eInfraCentral Portal

European e-Science Services Gateway

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Core objectives

- A common harmonised catalogue of e-Infrastructures services
- A single Gateway for European E-Infrastructures for end users to access and compare services
- A single point of reference for researchers and the broad community to provide access and make services and resources discoverable
- A tool for seamlessly monitoring of service performance and quality across multiple service providers

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 731049
Stakeholders

• Individual Researchers
• Research Communities
• Data & Content providers
• Research Administrators
• Funders
• Policy Makers
• SMEs
• Citizen Scientists (Public)

Different views on a harmonized service catalogue
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Researcher - E-infra service user

E-infra service provider

E-infra service funder
Service user - Researcher

• Discover services of interest organized in categories
• Save time for comparing various service offerings (e.g. by price, features)
• Judge on the relevance of the offered services
• Request access more easily to services that I am interested to use
• Identify gaps in the offered services
• Rate experience with the used services for service improvements
Service provider

- Increase the visibility of service offerings
- Attract new type of users
- Streamline service descriptions according to a common typology and definitions
- Become part of an EU-wide initiative
- Monitor service statistics, e.g., usage and user ratings
Service Funder

- Compare service characteristics along several categories
- Identify overlaps and gaps
- Compare KPIs related to services and other aspects of interest, e.g.,
- Visualisation tools for capturing the e-Infrastructure evolution along several dimensions
  - Availability, Requests, Users, Usage, Capacity, Coverage, et al.
Are you a researcher?

- Browse
  - Categories
  - Services

- Search
  - Keyword search
  - Filters

- View
  - Service Details
  - Service stats

- Compare
  - Service characteristics
  - Service ratings

- Request
  - Service from provider

- Personalize
  - Add to Favorites
  - Register to Alerts
Are you a service provider?

Register
- Organization
- Service provider users
- Services
- KPIs

Update (Web & API)
- Organization details
- Service details
- Service KPIs

Monitor
- Service updates
- KPI updates
- Service stats from portal
Are you a funder?

View
- Service Details
- Service KPIs
- Service rating

Compare
- Services
- Service KPIs

Visualize & Analyze
- KPI evolution
- Service evolution

Personalize
- Add to Favorites
- Register to Alerts

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Progress so far

- 1\textsuperscript{st} prototype online \url{beta.einfracentral.eu}
  - \(~73\text{ service online (EGI, EUDAT, OPENIRE, GENAT, PRACE)}\)
  - Browse the Catalogue of services
  - Search and Filter services
  - View service details
  - Compare Services
  - Add a new or update a service
### Functional Platform Requirements

#### Public Users

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS/CAT/01</td>
<td>List the <strong>categories/subcategories</strong> of a list of services</td>
</tr>
<tr>
<td>FS/CAT/02</td>
<td>List the <strong>services for a specific category/subcategory</strong></td>
</tr>
<tr>
<td>FS/CAT/03</td>
<td>View <strong>overviews</strong> of a list of services</td>
</tr>
<tr>
<td>FS/CAT/04</td>
<td>View <strong>details</strong> for a service</td>
</tr>
<tr>
<td>FS/CAT/05</td>
<td><strong>Navigate</strong> to the service at the remote service provider</td>
</tr>
<tr>
<td>FS/CAT/06</td>
<td><strong>Search</strong> for a service through keywords</td>
</tr>
<tr>
<td>FS/CAT/07</td>
<td>View <strong>faceted</strong> filters from a list of services</td>
</tr>
<tr>
<td>FS/CAT/08</td>
<td><strong>Filter</strong> a list of services through faceted filters</td>
</tr>
<tr>
<td>FS/CAT/09</td>
<td><strong>Compare</strong> a list of services</td>
</tr>
<tr>
<td>FS/CAT/10</td>
<td>List the services for a specific user <strong>group</strong></td>
</tr>
<tr>
<td>FS/CAT/11</td>
<td><strong>Register</strong> as an end user via <strong>local</strong> authentication</td>
</tr>
<tr>
<td>FS/CAT/12</td>
<td><strong>Register</strong> as an end user via <strong>remote</strong> authentication</td>
</tr>
</tbody>
</table>
## Functional Platform Requirements

### Registered Users

<table>
<thead>
<tr>
<th>FS/CAT/14</th>
<th>Login</th>
<th>FS/CAT/15</th>
<th>Edit the profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS/CAT/16</td>
<td>Add/Remove a service from the list of favourites of a user</td>
<td>FS/CAT/17</td>
<td>View the list of favourite services for a user</td>
</tr>
<tr>
<td>FS/CAT/18</td>
<td>Subscribe/Unsubscribe to platform alerts</td>
<td>FS/CAT/19</td>
<td>View the list of alerts for a user</td>
</tr>
<tr>
<td>FS/CAT/20</td>
<td>Rate a service</td>
<td>FS/MON/06</td>
<td>Visualize KPIs for a list of services</td>
</tr>
<tr>
<td>FS/MON/07</td>
<td>Get average rating for a service</td>
<td>FS/MON/08</td>
<td>Get usage statistics for a service</td>
</tr>
</tbody>
</table>

*what Public users can do*
Functional Platform Requirements

Service providers

...what registered users can do

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS/CAT/13</td>
<td>Register as a service provider user</td>
</tr>
<tr>
<td>FS/REG/01</td>
<td>Register a new service</td>
</tr>
<tr>
<td>FS/REG/02</td>
<td>View a list of services provided by a service provider</td>
</tr>
<tr>
<td>FS/REG/03</td>
<td>Update an existing service</td>
</tr>
<tr>
<td>FS/REG/04</td>
<td>Deactivate/activate a service</td>
</tr>
<tr>
<td>FS/REG/05</td>
<td>Delete a service</td>
</tr>
<tr>
<td>FS/REG/06</td>
<td>List all actions applied on a service</td>
</tr>
<tr>
<td>FS/MON/01</td>
<td>Add/remove a KPI type</td>
</tr>
<tr>
<td>FS/MON/02</td>
<td>Associate/Remove a KPI type from a service</td>
</tr>
<tr>
<td>FS/MON/03</td>
<td>View KPIs associated with a service</td>
</tr>
<tr>
<td>FS/MON/04</td>
<td>Append/Update values of a KPI for a service</td>
</tr>
<tr>
<td>FS/MON/05</td>
<td>Set the time interval for automatic updates of a KPI</td>
</tr>
</tbody>
</table>
...a quick demo
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