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Update Status ISPyB/SynchWeb at beamline XRD2

presented by Annie Héroux

Roberto Borghes, Milan Prica, Fulvio Billè

XRD2

•Nicola Demitri, Dan Dumitrescu, Babu Manjasetty, Annie Héroux

XRD1

•Maurizio Polentarutti, Giorgio Bais



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Why SynchWeb?

Installation Sept 2018:

Neil, James and Karl, Milan and Roberto

Apache server

ISPyB DLS version with SynchWeb

Login SynchWeb March 2019:

Rest authentication through ELETTRA VUO

Sandboxes, explore the tables and SynchWeb

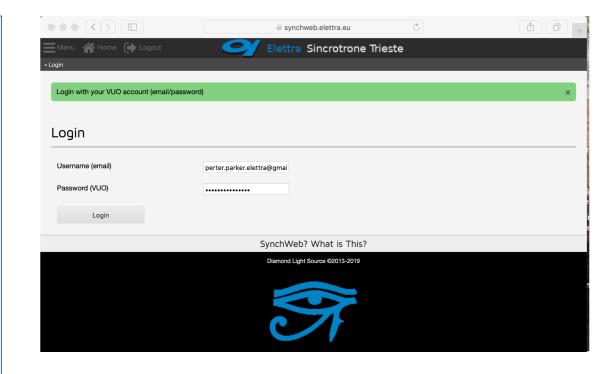
VUO-ISPyB

Modify synch scripts, adapt to our needs

Integrate MXCuBE July 2019

login, sessions scan sc

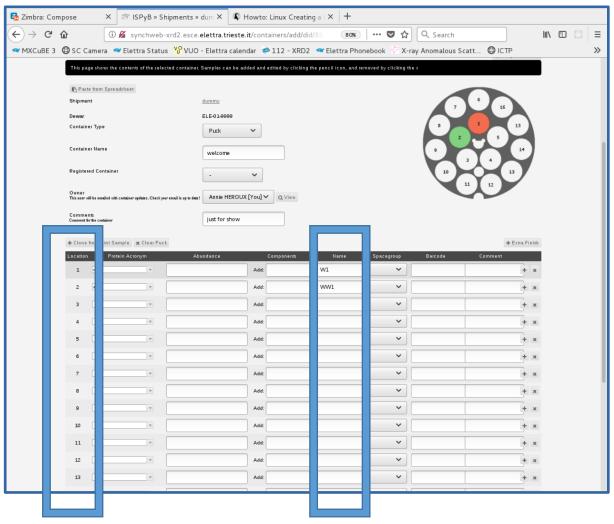
Expose Synchweb Elettra to the world Add...





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MISSION 1

CONTAINERS MANAGEMENT

We were using CSV files. Despite having instructions and a template on the website, we had to modify it *every* time.

Addressing issues such as

1- having to re-fill them at every start of MXCuBE

Funky characters in name (space, %...)

Bad habits (meta data in name date, time, hopes...)

Same name

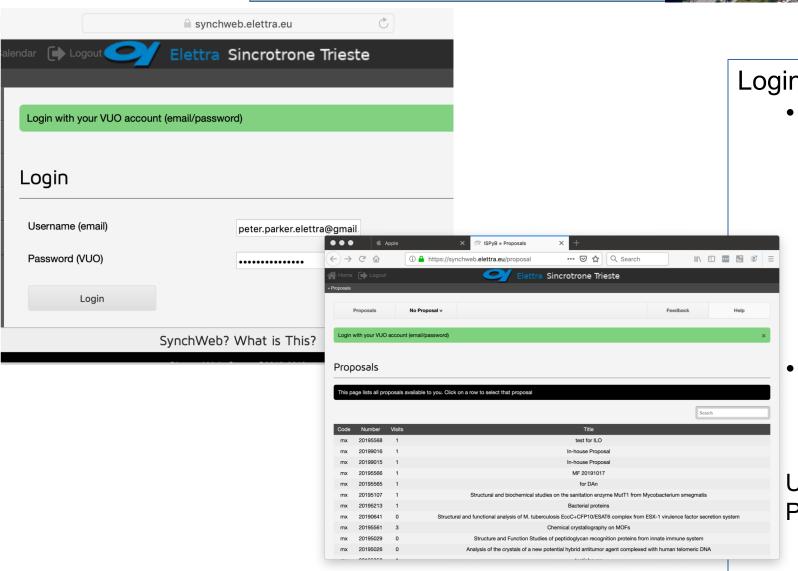
Trays—freeze onsite

2- Users from India might or might not be synchronized with their dewars (Customs issues or Visa issues). The person having to deal with the data collections could be staff or a different user from India.









Login SynchWeb:

- Rest authentication through Elettra
 VUO
 - Details like changing logo, patterns for the fields (email address for login, hard coded DLS)
- Modifying the admin group for a full view of everything

Unclear what my superpowers are Peter.parker was needed

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ISPyB → populate tables

Ispyb-propagation-master scripts to help us populate some tables from data in VUO

Brute force cron job, to query VUO, also python script for staff to trigger on-demand Just one young beamline, not too much

- Proposal -investigation-
- Person

Role since we can't have more than one role- remove staff, beamline contact

Blsession

Scheduling is not as flexible as we need.

One way street with VUO, I can modify start/end of session

Create in-house proposal

Session_has_person (mxcube login, download of data)

At least everyone on the proposal,

Request access when users arrive, but what about remote?



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Shipments » Containers

Help

Tutorials

Feedback

Proposals

mx20199002 ≽

View All Data

Visits

Calendar

Assign Containers

Shipments

Registered Dewars

Registered Containers

Containers

Samples

MISSION 1 CONTAINERS MANAGEMENT

Flow difficult to figure out from the layout

shipment → lab contact → dewar → container

Select table_name, update_time from information_schema.tables order by update_time;

SHIPMENT Indian community are sending dewars here but most users bring their

dewar and/or TRAYS

Even when they ship it here, Elettra deals with this via VUO

solution create a dummy one

LAB CONTACT solution create a dummy labid, add PI off proposal, proposal_has_person

DEWAR solution create a dummy, again we have trays popping up

CONTAINER solution create a dummy protein MP

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X SPyB » Shipments » dum X N Howto: Linux Creating a X +

MISSION 1

CONTAINERS

Addressing issues such as

having to fill them at every start of MXCuBE

funky characters in name (orange)

when we first create the container, space are allowed in the name, the color changes to orange but at the end the container is saved, and MXCuBE doesn't care until you collect! Still progress.

If you edit, the behavior is different, the field are blank

bad habits (meta data in name date, time, hopes)

same name (sampleid) OVERWRITING FRAMES



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» Shipments » Containers Help **Tutorials** Feedback **Proposals** mx20199002 ⊗ **View All Data Visits** Calendar **Assign Containers Shipments**

Registered Dewars

Containers

Samples

Registered Containers

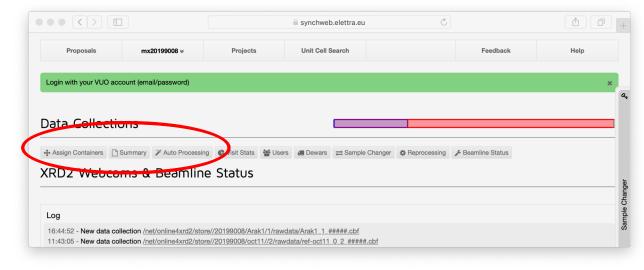
MISSION 1 ASSIGN CONTAINERS & use in MXCuBE

Assign / Unassign same container in both state problem with the name of beamline "X-RAY DIFFRACTION 2" XRD2

In MXCuBE when we scan containers, problem with unassigned assigned to position 0 in sc dewar

ASSIGN CONTAINERS two ways to reach this place and two behaviors

So far no cross check in sc dewar so no problem

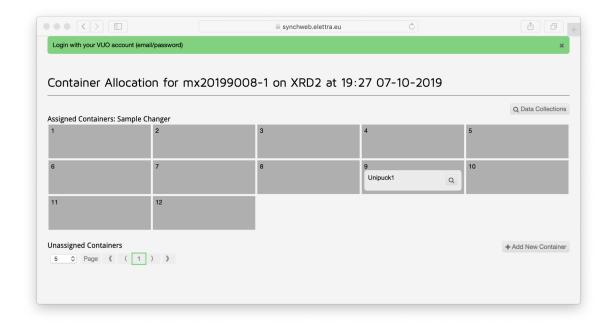




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MISSION 1 UNASSIGN CONTAINERS & use in MXCuBE



How to remove from the view all the old containers? create a dumpster (poubelle) dewar and move the containers there

Still having some issues with assigning to the right visit. I need to create a dummy shipment for each visit.



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ASSIGN CONTAINERS and manual mount

MXCube Create Sample

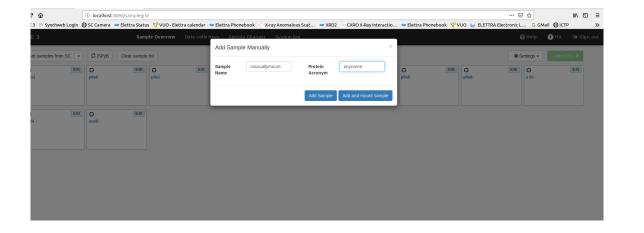
We use this frequently while troubleshooting something, just a loop on and bypass mounting with sc.

We also have, small molecules collected and local staff coming with very few crystals .

Protein is not something that we harvest from the proposal, in fact it's not a field per say in our form

Make my life easy and use MP (My Protein)
Then start generating

a crystalid a blsampleid





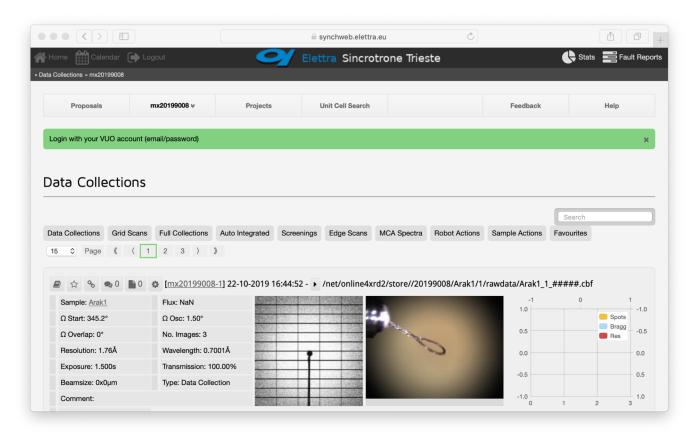
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Crucial piece in place for remote, for "remote on-site" when collecting by someone from the group, a collaborator, mailin or really by someone off-site

Presently WE USE IT

- Still have a mess for names because users are allowed to change it. Mostly there because we will overwrite data when we restart MXCuBE server
- Still early, and modification on how we handle visits, shipments impact what our, checks if files exists (thumbnail of diffraction was harder than it should be)





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Future plans

- Having a better way to deal with shipment and the visit they are associated with.
- Filing out some of the parameters missing (flux etc..)
- Capturing the stopped / aborted data collections.
- . Be able to add comments
- Adding some of the data processing

Wishlist

- Being able to modify a proposal from cool calendar
- Better handle on the shipment, VUO as a really unfriendly way.

| September | Sept



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Thanks

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And Roberto Borghes



