



# EGI Foundation

## Indigo PaaS

### Operational level Agreement

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<b>Service Provider</b>	EGI Foundation
<b>Component Provider</b>	INFN
<b>First day of service delivery</b>	1 <sup>st</sup> January 2021
<b>Last day of service delivery</b>	30 <sup>th</sup> June 2023
<b>Status</b>	Final
<b>Agreement finalization date</b>	17 <sup>th</sup> December 2020
<b>Agreement Link</b>	<a href="https://documents.egi.eu/document/3672">https://documents.egi.eu/document/3672</a>

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## DOCUMENT LOG

<i>Issue</i>	<i>Date</i>	<i>Comment</i>	<i>Author</i>
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## TERMINOLOGY

The EGI glossary of terms is available at: <https://wiki.egi.eu/wiki/Glossary>

For the purpose of this Agreement, the following terms and definitions apply. The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119.

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The present Agreement (“the Agreement”) is made between **EGI Foundation (the Service Provider)** and **INFN (the Component Provider)** to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

This Agreement is valid from **1<sup>st</sup> January 2021** to **30<sup>th</sup> June 2023**.

The Agreement was discussed and approved by EGI Foundation and the Component Provider **17<sup>th</sup> December 2020**.

The Component Provider(s) is (are) bound by the terms and conditions of the EGI Default Operational Level Agreement<sup>1</sup> supplemented by the terms and conditions of this specific Agreement:

## 1 The Services

The Services are defined by the following properties:

<p><b>Technical</b></p>	<p>The PaaS Orchestrator service allows the users to deploy virtualised computing infrastructures with complex topologies (such as clusters of virtual machines or applications packaged as Docker containers) using standardized interfaces based on REST APIs and adopting the TOSCA templating language for the description of Cloud-based applications.</p> <p>The selection of the best cloud provider to fulfill the user request is performed considering criteria like the user’s SLAs, the services availability and the data location. The service comes with a set of application/service topologies ready-to-use that can be deployed through a user-friendly web interface.</p> <p>The service should be offered as a centrally managed instance that will be run by the project and will provide access to both generic and thematic users. Additionally, the provider should be capable of setting up dedicated instances to specific communities as needed upon request. Indigo-PaaS instance for EGI-ACE should:</p> <ul style="list-style-type: none"> <li>● integrate with EGI Check-in for authentication and authorisation of users</li> <li>● support the main IaaS APIs available in EGI Cloud (OpenStack, OpenNebula) and optionally support other IaaS APIs of commercial cloud providers (AWS, GCP, Azure)</li> <li>● integrate with EGI information sources to facilitate the use of resources and selection of the best cloud provider</li> </ul>
<p><b>Coordination</b></p>	<p>This activity is responsible for the coordination of the service maintenance activities with EGI operations team and other technology providers for the EGI Core Infrastructure.</p>

<sup>1</sup> <https://documents.egi.eu/document/2752>

<b>Operation</b>	<ul style="list-style-type: none"> <li>● Daily running of the service.</li> <li>● Provisioning of a high availability configuration. <ul style="list-style-type: none"> <li>○ during the first year of the project the service will be installed with a high-available set-up that will help increase both reliability and availability.</li> </ul> </li> <li>● Creating an Availability and Continuity Plan and implementing countermeasures to mitigate the risks defined in the related risk assessment.</li> </ul>
<b>Maintenance</b>	<p>This activity includes:</p> <ul style="list-style-type: none"> <li>● Requirements gathering</li> <li>● Maintenance of probes to test the functionality of the service</li> <li>● Documentation</li> </ul>

## 2 Service hours and exceptions

As defined in the EGI Default Operational Level Agreement.

## 3 Support

As defined in the EGI Default Operational Level Agreement.

Support is provided via EGI Service Desk<sup>2</sup> Support Unit: <support unit to be created>

Access requires a valid X.509 or the login via a EGI SSO account<sup>3</sup>.

Support is available between:

- Monday and Friday
- 9:00 and 17:00 CET/CEST time

This excludes public holidays at the same time in all organizations providing the service.

### 3.1 Incident handling

As defined in the EGI Default Operational Level Agreement.

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<sup>2</sup> <http://helpdesk.egi.eu/>

<sup>3</sup> <https://www.egi.eu/sso/>

## 3.2 Service requests

In addition to resolving incidents, standard service requests (e.g. change requests, information requests, documentation) will be fulfilled through the defined support channels in the same way as incidents. Service requests are classified as “Less urgent”.

## 4 Service level targets

### Monthly Availability

- Defined as the ability of a service or service component to fulfil its intended function at a specific time or over a calendar month.
- Minimum (as a percentage per month): 95%

### Monthly Reliability

- Defined as the ability of a service or service component to fulfil its intended function at a specific time or over a calendar month, excluding scheduled maintenance periods.
- Minimum (as a percentage per month): 95%

### Quality of Support level

- Medium (Section 3)

## 5 Limitations and constraints

As defined in the EGI Default Operational Level Agreement.

## 6 Communication, reporting and escalation

### 6.1 General communication

The following contacts will be generally used for communications related to the service in the scope of this Agreement.

<b>Service Provider contact</b>	Alessandro Paolini <a href="mailto:operations@egi.eu">operations@egi.eu</a> EGI Foundation Operations officer
<b>Component Provider contact</b>	Giacinto Donvito donvito@infn.it

<b>Service Support contact</b>	See Section 3
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## 6.2 Regular reporting

As part of the fulfilment of this Agreement and provisioning of the service, the following reports will be provided:

Report title	Contents	Frequency	Produced by	Delivery
Service Performance Report	The document provides an overall assessment of service performance (per month) and OLA target performance achieved during reporting period	10 months (first report covering the period Jan – Oct 2021)	Provider	Survey form prepared by EGI Foundation

All reports shall follow predefined templates<sup>4</sup>.

## 6.3 Violations

The Component Provider commits to inform the Service Provider, if this Agreement is violated or violation is anticipated. The following rules are agreed for communication in the event of violation:

- In case of any violations of the Services targets, the Component Provider will provide justifications and a plan for Services enhancement to the Service Provider. The Component Provider will produce a status report and a Service enhancement plan for the improvement of the Services within one month from the date of the first notification.
- The Service Provider will notify the supporting Resource Centres in case of suspected violation via the EGI Service Desk. The case will be analysed to identify the cause and verify the violation.

## 6.4 Escalation and complaints

For escalation and complaints, the Component Provider contact point shall be used, and the following rules apply.

- In case of repeated violation of the Services targets for two consecutive months or four months over a period of 12 months, a review of the Agreement and of the Services enhancement plan will take place involving the parties of the Agreement.
- Complaints or concerns about the Services provided should be directed to the Component Provider contact who will promptly address these concerns. Should the Service Provider

<sup>4</sup> <https://documents.egi.eu/document/2748>

still feel dissatisfied, about either the result of the response or the behaviour of the Component Provider, EGI Foundation Director [director@egi.eu](mailto:director@egi.eu) should be informed.

## 7 Information Security and data protection

As defined in the EGI Default Operational Level Agreement.

The following rules for Information Security and data protection should be enforced when they are applicable:

- The Component Provider agrees to make every effort to maximise security level of users' data and minimise possible harm in the event of an incident.
- EGI Foundation holds the role of the Data Controller while the Component Provider holds the role of Data Processor. Data Processing Agreements must be signed between EGI Foundation (the Data Controller) and Component Provider (the Data Processor).
- The Component Provider must comply with the EGI Policy on the Processing of Personal Data<sup>5</sup> and provide a Privacy Notice. This privacy Notice must be agreed with EGI Foundation and must be based on the Privacy Policy template provided by the AARC Policy Development Kit (PDK)<sup>6</sup>.
- The Component Provider must enforce the EGI WISE Acceptable Usage Policies<sup>7</sup>.
- The Component Provider shall comply with all principles set out by the GÉANT Data Protection Code of Conduct<sup>8</sup> in its most current version, which will be made available to the Component Provider by EGI Foundation upon request.
- The Component Provider must meet all requirements of any relevant EGI policies or procedures<sup>9</sup> and also must be compliant with the relevant national legislation. Regarding EGI requirements, please refer to the following reference documentation:
  - [EGI-doc-3015: e-Infrastructure Security Policy](#)
  - [EGI-doc-3601: Service Operations Security Policy](#)
  - [EGI-doc-2732: Policy on the Processing of Personal Data](#)
  - [EGI-doc-3600: Acceptable Use Policy and Conditions of Use](#)
  - [EGI-doc-2934: Security Traceability and Logging Policy](#)
  - [EGI-doc-2935: Security Incident Response Policy](#)
  - [EGI-doc-710: Security Incident Handling Procedure](#)

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<sup>5</sup> <https://documents.egi.eu/public/ShowDocument?docid=2732>

<sup>6</sup> <https://aarc-project.eu/policies/policy-development-kit/>

<sup>7</sup> <https://documents.egi.eu/public/ShowDocument?docid=3600>

<sup>8</sup> <https://wiki.refeds.org/display/CODE/Data+Protection+Code+of+Conduct+Home>

<sup>9</sup> [https://www.egi.eu/about/policy/policies\\_procedures.html](https://www.egi.eu/about/policy/policies_procedures.html)



## 8 Responsibilities

### 8.1 Of the Component Provider

Additional responsibilities of the Component Provider are as follows:

- Adhere to all applicable operational and security policies and procedures<sup>10</sup> and to other policy documents referenced therein.
- Use communication channel defined in the agreement.
- Ensure that the service is accessible only by users belonging to countries that are part of EGI Council or of MoUs.
- Attend OMB<sup>11</sup> and other operations meeting when needed.
- Accept EGI monitoring services provided to measure fulfilment of agreed service level targets.
- Service with associated roles is registered in GOC DB<sup>12</sup> as site entity under EGI.eu Operations Centre hosting EGI central operations tools<sup>13</sup>.
- Changes in the system must be rolled in production in a controlled way in order to avoid service disruption.

#### 8.1.1 Software compliance

Unless explicitly agreed, software being used and developed to provide the service should:

- Be licensed under an open source and permissive license (like MIT, BSD, Apache 2.0,...).
- The license should provide unlimited access rights to the EGI community.
- Have source code publicly available via a public source code repository (if needed a mirror can be put in place under the EGI organisation in GitHub<sup>14</sup>.) All releases should be appropriately tagged.
- Adopt best practices:
  - Defining and enforcing code style guidelines.
  - Using Semantic Versioning.
  - Using a Configuration Management frameworks such as Ansible.
  - Taking security aspects into consideration through at every point in time.
  - Having automated testing in place.
  - Using code reviewing.
  - Treating documentation as code.
  - Documentation should be available for Developers, administrators, and end users.

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<sup>10</sup> [https://www.egi.eu/about/policy/policies\\_procedures.html](https://www.egi.eu/about/policy/policies_procedures.html)

<sup>11</sup> <https://wiki.egi.eu/wiki/OMB>

<sup>12</sup> <http://goc.egi.eu/>

<sup>13</sup> [https://goc.egi.eu/portal/index.php?Page\\_Type=NGI&id=4](https://goc.egi.eu/portal/index.php?Page_Type=NGI&id=4)

<sup>14</sup> <https://github.com/EGI-Foundation>

### 8.1.2 IT Service Management compliance

- Key staff who deliver services should have foundation or basic level ITSM training and certification
  - ITSM training and certification could include FitSM, ITIL, ISO 20000 etc.
- Key staff and service owners should have advanced/professional training and certification covering the key processes for their services.
- Component Providers should have clear interfaces with the EGI SMS processes and provide the required information.
- Component Providers should commit to improving their management system used to support the services they provide.

## 8.2 Of the Service Provider

The responsibilities of the Service Provider are:

- Raise any issues deemed necessary to the attention of the Component Provider.
- Collect requirements from the Resource infrastructure Providers.
- Support coordination with other EGI services.
- Provide monitoring to measure fulfilment of agreed service level targets.

## 9 Review, extensions and termination

There will be reviews of the service performance against service level targets and of this Agreement at planned intervals with the Service Provider according to the following rules:

- Technical content of the agreement and targets will be reviewed on a yearly basis.
- EGI Foundation shall be entitled to conduct audits or mandate external auditors to conduct audits of suppliers and federation members. These will aim at evaluating the effective provision of the agreed service or service component and execution of activities related to providing and managing the service prior to the commencement of this agreement and then on a regular basis. EGI Foundation will announce audits at least one month in advance. The provider / federation member shall support EGI Foundation and all auditors acting on behalf of EGI Foundation to the best of their ability in carrying out the audits. The provider / federation member is obliged to provide the auditors, upon request, with the information and evidence necessary. Efforts connected to supporting these audits by the provider / federation member will not be reimbursed.