

A photograph of a modern building with a curved glass facade and a metal grid roof structure. The building is situated on a green lawn under a clear blue sky. The text "ExPaNDs WP3 Status @ SOLEIL" and "December 2021" is overlaid on the bottom right of the image.

ExPaNDs WP3 Status @ SOLEIL
December 2021

Data Infrastructure

Facility Proposal Info :

- ✓ [SUN set](#) : SOLEIL Use Office System (UOS)
Some figures from 2020 → **3417** visits and **761** publications on **29** Beamlines,
- ✓ Upgrade of the UOS is ongoing
- ✓ Multiple Authentication :
 - ✓ basic authentication, linked to [Umbrella](#) and foreseen to link it to Keycloak



Welcome to the **SOLEIL User Net set**.

This is your space to submit a proposal, to ask for access, ..., and manage your personal record as stored in the SUN set.

Please do not hesitate to [contact SOLEIL user office](#) in case you need help.

New SUN set User

Enter here if you were never registered at SOLEIL as a User to create a SUN set account. Registration has to be done only once.

Registered SUN set User

Enter here to log in to the SUN set. You will be prompted for your SUN set user name and password.

Lost Password

Enter here if you do not remember your SUN set username and/or password. You will be prompted for your email address and the SUN set will email to you login information. Please [contact SOLEIL user office](#) in case of remaining problems.

Umbrella User

Enter here to create an Umbrella account or to log in through Umbrella. A federated identity system for the users of the (European) large neutron and photon facilities.



Data Infrastructure

Standard Data

PID Issuer

Data Policy (since 2018)

Ressources

✓ Achieved

Choosing a Metadata Catalogue

Clear and agreed requirements

Solution researched

Solutions tested

Decision

✓ Achieved



SciCat Metadata Catalogue

But a much more still needs to be done

Minimum Product

- File Ingest
- Authenticated data access
- Domain agnostic metadata
- PaN API

Planned to integrate

EOSC Integration

- Federated access to data
- OAI-PMH implemented
- Harvesting by EOSC services
- EOSC Services access
- EOSC statistics

Planned to integrate

PaN specific Implementation

- Domain metadata ingest
- Raw and derived data catalogued
- Data provenance
- Calibration data
- Link to external PIDs
- Link to publications
- eLogBook data (work in progress)

Planned to integrate

Facility Integration Status



10% < SOLEIL < 25%

First Priority:

❖ Hire a developer:

- To replace Nawel Berqouch (Software Engineer)
- Please follow next link [to join us @ SOLEIL](#)
For open position

❖ Facilitate the on boarding:

- To be operational as fast as possible
- Keep in touch & participate to the SciCat developers meeting

1st KPI related:

❖ At short term:

- ✓ Develop an ingestor to collect metadata from proposals, samples ... that can be ingested into SciCat
- ✓ Test it on a pilot Beamline
- ✓ Make use of HDF5 file to extract metadata to push into Data Catalog

❖ At medium term:

- ✓ Start discussion with « Integration Control & Acquisition group » to set up a real-time distributed publish-subscribe messaging system like ESS (Kafka based)

2nd Priority:

❖ Authenticated Data Access

- Foreseen to set up Keycloak as IAM to data access
- Part of general implementation of SSO on web applications @ SOLEIL
- Set up an authentication on SciCat ==> connect it to SOLEIL's LDAP

❖ Goal

- Set up a running, reliable and stable minimum product

3rd Priority:

❖ Follow the KPI roadmap:

➤ EOSC integration:

- ❖ Access to data through the EOSC OAI-PMH
Implemented Harvesting services

- ❖ Access EOSC statistics Federated Access to data

➤ PaN specific Implementation

1st Roadblock:

❖ Hire a developer:

- Facing a tight labor market
- Hard to find available developer with the required skills

Ideas:

- Increase the coverage zone to disseminate the job offer:
 - ExPaNDs Partners could :
 - Relay the announcement in their facility
 - Publish the job offer in their web site

Question ?

