Horizon 2020 Programme

Digital Excellence & Science infrastructure eInfrastructure Science Cloud



Grant Agreement Number: **731049**Project Acronym: **eInfraCentral**

Project Full Title: European E-Infrastructure Services Gateway

Type of Action: Coordination and Support Action (CSA)

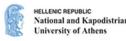
Call: **H2020-INFRASUPP-2016-2017**



Overview of eInfraCentral API methods (v.2.0)



















Horizon 2020 Programme

Digital Excellence & Science infrastructure eInfrastructure Science Cloud



Controller	Туре	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

Horizon 2020 Programme

Digital Excellence & Science infrastructure eInfrastructure Science Cloud



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/ser vice/{id}	Gets the latest Measurements for the specific service.	NO
	GET	/measurement/service/{i d}	Gets all measurements of the service given the service ID	NO
Statistics	GET	/stats/provider/favourite s/{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/E U	Gets the list of countries included in the EU list of the catalogue	NO
	GET	/vocabulary/countries/W W	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.