

EOSC Glossary V1.0 (Jan. '19)

This document is expected to contain the first set of terms forming the EOSC Glossary resulting from the EOSCpilot Glossary Working Group (glossary@eoscpilot.eu).

Data Service Supplier

Definition: an **EOSC Supplier** focusing on the provision of one or more Data Services, i.e. building blocks enacting the implementation and provisioning of an **EOSC Service**.

Notes: The services these suppliers are expected to contribute represent a specific typology of service whose value resides more on the data it gives access to than on the functionality it offers. One of the primary service built by relying on Data Services is the **EOSC Data Registry** service typology.

EOSC

Definition: 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. EOSC is implemented by the **EOSC System** and governed by the **EOSC Governance**.

EOSC Architecture

Definition: the architecture of the **EOSC System**. The service-oriented architecture consists of the **EOSC Services** forming the **EOSC System**. The deployment architecture consists of the **EOSC Nodes** contributing to the **EOSC System**.

Notes: Every "system" has its own architecture. According to ISO/IEC/IEEE 42010 the architecture of a system is "fundamental concepts or properties of a system in its environment embodied in its elements, relationships, and in the principles of its design and evolution".

EOSC Board

Definition: the **EOSC Governance** component gathering Member States and the Commission to ensure effective supervision of the **EOSC** implementation.

EOSC Data Registry

Definition: an **EOSC Service** providing **EOSC System Users** with a list of live / ready-to-use descriptions of datasets (a specific type of **EOSC Resource**) offered by the **EOSC System**.

Notes: Datasets do not occur per-se / on their own, rather they are made available by **EOSC Service(s)**. Many EOSC Data Registry instances may exist, each tailored to serve the needs of a designated community. Moreover, an overarching EOSC Data Registry is likely to be built / populated by relying on **EOSC Service Component(s)** including thematic catalogues, registries and repositories. Every entry of an **EOSC Data Registry** must give relevant information (aka metadata) on the listed datasets thus to enact its informed discovery and use, e.g. a description of dataset intent and scope, a description on how to access it, a description of the license governing its usage.

EOSC End-user

Definition: *an **EOSC System User** consuming **EOSC Resource(s)** by means of **EOSC Service(s)** (e.g. the **EOSC Portal**) to accomplish a task. She can be a Researcher, a Research Administrator, or a **Third-party Service Provider**.*

EOSC Executive Board

Definition: *the **EOSC Governance** component called to provide the **EOSC Board** with advices and proposals on **EOSC** implementation.*

EOSC Governance

Definition: *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**. It liaises with the **EOSC System Steering Committee**, the **EOSC Service Portfolio Management Committee**, the **EOSC System Executive Committee** regarding the development of the **EOSC System**.*

EOSC Node

Definition: *the component of the **EOSC System** that is called to contribute to the provisioning of one or more **EOSC Services**. An EOSC Node: (a) is the place where **EOSC Services** and/or **EOSC Service Components** reside; (b) is operated by an **EOSC Service Provider** and/or an **EOSC Supplier**.*

EOSC Policy

Definition: *a documented set of principles, rules and requirements adopted by the **EOSC Governance** to support and/or drive the activities and mission of the **EOSC**. Policies may concern any aspect of the **EOSC**, such as ethics, openness, security, cost-effectiveness or others.*

EOSC Portal

Definition: *the **EOSC Service** implementing a web portal facilitating the access to and use of the **EOSC Resources**.*

Notes: Among the **EOSC Resources** made available by the **EOSC Portal** there are some key **EOSC Services** including the **EOSC Resource Registry** to enact the discovery of any **EOSC Resource**.

EOSC Resource

Definition: *any asset made available (by means of the **EOSC system** and according to the **EOSC Rules of Participation**) to **EOSC System Users** to perform a process useful to deliver value in the context of the **EOSC**. **EOSC Resources** include services, datasets, software, support, training, consultancy or any other asset.*

EOSC Resource Registry

Definition: *an **EOSC Service** providing **EOSC System Users** with a list of live / ready-to-use descriptions of **EOSC Resource** offered by the **EOSC System**.*

Note: Many EOSC Resource Registry instances may exist, each tailored to serve the needs of a designated community. At least one overall EOSC Resource Registry is likely to be operated to list the entire EOSC offering. Moreover, every EOSC Resource Registry is likely to be built / populated by relying on EOSC Service Component(s) including thematic catalogues, registries and repositories. Every entry of an EOSC Resource Registry must give relevant information (aka metadata) on the listed resources thus to enact its informed discovery and use, e.g. a description of resource intent and scope, a description on how to access it, a description of the license governing its usage. At least two specific typologies of EOSC Resource Registry are envisaged: the **EOSC Dataset Registry** and the **EOSC Service Registry**.

EOSC Rules of Participation

Definition: *the principles defined by the **EOSC Governance** to drive the processes enacting an actor to play the role of **EOSC System User** (and any specialization of it).*

Note: Multiple typologies of roles (see **EOSC System Users**) are envisaged in EOSC. It is likely that multiple typologies of Rules of Participation will be developed to capture the specific participation requirements posed for actors expected to play a certain role. For instance, the requirements actors willing to be **EOSC Service Provider** have to face and satisfy are diverse from the requirements actors willing to be **EOSC End-users** have to face and satisfy.

EOSC Service

Definition: an **EOSC Resource** implemented by the **EOSC System** to provide **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 for EOSC Service Providers**. EOSC Services are approved by the **EOSC Service Portfolio Management Committee** and populate the **EOSC Service Portfolio** and the **EOSC Service Catalogue**.

Note: According to FitSM¹ a Service is "Way to provide value to customers through bringing about results that they want to achieve". Moreover, the text of the definition aims at stressing the fact that there is a service-orientation in EOSC. EOSC Services are usually IT services. EOSC Services provide value when taken on their own – unlike the specific EOSC Service Components of which they are composed of.

EOSC Service Catalogue

Definition: the list of all live **EOSC Services** that can be requested by **EOSC System Users**. It is a subset of the **EOSC Service Portfolio** and it populates the **EOSC Service Registry**.

Note: It is a duty of the **EOSC Service Provider** to provide access to relevant service information to its **EOSC System Users** and other interested parties.

EOSC Service Component

Definition: a logical part of an **EOSC Service**, i.e. it is a building block enacting the implementation and provisioning of an **EOSC Service**. An EOSC Service Component can be an **EOSC Service** on its own.

Note: According to FitSM², a Service Component is a "logical part of a service that provides a function enabling or enhancing a service.". Such a definition is accompanied by some notes: (a) "A service is usually composed of several service components.", (b) "A service component is usually built from one or more configuration items (CIs).", and (c) "Although a service component underlies one or more services, it usually does not create value for a customer alone and is therefore not a service by itself".

EOSC Service Component Supplier

Definition: an **EOSC Supplier** focusing on the provision of one or more **EOSC Service Component(s)**.

¹ FitSM Standards Family <http://fitsm.itemo.org/>

² FitSM Standards Family <http://fitsm.itemo.org/>

Note: According to FitSM³, a Supplier is an "External organisation that provides a (supporting) service or service component(s) to the service provider, which they need to provide services to their customers / users". This term should not be confused with the EOSC Service Provider for several reasons including the "what" (namely an EOSC Service Component rather than an EOSC Service) and the "how" (i.e. service provisioning is regulated by an *Underpinning Agreement*).

EOSC Service Developer

Definition: an ***EOSC Supplier*** called to implement the software component needed to deliver and operate an ***EOSC Service***.

EOSC Service Portfolio

Definition: the internal list of ***EOSC Services*** including those in preparation, live and discontinued. The development of this list is controlled by the ***EOSC Service Portfolio Management Committee***.

Note: According to FitSM⁴, a Service Portfolio is an "Internal list that details all the services offered by a service provider, including those in preparation, live and discontinued". This is expected to be a key component enacting the definition of the overall offering the ***EOSC System*** is focusing on, e.g. to define new services to be delivered as well as services that are going to be dismissed. For ***EOSC Services*** offered by ***EOSC Service Providers*** to ***EOSC System End Users***, the scope of responsibility of the ***EOSC Service Portfolio Management*** is mainly to ensure the verification of the compliance with the ***EOSC Rules of Participation*** and that the service correctly integrates into the ***EOSC System***. The ***EOSC Service Provider*** retains full control of the functional evolution of the service in accordance to users' needs. For ***EOSC Services*** offered by ***EOSC Service Providers*** to enable the ***EOSC System***, the ***EOSC Service Portfolio Management*** can retain a higher level of control on the planning, design and release of those services.

EOSC Service Portfolio Management

Definition: the process performed by the ***EOSC Service Portfolio Management Committee*** to drive the development of the ***EOSC Service Portfolio***.

EOSC Service Portfolio Management Committee

Definition: the body of the ***EOSC Governance*** responsible for the definition and development of the ***EOSC Service Portfolio***.

³ FitSM Standards Family <http://fitsm.itemo.org/>

⁴ FitSM Standards Family <http://fitsm.itemo.org/>

EOSC Service Provider

Definition: *an **EOSC System Manager** managing and delivering an **EOSC Service**.*

Note: According to FitSM⁵, a Service Provider is defined as an "Organisation or federation (or part of an organisation or federation) that manages and delivers a service or services to customers". An EOSC Service Provider is a FitSM Service Provider called to manage and deliver an EOSC Service.

EOSC Service Registry

Definition: *an **EOSC Service** providing **EOSC System Users** with a list of live / ready-to-use descriptions of **EOSC Services** offered by the **EOSC System**. The list includes (a subset of) the entries in the **EOSC Service Catalogue** as well as any other service worth being discoverable via the service instance.*

Note: This is a specialization of the EOSC Resource Registry. Many EOSC Service Registry instances may exist, each tailored to serve the needs of a designated community. At least one overall EOSC Service Registry is likely to be operated to list the entire EOSC offering. Moreover, every EOSC Service Registry is likely to be built / populated by relying on EOSC Service Component(s) including thematic catalogues, registries and repositories. Every entry of an EOSC Service Registry must give relevant information (aka metadata) on the listed services thus to enact its informed discovery and use, e.g. a description of service intent and scope, a description on how to access it, a description of the license governing its usage.

EOSC Stakeholders Forum

Definition: *The **EOSC Governance** component gathering the broadest community of EOSC stakeholders to collect advises and inputs on **EOSC** implementation.*

EOSC Supplier

Definition: *an **EOSC System User** responsible for the provisioning of one or more **EOSC Service Component(s)** enacting an **EOSC Service** within the **EOSC System**. It is further specialised in the following sub-roles: **EOSC Service Component Supplier**, **Data Service Supplier**, and **EOSC Service Developer**.*

EOSC System

Definition: *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.*

⁵ FitSM Standards Family <http://fitsm.itemo.org/>

Note: 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 distributed across **EOSC Nodes**.

EOSC System Manager

Definition: an **EOSC System User** when taking care of the management of the **EOSC System**. It is further specialised in the following sub-roles: **EOSC System Owner**, **EOSC System Top Manager**, and **EOSC Service Provider**.

EOSC System Owner

Definition: an **EOSC System Manager** accountable for the establishment and maintenance of the **EOSC System**. Because of the key nature of this role, it is expected to have many actors playing it thus forming a committee (**EOSC System Steering Committee**). By liaising with the rest of **EOSC System Managers** (namely those playing the roles of **EOSC System Top Managers** and **EOSC Service Providers**) this role steers the **EOSC System** by setting the key goals and directions. Its tasks include the development of the **EOSC Service Portfolio** (in close cooperation with the **EOSC Service Portfolio Management Committee**).

EOSC System Executive Committee

Definition: a committee of the **EOSC Governance** comprising **EOSC System Top Managers**. This committee guarantees that the **EOSC System** is behaving according to its established goal and directions.

EOSC System Steering Committee

Definition: a committee of the **EOSC Governance** comprising **EOSC System Owners**. This committee steers the **EOSC System** by setting the key goals and directions. Its tasks include overseeing the development of the **EOSC Service Portfolio** in cooperation with the **EOSC Service Portfolio Management Committee**.

EOSC System Top Manager

Definition: an **EOSC System Manager** accountable for the overall operation of the **EOSC System**. Because of the key nature of this role, it is expected to have many actors playing it thus forming a committee (**EOSC System Executive Committee**). By liaising with the rest of **EOSC System Managers** (namely **EOSC System Owners** and **EOSC Service Providers**) actors playing this role are called to put in place actions guaranteeing that the **EOSC System** is behaving according to the goal and directions established by the **EOSC System Owners**.

EOSC System User

Definition: *the role played by every actor (human or machine) exploiting the **EOSC System** according to the **EOSC Policy**. An EOSC System User might be further specialised in roles including **EOSC End-users**, **EOSC Suppliers**, and **EOSC System Managers**.*

Third-party Service Provider

Definition: *an **EOSC End-user** willing to develop and operate a service by relying on one or more **EOSC Services**.*

Underpinning Agreement

Definition: *a documented agreement between an **EOSC Service Provider** and an **EOSC Supplier** that specifies the underpinning **EOSC Service Component(s)** to be provided by the **EOSC Supplier**, together with the related service targets.*

Note: According to FitSM⁶, the Underpinning Agreement is a "documented agreement between a service provider and an external supplier that specifies the underpinning service(s) or service component(s) to be provided by the supplier, together with the related service targets". This is a key agreement enacting the EOSC Service Provider to operate its EOSC Services by counting on a well defined conditions guaranteeing the provisioning of the EOSC Service Component(s).

⁶ FitSM Standards Family <http://fitsm.itemo.org/>