

A4. Architecture Design

The attributes marked with a * are confidential and should not be disclosed outside the service provider.

| Service overview | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------|-------------|---------|--|--------|------|-------------|-------------|---------|---|---|--|--|--|---|--|---|--|--|--|--|--|---|--|--|--|--|--|
| Service name | Architecture Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service area | consultancy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service phase | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer group | <ul style="list-style-type: none"> • RI data service operators (provider) • e-Infrastructure operators (provider) • RI researchers (users) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| User group | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tagline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Features | <ul style="list-style-type: none"> • Recommendations to RIs for reference architecture • Derived from D5.1 (requirements and State of the Art) • Assumes RI have local e-I capability and access to European e-Is | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service options | <table border="1"> <thead> <tr> <th>Option</th> <th>Name</th> <th>Description</th> <th>Attributes</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | Option | Name | Description | Attributes | | | 1 | | | | | | 2 | | | | | | 3 | | | | | |
| Option | Name | Description | Attributes | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Access policies | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service management information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service owner * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact (internal) * | Keith Jeffery: NievadelaHidalgaA@cardiff.ac.uk | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact (public) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Request workflow * | As a reference for implementation by RIs <ul style="list-style-type: none"> • Overall architectural intent • Components: catalog, common and cross-cutting services | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service request list | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terms of use | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLA(s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other agreements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Support unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| User manual | ENVR plus Deliverable D5.5: http://www.envrplus.eu/wp-content/uploads/2015/08/D5.5.pdf | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service architecture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Service components | Architectural components expected to be TRL6-8 <table border="1"> <thead> <tr> <th>#</th> <th>Type</th> <th>Name</th> <th>Description</th> <th>TRL [1]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | # | Type | Name | Description | TRL [1] | 1 | | | | | 2 | | | | | | | | | | | | | |
| # | Type | Name | Description | TRL [1] | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finances & resources | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Payment model(s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|---------------------|--|
| Pricing | |
| Cost * | |
| Revenue stream(s) * | |
| Action required | |

[1] Technology Readiness Levels (TRL) are a method of estimating technology maturity of components during the acquisition process. For non-technical components, you can specify "n/a". For technical components, you can select them based on the following definition from the EC:

- **TRL 1** – basic principles observed
- **TRL 2** – technology concept formulated
- **TRL 3** – experimental proof of concept
- **TRL 4** – technology validated in lab
- **TRL 5** – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 6** – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- **TRL 7** – system prototype demonstration in operational environment
- **TRL 8** – system complete and qualified
- **TRL 9** – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies)