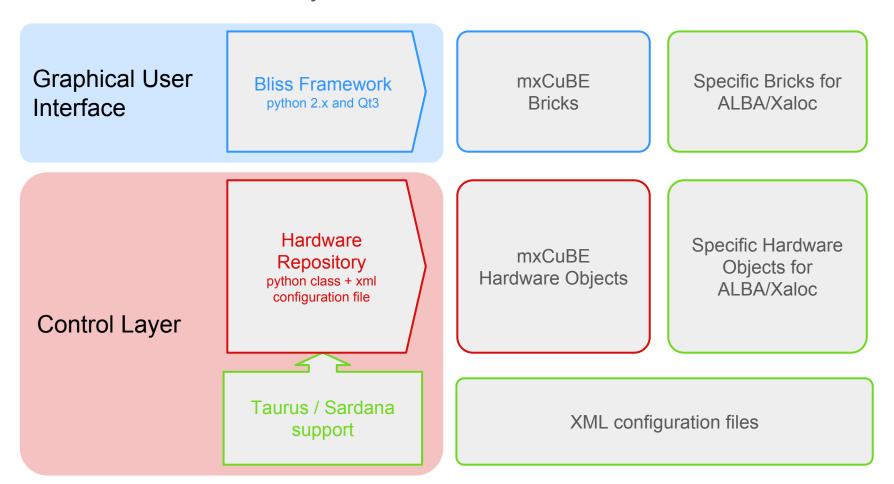
ALBA-mxCuBE status

mxCuBE and EDNA integration @ XALOC

Jordi Andreu, Control Engineer @ ALBA

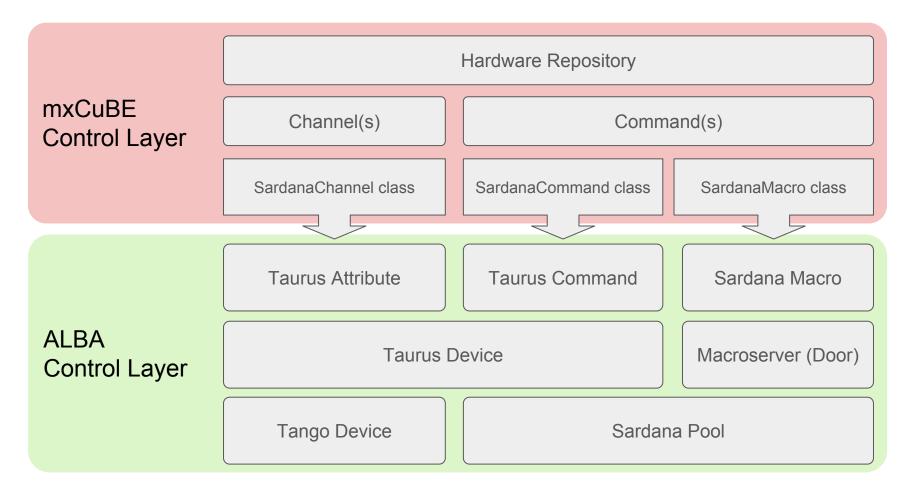
mxCuBE meeting from 30 November to 2nd December 2015

Over Sardana Control layer



Development over mxCuBE2 with Qt3 on virtual host bl13mxcube, ALBA branch.

Sardana Support for Hardware Repository (V. Rey)



^{*}Imlemented by V. Rey in CommandContainer.py and Sardana.py files from Hardware Repository (ALBA branch @ github)

Sardana Support for Hardware Repository

XML example

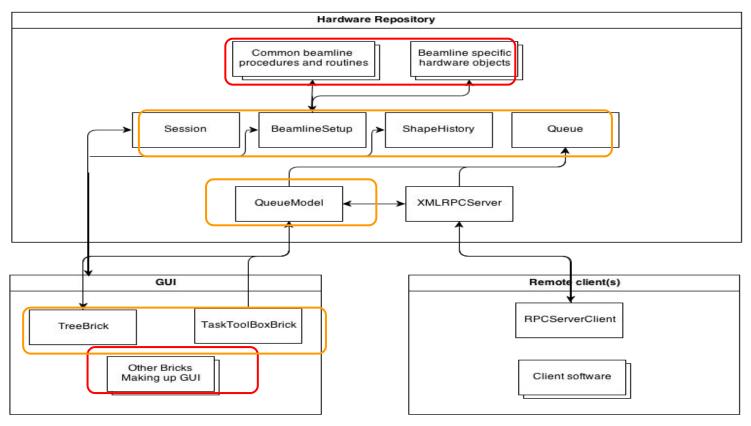
SardanaMotor HwObj

Position, State and Stop are assumed by default::

```
<device class="SardanaMotor">
    <username>Omega Z</username>
    <taurusname>omegaz</taurusname>
</device>
```

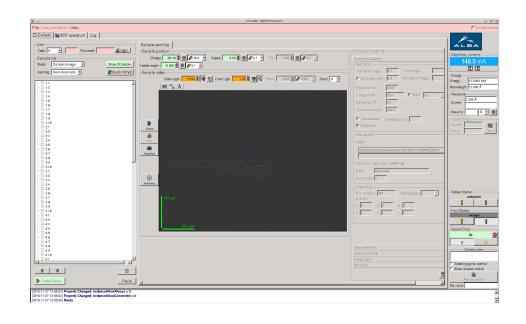
or they can specified in the configuration file:

Integration approach: what is done and next steps



- Transmission and resolution.
- Energy HwObj (updates on abstract energyscan?)
- Sample changer (to be finished).
- XfeSpectrum (to be finished).
- Implement XalocMulticollect (from Abstract multicollect).

Bricks & Hardware objects implemented so far

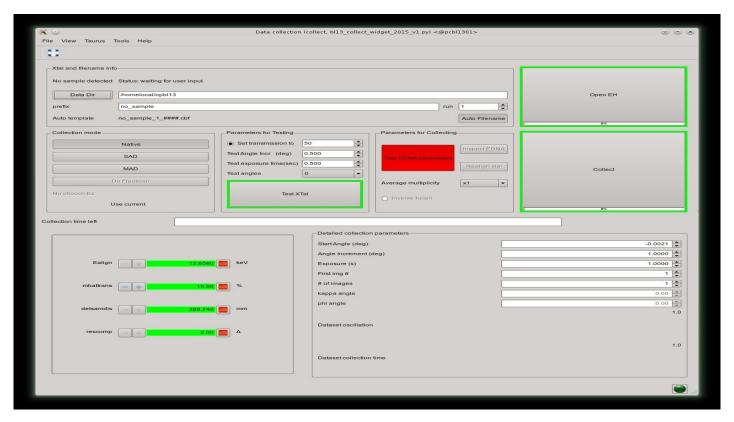


- No "Core" Hardware Objects modified
- Update ALBA branch to 2.1 and add new specific ALBA HardwareObjects.
- LightControlBrick has to be pull requested (bug).



Integration of EDNA @ ALBA

Strategy and processing pipeline



 Sardana macro results used to populate the jobs submitted to Tango DS. Results managed by a specific taurus GUI, which re-launches a complete collect macro.

Integration of EDNA @ ALBA

Strategy and processing pipeline. Improve performance.

Currently in production:

- Using EDPluginControlInterfaceToMXCuBEv1_3 for strategy calculation.
- Now, running on workstation (8 cores) Intel(R) Xeon(R) CPU E31275 @ 3.40GHz.

Working on:

- EDPluginControlAutoprocv1_0 for data processing.
- Adapt the workflow to use an in-house cluster.

Thank you