



# ICAT Project at ALBA

CELLS Computing Division  
MIS Section  
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Daniel Salvat

# 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  $\sim$  AUO proposal
- ▶ Synchronization AUO-ICAT using WS

The screenshot displays the ALBA User Office Application interface. At the top, there is a navigation bar with the ALBA logo and several menu items: 'call information', 'before submitting a proposal', 'evaluation procedure', 'safety requirements', 'user login', 'level & accommodation', 'after your experiment', 'special accreditation offer for alba user', and 'welcome alba user'. Below the navigation bar, a sidebar on the left contains a list of menu items including 'Home', 'My Password', 'My Proposals', 'Draft & Submitted', 'Evaluation', 'Evaluation procedure', 'Users', 'Technical Review', 'Scientific Review', 'Study Review', 'Final Drafting', 'Experiments', 'Shift Scheduling', 'Personal Schedule', 'My Visits', 'User Declaration', 'User Feedback', 'User Order', 'User Tracking', 'Accommodation', 'Users', 'Research Area', 'Dealers', 'Country', 'Machine Operator Mode', 'Shift Page', 'Jobs Information', 'Site Review Committee', 'Users', 'Out Station', 'CELLS Laboratory', 'Machine Unit', 'Session control', and 'Help'. The main content area shows a welcome message: 'Welcome to the ALBA User Office Application'. Below this, it displays the user account: 'User Account: Mr Daniel Salvat (Inactive)'. There are two sections for 'Personal Management': 'Change personal information' (with a sub-note: 'Click here to modify your personal information like institute, phone number, email address') and 'Change password' (with a sub-note: 'Click here to change your password'). A 'Logout' link is also present with the text 'Click here to logout from the ALBA User Office.' At the bottom of the page, there is a footer with the text: 'Copyright © 2012 CELLS - useroffice@cells.es', 'Supported browsers: Firefox 5+, Internet Explorer 7, 8, Safari 4+, Opera 11', and 'Designed by CELLS-ICAT'.

# 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. Administration 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.

**Thank you!**