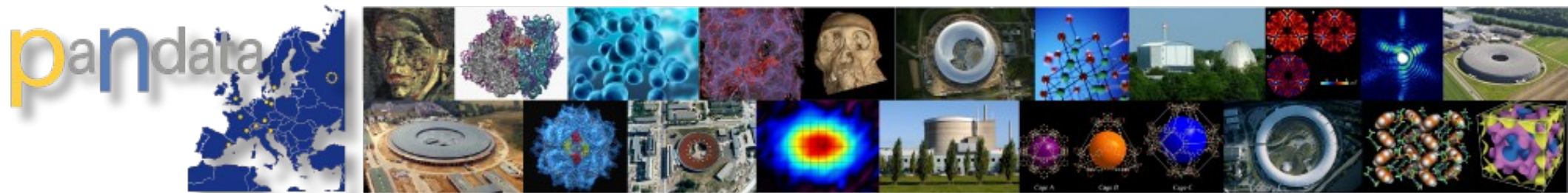


PaNdata-ODI WP4

Data Catalogue Service



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ICAT Workshop - Grenoble - 20 March 2012



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.)

Collaboration agreement (draft) 1

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.

Collaboration agreement (draft) 2

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...

	 Umbrella	 ICAT
STFC / ISIS	?	
ESRF		
ILL		
DIAMOND		
PSI		?
DESY		
ELETTRA		
SOLEIL	?	
CELLS / ALBA		
HZB		?
CEA / LLB	?	?
MAX-LAB	?	?
JCMS	?	?



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.