

**EGI VO**

**SERVICE LEVEL AGREEMENT**

|  |  |
| --- | --- |
| **Customer** | [User community]/[VO name] |
| **Service 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] |
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**DOCUMENT LOG**

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| --- | --- | --- | --- |
| ***Issue*** | ***Date*** | ***Comment*** | ***Author*** |
|  |  |  |  |

**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.

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The present Service Level Agreement (“the Agreement’) is made between **EGI Foundation (the Service 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]**.

The Component providers are delivering a part of the Service(s) and are listed in section 1.

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

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

# 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 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-for-use** - Model where the Customer directly pays for the Services used.

The Services are defined by the following properties:

**Cloud Compute (category: Compute)**

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

* Component Provider:
	+ Cloud Compute
		- Number of virtual CPU cores:
		- Number of GPU Cores:
		- Number of CPU Cores per GPU Core:
		- Memory per core (GB):
		- Local disk (GB):
		- Public IP addresses:
		- Payment mode offer: Sponsored
		- Other technical requirements:
		- Duration:
	+ Allocation type:
	+ Provider AUP link:
	+ Supported VOs:
	+ VO ID card:
	+ VO-wide list:

**Cloud Container Compute (category: Compute)**

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

* Component Provider:
	+ Cloud Compute
		- Number of virtual CPU cores:
		- Number of GPU Cores:
		- Number of CPU Cores per GPU Core:
		- Memory per core (GB):
		- Local disk (GB):
		- Public IP addresses:
		- Payment mode offer: Sponsored
		- Other technical requirements:
		- Duration:
	+ Allocation type:
	+ Provider AUP link:
	+ Supported VOs:
	+ VO ID card:
	+ VO-wide list:

**High-Throughput Compute** **(category: Compute)**

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

* Component Provider:
	+ 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):
		- Max number of cores per node:
		- Min physical memory per core [GB]:
		- Middleware:
		- Other technical requirements:
		- Duration:
		- Payment mode offer: Sponsored
	+ Allocation type:
	+ Provider AUP link:
	+ Supported VOs:
	+ VO ID card:

**Workload Manager (category: Compute)**

Description: <https://www.egi.eu/services/workload-manager/>

* Support for CVMFS: enabled/disabled
* CVMFS SW path: text (in case the support it's enabled)
* Duration:
* Supported VOs:

**Online Storage (category: Storage)**

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

* Component Provider:
	+ Online Storage
		- Guaranteed storage capacity [TB]:
		- Opportunistic storage capacity [TB]:
		- Standard interfaces supported[[1]](#footnote-0):
		- Storage technology[[2]](#footnote-1):
		- Other technical requirements:
		- Duration:
		- Payment mode offer: Sponsored
	+ Allocation type:
	+ Provider AUP link:
	+ Supported VOs:
	+ VO ID card:

**Notebooks (category: Applications)**

Description: <https://www.egi.eu/services/notebooks/>

* Component Provider:
	+ Notebooks
		- Number of users:
		- Cores per user:
		- Memory per user (GB):
		- Storage per user (GB):
		- Allocation type:
		- Payment mode offer: Sponsored
		- Other technical requirements:
		- Duration:
		- Supported VOs:

**Check-In (category: Security)**

Description: <https://www.egi.eu/services/check-in/>

* Component Provider:
	+ Check-In (as community AAI/IdP):
		- Deployment Type[[3]](#footnote-2):
		- AAI protocol[[4]](#footnote-3):
		- Authentication options (select all that apply)[[5]](#footnote-4):
		- User registration and group management service operated by[[6]](#footnote-5):
		- User registration and group management[[7]](#footnote-6):
		- Access to the e-infrastructure services[[8]](#footnote-7):
	+ Check-In (for services/resource providers):
		- AAI protocol:
		- Communities able to access the resources[[9]](#footnote-8):
	+ Check-In (as a bridge to EGI services/resources):
		- AAI protocol:
		- Link to the AAI solution:
		- EGI services to be connected:

**Data Transfer (category: Storage and Data)**

Description: <https://www.egi.eu/services/data-transfer/>

* Duration:
* Supported VOs:

**DataHub (category: Storage and Data)**

Description: <https://www.egi.eu/services/datahub/>

* Component Provider:
	+ Access Data[[10]](#footnote-9):
		- Access mechanism[[11]](#footnote-10):
		- Name of the space:
	+ Build your own DataHub[[12]](#footnote-11):
		- Hosted by:
			* List of resource providers:
			* Storage capacity:
			* Enable Notebooks support?: Yes/No
			* Number of VM:
			* Number of virtual CPU cores:
			* Memory per core (GB):
			* Local disk (GB):
			* Requested dataset:
		- Hosted on own infrastructure:
			* Connecting to EGI DataHub/central onezone:
				+ Oneproviders IP:
				+ Domain names:
				+ Name of the supported dataset/space (optional):
	+ Publish Data[[13]](#footnote-12):
		- Name of the space:
		- Amount of storage space:
		- Access type[[14]](#footnote-13):
	+ Duration:

The Services are supported by additional services:

* Accounting[[15]](#footnote-14)
* Service Monitoring[[16]](#footnote-15) (EGI operational Virtual Organization only)

Note: Please note that the 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”[[17]](#footnote-16)) will be notified via email in a timely manner i.e. 24 hours before the start of the outage[[18]](#footnote-17).
* Downtime periods exceeding 24 hours need justification.

# Support

Support is provided via EGI Service Desk[[19]](#footnote-18). Access requires a valid X.509 or the login via an EGI SSO account[[20]](#footnote-19). 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[[21]](#footnote-20)**

|  |  |
| --- | --- |
| **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[[22]](#footnote-21)** | **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 (<https://wiki.egi.eu/wiki/EGI_Service_requests>) 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%
		- Component Provider 1: XX%
		- Component Provider 2: XX%
	+ Service [name]: XX%
		- Component Provider 1: XX%
		- Component 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%
		- Component Provider 1: XX%
		- Component Provider 2: XX%
	+ Service [name]: XX%
		- Component Provider 1: XX%
		- Component 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 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.
* 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

# Communication, reporting and escalation

## General communication

The following contacts will be generally used for communications related to the Service(s) in the scope of this Agreement.

|  |  |
| --- | --- |
| **Customer contact** | [name][email] [title] |
| **Customer technical contact** | [name][email] [title] |
| **EGI Foundation contact** | Giuseppe La Roccasla@mailman.egi.eu SLA Coordinator at EGI Foundation  |
| **EGI Foundation technical contact** | Matthew Viljoen operations@egi.eu Operations manager at EGI Foundation |
| **Service Support contact** | See Section 3 |

## Regular reporting

As part of the fulfilment of this Agreement and provisioning of the Service(s), 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 six months | 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 |

**Service Performance Report:**

* EGI Foundation will provide every six month a written report about the performance of the Service(s) with the justification of any underperforming and SLA violation.

**Scientific Publication report:**

* The Customer will provide a list of publications supported by the Service(s) and acknowledging the usage of the Service(s).
**The acknowledgement statement specified in Section 8.2 shall be included in the Customer's website and reported in any scientific publications profiting from the use of the Services defined in Section 1.**

All reports shall follow predefined templates[[23]](#footnote-22).

## 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(s), 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.

## 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.

# Information security and data protection

The following rules for information security and data protection related to the Service(s) 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(s) being provided.
* The parties of the Agreement will meet all requirements of any relevant policy or procedure of the Provider[[24]](#footnote-23) 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.

# Responsibilities

## Of EGI Foundation

Additional responsibilities of EGI Foundation are as follows.

* EGI Foundation adheres to all applicable operational and security policies and procedures[[25]](#footnote-24) and to other policy documents referenced therein.
* EGI Foundation monitors the Service(s) and its components 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 Service 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(s) defined in Section 1.
* 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).
* By default, the data stored in the Service Provider by the Customer are not backed-up except if explicitly specified in the Agreement.
* The use must be consistent with the Acceptable Use Policy (AUP)[[26]](#footnote-25) of the Service as well as AUP of the Service Provider (if exist).
* The Customer will notify the Service Provider in case the actual amount of the Service(s) used results in being under- or over-estimated. The Customer will request an update of the Agreement to ensure optimal usage of the Service(s).
* The Customer will create, with the support of the Service Provider, 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[[27]](#footnote-26).
* The Customer must request EGI Service Desk support[[28]](#footnote-27) to enable assigning tickets with appropriate VO name.
* When applicable, the Customer is responsible for ensuring that the Virtual Machine images endorsed and listed in the AppDB[[29]](#footnote-28) VO image lists are properly maintained and updated.
* The Customer is responsible for the management of their own data including movement or removal of the date once the agreement is terminated.

# 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 EGI Foundation. **The extension of the agreement between the Customer and the Service Provider shall be justified upon the receiving of a list of scientific publications produced during the duration of the agreement, and the effective use of the Service(s) as reported in the EGI Accounting Portal[[30]](#footnote-29).**

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 toEGI Foundation and the Customer according to Section 6.

1. CDMI, POSIX, SWIFT, etc. [↑](#footnote-ref-0)
2. DPM, dCache, STORM, etc. [↑](#footnote-ref-1)
3. Shared, Dedicated [↑](#footnote-ref-2)
4. OIDC, SAML (multiple option can be selected) [↑](#footnote-ref-3)
5. eduGAIN, ORCID, Google, Facebook, LinkedIn, X.509 digital certificates, Other (please specify) [↑](#footnote-ref-4)
6. Community, EGI [↑](#footnote-ref-5)
7. COmanage, Perun, VOMS, ask EGI support to choose the group management technology, Other (customer can specify other group management systems) [↑](#footnote-ref-6)
8. EGI, EUDAT, GEANT (multiple options can be selected) [↑](#footnote-ref-7)
9. All, custom list of communities [↑](#footnote-ref-8)
10. For Data Consumers to access datasets stored in existing DataHub Oneproviders [↑](#footnote-ref-9)
11. onclient, REST, CMDI, or web interface [↑](#footnote-ref-10)
12. For User Communities to deploy a customised "DataHub" instance. For Data Consumers who want/need to have data storage closer to their computing resources. For Storage Providers supporting data publishers willing to expose their data. [↑](#footnote-ref-11)
13. For Data Publishers to publish their own data [↑](#footnote-ref-12)
14. private, private to VO, public (ACL may be managed by the user) [↑](#footnote-ref-13)
15. <http://accounting.egi.eu/> [↑](#footnote-ref-14)
16. <http://argo.egi.eu/> [↑](#footnote-ref-15)
17. <https://wiki.egi.eu/wiki/GOCDB/Input_System_User_Documentation#Downtimes> [↑](#footnote-ref-16)
18. <http://goc.egi.eu/> [↑](#footnote-ref-17)
19. <http://helpdesk.egi.eu/> [↑](#footnote-ref-18)
20. <https://www.egi.eu/sso/> [↑](#footnote-ref-19)
21. <https://wiki.egi.eu/wiki/FAQ_GGUS-QoS-Levels> [↑](#footnote-ref-20)
22. <https://wiki.egi.eu/wiki/FAQ_GGUS-Ticket-Priority> [↑](#footnote-ref-21)
23. <https://documents.egi.eu/document/2748> [↑](#footnote-ref-22)
24. <https://www.egi.eu/about/policy/policies_procedures.html> [↑](#footnote-ref-23)
25. <https://www.egi.eu/about/policy/policies_procedures.html> [↑](#footnote-ref-24)
26. <https://documents.egi.eu/document/74> [↑](#footnote-ref-25)
27. <http://operations-portal.egi.eu/> [↑](#footnote-ref-26)
28. <https://wiki.egi.eu/wiki/FAQ_GGUS-New-Support-Unit> [↑](#footnote-ref-27)
29. <https://appdb.egi.eu/> [↑](#footnote-ref-28)
30. <https://accounting.egi.eu/> [↑](#footnote-ref-29)