



Grant Agreement Number: **731049**

Project Acronym: **eInfraCentral**

Project Full Title: **European E-Infrastructure Services Gateway**

Type of Action: **Coordination and Support Action (CSA)**

Call: **H2020-INFRA supp-2016-2017**



Overview of eInfraCentral API methods (v.2.0)





| Controller | Type | Method Name | Description | Requires Auth Token? |
|------------|------|--------------------------|--|----------------------|
| Service | POST | /service | Adds, i.e. registers, a new service resource in the eInfraCentral Gateway | YES |
| | PUT | /service | Updates an existing service resource description | YES |
| | POST | /service/validate | Validates the registration or update of a service resource without it actually being added/modified in the registry | YES |
| | GET | /service/{id} | Gets the most current version of a specific service providing the service ID | NO |
| | GET | /service/{id}/{version} | Gets the specified version of a Service, providing the Service id and version. | NO |
| | GET | /service/all | Filters a list of services based on a set of filters (if empty gets the list of all services in the Catalogue) | NO |
| | GET | /service/by/{field} | Gets all services in the catalogue organised by a field, e.g. get service organized in categories | NO |
| | GET | /service/byID/{ids} | Gets a list of services based on a set of IDs | NO |
| Provider | PUT | /provider | Updates provider info | YES |
| | GET | /provider/all | Filters a list of service providers based on a set of filters (if empty gets the list of all providers in the Catalogue) | NO |
| | GET | /provider/{id} | Gets provider's data given the provider id | NO |
| | GET | /provider/services/{id} | Gets a list of services offered by a provider | NO |
| Funder | GET | /funder/all | Filters a list of Funders based on a set of filters (if empty gets the list of all funders in the Catalogue) | NO |
| | GET | /funder/{id} | Gets the Funder with the given id. | NO |
| | GET | /funder/funderStats/{id} | Gets various stats about a specific Funder | NO |
| Indicator | POST | /indicator | Adds the given indicator | YES |
| | PUT | /indicator | Updates an existing indicator with the given ID | YES |
| | GET | /indicator/{id} | Gets the indicator given its ID | NO |
| | GET | /indicator/all | Filters a list of Indicators based on a set of filters (if empty gets the list of all indicators in the Catalogue) | NO |

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|-------------|------|----------------------------------|--|-----|
| Measurement | POST | /measurement | Adds the given indicator measurement | YES |
| | PUT | /measurement | Updates an existing measurement with the given ID | YES |
| | GET | /measurement/{id} | Gets the measurement given its id | NO |
| | GET | /measurement/latest/service/{id} | Gets the latest Measurements for the specific service. | NO |
| | GET | /measurement/service/{id} | Gets all measurements of the service given the service ID | NO |
| Statistics | GET | /stats/provider/favourites/{id} | Gets aggregate favourites per day for all services offered by a provider | NO |
| | GET | /stats/provider/ratings/{id} | Gets average ratings per day for all services offered by a provider | NO |
| | GET | /stats/provider/visitation/{id} | Gets percentage of visits for all services offered by a provider | NO |
| | GET | /stats/provider/visits/{id} | Gets aggregate visits per day for all services offered by a provider | NO |
| | GET | /stats/service/favourites/{id} | Gets favourites per day for a service | NO |
| | GET | /stats/service/ratings/{id} | Gets average ratings per day for a service | NO |
| | GET | /stats/service/visits/{id} | Gets visits per day for a service | NO |
| Vocabulary | GET | /vocabulary | Returns the entries of a given Vocabulary type | NO |
| | GET | /vocabulary/all | Filters the list of Vocabularies based on a set of filters (if empty gets the list of all vocabularies in the Catalogue) | NO |
| | GET | /vocabulary/countries/EU | Gets the list of countries included in the EU list of the catalogue | NO |
| | GET | /vocabulary/countries/WW | Gets the list of countries included in the Worldwide list of the catalogue | NO |

Authentication to the services is implemented via an access token generated by the AAI server. eInfraCentral currently uses the AAI mechanism of the European Open Science Cloud (EOSC) Portal, which offers users the ability to authenticate themselves and generate an API token (<https://aai.eosc-portal.eu/eic-api/token.php>). The API token is used in all eInfraCentral API methods requiring authenticated access. The authenticated user can request the generation, deletion, and listing of API tokens via the EOSC Portal AAI, which acts as a mediating management interface.