WP4 overview

• Objectives:
  • Deploy, operate and evaluate a generic catalogue of scientific data across the participating facilities
  • The metadata catalogue service will build on the policy and data standards developed in the PaNdata Support Action
  • The creation of a cross-facility data catalogue
  • Demonstrate the service in particular for the user communities through Virtual Laboratories
Data catalogues

- This WP will not develop a new metadata catalogue but instead use one of the existing implementations.
- Inside the PaNdata community the **ICAT** is already being deployed at 4 (at proposal time) of the partner facilities making it the obvious choice

- **ICAT 3.* → ICAT 4.0** (now) → **ICAT 4.1** (June?)
  (4.1: the first release with input from PaNdata.)
During 2012, PaNdata WP4 will:

- Test release materials for ICAT and provide feedback;
- Provide a set of requirements for ICAT and maintain the list indicating their priority;
- Provide strategic advice to the ICAT collaboration on the requirements of the PaNdata deployments;
- **Provide a named contact at each of the PaNdata partners for ICAT matters;** the person should attend the ICAT collaboration meetings, at least once per quarter;
- Provide technical contributions from each the larger partners.
- Lead WP7 of ICAT, Specific facility integration.
During 2012, ICAT collaboration will:

- Provide materials in a reasonable state for testing;
- React in a reasonable time to requests for assistance;
- Try to meet the requirements of PaNdata in a timely manner;
- Attend meetings of WP4 when invited.
Current activities

• Installation / testing of ICAT 4.0.
  • Diamond has been successfully using ICAT for almost 2 years now (over 100 M files which is approx 297 Tb)
  • Contacts: Andy and Dominique for ESRF (ESRF will recruit two engineers for the ICAT by April); Tom for ISIS, Idrissou for Soleil, Jean-François for ILL, Joachim and Daniel for ALBA, George and Milan for Elettra,...

• Analysis of the alternative data catalogues (Survey)
  • Feature comparison
  • Possible interaction
Alternative data catalogues

- SOLEIL is currently using **TWIST**
  https://twist.synchrotron-soleil.fr/

- In Australia **TARDIS** is used:
  http://tardis.edu.au/
  http://code.google.com/p/mytardis/

- **IRODS**: Used by LCLS at SLAC (USA)
  https://www.irods.org

- EGEE developed **Glite-AMGA** as a general purpose metadata catalogue
  http://amga.web.cern.ch/amga/

- PaNdata DoW mentions MCA, MCAT, Artemis and Fireman
Goal: 50% uptake...

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Next steps

- Establish the WP4 mailing list & define ICAT contact from remaining facilities
- Gather input from WP3 (User Catalogue & AA) and WP5 (Virtual Labs)
- ICAT front-end
  - Topcat and alternatives
  - Integration with existing portals, etc.