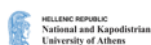




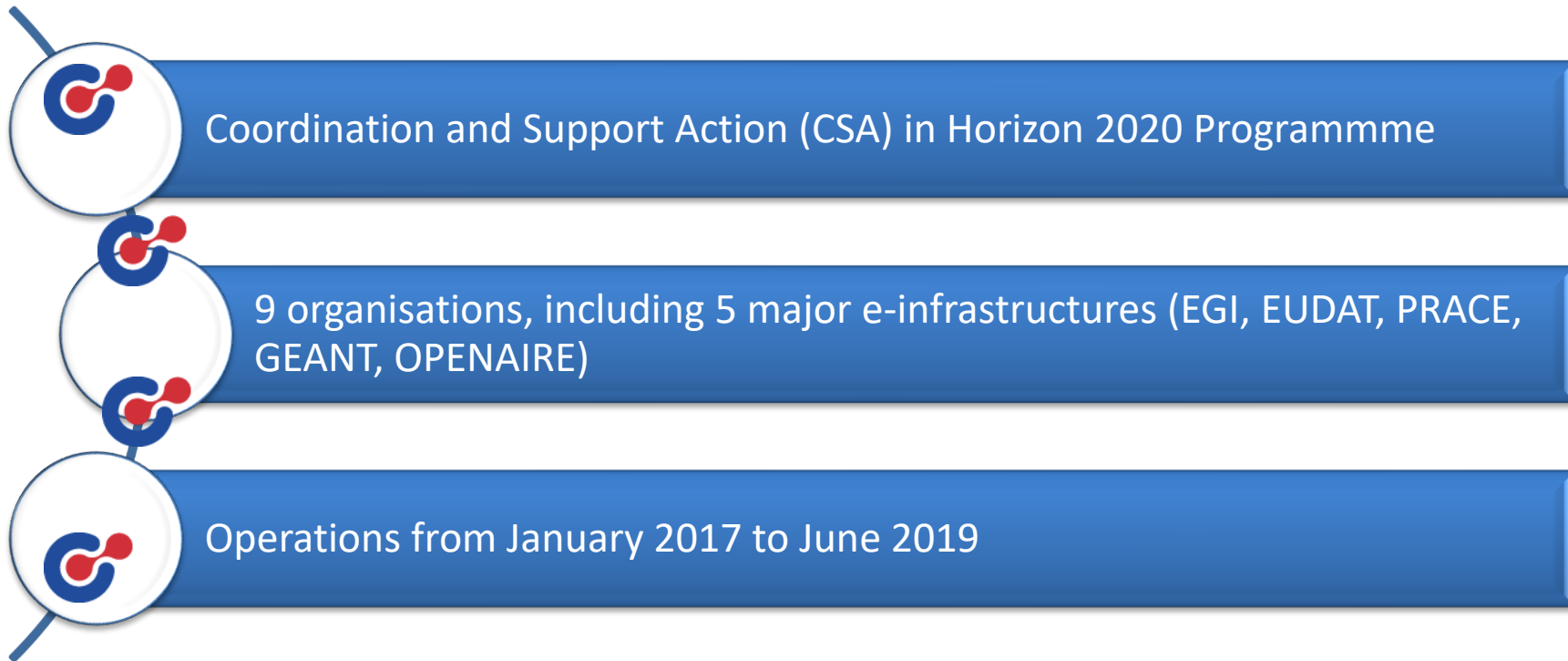
eInfraCentral

eInfraCentral Portal

eInfraCentral APIs for the Service Provider



What is eInfraCentral?



Core objectives & Outputs



A Common Service Model for service management and exchange



eInfraCentral portal : a gateway for end-users to a **harmonized Catalogue of services**



Tools & Recommendations for Service providers for the development of the EOSC marketplace.

**Public Launch
– Early 2019**

**> 90 services from
11 service providers**

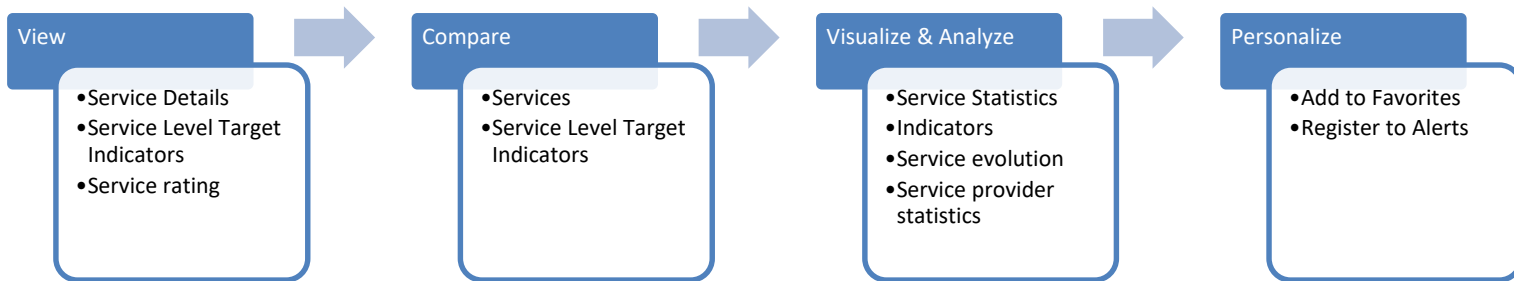
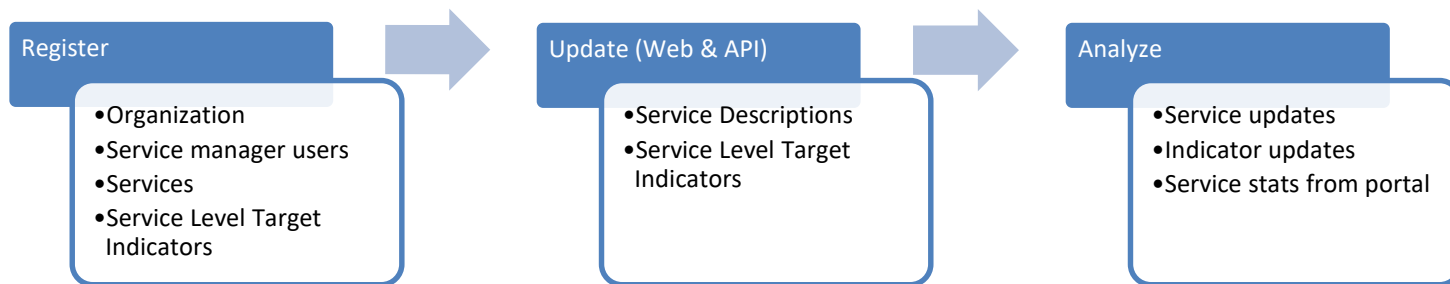
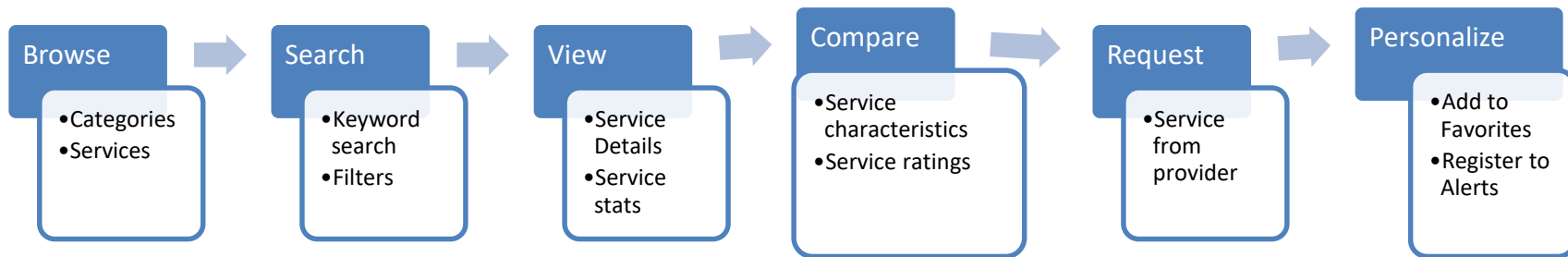
Your Gateway for European Services

WHICH SERVICE ARE YOU LOOKING FOR?

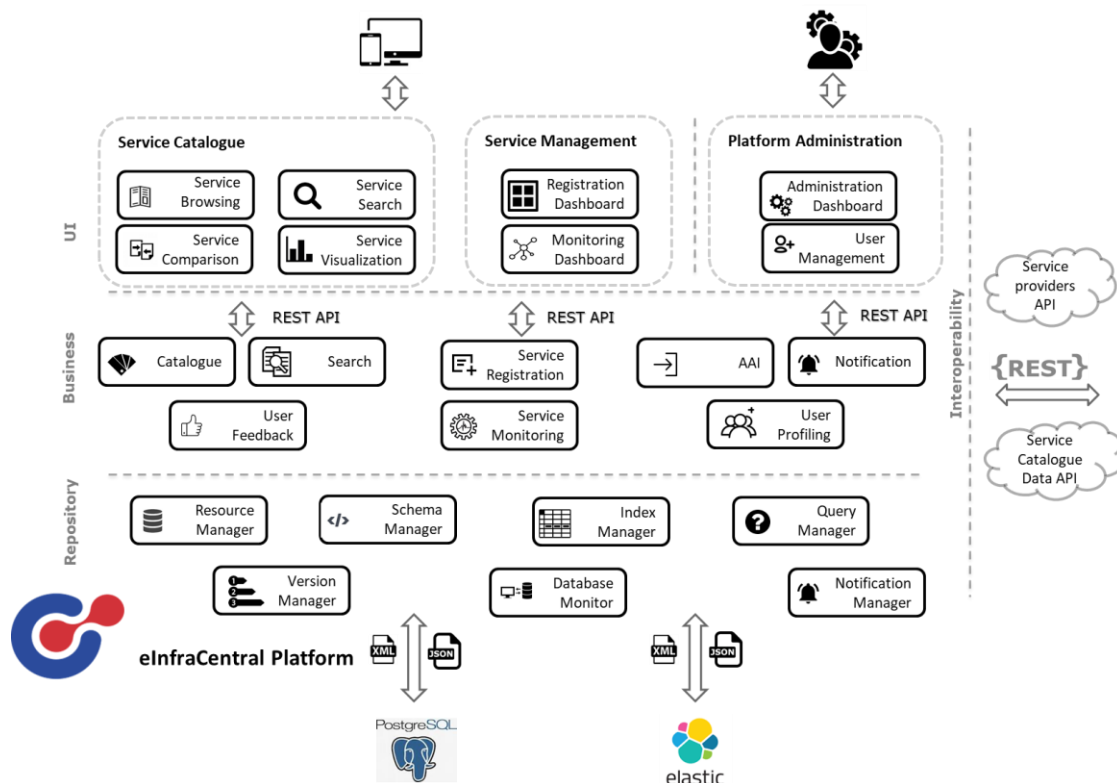
SEARCH

**AAI
authentication**

Highlighted Services



eInfraCentral Architecture

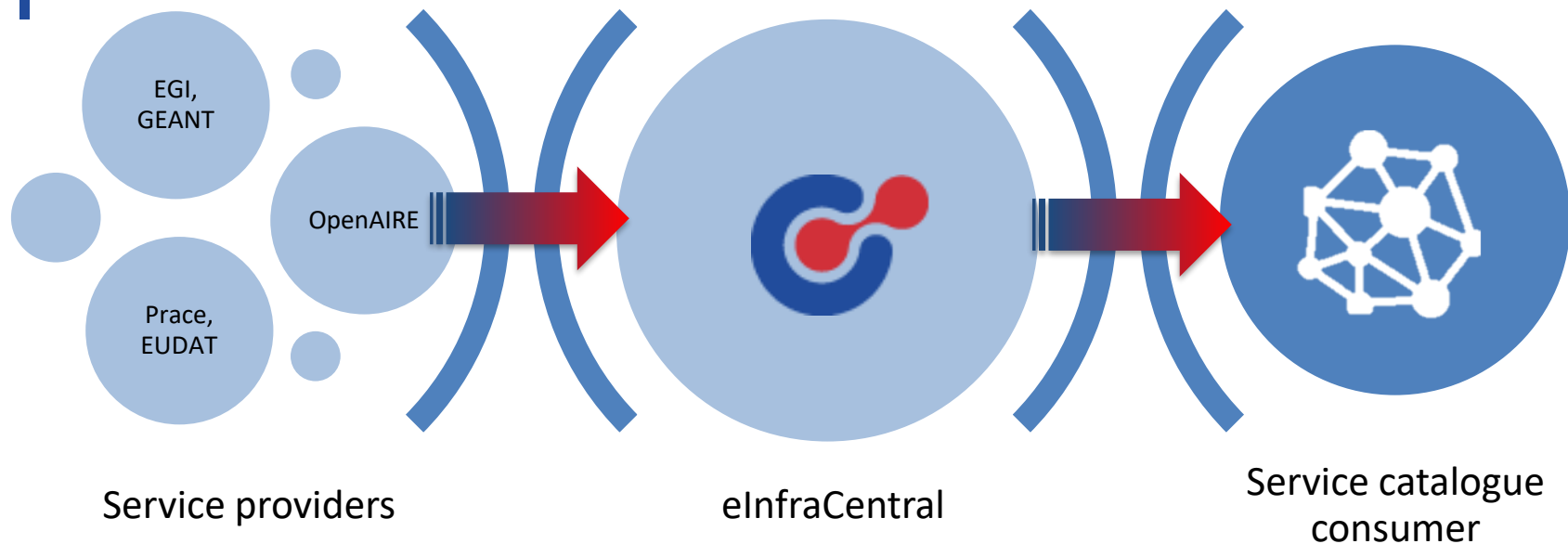


eInfraCentral API Methods for Service providers

Exchanging data – timeliness and transparency

7

eInfraCentral Open API

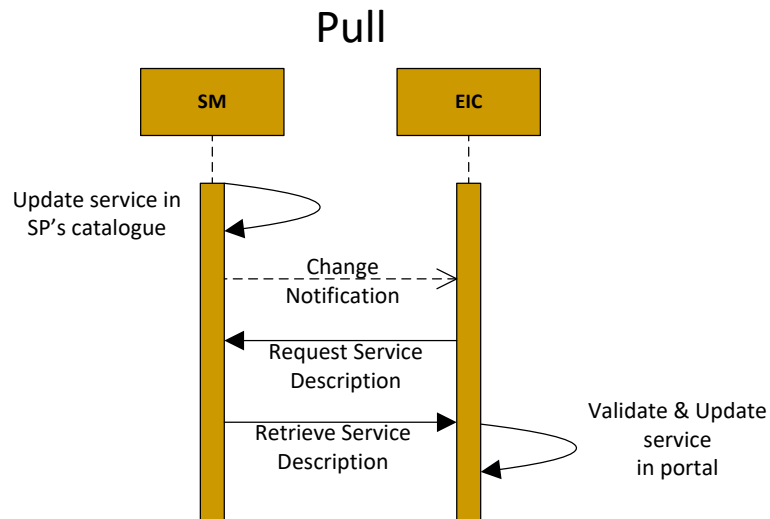
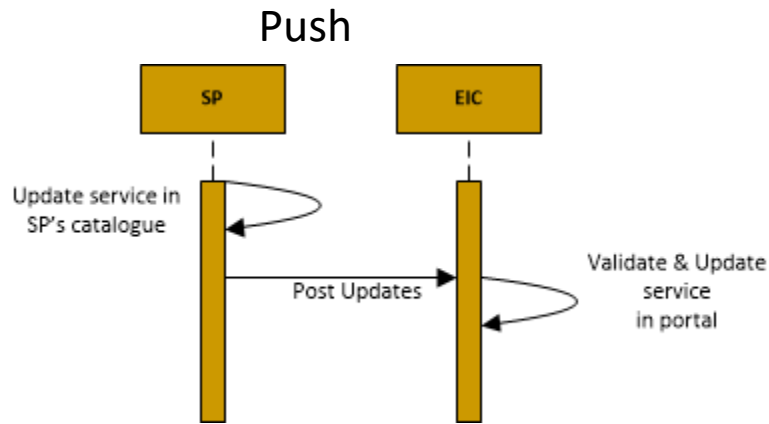


Service Level Target Indicators
Service Description Details

Service classification and vocabularies
Service Analytics collected within eInfraCentral
(List of) Service Descriptions



APIs - Definitions for an all inclusive approach

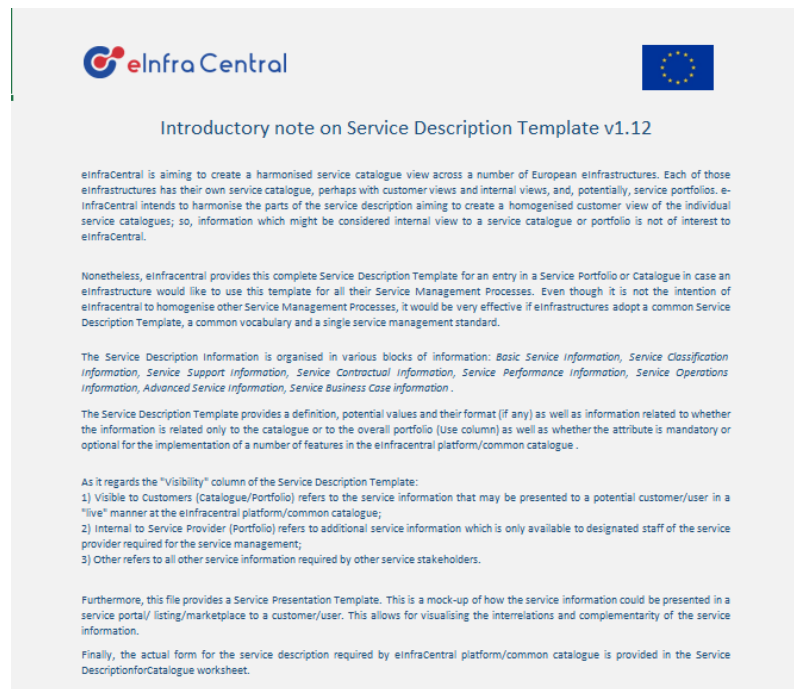


Common Service Model

Service Description Template v1.12



- Based on priori modelling efforts (FitSM, FedSM, e-IRG KPIs, TMForum)
- EInfraCentral proposition for
 - Service Management
 - Service Exchange between different service catalogues



<https://github.com/eInfraCentral/docs/blob/master/eInfraCentral-JNP-ServiceDescriptionTemplate.xlsx>



Service Description Template

Enables Service Representation & Classification



- Building blocks
 - Basic Service Information (service id, name, provider, description, url, etc)
 - Service Classification Information (category \ subcategory, TRL, lifecycle status, etc.)
 - Service Support Information (Order url, training material, helpdesk, etc)
 - Service Contractual Information (Price, SLA, TermsOfUse, etc)
 - Service Performance Information (Availability, Usage, etc.)

11



<http://beta.einfracentral.eu/openapi>

elInfraCentral

External APIs for the elInfraCentral registry

provider-controller : Provider Controller

Show/Hide | List Operations | Expand Operations

service-controller : Service Controller

Show/Hide | List Operations | Expand Operations

statistics-controller : Statistics Controller

Show/Hide | List Operations | Expand Operations

vocabulary-controller : Vocabulary Controller

Show/Hide | List Operations | Expand Operations

[BASE URL: / , API VERSION: 0.0.1-SNAPSHOT]



Service Controller

service-controller : Service Controller

[Show/Hide](#)[List Operations](#)[Expand Operations](#)

POST /service

Adds the given infraService.

PUT /service

Updates the infraService assigned the given id with the given infraService, keeping a history of revisions.

GET /service/all

Filter a list of services based on a set of filters or get a list of all services in the eInfraCentral Catalogue

GET /service/by/{field}

Get all services in the catalogue organized by an attribute, e.g. get infraService organized in categories

GET /service/byID/{ids}

Get a list of services based on a set of IDs

GET /service/history/{id}

Get all modifications of a specific infraService providing the infraService ID and a version identifier

PATCH /service/publish/{id}/{version}

Set a service active or inactive

POST /service/validate

Validates the service without actually changing the repository

GET /service/{id}

Get the most current version of a specific infraService providing the infraService ID

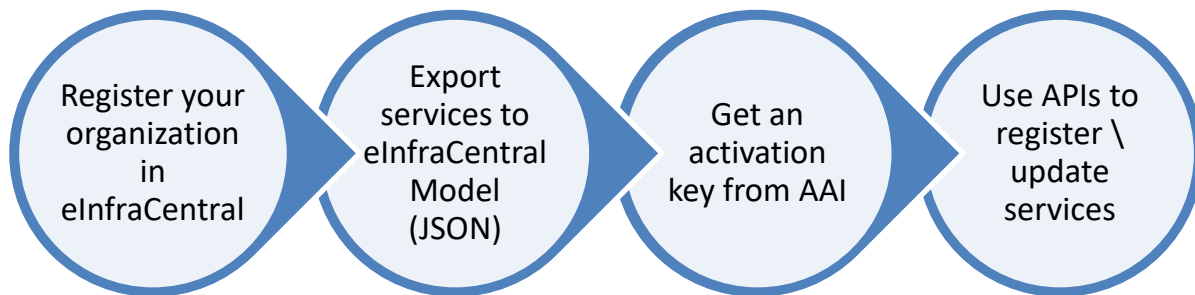
GET /service/{id}/{version}

Get the specified version of an infraService providing the infraService ID



Are you a service provider?

Steps to Register new services through API



Using the API to REGISTER a new service

<http://beta.einfracentral.eu/developers>



- Step 1. Start from the documentation
 - <http://beta.einfracentral.eu/openapi>
 - <https://github.com/eInfraCentral/docs/blob/master/eInfraCentral-JNP-ServiceDescriptionTemplate.xlsx>
- Step 2. Register your organization in eInfraCentral
 - Signup as a new User - AAI
 - Create you new Service provider, follow the EIC registration procedure
- Step 3. Export services to JSON according to Service Description Template
 - See example here. <http://beta.einfracentral.eu:8080/eic-registry/swagger-ui.html#!/service45controller/addUsingPOST>



Using the API to REGISTER a new service



<http://beta.einfracentral.eu/developers>

- Step 4. Get an activation key for using the API methods and authorize it in the API page
 - <https://aai.eosc-portal.eu/eic-api/token.php>
- Step 5. Validate the service call
 - Validate the service is well formed . <http://beta.einfracentral.eu:8080/eic-registry/swagger-ui.html#!/service45controller/validateUsingPOST>
- Step 6. Make a POST \ Service call
 - upon success you get a new service ID . <http://beta.einfracentral.eu:8080/eic-registry/swagger-ui.html#!/service45controller/addUsingPOST>
- Step 7. Check that the new service is registered
 - eInfraCentral portal
 - Get service by ID. <http://beta.einfracentral.eu:8080/eic-registry/swagger-ui.html#!/service45controller/getSomeUsingGET>



Using the API to UPDATE a new service

<http://beta.einfracentral.eu/developers>



- Step 8. Make a Put \ Service call
 - upon success you get the service ID . <http://beta.einfracentral.eu:8080/eic-registry/swagger-ui.html#!/service45controller/updateUsingPUT>
- Step 9. Check that the service is updated
 - eInfraCentral portal
 - Get service by ID



Using the API to Get Service Information



<http://beta.einfracentral.eu/developers>

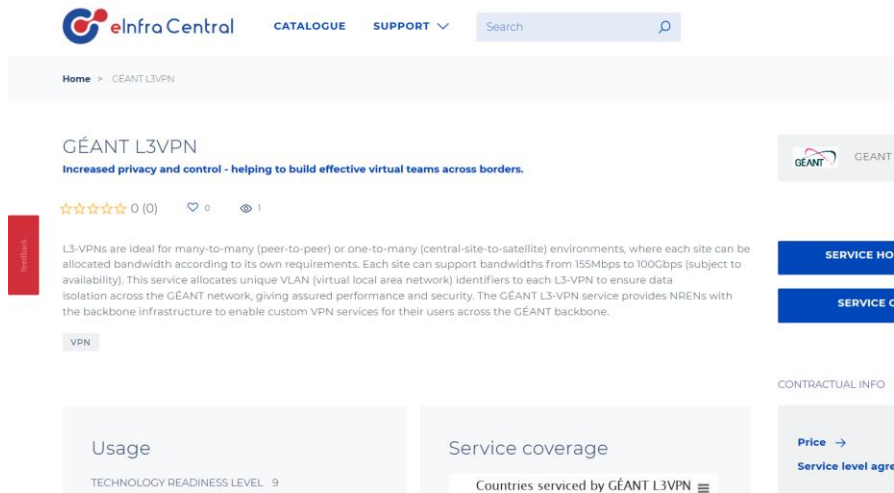
- No authentication is required
- <http://beta.einfracentral.eu:8080/eic-registry/service/{serviceID}/> gets the service with id=Service ID, e.g.,
- *Service ID = {ProviderId.serviceTitle}, e.g.,*
 - http://beta.einfracentral.eu/api/service/geant.geant_l3vpn retrieves the Service titled “**GÉANT L3VPN**” by **GÉANT** Provider.



http://beta.einfracentral.eu/api/service/geant.geant_l3vpn



Web



API

[illegible]

... beta.eInfraCentral.eu

For Developers & API

beta.eInfraCentral.eu/developers



Thank you!



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

