



## EGI VO

# OPERATIONAL LEVEL AGREEMENT

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<b>Service Provider</b>	EGI Foundation
<b>Component Provider</b>	<b>RECAS-BARI</b>
<b>Customer</b>	Terradue/hydrology.terradue.com, geohazards.terradue.com
<b>First day of service delivery</b>	01/01/2016
<b>Last day of service delivery</b>	30/06/2023
<b>Status</b>	FINAL
<b>Agreement finalization date</b>	07/03/2016
<b>SLA and OLA Link</b>	<a href="https://documents.egi.eu/document/2763">https://documents.egi.eu/document/2763</a>
<b>Version</b>	v2.12

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## DOCUMENT LOG

<b>Issue</b>	<b>Date</b>	<b>Comment</b>	<b>Author</b>
<b>FINAL</b>	07/03/2016	OLA signed with the Component Provider	Małgorzata Krakowian Giuseppe La Rocca
<b>v.2</b>	20/01/2018	Updated OLA until 01/2020	Giuseppe La Rocca
<b>v.3</b>	22/11/2019	Updated OLA until 01/2021	Giuseppe La Rocca
<b>v.4</b>	31/03/2021	Extend the OLA with the Component Provider to support the EGI-ACE Early Adopter	Giuseppe La Rocca

## 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 Operational Level Agreement (“the Agreement”) is made between **EGI Foundation (the Service Provider)** and **RECAS-BARI (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.

The European Space Agency (ESA) funded Terradue for the development of the e-Collaboration for Earth Observation (e-CEO) platform, to support on-line Data Challenges where researchers have the opportunity to tackle new research problems in a “parallel and collaborative way” and to facilitate the comparison and evaluation of different problem-solving approaches. The platform is developed and operated by Terradue. The e-CEO platform leverages Terradue’s Cloud Brokering framework (based on OpenNebula), and has been already used with external providers (Interoute, Amazon EC2) and potentially others.

The User is a consortium represented by Terradue.

This Agreement is valid from **01/01/2016 to 30/06/2023**.

Once approved, **this Agreement is automatically renewed**, as long as the Component Provider does not express a decision to terminate the Agreement at least a month before the end date of the Agreement.

The Agreement was discussed and approved by the EGI Foundation and the Component Provider **07/03/2016**.

The Agreement extends the Resource Center OLA<sup>1</sup> with the following information:

## 1 The Services

Possible allocation types:

- **Pledged** - Resources are exclusively reserved to the Community and the job will be executed immediately after submission.
- **Opportunistic** - Resources are not exclusively allocated, but subject to local availability.
- **Time allocation** - Resources are available in fair share-like mode for a fixed time period.

Possible payment mode offer:

- **Sponsored** - Model where the customer uses services that are funded, or co-funded by the European Commission or government grants.
- **Pay-per-use** - Model where customers directly pay for the service used.

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<sup>1</sup> <https://documents.egi.eu/document/31>

The Services are defined by the following properties:

### Cloud Compute (category: Compute)

Description: <https://www.egi.eu/services/cloud-compute/>

- Resource Centre: **RECAS-BARI (Country: Italy)**
  - Cloud Compute
    - Number of Virtual CPU cores: 60 vCPU cores in total
      - Deployer: 2 vCPU cores
      - Primary Server: 8 vCPU cores
      - Secondary Server: 8 vCPU cores
      - No. 8 x YARN client: 32 vCPU cores
      - No. 4 x HDFS client: 8 vCPU cores
      - Internal DNS: 2 vCPU cores
    - Memory: 264GB of RAM in total
      - Deployer: 4GB of RAM
      - Primary Server: 32GB of RAM
      - Secondary Server: 32GB of RAM
      - No. 8 x YARN client: 128GB of RAM
      - No. 4 x HDFS client: 64GB of RAM
      - Internal DNS: 4GB of RAM
    - Local disk (GB): 1.232TB of GB in total
      - Deployer: 64GB
      - Primary Server: 256GB
      - Secondary Server: 256GB
      - No. 8 x YARN client: 384GB
      - No. 4 x HDFS client: 256GB
      - Internal DNS: 16GB
    - Public IP addresses: Yes. Access to the VPN is also provided.
    - Payment mode offer: Sponsored
    - Other technical requirements:
    - Duration: 01/01/2016 – 30/06/2023
  - Access type: Pledged
  - Provider AUP link: <https://documents.egi.eu/document/2623>
  - Supported VOs: [geohazards.terradue.com](https://geohazards.terradue.com)
  - VO ID card: <https://operations-portal.egi.eu/vo/view/voname/geohazards.terradue.com>
  - VO-wide list: <https://appdb.egi.eu/store/vo/geohazards.terradue.com>
  - GOCDB URL: [cloud.recas.ba.infn.it](https://cloud.recas.ba.infn.it) ([org.openstack.nova](https://org.openstack.nova))

### Online Storage (category: Storage)



Description: <https://www.egi.eu/services/online-storage/>

- Resource Centre: **RECAS-BARI (Country: Italy)**
  - Online Storage
    - Guaranteed storage capacity [TB]:
    - Opportunistic storage capacity [TB]: 7
      - No. 8 x YARN client: 3 TB of block storage
      - No. 4 x HDFS client: 4TB of block storage
    - Standard interfaces supported<sup>2</sup>: POSIX
    - Storage technology<sup>3</sup>:
    - Payment mode offer: sponsored
    - Other technical requirements:
    - Duration: 01/01/2016 – 30/06/2023
  - Allocation type: Pledged
  - Provider AUP link: <https://documents.egi.eu/document/2623>
  - Supported VOs: geohazards.terradue.com
  - VO ID card: <https://operations-portal.egi.eu/vo/view/voname/geohazards.terradue.com>
  - GOCDB URL: N/A

## 2 Service hours and exceptions

As defined in Resource Center OLA.

## 3 Support

As defined in Resource Center OLA.

### 3.1 Incident handling

As defined in Resource Center OLA.

### 3.2 Service requests

As defined in Resource Center OLA.

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<sup>2</sup> CDMI, POSIX, SWIFT, etc.

<sup>3</sup> DPM, dCache, STORM, etc.

## 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): 85%

### 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): 90%

### Quality of Support level

- Medium (Section 3)

## 5 Limitations and constraints

As defined in Resource Center OLA and:

- Availability and Reliability calculations are based on the Service Monitoring operational results.
- Failures in VO monitoring are not considered as the Agreement violations.

## 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>EGI Foundation contact</b>	Giuseppe La Rocca <a href="mailto:sla@mailman.egi.eu">sla@mailman.egi.eu</a> SLA Coordinator at EGI Foundation
<b>EGI Foundation technical contact</b>	Matthew Viljoen <a href="mailto:operations@egi.eu">operations@egi.eu</a> Operations manager at EGI Foundation
<b>Component Provider contact</b>	Giacinto Donvito <a href="mailto:giacinto.donvito@ba.infn.it">giacinto.donvito@ba.infn.it</a>
<b>Component Provider technical contact</b>	Marica Antonacci <a href="mailto:marica.antonacci@ba.infn.it">marica.antonacci@ba.infn.it</a>
<b>Service Support contact</b>	See Section 3

## 6.2 Regular reporting

As defined in Resource Center OLA.

## 6.3 Violations

The following rules are agreed for communication in the event of violation:

- In case of violations of the Services targets for **four months** or **two consecutive months**, the Component Provider will provide justifications to EGI Foundation.
- EGI Foundation will notify the supporting Component Provider in case of suspected violation via the EGI Service Desk (Section 3). The case will be analysed to identify the cause and verify the violation.

## 6.4 Escalation and complaints

For escalation and complaints (A customer complaint is a customer's expression of dissatisfaction with an EGI service, either orally or in writing), EGI Foundation contact (section 6.1) point shall be used, and the following rules apply.

- In case of repeated violation of the Services targets for **four months** or **two consecutive months**, a review of the Agreement will take place involving the parties of the Agreement.
- Complaints or concerns about the Services provided directed to the EGI Foundation contact will be shared with the Service Component Provider.

# 7 Information security and data protection

The following rules for information security and data protection related to the Service apply.

- Assertion of absolute security in IT systems is impossible. The Component Provider is making every effort to maximize the security level of users' data and minimise possible harm in the event of an incident.
- The Component Provider will define and abide by an information security and data protection policy related to the service being provided.
- The parties of the Agreement will meet all requirements of any relevant policy or procedure of the Component Provider<sup>4</sup> and will comply with the applicable national legislation.
- The Component Provider holds the role of the data controller.

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<sup>4</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

As defined in Resource Center OLA.

- The Component Provider shall not terminate the virtual machines without agreement with EGI Foundation.

### 8.2 Of the EGI Foundation

As defined in Resource Center OLA and:

- Support coordination with other Component Providers;
- Support coordination and conflict resolution with the User;
- Support the customer with data movement in case of OLA termination.

### 8.3 Of the Customer

- All responsibilities of the User are listed in relevant VO SLA.

## 9 Review, extensions and termination

As defined in Resource Center OLA.