EOSC Portal Release 2
Specifications, Interoperability and Quality Framework

EOSC Enhance Webinar - 25 November 2021
Jorge-A. Sanchez-P. (JNP)
Overview

- EOSC Portal Profiles v4.00
- EOSC Portal Onboarding Process v4.00
- EOSC Portal Profiles Review and Feedback Process v4.00
- EOSC Portal Requirements Registry and Roadmapping v4.00
- EOSC Portal Change Management Process v4.00
- EOSC Portal Monitoring Tool and Statistics Report v4.00
- EOSC Portal Glossary and Definitions
- Access to specifications and transition to EOSC Future
EOSC Portal Profiles
v4.00
+ extensions for Data Sources and Research Products
Prior efforts and v3.00

EPV: EOSC Provider Profile v3.00

Release

v3.00

Document status

Draft

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## Requirements that led to EOSC Portal Profiles v4.00

<table>
<thead>
<tr>
<th>Jira ID</th>
<th>EOSC Portal Profiles’ Request of Change (RfC)</th>
<th>Subject</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSCENR-165</td>
<td>Move Hosting Legal Entity from 'other' to 'basic info' in the provider profile.</td>
<td>Attribute</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-197</td>
<td>Add a new field for a very short resource name</td>
<td>Attribute</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-205</td>
<td>Adding description of Multimedia in the Marketing section of Resource Profile</td>
<td>Attribute</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-173</td>
<td>Values of ERP.DEI.3 (Related Platforms) controlled by EPOT</td>
<td>Attribute</td>
<td>In July 2022</td>
</tr>
<tr>
<td>EOSCENR-159</td>
<td>Profiles: Optional fields in Resource Profile: terms of use, privacy policy</td>
<td>Attribute</td>
<td>In July 2022</td>
</tr>
<tr>
<td>EOSCENR-175</td>
<td>Resource Profiles: add control values to FUNDERS and FUNDING PROGRAM</td>
<td>Controlled Values</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-223</td>
<td>Request to add values to the Funding bodies and programs-controlled vocabulary</td>
<td>Controlled Values</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-206</td>
<td>Minimum Service Maturity level as a Prerequisite for listing resources on the marketplace</td>
<td>Controlled Values</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-162</td>
<td>Provider &gt; Location &gt; Country should list only countries not 'Europe' and 'Worldwide'</td>
<td>Controlled Values</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-177</td>
<td>New Values for Provider profile - Vocabulary</td>
<td>Controlled Values</td>
<td>Up to 01/2022</td>
</tr>
<tr>
<td>EOSCENR-225</td>
<td>Create a new Entity named 'Catalogue' and add the 'Catalogue' attribute to both Provider and Resource profiles</td>
<td>New Profile</td>
<td>In July 2022</td>
</tr>
</tbody>
</table>

[https://confluence.egi.eu/x/9gFIBQ](https://confluence.egi.eu/x/9gFIBQ)
Updates on the EOSC Provider and Resource Profiles v3.00:
- Few additions of new Attributes
- Few changes of Attribute Requirement (mandatory/optional)
- Some re-organisation of Attributes in Information Blocks
- Few updates on Lists of Code Lists, Taxonomies, Classifications
- Some changes of types of Attributes

An additional Profile introduced:
- Multi-Provider Catalogue Profile

Additional extensions introduced:
- Data Sources and Research Products

https://confluence.egi.eu/x/VwRmBQ  https://confluence.egi.eu/x/hARmBQ  https://confluence.egi.eu/x/ZhqxBg
EOSC Profiles v4.00 Information Blocks

Provider Profile v4.00
- Basic Information
- Marketing Information
- Classification Information
- Location Information
- Contact Information
- Maturity Information
- Dependencies Information
- Other Information

New Information Block

Resource Profile v4.00
- Basic Information
- Marketing Information
- Classification Information
- Geographical and Language Availability Information
- Resource Location Information
- Contact Information
- Maturity Information
- Dependencies Information
- Attribution Information
- Management Information
- Access and Order Information
- Financial Information
## EOSC Portal Profiles v4.00

### Minimum Set for Interoperability

<table>
<thead>
<tr>
<th>Provider Profile</th>
<th>Resource Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ID</td>
<td>• ID</td>
</tr>
<tr>
<td>• Abbreviation</td>
<td>• Abbreviation</td>
</tr>
<tr>
<td>• Name</td>
<td>• Name</td>
</tr>
<tr>
<td>• Website</td>
<td>• Resource Organization</td>
</tr>
<tr>
<td>• Legal Entity</td>
<td>• Webpage</td>
</tr>
<tr>
<td>• Description</td>
<td>• Description</td>
</tr>
<tr>
<td>• Logo</td>
<td>• Tagline</td>
</tr>
<tr>
<td>• Address</td>
<td>• Logo</td>
</tr>
<tr>
<td>• Contacts</td>
<td>• Scientific Domain/subdomain</td>
</tr>
<tr>
<td></td>
<td>• Category/subcategory</td>
</tr>
<tr>
<td></td>
<td>• Target Users</td>
</tr>
<tr>
<td></td>
<td>• Geographical and Language Availability</td>
</tr>
<tr>
<td></td>
<td>• Contacts</td>
</tr>
<tr>
<td></td>
<td>• TRL</td>
</tr>
<tr>
<td></td>
<td>• Terms of Use and Privacy Policy</td>
</tr>
<tr>
<td></td>
<td>• Order Type</td>
</tr>
</tbody>
</table>

- **New Attribute**
- **Changed to Mandatory**
Multi-Provider Catalogue Profile v4.00

Information Blocks

Basic Information
- ID
- Abbreviation
- Name
- Website
- Legal Entity
- Legal Status
- Hosting Legal Entity

Marketing Information
- Description
- Logo
- Multimedia
- MultiMedia Name

PROVIDER PROFILE

- Basic Information
- Marketing Information
- Classification Information
- Locaton Information
- Contact Information
- Dependencies Information

Location Information
- Main Location
- Main Contact: First Name
- Main Contact: Last Name
- Main Contact: Email
- Main Contact: Phone
- Public Contact: First Name
- Public Contact: Last Name
- Public Contact: Email
- Public Contact: Phone

Classification Information
- Scientific Domain
- Scientific Subdomain

Location Information
- Main Location
- Main Contact: First Name
- Main Contact: Last Name
- Main Contact: Email
- Main Contact: Phone
- Public Contact: First Name
- Public Contact: Last Name
- Public Contact: Email
- Public Contact: Phone

DOI
https://dx.doi.org/10.5281/zenodo.4536759

References
https://zenodo.org/record/4536759

Acknowledgements

Definitions
https://zenodo.org/record/4536759

Report Bug
https://zenodo.org/record/4536759
Data sources offer deposition, preservation, curation, discovery, access, and usage statistics functionalities to collections of EOSC Research Product Scientific Products from a thematic or cross-discipline perspective.

EOSC Data Sources include Repositories, Catalogues of Research Products, Scientific Databases, Aggregators, Journal sites, Publisher sites, CRIS Systems, and Research Entity Registries.

https://confluence.egi.eu/x/YgixBg
EOSC Portal Providers and Resources are described by a structured set of metadata, well-defined by the EOSC Portal Profiles, instantiated in a JSON Schema and currently moving from v3.00 to v4.00.

There is a need to implement and publish more formally the data models than publishing them in JSON or PDF formats.

To address this gap, EOSC Enhance WP2 has initiated the development of a Unified Modelling Language (UML) representation of the EOSC Portal Profiles compatible with the existing software code base and it is anticipated that it will continue in EOSC Future and will be delivered in that context.
### Requirements incorporated into EOSC Portal OP v4.00

<table>
<thead>
<tr>
<th>Jira ID</th>
<th>EOSC Portal Onboarding Process Requests for Change (RfC)</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSCENR-212</td>
<td>Activate Provider (incl. dashboard) even without a Resource onboarded</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-213</td>
<td>Adjust Onboarding process for approving Provider and Resources</td>
<td>Single &amp; Multi-Provider</td>
</tr>
<tr>
<td>EOSCENR-214</td>
<td>Add for each Resource the admin role at the Provider Component</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-206</td>
<td>Prerequisite of minimum maturity level for listing Resources on the Portal</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-210</td>
<td>New event for coexistence of Resources in user projects</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-184</td>
<td>Fix silent failure of records which pass PC validation and fail UC validation</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-202</td>
<td>Provide textbox for comments during Resource Update</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-187</td>
<td>In the timeline view show also, who changed the records</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-151</td>
<td>Automatically message Providers who have not updated their Profiles in the last x months</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-152</td>
<td>Send automatic daily digest of EPOT and PP activity to EPOT mailing list</td>
<td>Single Provider</td>
</tr>
<tr>
<td>EOSCENR-115</td>
<td>Prospective providers can access a section with the full guidelines for the onboarding of National Catalogues &amp; Registries</td>
<td>Multi-Provider</td>
</tr>
<tr>
<td>EOSCENR-116</td>
<td>National, Regional or Thematic Aggregators can onboard their resources in automated way</td>
<td>Multi-Provider</td>
</tr>
<tr>
<td>EOSCENR-174</td>
<td>Allow the option to onboard Providers via the API</td>
<td>Single &amp; Multi-Provider</td>
</tr>
</tbody>
</table>
Version v4.00 of the OP includes:

- Requirements that have been reviewed and approved via the EOSC Portal Onboarding Change Management Process
- Distinct Onboarding process and steps for Individual Providers and Catalogues
- Incorporation of the Ordering Capability and the Quality Assurance, and Feedback Process

EOSC Portal Onboarding Process v4.00

- Requirements that have been reviewed and approved via the EOSC Portal Onboarding Change Management Process
- Distinct Onboarding process and steps for Individual Providers and Catalogues
- Incorporation of the Ordering Capability and the Quality Assurance, and Feedback Process

https://confluence.egi.eu/x/xAmxBg
**Phase 1**: An Authorised Representative of a Provider (ARP) registers into the EOSC Portal.

**Phase 2**: The Authorised and Authenticated Representative of a Provider (AARP) onboards the Provider (organisation).

**Phase 3**: The AARP onboards the Resources offered by the Provider.

**Phase 4**: The AARP onboards the Options/Offerings of a Resource offered by the Provider.

**Phase 5**: The AARP and the EPOT maintain the quality of the Profiles.
The AARP applies to onboard the Provider
The EPOT reviews the newly onboarded Provider
RoP, rules & criteria compliance?

The AARP shows up to an information or training session

The ARP logs into the Portal
The EPOT reviews the newly onboarded Provider

The AARP asserts he/she is authorized

The AARP is contacted to take action and resubmit

Method to onboard Resources?

The AARP applies to onboard a Resource via the web form
The AARP applies to onboard a Resource via the API

EPOT periodically audits

The AARP retrieves a new API token
The AARP uses the REST API calls to add new Resources

The AARP logs into the Portal
The EPOT reviews the newly onboarded Provider

The AARP asserts he/she is authorized

The AARP attends an information or training session

More Resources to onboard?

The EPOT creates a Review & Feedback Report

The AARP is contacted to take action and resubmit

The AARP applies to onboard a Resource via the web form

The AARP applies to onboard a Resource via the API

EPOT periodically audits

The AARP retrieves a new API token
The AARP uses the REST API calls to add new Resources

The AARP accesses the “Add New Provider” functionality

Provider Rejected

Resource Rejected

The Resource is listed in the Portal Dashboard
The Resource is publicly visible at the Portal

Resource has Offerings/Offerings?

The EPOT creates a Review & Feedback Report

The Option/Offering is publicly visible at the Portal

EPOT periodically audits

Profile periodically updated by AARP

The AARP is contacted to take action and resubmit

The AARP is contacted to take action and resubmit

The AARP is contacted to take action and resubmit
**Phase 1:** An Authorised Representative of a MPRTP registers into the EOSC Portal.

**Phase 2:** The Authorised and Authenticated Representative of a MPRTP (AARM) onboards the Providers registered at the MPRTP.

**Phase 3:** The AARM onboards the Resources registered at the MPRTP.

**Phase 4:** The AARM onboards the Options/Offerings of Resources offered by the Providers registered at the MPRTP.

**Phase 5:** The AARM and the EPOT maintain the quality of the Profiles.
EOSC Portal Profiles Review and Feedback Report

1. Overall Review Results

The methodology used for the EOSC Portal Profiles Review and Feedback Report was introduced by ESRF in the General and ORCID and new EOSC Enhance with a pipeline to improve the EOSC Gateway. The report is divided into six sections: (1) Overall Reviews, (2) Provider Profiles, (3) Feedback, (4) Recommendations, (5) Discussion, and (6) Conclusion. This report is drafted to independent reviewers, provides recommendations for improvement on the Provider and Resources descriptions, and identifies Providers based on its public profile and existence of the Profiles in the EOSC Portal.

The overall data and the report are treated with absolute confidentiality and will not be made available to any other third parties, unless the Provider has agreed beforehand or written in. It is the sole decision of the Reviewer to present the report of a Provider. Based on the benchmarking overview, the report is as follows:

Score: 735

Table 1 on the next page presents an overview of the assessment results for the Provider and Resource profiles. The providers have been marked “Low” or “Medium” for the performance criteria. The Provider and Resource profile are assessed as follows:

Table 2 provides general recommendations for further improvement of the Provider and Resource profile. Figure 1 summarizes the review of PROVIDER X compared to the Benchmark. The Gold Level Provider indicates that PROVIDER X is in line with the benchmark, while the Silver Level Provider indicates some improvement areas. Public availability of the Catalogue, Provider’s Profile and Resource Profile is essential for PROVIDER X to improve their catalogue and profile description. The report includes several actions as they are proposed in the Recommendation.
EOSC Portal Requirements Registry and Roadmapping v4.00
EOSC Portal Requirements Registry and Roadmapping v4.00

EOSC Portal Adopted Requirements

Release: 4.00

Document status: Adopted by EOSC Enhance PMO

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References:
https://confluence.egi.eu/x/SIPeAw

Annexes:
https://confluence.egi.eu/x/2f060h

Definitions:
https://confluence.egi.eu/x/7h400d
EOSC Portal Requirements Gathering Process Results:

In total 201 Requirements were processed out of which:

- 50 were implemented during the first project period
- 79 were implemented during the second project period
- 72 are handed over to EOSC Future for further processing
Version v4.00 (2021) of the EOSC Portal Requirements has built upon Version 2020 and further documents the EOSC Portal Requirements, by applying the well-structured and formal process for the New Requirements Collection, Validation, Prioritization, Implementation and Provision of Feedback.

This process is being updated in EOSC Enhance JIRA project (https://jira.egi.eu/projects/EOSCENR/) with feedback coming from the EOSC Enhance Partnership, the EOSC Enhance Requirements Task Force as well as the established sources of EOSC Stakeholders (i.e. WP5 Requirements gathering workshop etc.).

FNF requirements are grouped in:
(i) those already implemented,
(ii) those identified/or not yet implemented and could possibly be further evaluated (and be part of the road mapping) under EOSC Future project.

Functional requirements are categorized based on the target group/personas they serve:
(i) EOSC Unauthenticated End-Users,
(ii) EOSC Authenticated End-Users (with access to personalized information),
(iii) EOSC Resource Providers (or EOSC Providers), (iv) EOSC Portal Managers,
(iv) EOSC Funders and Policy Makers, and
(v) Third Party Catalogues/Portfolios.
EOSC Portal Change Management Process
v4.00
EOSC Portal CMP v4.00:

- Ensures that changes to specifications and processes developed within the framework of the EOSC Portal are gathered, reviewed, approved, implemented, and communicated to the stakeholders.
- Supports and facilitates the efficient management of the various EOSC Portal Releases.
- Is applied for: the EOSC Portal Functional and Non-Functional Requirements and Roadmapping; the EOSC Portal Profiles; the EOSC Portal Onboarding Process; the EOSC Portal APIs; and various EOSC Portal Reports produced by (semi)automated tools.
The EOSC Portal Change Management Process (CMP) involves the following steps:

1. **Collection**
   - Collectors/Coordinators: Open the Jira ticket for any incoming changes, distinguish bugs/other requests.

2. **Filtering**
   - Reviewers: Assess the priority and feasibility of the change, decide if a change should be rejected or approved for implementation.

3. **Review**
   - Editors/Impl. Team: Design and coordinate the implementation and validation of the changes approved.

4. **Rejection/Approval**
   - Collectors/Coordinators: Decide if a change should be rejected or approved for implementation.

5. **Selection for Implementation**
   - Reviewers: Design and coordinate the implementation and validation of the changes approved.

6. **Implementation**
   - Editors/Impl. Team: Verify that the approved changes are implemented as decided.

7. **Verifiers/Testers**
   - Collectors/Coordinators: Communicate the changes implemented to the stakeholders before they are applied on the production environment.

8. **Dissemination**
   - Collectors/Coordinators: Communicate the changes implemented to the stakeholders before they are applied on the production environment.

9. **Feedback**
EOSC Portal Change Management Process V4.00

EOSC Portal Change Management Processes (EPP-CMP)

Release 1.0.0

Document status FINN Approved by EOSC Enhance PMB

Document owner Athena Spiliopoulou

Contributors

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Credits

The EOSC Portal Change Management Process is developed with the contribution of IPF. The EOSC Portal Change Management Process is developed with the contribution of IPF. The EOSC Portal Change Management Process is developed with the contribution of IPF. The EOSC Portal Change Management Process is developed with the contribution of IPF. The EOSC Portal Change Management Process is developed with the contribution of IPF. The EOSC Portal Change Management Process is developed with the contribution of IPF.

https://confluence.cgi.eui.eu/x/7P4k8Q
Introduction

This report is produced on a weekly basis in order to provide EOSC stakeholders with a quick overview of the status and progress of the EOSC Portal. The report is produced by ZIF in the framework of the EOSC Enhance and EOSC Portal projects that are funded by the European Union's Horizon Research and Innovation programme (H2020). For any additional information, requests for specific statistics or recommendations please contact ZIF.

The EOSC Portal

The EOSC Portal is the central service channel through which all EOSC researchers are able to search, use and reuse research outputs and data across disciplines. The EOSC Portal is part of the EOSC Implementations Roadmap, as one of the so-called “enabling core” services contributing to the implementation of the EOSC. It offers an aggregation of services across various EOSC initiatives and projects as the delivery channel connecting the diverse sides and the supply side of the EOSC and its stakeholders.

To support the enhancement of the EOSC Portal, an EOSC Portal Statistics Report has been developed through the MOON_OF project, EOSC4ALL, OpenRE, and EOSCNeutron, EOSC Enhance and EOSC Portal projects and is structured in the following main sections:

1. A section for EOSC Providers to onboard and join the Portal following the EOSC Portal Onboarding Process (EPO) and employing the EOSC Portal. There are also offers with dashboard tools for monitoring the usage of their Resources offerings and a rich collection of open ESIET API methods for automatic pushing and synchronization of information between provider systems and the EOSC Portal as well as the processing of outgoing and incoming information towards third party systems to enable the development of added value services on top of it.
2. A section for the EOSC Users to discover the EOSC Resources with a multitude of functionalities. It allows users to browse all EOSC Resources, to search and filter specific ones based on multiple criteria, to compare EOSC Resources across several characteristics and parameters that users experience, by providing feedback on EOSC Resources or adding them to their favourite list, etc.

EOSC Portal is available here.

The EOSC Portal Statistics

This report provides a comprehensive overview of the following key performance indicators:

- The Total Number of EOSC Providers
- The Total Number of EOSC Resources
Access to Documentation
EOSC Portal Definitions
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSC</td>
<td>the European Open Science Cloud promoted by the European Commission to provide all researchers, innovators, companies and citizens with seamless access to an open-by-default, efficient and cross-disciplinary environment for storing, accessing, reusing data, tools, publications and any EOSC Resource for research, innovation and educational purposes. The EOSC is implemented by the EOSC System and governed by EOSC Governance.</td>
</tr>
<tr>
<td>EOSC System</td>
<td>the IT system implementing EOSC. Such a system is called to put in place the policies, procedures and technical solutions needed to enact the delivery of the EOSC Services in accordance with the EOSC Governance guidelines. Such a system is not a monolithic, stand-alone and centralised IT system. Rather the EOSC System is designed and developed to be a system of systems.</td>
</tr>
<tr>
<td>EOSC Governance</td>
<td>the set of committees and bodies governing the functioning of EOSC and its EOSC System. It includes the EOSC Executive Board, the EOSC Board, and the EOSC Stakeholders Forum.</td>
</tr>
<tr>
<td>EOSC Portal</td>
<td>the EOSC Service implementing a web portal facilitating the access to and use of the EOSC Resources. The EOSC portal is the universal access channel through which all European researchers can access, use and reuse research outputs and data across disciplines.</td>
</tr>
<tr>
<td>EOSC Registry</td>
<td>an EOSC Service providing EOSC System Users with a list of live/ready-to-use descriptions of EOSC Resources offered by the EOSC System. Every entry of the EOSC Registry must follow and be described and updated following the EOSC Interoperability Framework. The following typologies of the EOSC Registry are currently envisaged: the EOSC Service Registry, the EOSC Data Source Registry and the EOSC Research Product Registry.</td>
</tr>
<tr>
<td>EOSC Platform</td>
<td>the collection of internal services and the central EOSC Registry which services content to EOSC Portal and to other EOSC Registries or parts of the EOSC System.</td>
</tr>
<tr>
<td>EOSC Resources</td>
<td>any asset made available by means of the EOSC system and according to the EOSC Rules of Participation to EOSC End-Users to perform a process useful to deliver value in the context of the EOSC. EOSC Resources include Services, Data Sources, Research Products and any other asset.</td>
</tr>
<tr>
<td>EOSC Service</td>
<td>an EOSC Resource that provides EOSC System Users with ready-to-use facilities. EOSC Services are supplied by an EOSC Service Provider in accordance with the EOSC Rules of Participation. EOSC Services populate the EOSC Service Portfolio and the EOSC Service Catalogue.</td>
</tr>
<tr>
<td>EOSC Data Source</td>
<td>an EOSC Resource whose specific purpose is to offer deposition, preservation, curation, discovery, access, and usage statistics functionalities to collections of EOSC Research Products from a thematic or cross-disciplinary perspective. EOSC Data Sources include Repositories, Scientific Databases, Resource Catalogues, Aggregators, Journals, Publishers, Registries, CRIS systems, and Research Graphs. Repositories support all functionalities above; they are typically used by EOSC Users to share and give access to Research Products. Databases are used to share and give access to Research Products that are not intended as files described by metadata (e.g. big data collections, LOD, time-series databases, geospatial/maps databases, etc.). Resource catalogues offer discovery functionalities over a set of EOSC Data Sources by collecting their metadata collections.</td>
</tr>
<tr>
<td>EOSC Research Product</td>
<td>an EOSC Resource that is the result of a research process (e.g. publications, research data, research software, other products) and is made accessible via an EOSC Data Source. Research Products are characterised/described by metadata to be used for citation, attribution, reuse, reproducibility, semantic linking, and findability.</td>
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<tr>
<td>Term</td>
<td>Definition</td>
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<td>-------------------------------------------</td>
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<tr>
<td>EOSC Portfolio</td>
<td>the internal list of EOSC Resources including those in preparation, live and discontinued.</td>
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<tr>
<td>EOSC System User</td>
<td>the role played by every actor (human or machine) exploiting the EOSC System. An EOSC System User might be further specialised in roles including EOSC End-users, EOSC Providers, EOSC System Managers, etc.</td>
</tr>
<tr>
<td>EOSC End-user</td>
<td>an EOSC System User consuming Resources from the EOSC to accomplish a task. EOSC End-users can be Researchers, Research groups, Research communities, Research projects, Research networks, Research managers, Research organisations, Students, Innovators, Businesses, Funders, Policy Makers, etc.</td>
</tr>
<tr>
<td>EOSC Provider</td>
<td>an EOSC System User responsible for the provisioning of one or more Resources to the EOSC. EOSC Providers are organisations, a part of an organisation or a federation that manages and delivers Resources to End-Users. EOSC Providers can be Resource Providers, Service Providers, Data (Source) Providers, Service Developers, Research Infrastructures, Distributed Research Infrastructures, Resource Aggregators, Thematic Clouds, Regional Clouds, etc.</td>
</tr>
<tr>
<td>EOSC Registry Interoperability Framework</td>
<td>the framework that any EOSC Resource must comply with to be listed in the EOSC Registry. The framework includes, among others the EOSC Profiles, the EOSC Onboarding Process, the EOSC Rules of Participation, and the EOSC Portal Application Programming Interfaces. The framework also defines the workflows, the APIs, the formats, the legal framework, the SLA that similar Registries operated by research infrastructures or clusters must comply to be aggregated by the corresponding EOSC Registries.</td>
</tr>
<tr>
<td>EOSC Profiles</td>
<td>the standard scheme for the representation of resource-related information in the EOSC Registry. The following typologies are currently envisaged: the EOSC Provider Profile, the EOSC Resource Profile. The Profiles include structured classifications of various EOSC Registry attributes for their harmonised descriptions.</td>
</tr>
<tr>
<td>EOSC Onboarding Process</td>
<td>the process that an EOSC Provider must follow to register the Provider and their resources in the EOSC Registry.</td>
</tr>
<tr>
<td>EOSC Rules of Participation</td>
<td>the principles defined by the EOSC Governance to drive the processes enacting an actor to play the role of EOSC System User (and any specialisation of it).</td>
</tr>
<tr>
<td>EOSC Portal Application Programming Interfaces</td>
<td>a set of standard APIs that allow for the registration, update, export of EOSC Resource descriptions and related information from the EOSC Registry.</td>
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