



eInfra Central

Cooperation Framework

DI4R

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HELLENIC REPUBLIC
National and Kapodistrian
University of Athens



Mission



Ensure that by 2020 a broader and more varied set of users discovers and accesses the existing and emerging e-Infrastructure capacity, Services and Scientific Resources

In tune with key European Policies



Single Digital Market



European Open Science Cloud (EOSC)



Open Science, Open Innovation and Open to the World vision



Horizon 2020 Programme



ESFRI, e-IRG, etc

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3. Service/Resource Description Standard

Way to homogeneously describe the offerings



Service Description Template
V1.12
July 2018

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eInfraCentral

Service Description Template, v1.12, July 2018

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Search for eInfraCentral+github or

<https://github.com/eInfraCentral>

<https://jnp.gitbooks.io/service-description-template-v1-12>

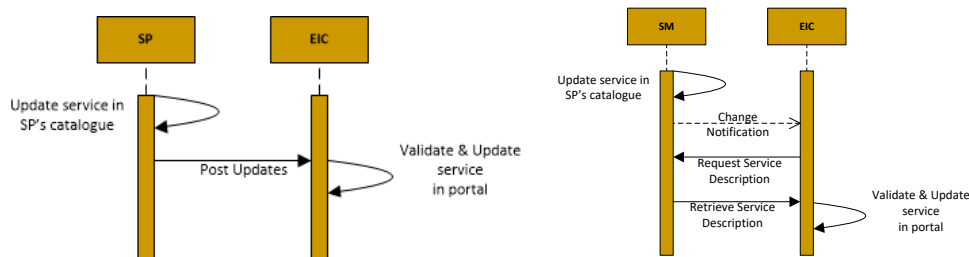
Next version expected on
December 2018



4. Schema Representation and API

Way to exchange information and interoperate

- Guidelines for the REST API and the service-related representation and specifications for the exchange of information among service providers and third party applications.
- The APIs methods offer the functionality to programmatically access, search and retrieve the contents of the catalogue, such as services, service providers, service performance indicators and service analytics.



Deliverable D3.3 Guidelines for schema representation and APIs



eInfra Central

Type (Distribution Level):	Public
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Version:	1.0

Abstract: This document specifies the guidelines for the service-related representation of eInfraCentral information, and the REST API specifications for the exchange of information from service providers to the eInfraCentral Gateway and its provisioning to third party applications. The APIs methods offer the functionality to programmatically access, search and retrieve the contents of the eInfraCentral catalogue, such as services, service providers, service performance indicators and service analytics.

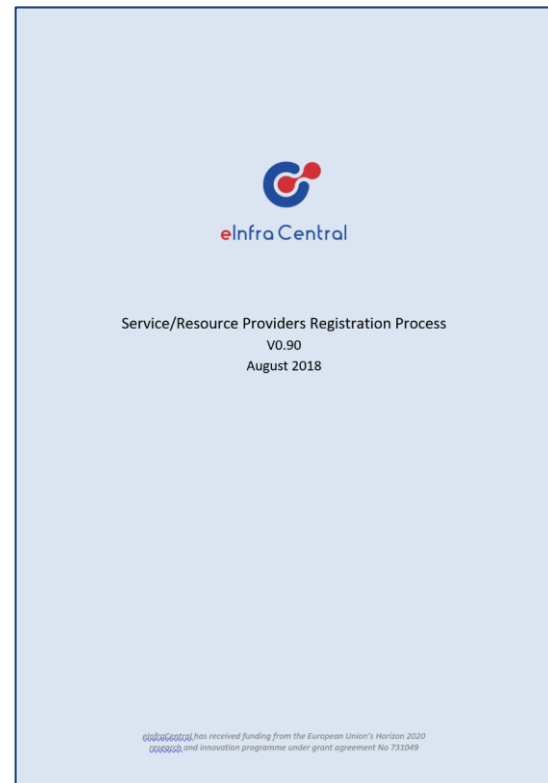


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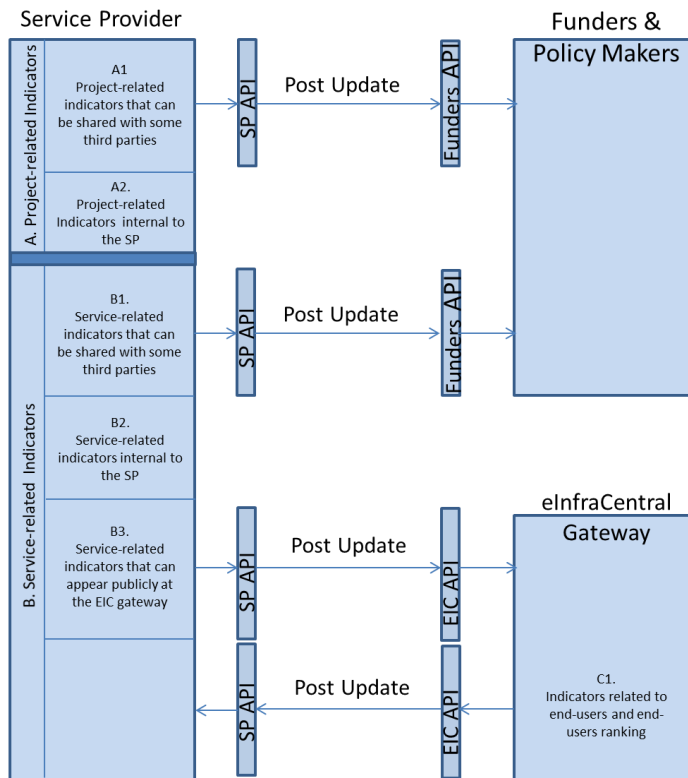
5. Service Provider Registration Process

Rules of Participation

- A transparent, inclusive and open process for the registration of SPs and their Services/Resources in the eInfraCentral Gateway that can be followed by all interested parties irrespectively of their maturity.
- With a long-term aim to find paths of the process that can be automated so as to allow scalability and avoid bottlenecks in the registration process.
- The Process includes currently 6 steps
- One more will be added to cope with the EOSC validation requirements



6. Performance Monitoring Framework



7. Service Vocabulary Alignment

D3.1 Service Catalogue Requirements — eInfraCentral — Grant Agreement number: 731049

Note: This might mean the total disk capacity or network bandwidth. It could also be the maximum transaction throughput of a system.

2.2.8 Change

Alteration (such as addition, removal, modification, replacement) of a configuration item (CI)

2.2.9 Classification

Assignment of items to defined groups based on common attributes, relations or other criteria

Note 1: Items that are subject to classification may include documents, records (such as incident records or change records), services, configuration items (CIs), etc. Defined groups may include categories (such as incident categories or change categories) or priority levels. Note 2: The act of classification often comprises the application of more than one classification scheme. For instance, an incident record might be assigned to a technical incident category such as 'software related', 'network related', etc., and also to a priority level like 'low priority', 'medium priority', etc. The assignment of various incidents, service requests, changes and problems to an affected CI is also a classification.

Note 3: Besides the presentation and analysis of relationships, classification is often used as input for controlling the workflow of a process, e.g. by assigning a priority level to an incident.

2.2.10 Closure

Final activity in a workflow of a process to indicate no further action is required for a specific case

Note: Cases that are subject to closure may include incidents, problems, service requests or changes.

The activity of closure puts the connected record (such as the incident record, problem record, service request record or change record) in its final status, usually called 'closed'.

2.2.11 Competence

Sum of knowledge, skills and experience that an individual or group needs to effectively take on a specific role

2.2.12 Confidentiality of information

Property of information not being accessible to unauthorized parties

2.2.13 Conformity

Extent to which requirements are met in some context

Note: In the context of FISMA, the term compliance is generally used as a synonym for conformity. However, sometimes conformity is used in the context of adherence to internal regulations and requirements as defined by policies, processes and procedures, while compliance is used in the context of adherence to external requirements, such as laws, standards and contracts.

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D3.1 Service Catalogue Requirements — eInfraCentral — Grant Agreement number: 731049

2.2.14 Configuration

State of a specified set of attributes, relationships and other relevant properties of one or more configuration items (CIs)

Note: The documented configuration of a number of CIs at a given point in time is called a configuration baseline, which is usually taken prior to the deployment of one or more changes to these CIs in the live environment.

2.2.15 Configuration item (CI)

Element that contributes to the delivery of one or more services or service components, therefore requiring control of its configuration

Note 1: CIs can vary widely, from technical components (e.g. computer hardware, network components, software) to non-technical items such as documents (e.g. service level agreements, manuals, license documentation).

Note 2: The data necessary for effective control of a CI is stored in a CI record. In addition to attributes of the CI, the CI record likely includes information on relationships it has with other CIs, service components and services. CI records are stored in a configuration management database (CMDB).

2.2.16 Configuration management database (CMDB)

Store for data about configuration items (CIs)

Note: A CMDB is not necessarily a single database covering all configuration items (CIs). It may rather be composed of multiple physical data stores.

2.2.17 Continuity Property of a service to maintain all or parts of its functionality, even in exceptional circumstances

Note: Exceptional circumstances include emergencies, crises or disasters which affect the ability to provide services over extended periods of time.

2.2.18 Customer

Organisation or part of an organisation that commissions a service provider in order to receive one or more services

Note: A customer usually represents a number of users.

2.2.19 Document

Information and its supporting medium

Note: Examples of documents include policies, plans, process descriptions, procedures, service level agreements, contracts or records of activities performed.

2.2.20 Effectiveness

Extent to which goals and expectations are met

Note: In a management system, effectiveness is mostly measured against the defined goals of the processes that are subject to this system.

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D3.1 Service Catalogue Requirements — eInfraCentral — Grant Agreement number: 731049

2.2.21 Efficiency

Degree of ability to meet goals and expectations with minimum consumption of resources *Note 1: In a management system, efficiency is mostly considered in the context of the processes that are subject to this system.*

Note 2: Resources may be human, technical, informational or financial.

2.2.22 Escalation

Change of responsibility for a case (such as an incident, service request, problem or change) or activity to another individual or group

Note: There are two basic types of escalation: Hierarchical escalation transfers responsibility temporarily to someone with a higher level of authority. Functional escalation transfers responsibility to someone with a different set of competencies or privileges required to handle the case or activity.

2.2.23 Federation

Situation in which multiple parties, the federation members, jointly contribute to the delivery of services to customers without being organised in a strict hierarchical setup or supply chain.

2.2.24 Federation member

Individual, organisation or body that works together with other federation members in a federation to provide one or more services

Note: Often, federation members will not be bound together by strict contractual agreements.

2.2.25 Federator

Body that acts to coordinate a set of federation members

2.2.26 Improvement

Action or set of actions carried out to increase the level of conformity, effectiveness or efficiency of a management system, process or activity, or to increase the quality or performance of a service or service component

Note: An improvement is usually implemented after an opportunity for improvement has been identified, for instance during a service review, audit or management review.

2.2.27 Incident

Unplanned disruption of operation in a service or service component, or degradation of service quality versus the expected or agreed service level or operational level according to service level agreements (SLAs), operational level agreements (OLAs) and underpinning agreements (UAs).

2.2.28 Information security

Preservation of confidentiality, integrity and accessibility of information

2.2.29 Information security control

Means of controlling or treating one or more risks to information security

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Building the EOSC together



- eInfraCentral, EOSC-hub and OpenAIRE-Advance are the driving initiatives in the implementation of the European Open Science Cloud
- Collaborating around the building of the EOSC Portal and its functionality
- Actively contributing to the building of the EOSC service catalogue

How to find the SDT v1.12 and get assistance

- SDT v1.12 (txt, word, pdf, excel tool) and API specs and code
  - <https://github.com/eInfraCentral>
  - <https://jnp.gitbooks.io/service-description-template-v1-12>
  - Next version expected on December 2018
    - Call for contributions and recommendations
- Catalogue and Service descriptions
  - <http://beta.einfracentral.eu>
- Assistance to move into the generation and enhancement of your catalogue
  - contact@einfracentral.gr or eic@jnp.gr

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