

EGI VO SERVICE LEVEL AGREEMENT

Customer NextGEOSS

Provider EGI Foundation

First day of service delivery 01/03/2018

Last day of service delivery 31/05/2020

Status FINAL

Agreement finalization date 28/11/2017

SLA link https://documents.egi.eu/document/3388

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DOCUMENT LOG

Issue	Date	Comment	Author
FINAL	28/11/2017	SLA agreed with the customer.	Giuseppe La Rocca
			Małgorzata Krakowian
V1	14/12/2018	The provider has extended the RAM of one node of the CKAN cluster from 16GB to 32GB. Updated the OLA	Giuseppe La Rocca
V2	21/02/2019	Added the provider for supporting the	Giuseppe La Rocca
V2	21/02/2019	Community Feedback Mechanism core service	Giuseppe La косса
	24/07/2019	change name of the provider from CESNET-	Małgorzata Krakowian
		MetaCloud to CESNET-MCC	

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 Service Level Agreement ("the Agreement') is made between **EGI Foundation (the Provider)** and **NextGEOSS (the Customer)** to define the provision and support of the provided services as described hereafter to support the following NextGEOSS central services:

- CKAN cluster;
- User Management Service;
- JIRA;
- Community Feedback Mechanism;
- Geo Pilot Analytic Engine.

Representatives and contact information are defined in Section 6.

The NextGEOSS project, a European contribution to GEOSS, proposes to develop the next generation centralised hub for Earth Observation data, where the users can connect to access data and deploy EO-based applications. The concept revolves around providing the data and resources to the users communities, together with Cloud resources, seamlessly connected to provide an integrated ecosystem for supporting applications.

The Customer is a consortium represented by **NextGEOSS**.

This Agreement is valid from 01/03/2018 to 31/05/2020.

The Agreement was discussed and approved by the Customer and the Provider on 28/11/2017.

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 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 customer directly pay for the service used.

The Services are defined by the following properties:

Cloud Compute (category: Compute)

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

• Resource Centre: CESNET-MCC (Country: Czech Republic)



Cloud Compute for the CKAN cluster

Number of virtual CPU cores: 42

1 Master: 2 vCPU cores5 Slaves: 8 vCPU cores

Memory per core (GB): 104 GB

1 Master: 8GB1 Slave: 32GB4 Slaves: 16GB

Local disk (GB):

Public IP addresses: 5Allocation type: Pledged

Payment mode offer: SponsoredOther technical requirements:

Duration: 01/03/2018 – 31/05/2020
 Supported VOs: vo.nextgeoss.eu

Cloud Compute for Geo Pilot – Analytics Engine

Number of virtual CPU cores: 2

Memory per core (GB): 8GB

■ Local disk (GB):

Public IP addresses:

Allocation type: Pledged

Payment mode offer: Sponsored

Other technical requirements:

Duration: 01/08/2018 – 31/05/2020

Supported VOs: vo.nextgeoss.eu

o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu

o VO-wide list: https://appdb.egi.eu/store/vo/vo.nextgeoss.eu/image.list

• Resource Centre: BEgrid-BELNET (Country: Belgium)

Cloud Compute for the User Management Service

Number of virtual CPU cores: 8 cores

Memory per core (GB): 16GB

Local disk (GB):

Public IP addresses: 1Allocation type: Pledged

Payment mode offer: Sponsored

Other technical requirements:

Duration: 01/03/2018 – 31/05/2020

Supported VOs: vo.nextgeoss.eu



- o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu
- o VO-wide list: https://appdb.egi.eu/store/vo/vo.nextgeoss.eu/image.ist
- Resource Centre: IISAS-FedCloud (Country: Slovak)
 - o Cloud Compute for the JIRA Service
 - Number of virtual CPU cores: 4 cores
 - Memory per core (GB): 8GB
 - Local disk (GB): 80Public IP addresses: 1
 - Allocation type: Pledged
 - Payment mode offer: Sponsored
 - Other technical requirements:
 - Duration: 01/03/2018 31/05/2020
 - Supported VOs: vo.nextgeoss.eu
 - o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu
 - o VO-wide list: https://appdb.egi.eu/store/vo/vo.nextgeoss.eu/image.list
- Resource Centre: CESGA (Country: Spain)
 - o Cloud Compute for the **Community Feedback Mechanism**
 - Number of virtual CPU cores: 12
 - 6 VMs with 1 public IP address
 - Memory per core (GB): 18 GB
 - Local disk (GB): 10 per VM
 - Public IP addresses: 1
 - Allocation type: Pledged
 - Payment mode offer: Sponsored
 - Other technical requirements: OS Windows 2008 S1 Enterprise. Load Balance Network responding to a single IP.
 - Duration: 01/01/2019 31/05/2020
 - Supported VOs: vo.nextgeoss.eu
 - o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu
 - o VO-wide list: https://appdb.egi.eu/store/vo/vo.nextgeoss.eu/image.list

Online Storage (category: Storage)

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

- Resource Centre: CESNET-MCC (Country: Czech Republic)
 - o Block Storage for the **CKAN cluster**
 - Guaranteed storage capacity [TB]: 0.6



1 Master: 0.1 TB5 Slaves: 0.5 TB

Opportunistic storage capacity [TB]:

Standard interfaces supported¹: POSIX

Storage technology²: Not specified

Other technical requirements:

Duration: 01/03/2018 – 31/05/2020

- o Block Storage for **Geo Pilot Analytics Engine**
- Guaranteed storage capacity [TB]: 0.2
- Opportunistic storage capacity [TB]:
 - Standard interfaces supported³: POSIX
 - Storage technology⁴: Not specified
 - Other technical requirements:
 - Duration: 01/08/2018 31/05/2020
- Payment mode offer: Sponsored
- o Allocation type: Pledged
- o Supported VOs: vo.nextgeoss.eu
- o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu
- Resource Centre: BEgrid-BELNET (Country: Belgium)
 - o Block Storage for the **User Management Service**
 - Guaranteed storage capacity [TB]: 0.3
 - Opportunistic storage capacity [TB]:
 - Standard interfaces supported: POSIX
 - Storage technology: Not specified
 - Other technical requirements:
 - Duration: 01/03/2018 31/05/2020
 - Payment mode offer: Sponsored
 - Allocation type: Pledged
 - Supported VOs: vo.nextgeoss.eu
 - o VO ID card: https://operations-portal.egi.eu/vo/view/voname/vo.nextgeoss.eu

The Services are supported by additional services:

Accounting⁵

⁴ DPM, dCache, STORM, etc.



¹ CDMI, POSIX, SWIFT, etc.

² DPM, dCache, STORM, etc.

³ CDMI, POSIX, SWIFT, etc.

• Service Monitoring⁶ (operational only)

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

- Monitoring of the vo.nextgeoss.eu VO
- 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") will be notified via e-mail in a timely manner i.e. 24 hours before the start of the outage⁸.
- Downtime periods exceeding 24 hours need justification.

3 Support

Support is provided via EGI Service Desk⁹. Access requires a valid X.509 or the login via a EGI SSO account¹⁰. 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.

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: Medium¹¹

Incident priority	Response time

⁵ http://accounting.egi.eu/

¹¹ https://wiki.egi.eu/wiki/FAQ GGUS-QoS-Levels



⁶ http://argo.egi.eu/

⁷ https://wiki.egi.eu/wiki/GOCDB/Input System User Documentation#Downtimes

⁸ http://goc.egi.eu/

⁹ http://helpdesk.egi.eu/

¹⁰ https://www.egi.eu/sso/

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 ¹²	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 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".

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):
 - o Cloud Compute: 90%

CESNET-MCC: 90%BEgrid-BELNET: 90%IISAS-FedCloud: 90%

CESGA: 90%

o Online Storage: 90%

CESNET-MCC: 90%BEgrid-BELNET: 90%

¹² https://wiki.egi.eu/wiki/FAQ GGUS-Ticket-Priority



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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):

O Cloud Compute: 95%

CESNET-MCC: 95%BEgrid-BELNET: 95%IISAS-FedCloud: 95%

CESGA: 95%Online Storage: 95%

CESNET-MCC: 95%BEgrid-BELNET: 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 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
 - o 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	Nuno Catarino	
	nuno.catarino@deimos.com.pt	
EGI Foundation contact	Małgorzata Krakowian	
	sla@mailman.egi.eu	
	SLA Coordinator 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 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
Scientific Publications report	The document provides list of scientific publications benefiting from the Service.	Yearly and with the Agreement ending.	Customer	During satisfaction review
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	During satisfaction review



All reports shall follow predefined templates¹³.

6.3 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 to the Customer.
 - o In case of unavailability of the Resource Provider to provide the service, the Provider will search for a new Resource Provider and support migration.
- 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.

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.), 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 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, complaints@egi.eu should be informed.

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 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 Provider¹⁴ and will comply with the applicable national legislations.

¹⁴ https://www.egi.eu/about/policy/policies procedures.html



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

8 Responsibilities

8.1 Of the Provider

Additional responsibilities of the Provider are as follows.

- The Provider adheres to all applicable operational and security policies and procedures¹⁵ 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.

8.2 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 CESNET-MCC, BEgrid-BELNET, CESGA and IISAS-FedCloud".
- 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 Policy¹⁶ 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 Portal¹⁷.
- The Customer must request EGI Service Desk support¹⁸ to enable assigning tickets with appropriate VO name.

¹⁸ https://wiki.egi.eu/wiki/FAQ GGUS-New-Support-Unit



¹⁵ https://www.egi.eu/about/policy/policies procedures.html

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

¹⁷ http://operations-portal.egi.eu/

• When applicable, the Customer is responsible of ensuring that the Virtual Machine images endorsed and listed in the AppDB¹⁹ VO image list are properly maintained and updated.

9 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 to the Provider and the Customer according to Section 6.

¹⁹ https://appdb.egi.eu/



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