ICAT Project at ALBA

CELLS Computing Division
MIS Section
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Overview

- What is ALBA?

- The Team

- ALBA User Office

- State of the Art

- Issues & Questions

What is ALBA?

- 3rd Generation Synchrotron Light Facility.

- Placed in Cerdanyola del Vallès (20 km away from Barcelona)

- Consorcio para la Construcción, Equipamiento, y Explotación del Laboratorio de Luz del Sinctrotrón (also known as CELLS) is responsible for the operation of the Synchrotron.

- 7 Beamlines currently running.

- 5 Divisions:
  - Accelerators/Experiments/Engineering/Administration/Computing.

- ~140 permanent positions.

- First users in 2012.
  - 2 calls for proposal have been opened so far.

The Team

▸ Computing Division
  – ~40 permanent positions.
  – 4 sections:
    • Systems.
    • Electronics.
    • Controls.
    • MIS (Management Information Systems).

▸ The MIS Section provides services such as: SAP, HR Management tools, Project Management tools....
  – User Office
  – ICAT (work in progress)

▸ ICAT Team:

David López   Pablo García

ALBA User Office

▸ Web tool ALBA uses to receive proposals for experiments.

▸ All pre-project information needed in order to perform experiments needs to be submitted and approved using the User Office tool.

▸ http://useroffice.cells.es

▸ ICAT investigation ~= AUO proposal

▸ Synchronization AUO–ICAT using WS

State of the Art

- ▸ 3 Stages:

  - – 1. ICAT/User Office connection
    - • Synchronizing Beamlines (Instruments) ☑
    - • Synchronizing Beamline Scientists (Instrument Scientists) ☑
    - • Synchronizing Research Areas (Investigation types) ☑
    - • Synchronizing Periods (Facility cycle) ☑
    - • Synchronizing Proposals (Investigations) ☑
    - 2. Experiment Data
    - • Data synchronization.
    - • Configure TopCat to download Experiment data.
    - • IDS.
  - – 3. Aministration UI and User Management.
    - • LDAP Authentication.
    - • User Management.
    - • Groups Management.
    - • Scheduled tasks control page.

Issues & Questions

▸ User access control to get data through Glassfish?
  – Credentials?

▸ Interface Data Server: How to implement?

▸ Issue:
  – TopCat is not showing the Instruments even if the data is in the DB.

ALBA

Thank you!

ALBA