

EOOSC-A Task Force:

“PID Policy and Implementation”

**Taking EOOSC
into the future**

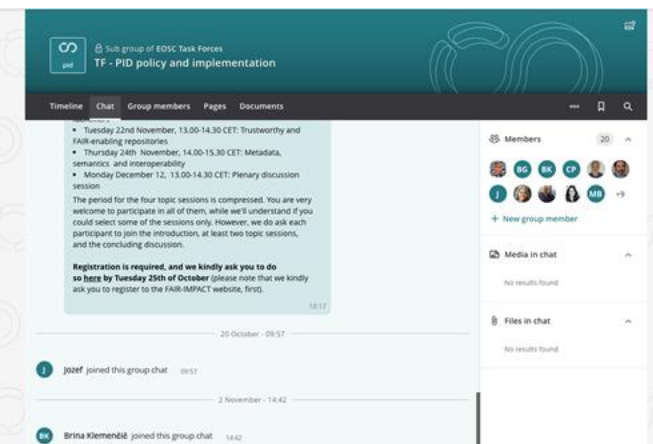
Themis Zamani - GRNET

Tibor Kalman - GWDG

Let's Introduce the TF

!!! Promotion !!!

EOSC PID Policy document
EOSC PID Architecture document
TF Charter (updated 2023)
SRIA



■ A balanced group of PID users , PID experts (including technology and domain experts), and PID Providers.

Task Force Goals

Goals & Core Activities

1. Provide input based on identified gaps in the PID ecosystem (i.e SRIA, MAR);
2. Monitor and provide community feedback
3. Make recommendations to the EC via the EOSC Association for the integration of PID services in the EOSC ecosystem, its implementation and test.

The “core activities”

- Liaison, monitoring and collaboration with the relative initiatives
- Identify, describe emerging and standardised identifiers for resource types
- Global PID resolution
- Review efforts to develop definitions for the most common data formats or building blocks.
- EOSC PID Graph
- Criteria against which PID will be certified eventually to be implemented by tools supporting the certification of PID infrastructure against the EOSC PID Policy.
- Best practices and PID use cases that exemplify FAIR data management

External Collaborations

PID-related projects, communities and providers technology- and domain experts



Other Task Forces

Interact mainly with data, metadata, data lifecycle and data quality naturally have many touchpoints.

- TF FAIR metrics and Data Quality
- TF Semantic Interoperability.
- TF Technical Interoperability of Data and Services.
- TF Long-term Data Preservation.
- TF Rules of Participation (RoP).

PID TF: Work done until today

Group A: Mapping current PID-related activities

- A subset of PID types that could be the primary focus for EOSC
- A list of PID-related projects and providers

Group B: Collecting community-specific use cases and perspectives on the EOSC PID architecture and the EOSC PID policy

- Survey to collect priorities for addressing gaps, as well as use cases
- Validated the results

Mapping current PID-related activities in the EOSC context

Report Focus Group "A" (draft)
Prepared on 2022-04-28 by Themis Zamani, Beate Guba, Paolo Lai, Tommi Suominen, Pablo De Castro, Tibor Kalman, Mario Valle incorporating the contributions of other Task Force members.

Goal of the Focus Group "A"

The focus group's main goal is to make an inventory of current PID-related activities in the EOSC context and specifically to list existing PID types and PID-related projects that could be of interest to EOSC or are already part of it.

This report collects the output of the focus group work and is shared with the whole TF-PID with the goal to assess the usefulness of the approach and to increase the set of data collected and their correctness.

This report is not the final deliverable of the TF-PID, but it is an input for the work of the task force itself in producing recommendations to EOSC.

Action items and timeline

First of all, we want to reiterate that this report is not the final deliverable of the TF-PID. We are in a comment phase accepting contributions from our and other TFs.

That said, you can contribute to this report by:

1. **Reviewing the overall structure of the report.** There are missing pieces? Is there anything you think is needed for the intended future use of the report (as detailed in the next section and in the conclusions)?
2. **Reviewing the lists of PID types.** Is there any type of PID missing? Is there any type that you judge not interesting for a research environment like EOSC? The grayed-out types are the ones defunct or not appropriate for this inventory. Do you think another column about PID Graph classification (see below) could help? Are all the entries PID types or are some of them PID providers that add services to the PID?

3. **Reviewing the service missing interesting for projects**
4. **Adding previous**

At the TF plenary meeting enough to be sent for the report will be reviewed.

Report overview in the report we collected:

1. A subset of PID types
2. A list of PID providers

We devise these lists in the context of EOSC.

This report is a living document that advances the EOSC

Short name	Long name	Official page	Maturity	Include	Globally resolvable
ADSIcode	Astrophysics Data System - Bibliographic Reference	https://ui.adsabs.harvard.edu/	High		Needs review
ARK	Archival Resource Key	https://arks.org/ - see also NZT resolver	High		Yes
arkiv	arkiv Identifier scheme	https://arkiv.org/	High		Yes
ASIN	Amazon Standard Identification Number	https://www.amazon.de/help/customer/display.html?contentId=200114373?pf_rd_p=3a8c1e9f8c2c48118000000000000000	High	no	?
ConfID	Conference Identifier	https://confid.com.cn/wordpress/wp-content/uploads/2017/06/14/288842/Conference_PIDs_and	High		Yes
Crossref DOI	Articles registry	https://www.crossref.org/	?		Yes
Crossref_funders	Crossref Funder Registry	https://www.crossref.org/services/content/registration/agents/	?		Yes
Crossref_grants	Registering research grants	https://www.crossref.org/community/grants/	?		Yes
DataONE DOI	DOI provider	https://dataone.org/	High		Yes
DOI	Digital Object Identifier	https://www.doi.org/	High	Yes	
EAN-13	The 13 Digit International Article Number	https://www.ean13.org/standards/barcodes/ean-13/	High		?
eISBN	Electronic International Standard Book Number	https://www.isbn-international.org/	High		Yes
eISSN	Electronic International Standard Serial Number	https://portal.isn.org/	High		https://portal.isn.org
GRID	Global Research Identifier Database	https://www.grid.ac/	Crossref		?
Handle	Handle	http://www.handle.net/	High	Yes	Yes
ISCC	International Standard Content Code	https://iscc.codes/	Medium		
IGSN	International Geo Sample Number	https://www.igsn.org/	High		Yes
ISAN	International Standard Audiovisual Number	https://www.isan.org/	High		Yes?
ISBN	International Standard Book Number	https://www.isbn-international.org/	High		Yes
ISL	Identifies the links between different entities	https://www.isbn-international.org/content/isli-introduction	?		Yes
ISMN	International Standard Music Number	https://www.ismn-international.org/	High		No
ISNI	International Standard Name Identifier	https://isni.org/2008/search-database/	High		Yes
ISSN	International Standard Serial Number	https://portal.isn.org/	High		https://portal.isn.org
ISTC	International Standard Text Code	http://www.istc-international.org/	Defunct		no
LSID	Life Sciences Identifier	http://www.lsid.info/	?		Yes
NBN	National Bibliography Number	https://nbn-resolving.org/urn:nbn:de:hbz:5:1-345678	?		Yes

PID TF: Focus Group C

Harmonization of PID-related Vocabularies

The lack of clearly defined vocabularies covering the PID related ecosystem is the main reason for starting this group. The main areas that the focus group will investigate are:

- Identify work already done
- Analyze the vocabularies needed
- Try to identify the owner of these vocabularies in EOSC (manage/curate).
- Identify who will be the hosting body and the governance body of these vocabularies in EOSC so that they can be used by all related projects and services.

Technology Independence	A-FDO	FDO Requirement Specifications		FDOs and their key components need to support technology independence, allowing implementations using different technologies.
Versioning	A-FDO	FDO Granularity		There are different policies between communities on how to indicate versioning – some use the PID string, some use the PID record and some use extended metadata for these purposes. The choice widely depends on efficiency criteria and no general recommendation can be made except that data providers need to make clear statements on how versioning is handled.
Attribute	X-EOSC	EOSC PID Architecture	Kernel Attribute, Kernel Information Type	A value that describes a feature of an object or its representation, as part of PID Kernel information or other metadata.
Digital Entity	X-EOSC	EOSC PID Architecture		A digital Entity denotes any sort of bit sequence that is being stored or transmitted without being registered to enable sharing.
Digital Object	X-EOSC	EOSC PID Architecture		A Digital Object has a bit sequence that can be stored in multiple repositories and is associated with a Persistent Identifier (PID) and metadata.
Digital Object Identifier	X-EOSC	EOSC PID Architecture		A digital object identifier (DOI) is a persistent identifier based on Handle used to identify objects uniquely, standardized by the International Organization for Standardization (ISO).
Granularity	X-EOSC	EOSC PID Architecture		The varying levels of hierarchy or constituent parts that may form data or other research outputs. For example, the differing levels of granularity of a research publication, going from a whole Journal issue, the level of detail in a large scientific database: to its constituent articles, to the article constituent sections or figures, the levels in a complex scientific collection or the level of detail in a large scientific database. A Handle is a globally resolvable, unique and persistent PID which is defined by RFCs 3650, 3651 and 3652 of the

Expected output(s)

- The need/requirements of the projects (landscape analysis)
- (Linked) vocabularies
- Update the PID Policy with the vocabularies so as to be consistent with the work done

PID TF: Focus Group D

PID Policy in Examples

One of the main questions of the users reading the PID Policy is if there are any examples for the different sections of the document. The Policy is describing the steps the different types of users should follow but what we are looking for is practical implementation and policy examples. This new focus group is about policy and implementation examples regarding PIDs; This FG will collect and describe the activities going on.



Expected output(s)

- Examples would be collected and described, to make something pragmatic, high-level on top of the complex PID Policy. Provide examples on how to better understand the PID Policy
- Collect examples from different areas and domains