



EGI VO

OPERATIONAL LEVEL AGREEMENT

Service Provider	EGI Foundation
Component Provider	CESNET-MCC
Customer	IceCube Neutrino Observatory/VO:icecube
First day of service delivery	01/01/2022
Last day of service delivery	30/06/2023
Status	FINAL
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DOCUMENT LOG

<i>Issue</i>	<i>Date</i>	<i>Comment</i>	<i>Author</i>
FINAL	01/02/2022	Agreed OLA with the provider to support the IceCube Collaboration	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	5
Service hours and exceptions	9
Support	9
Incident handling	9
Service requests	10
Service level targets	10
Limitations and constraints	10
Communication, reporting and escalation	10
General communication	10
Regular reporting	11
Violations	11
Escalation and complaints	11
Information security and data protection	12
Responsibilities	13
Of the Component Provider	13
Of EGI Foundation	13
Of the Customer	14
Review, extensions and termination	14
References	14

The present Operational Level Agreement (“the Agreement”) is made between **EGI Foundation (the Service Provider)** and **CESNET-MCC (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.

IceCube¹ is the world’s premier facility to detect neutrinos with energies above approximately 10 GeV. It is a pillar for NSF’s MMA program, one of the top 10 NSF priorities. The detector is located at the geographic South Pole, and was completed at the end of 2010. It is designed to detect interaction of neutrinos of astrophysical origin by instrumenting over a gigaton of polar ice with 5,160 optical sensors. The sensors are buried between 1,450 and 2,450 meters below the surface of the South Pole ice sheet in a hexagonal grid. The project is a recognized CERN experiment (RE10).

The IceCube collaboration² has discovered extremely energetic neutrinos from the cosmos and initiated a joint neutrino-electromagnetic emission MMA observation which found the first confirmed high-energy astrophysical neutrino point source from the active galactic nucleus TXS 05060+056. This former discovery was recognized as the Physics World Breakthrough of the Year Award for 2013. The latter made IceCube one of the pillars on which the NSF is building an MMA program that has been declared a high-level priority area for the future.

The Customer is a consortium represented by the **University of Wisconsin-Madison**³.

This Agreement is valid from **01/01/2022** 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 on **01/02/2022**.

The Agreement extends the Resource Centre OLA [1] with the following information:

1 The 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 for a fixed time period.

Possible payment mode offer:

¹ <https://icecube.wisc.edu/>

² <https://icecube.wisc.edu/collaboration/meet-the-collaboration/>

³ <https://www.wisc.edu/>

- **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:

Cloud Compute (category: Compute)

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

- Resource Centre: **CESNET-MCC (Country: Czech Republic)**
 - Cloud Compute
 - Number of CPU Cores per GPU Core: VM with 2 GPUs, 64 CPU cores (NVIDIA T4)
 - Memory per core (GB): up to 3TB in total⁴
 - Local disk (GB):
 - Public IP addresses: Available on request
 - Payment mode offer: Sponsored
 - Other technical requirements:
 - Duration: 01/01/2022 - 30/06/2023
 - Allocation type: Pledged
 - Provider AUP link: <https://documents.egi.eu/document/2623>
 - Supported VOs: icecube
 - VO ID card: <https://operations-portal.in2p3.fr/vo/view/voname/icecube>
 - VO-wide list: <https://vmcaster.appdb.egi.eu/store/vo/icecube/image.list>
 - GOCDB endpoints urls: identity.cloud.muni.cz (org.openstack.nova)

Online Storage (category: Storage)

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

- Resource Centre: **CESNET-MCC (Country: Czech Republic)**
 - Online Storage
 - Guaranteed storage capacity [TB]: 1
 - Opportunistic storage capacity [TB]:

⁴ CESNET-MCC flavors:

hpc.8core-64ram-nvidia-1080-glados
hpc.19core-176ram-nvidia-1080-glados
hpc.38core-372ram-nvidia-1080-glados
hpc.19core-176ram-nvidia-2080-glados
hpc.38core-372ram-nvidia-2080-glados
hpc.64core-512ram-nvidia-t4
hpc.32core-256ram-nvidia-t4-single-gpu

- Standard interfaces supported⁵: POSIX
- Storage technology⁶:
- Payment mode offer: Sponsored
- Other technical requirements:
- Duration: 01/01/2022 - 30/06/2023
- Allocation type: Pledged
- Provider AUP link: <https://documents.egi.eu/document/2623>
- Supported VOs: icecube
- VO ID card: <https://operations-portal.in2p3.fr/vo/view/voname/icecube>
- GOCDDB endpoints urls: N/A

2 Service hours and exceptions

As defined in Resource Centre OLA [1].

3 Support

As defined in Resource Centre OLA [1].

3.1 Incident handling

As defined in Resource Centre OLA [1].

3.2 Service requests

As defined in Resource Centre OLA [1].

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.

⁵ CDMI, POSIX, SWIFT, etc.

⁶ DPM, dCache, STORM, etc.

- Minimum (as a percentage per month): 90%

Quality of Support level

- Medium (Section 3)

5 Limitations and constraints

As defined in Resource Centre OLA [1] 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.

EGI Foundation contact	Giuseppe La Rocca sla@mailman.egi.eu SLA Coordinator at EGI Foundation
EGI Foundation technical contact	Matthew Viljoen operations@egi.eu Operations manager at EGI Foundation
Component Provider contact	Miroslav Ruda miroslav.ruda@cesnet.cz
Component Provider technical contact	cloud@metacentrum.cz
Service Support contact	See Section 3

6.2 Regular reporting

As defined in Resource Centre OLA [1].

6.3 Violations

The Component Provider commits to inform the EGI Foundation, if the Agreement is violated or violation is anticipated.

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

- In case of violations of the Services targets for **four months (within reporting period)** or **two consecutive months**, the Component Provider will provide justifications to EGI Foundation.
- In case of service target violation, the Component Provider must provide justifications and a plan for service enhancement **within 10 working days** from the date of the notification to/from the EGI Foundation.
 - In case of no or unsatisfactory justification and plan for improvement, EGI Foundation reserves the right to replace the Component Provider.
- 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 (within reporting period)** or **two consecutive months**, a review of the Agreement will take place involving the parties of the Agreement.
- Customer complaints or concerns about the Service(s) provided directed to the EGI Foundation contact will be shared with corresponding Component Providers.

7 Information security and data protection

As defined by the EGI Default Operational Level Agreement⁷.

The following rules for Information Security and data protection must be enforced by the Component Provider:

- Make every effort to maximise the security level of users' data and minimise possible harm in the event of an incident. Incidents must be immediately reported to the EGI Computer Security Incident Response Team (CSIRT) according to the SEC01 procedure⁸.
- For the processing of access data (i.e. data related to authentication going through Check-in), the Customer's Home Organisation, EGI Foundation (the Service Provider) and the Component Providers hold the role of Data Controllers. As part of the authentication process, personal data are transmitted between these data controllers based on the consent of the user (Data Subject). In this context, and unless it has been agreed to use a different model, there is no need for having any particular data processing agreement in place.

⁷ <https://documents.egi.eu/document/2752>

⁸ <https://go.egi.eu/sec01>

- In the case the Customer, as a Data Controller, is processing any personal data (research data, personal data of their users or visitors) on the provided resources, EGI Foundation holds the role of Data Processor and the Component Provider the role of sub-processor. In that situation, when the Data Controller requests having a DPA signed with EGI Foundation as a processor, an additional subcontractor agreement has to be signed between EGI Foundation and the Component Provider as sub-processor.
- The Component Provider must comply with the EGI Policy on the Processing of Personal Data⁹ and provide a Privacy Policy. This Privacy Policy can be based on the Privacy Policy template provided by the AARC Policy Development Kit (PDK)¹⁰.
- The Component Provider must enforce the Acceptable Use Policy and Conditions of Use¹¹.
- The Component Provider must comply with all principles set out by the GÉANT Data Protection Code of Conduct¹² (v1.0).
- Security incidents affecting the services described in Section 1 must be reported to abuse@egi.eu within 4 hours after their discovery and handled according to [SEC01: EGI CSIRT Security Incident Handling Procedure](#).
- The Component Provider must meet all requirements of any relevant EGI policies or procedures¹³ and also must be compliant with the relevant national legislation. Regarding EGI requirements, please refer to the following reference documentation:
 - [EGI-doc-3015: e-Infrastructure Security Policy](#)
 - [EGI-doc-3601: Service Operations Security Policy](#)
 - [EGI-doc-2732: Policy on the Processing of Personal Data](#)
 - [EGI-doc-3600: Acceptable Use Policy and Conditions of Use](#)
 - [EGI-doc-2934: Security Traceability and Logging Policy](#)
 - [EGI-doc-2935: Security Incident Response Policy](#)

8 Responsibilities

8.1 Of the Component Provider

As defined in Resource Centre OLA [1].

In addition:

- The Component Provider is responsible for monitoring the resources usage and taking appropriate action to avoid overuse of the resources defined in this agreement. EGI

⁹ <https://documents.egi.eu/document/2732>

¹⁰ <https://aarc-project.eu/policies/policy-development-kit/>

¹¹ <https://documents.egi.eu/document/3600>

¹² <https://wiki.refeds.org/display/CODE/Code+of+Conduct+for+Service+Providers>

¹³ https://go.egi.eu/policies_procedures

Foundation is not responsible for any costs incurred by over usage of what was otherwise defined in this agreement.

- The Component Provider shall not terminate the virtual machines without agreement with EGI Foundation.
 - Notification of resource termination shall be sent to the EGI Foundation 15 calendar days before.

8.2 Of EGI Foundation

As defined in Resource Centre OLA [1] and:

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

8.3 Of the Customer

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

9 Review, extensions and termination

As defined in Resource Centre OLA [1].

10 References

	Title	URL
[1]	Resource Centre Operational Level Agreement	https://documents.egi.eu/document/31