



EGI Pay4Use VO

SERVICE LEVEL AGREEMENT

Customer	Binaré Oy/vo.binare-oy.eu
Service Provider	EGI Foundation
First day of service delivery	22/06/2021
Last day of service delivery	28/02/2022
Status	Final
Agreement finalization date	16/07/2021
Agreement link	https://documents.egi.eu/secure/ShowDocument?docid=3762



This work by EGI Foundation is licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/)

This template is based on work, which was released under a Creative Commons 4.0 Attribution License (CC BY 4.0). It is part of the FitSM Standard family for lightweight IT service management, freely available at www.fitsm.eu.

DOCUMENT LOG

<i>Issue</i>	<i>Date</i>	<i>Comment</i>	<i>Author</i>
FINAL	16/07/2021	Agreed SLA with the Customer	Andrea Manzi Giuseppe La Rocca
2022	06/12/2021	SLA extended	Andrea Manzi 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.

Contents

The Services	4
Service hours and exceptions	6
Support	7
Incident handling	7
Service requests	8
Service level targets	8
Limitations and constraints	8
Communication, reporting and escalation	9
General communication	9
Regular reporting	10
Violations	10
Escalation and complaints	11
Information security and data protection	11
Responsibilities	11
Of EGI Foundation	11
Of the Customer	12
Finance and administration	12
9.1 Service Offers	12
9.2 Invoicing and Payment Schedule	13
Review, extensions and termination	13

The present Service Level Agreement (“the Agreement”) is made between **EGI Foundation (the Service Provider)** and **Binaré Oy/vo.binare-oy.eu (the Customer)** to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

Binaré Oy¹ is a recent spin-off from the University of Jyväskylä (Finland), doing research and development in embedded device and IoT security, Binaré offers both professional services and an automated analysis platform to meet various needs for IoT security. Binaré’s advisory services leverages both the automated platform and the team’s expertise to offer penetration testing and detailed cyber security assessments of IoT devices/firmware in an online environment that closely simulates the real-world.

This Agreement is valid from **22/06/2021** to **28/02/2022**.

The Agreement was discussed and approved by the Customer and the Provider on **16/07/2021**.

1 The Services

All services provided by EGI are listed under: <https://www.egi.eu/services/>

Possible allocation types:

- **Pledged** - Resources are exclusively reserved to the Community
- **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-for-use** - Model where the customer directly pays for the service used.

The Services are defined by the following properties:

Compute	
Resource Centre:	INFN-CLOUD-BARI
Service	Cloud Compute
Number of virtual CPU cores:	320
Memory per core (GB):	A total of 640GB is provided

¹ <https://binare.io/>

Local disk (GB):	5TB of block storage (overall)
Public IP addresses:	12
Allocation type:	Pledged ²
Other technical requirements:	n/a
Payment mode offer:	Per-for-use ³
Duration:	22/06/2021 - 28/02/2022
GOCDDB endpoints URLs	Service: cloud.recas.ba.infn.it - org.openstack.nova
Storage	
Resource Centre	INFN-CLOUD-BARI
Category	Online Storage
Guaranteed storage capacity [TB]:	5.5 TB
Standard interfaces supported:	POSIX
Other technical requirements:	n/a
Duration:	22/06/2021 - 28/02/2022
Payment mode offer:	Pay-for-use
Allocation type:	Pledged
GOCDDB endpoints URLs	Service: cloud.recas.ba.infn.it - org.openstack.nova
Storage	

² Resources are exclusively reserved to the Customer

³ See service offer for specifications (e.g. pricing, administration)

Virtual Organisation	
Supported VOs:	vo.binare-oy.eu
VO ID card:	https://operations-portal.egi.eu/vo/view/voname/vo.binare-oy.eu
Provider AUP link	https://www.recas-bari.it/servizi/recasupload/files/AUP-ReCaS-EN-20210616.pdf
VO-wide list:	https://appdb.egi.eu/store/vo/vo.binare-oy.eu

The Services are supported by additional services:

- Accounting⁴
- Service Monitoring⁵ (EGI operational Virtual Organization only)

Note: Please note that the following services are not provided by EGI Foundation:

- Monitoring of vo.binare-oy.eu
- Monitoring of services provided by the Customer on agreed resources

2 Service hours and exceptions

The Services operate during the following hours: twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year.

The following exceptions apply:

- Planned maintenance windows or service interruptions (“scheduled downtimes”⁶) will be notified via email in a timely manner i.e. 24 hours before the start of the outage⁷.
- Downtime periods exceeding 24 hours need justification.
- Human support is provided during support hours.

⁴ <http://accounting.egi.eu/>

⁵ <http://argo.egi.eu/>

⁶ https://wiki.egi.eu/wiki/GOCDB/Input_System_User_Documentation#Downtimes

⁷ <http://goc.egi.eu/>

3 Support

Support is provided via EGI Service Desk⁸. Access requires a valid X.509 or the login via an EGI SSO account⁹. Support is available between:

- Monday to Friday.
- From 9:00 to 18:00 CET/CEST in the time zone of the relevant Resource Centres.

Service times always apply with the exception of public holidays in the country of the supporting Resource Centres.

3.1 Incident handling

Incidents will be handled according to the Quality of Support level that is estimated according to the impact of the outage or service quality degradation.

The Quality of Support in this Agreement has level: **Medium**¹⁰

Incident priority	Response time
Less urgent	5 working days
Urgent	5 working days
Very Urgent,	1 working day
Top Priority	1 working day

so the incidents, based on their priority will be responded to with the following response times:

Incident priority ¹¹	Response time	Comment
Less urgent	5 working days	wishes and enhancements that are "nice to have"
Urgent	5 working days	service degraded; work-around available
Very Urgent	1 working day	service degraded; no work-around available
Top Priority	1 working day	service interrupted; needs to be addressed as soon as possible

Table 1. Response times to incidents according to the incident priority of "Medium" services

3.2 Service requests

In addition to resolving incidents, standard service requests¹² (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".

⁸ <http://helpdesk.egi.eu/>

⁹ <https://www.egi.eu/sso/>

¹⁰ https://wiki.egi.eu/wiki/FAQ_GGUS-QoS-Levels

¹¹ https://wiki.egi.eu/wiki/FAQ_GGUS-Ticket-Priority

¹² <https://confluence.egi.eu/display/EGISLM/EGI+Service+requests>

4 Service level targets

Monthly Availability

- Defined as the ability of a service to fulfil its intended function at a specific time or over a calendar month.
- Minimum (as an average percentage per month):
 - Cloud Compute: 95%
 - **INFN-CLOUD-BARI**: 95%
 - Online Storage: 95%
 - **INFN-CLOUD-BARI**: 95%

Monthly Reliability

- Defined as the ability of a service to fulfil its intended function at a specific time or over a calendar month, excluding scheduled maintenance periods.
- Minimum (as an average percentage per month):
 - Cloud Compute: 95%
 - **INFN-CLOUD-BARI**: 95%
 - Online Storage: 95%
 - **INFN-CLOUD-BARI**: 95%

Quality of Support level

- **Medium** (Section 3)

5 Limitations and constraints

The Services provisioning is subject to the following limitations and constraints.

- Support is provided in English.
- Availability and Reliability calculations are based on the Service Monitoring operational results.
- Failures in VO monitoring are not considered as SLA violations.
- Downtimes needed to ensure the security of the Service issues are not considered Agreement violations.
- Failures of resource providers not being part of EGI production infrastructure are not considered as Agreement violations.
- The individual service components provide resources may be terminated or replaced due to failure, retirement or other requirement(s). EGI Foundation has no liability for any damages, liabilities, losses (including any corruption, deletion, or destruction or loss of data, applications or profits), or any other consequences resulting from the foregoing.

- In no event will EGI Foundation be liable for any special, incidental, punitive or consequential damages (including, without limitation, lost profits, loss of use, loss of data or loss of goodwill), or the costs of procuring substitute products and / or Services, arising out of or in connection with this agreement or the use or performance of any products and / or Services provided by EGI Foundation hereunder, whether such liability arises from any claim based upon breach of contract, breach of warranty, tort (including negligence), product liability or otherwise. The parties have agreed that these limitations will survive and apply even if any limited remedy specified in this agreement is found to have failed of its essential purpose.
- EGI Foundation liability to the Customer with regards to an individual service is restricted to the total value of any amounts paid by the Customer to EGI Foundation in the previous 12-month period on that individual service.
- Force Majeure. A party shall not be liable for any failure or delay in the performance of this Agreement for the period that such failure or delay is due to causes beyond its reasonable control. Means any
 - fire, flood, earthquake or natural phenomena,
 - war, embargo, riot, civil disorder, rebellion, revolution
 which is beyond the Provider's control, or any other causes beyond the Provider's control.

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.

Customer contact	Andrei Costin (info@binare.io)
Customer technical contact	Andrei Costin (info@binare.io) and Vadim Bogulean (bogulean@gmail.com)
EGI Foundation contact	Andrea Manzi andrea.manzi@egi.eu Data Solutions Manager
EGI Foundation technical contact	Matthew Viljoen operations@egi.eu Operations manager at EGI Foundation
Service Support contact	See Section 3

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
Services Performance Report	The document provides an overall assessment of service performance (per month) and SLA target performance achieved during the last 6 months	Every 6 months, unless otherwise specified/requested by the customer.	EGI Foundation	Email to the Customer
Scientific Publications report	The document provides a list of scientific publications benefiting from the Service.	Yearly and with the Agreement ending.	Customer	During satisfaction review

All reports shall follow predefined templates¹³.

6.3 Violations

The EGI Foundation commits to inform the Customer, if this Agreement is violated or violation is anticipated. 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**, EGI Foundation will provide justifications to the Customer.
 - In case of unavailability of the Component Provider to provide the service, the EGI Foundation will search for a new Component Provider and support migration.
- The Customer 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 should be directed to the EGI Foundation contact who will promptly address these concerns. Should the Customer still feel dissatisfied, about either the result of the response or the behaviour of the supporting Component Provider, complaints@egi.eu should be informed.

¹³ <https://documents.egi.eu/document/2748>

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 Provider¹⁴ and will comply with the applicable national legislation.
- The Component Provider (see Section 1) holds the role of the data controller and should be contacted directly for data subject matters.

8 Responsibilities

8.1 Of EGI Foundation

Additional responsibilities of EGI Foundation are as follows.

- EGI Foundation adheres to all applicable operational and security policies and procedures¹⁵ and to other policy documents referenced therein.
- EGI Foundation monitors the Service in order to measure the fulfilment of the agreed service level targets.
- EGI Foundation retains the right to introduce changes in how the Service is provided, in which case the Provider will promptly inform the Customer and update the Agreement accordingly.

8.2 Of the Customer

The responsibilities of the Customer are:

1. **The customer facilitates the use of EGI acknowledgement by communicating to users the need of adding the following sentence in acknowledgement: "This work used the EGI infrastructure with the dedicated support of INFN-CLOUD-BARI".**
2. The Customer will provide during the Agreement review (yearly) the list of scientific publications benefiting from the Service.
3. The Customer must not share access credentials with anyone else.

¹⁴ https://www.egi.eu/about/policy/policies_procedures.html

¹⁵ https://www.egi.eu/about/policy/policies_procedures.html

4. The data stored in the system by the Customer must not cause any legal violation due to the content type (such as copyright infringement, dual use, illegal material).
5. The use must be consistent with the Acceptable Use Policy¹⁶ of the Service as well as AUP of the provider (if exist).
6. The Customer will notify the Provider in case the actual amount of the Service used results in being under- or over-estimated. The Customer will request an update of the Agreement to ensure optimal usage of the Service.
7. The Customer must request EGI Service Desk support¹⁷ to enable assigning tickets with appropriate VO name.
8. When applicable, the Customer is responsible for ensuring that the Virtual Machine images endorsed and listed in the AppDB¹⁸ VO image lists are properly maintained and updated.
9. The Customer is responsible for the management of their own data including movement or removal of the data once the agreement is terminated.

9 Review, extensions and termination

This agreement is subject to review on an annual basis (at the end of the calendar year from the service delivery date) by which a customer performance validation will be conducted and a report produced (see Section 6.2).

The continuation of this agreement is subject to successfully meeting customer performance requirements outlined in Section 4.

Reviews of the agreement can be performed at any time by written request by any party.

If the Customer wishes to extend the duration after the Agreement termination date, an extension will be negotiated with EGI Foundation.

EGI Foundation retains the right to introduce changes in the Service, in which case the Customer retains the right of terminating the Agreement.

The Agreement can be terminated at any time upon agreement of the parties. Amendments, comments and suggestions must be addressed to EGI Foundation and the Customer according to Section 6.

¹⁶ <https://documents.egi.eu/document/74>

¹⁷ https://wiki.egi.eu/wiki/FAQ_GGUS-New-Support-Unit

¹⁸ <https://appdb.egi.eu/>