

**EGI VO**

**SERVICE LEVEL AGREEMENT**

|  |  |
| --- | --- |
| **Customer** | [User community]/[VO name] |
| **Provider** | EGI Foundation |
| **First day of service delivery** | [start date] |
| **Last day of service delivery** | [end date] |
| **Status** | [Draft/Final] |
| **Agreement finalization date** | [date of final agreement] |
| **SLA link** | [link to grant in e-grant] |
| **OLA Link** | [link to grant in e-grant] |

**DOCUMENT LOG**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Issue*** | ***Date*** | ***Comment*** | ***Author*** |
|  |  |  | Giuseppe La Rocca  Małgorzata Krakowian |

**TERMINOLOGY**

The EGI glossary of terms is available at: [https://wiki.egi.eu/wiki/Glossary](https://wiki.egi.eu/wiki/Glossary%20)

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**

[1 The Services 4](#_Toc459031775)

[2 Service hours and exceptions 6](#_Toc459031776)

[3 Support 6](#_Toc459031777)

[3.1 Incident handling 6](#_Toc459031778)

[3.2 Service requests 7](#_Toc459031779)

[4 Service level targets 7](#_Toc459031780)

[5 Limitations and constraints 8](#_Toc459031781)

[6 Communication, reporting and escalation 8](#_Toc459031782)

[6.1 General communication 8](#_Toc459031783)

[6.2 Regular reporting 9](#_Toc459031784)

[6.3 Violations 9](#_Toc459031785)

[6.4 Escalation and complaints 10](#_Toc459031786)

[7 Information security and data protection 10](#_Toc459031787)

[8 Responsibilities 10](#_Toc459031788)

[8.1 Of the Provider 10](#_Toc459031789)

[8.2 Of the Customer 11](#_Toc459031790)

[9 Review, extensions and termination 11](#_Toc459031791)

The present Service Level Agreement (“the Agreement’) is made between **EGI Foundation (the Provider)** and **[User Community name]/[VO name]** **(the Customer)** to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

**[User Community short description]**

The Customer is a consortium represented by the **[Institute name]**.

This Agreement is valid from **[start date]** to **[end date]**.

The Agreement was discussed and approved by the Customer and the Provider on **[date]**.

# The Services

Possible access 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.

The Services are defined by the following properties:

**Cloud Compute (category: Compute)**

Cloud Compute gives you the ability to deploy and scale virtual machines on­-demand. It offers guaranteed computational resources in a secure and isolated environment with standard API access, without the overhead of managing physical servers. Cloud Compute offers the possibility to select pre­configured virtual appliances (e.g. CPU, memory, disk, operating system or software) from a catalogue replicated across all EGI cloud providers.

* Resource Centre: [resource provider 1] [Country]
  + Cloud Compute
    - Number of Virtual CPU cores:
    - Memory:
    - Scratch/ephemeral storage:
    - Public IP addresses:
    - Payment mode offer:
    - Other technical requirements:
    - Duration:
    - Supported VOs:
    - Access type:
  + VO ID card:
  + VO-wide list:

**High-Throughput Compute** **(category: Compute) and Online Storage (category: Storage)**

With High­Throughput Compute you can run computational jobs at scale on the EGI infrastructure. It allows you to analyse large datasets and execute thousands of parallel computing tasks. High­Throughput Compute is provided by a distributed network of computing centres, accessible via a standard interface and membership of a virtual organisation. EGI offers more than 650,000 cores of installed capacity, supporting about 1.6 million computing jobs per day. This service supports research and innovation at all scales: from individuals to large collaborations.

Online Storage allows you to store data in a reliable and high-quality environment and share it across distributed teams. Your data can be accessed through different standard protocols and can be replicated across different providers to increase fault-tolerance. Online Storage gives you complete control over the data you share and with whom.

* Resource Centre: [resource provider 1] [Country]
  + High-Throughput Compute
    - Guaranteed computing time [HEPSPEC-hours]:
    - Opportunistic computing time [HEPSPEC-hours]:
    - Max job duration [hours]:
    - Min local storage [GB] (scratch space per each core used by the job):
    - Min physical memory per core [GB]:
    - Middleware:
    - Other technical requirements:
    - Duration:
  + Online Storage
    - Guaranteed storage capacity [TB]:
    - Opportunistic storage capacity [TB]:
    - Other technical requirements:
    - Duration:
  + Access type:
  + Supported VOs:
* VO ID card:

The Services are supported by additional services:

* Accounting[[1]](#footnote-1)
* Service Monitoring[[2]](#footnote-2) (operational only)

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

* Monitoring of [VO name]
* Monitoring of services provided by the Customer on agreed resources

# 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”[[3]](#footnote-3)) will be notified via e-mail in a timely manner i.e. 24 hours before the start of the outage[[4]](#footnote-4).
* Downtime periods exceeding 24 hours need justification.

# Support

Support is provided via EGI Service Desk[[5]](#footnote-5). Access requires a valid X.509 or the login via a EGI SSO account[[6]](#footnote-6). Support is available between:

* Monday to Friday.
* From 9:00 to 17:00 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.

## 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[[7]](#footnote-7)**

|  |  |
| --- | --- |
| **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[[8]](#footnote-8)** | **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**

## 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”.

# 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):
  + Service [name]: XX%
    - resource provider 1: XX%
    - resource provider 2: XX%
  + Service [name]: XX%
    - resource provider 1: XX%
    - resource provider 2: XX%

**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):
  + Service [name]: XX%
    - resource provider 1: XX%
    - resource provider 2: XX%
  + Service [name]: XX%
    - resource provider 1: XX%
    - resource provider 2: XX%

**Quality of Support level**

* Medium (Section 3)

# 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 provider not being part of EGI production infrastructure are not considered as Agreement violations.
* Force Majeure. A party shall not be liable for any failure of 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

# Communication, reporting and escalation

## General communication

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

|  |  |
| --- | --- |
| **Customer contact** | [name]  [email]  [title] |
| **EGI Foundation contact** | Małgorzata Krakowian  [sla@mailman.egi.eu](mailto:sla@mailman.egi.eu)  SLA Coordinator at EGI Foundation |
| **Service Support contact** | See Section 3 |

## 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 the overall assessment of service performance (per month) and SLA target performance achieved during last 6 months | Every six months | Provider | Email to the Customer |
| Platform Service report | The document provides usage records (resources used, users) of the Customer service during last 6 months | Yearly and with the Agreement ending. | Customer | Email to the Provider |
| Scientific Publications report | The document provides list of scientific publications benefiting from the Service. | Yearly and with the Agreement ending. | Customer | Email to the Provider |

All reports shall follow predefined templates[[9]](#footnote-9).

## Violations

The Provider 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 three consecutive months, the Provider will provide justifications and a plan for Services enhancement to the Customer. The 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 Customer will notify the supporting Resource Centres 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.

## 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.**), the Provider contact (section 6.1) point shall be used, and the following rules apply.

* In case of repeated violation of the Services targets for four consecutive 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 Provider 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 Resource Centres, EGI Foundation Director [director@egi.eu](http://director@egi.eu) should be informed.

# 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 Provider is making every effort to maximize security level of users’ data and minimalize possible harm in the event of an incident.
* The 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 Provider[[10]](#footnote-10) and will comply with the applicable national legislations.

# Responsibilities

## Of the Provider

Additional responsibilities of the Provider are as follows.

* The Provider adheres to all applicable operational and security policies and procedures[[11]](#footnote-11) and to other policy documents referenced therein.
* The Provider allows monitoring of the Service in order to measure the fulfilment of the agreed service level targets.
* The Provider 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.

## Of the Customer

The responsibilities of the Customer are:

* 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 [resource provider 1] and [resource provider 2]”
* The Customer will provide during Agreement review (yearly) list of scientific publications benefiting from the Service.
* The Customer must not share access credentials with anyone else.
* 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).
* The use must be consistent with the Acceptable Use Policy[[12]](#footnote-12) of the Service.
* 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.
* The Customer will create one or more Virtual Organizations (VOs) to define the group of users entitled to access the Service. Information about the VO will be regularly updated in EGI Operations Portal[[13]](#footnote-13).
* The Customer must request EGI Service Desk support[[14]](#footnote-14) to enable assigning tickets with appropriate VO name.
* When applicable, the Customer is responsible of ensuring that the Virtual Machine images endorsed and listed in the AppDB[[15]](#footnote-15) VO image list are properly maintained and updated.

# Review, extensions and termination

The Services performance will be reviewed against the defined Service level targets according to Section 4. The Agreement will be annually reviewed until expiration.

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

The Provider 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 tothe Provider and the Customer according to Section 6.

1. <http://accounting.egi.eu/> [↑](#footnote-ref-1)
2. <http://argo.egi.eu/> [↑](#footnote-ref-2)
3. <https://wiki.egi.eu/wiki/GOCDB/Input_System_User_Documentation#Downtimes> [↑](#footnote-ref-3)
4. <http://goc.egi.eu/> [↑](#footnote-ref-4)
5. <http://helpdesk.egi.eu/> [↑](#footnote-ref-5)
6. <https://www.egi.eu/sso/> [↑](#footnote-ref-6)
7. <https://wiki.egi.eu/wiki/FAQ_GGUS-QoS-Levels> [↑](#footnote-ref-7)
8. <https://wiki.egi.eu/wiki/FAQ_GGUS-Ticket-Priority> [↑](#footnote-ref-8)
9. <https://documents.egi.eu/document/2748> [↑](#footnote-ref-9)
10. <https://www.egi.eu/about/policy/policies_procedures.html> [↑](#footnote-ref-10)
11. <https://www.egi.eu/about/policy/policies_procedures.html> [↑](#footnote-ref-11)
12. <https://documents.egi.eu/document/74> [↑](#footnote-ref-12)
13. <http://operations-portal.egi.eu/> [↑](#footnote-ref-13)
14. <https://wiki.egi.eu/wiki/FAQ_GGUS-New-Support-Unit> [↑](#footnote-ref-14)
15. <https://appdb.egi.eu/> [↑](#footnote-ref-15)