

EGI Foundation Accounting Repository and Portal OPERATIONAL LEVEL AGREEMENT

Customer EGI Foundation

Provider STFC, CESGA

Start Date 1st January 2018

End Date 31st December 2020

Status FINAL

Agreement Date 5th July 2018

Agreement Link https://documents.egi.eu/document/3254



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DOCUMENT LOG

Issue	Date	Comment	Author	
0.1			Małgorzata Krakowian	
0.2	31/3/2016	Edits from Peter Solagna and Stuart Pullinger	Stuart Pullinger	
0.3	29/4/2016	Final version from Peter Solagna	P.Solagna	
1.0	13/06/2017	First review, added a reference to the availability and continuity plans	Alessandro Paolini	
2.0	17/11/2017, New OLA covering 2018, 2019, 2020 years 02/08/2018		Alessandro Paolini, Adrian Coveney	

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

1	The	Services	4
2		ice hours and exceptions	
3		oort	
_	3.1	Incident handling	
	3.2	Service requests	
4	Serv	ice level targets	
5		tations and constraints	
6	Com	munication, reporting and escalation	7
	6.1	General communication	7
	6.2	Regular reporting	8
	6.3	Violations	8
	6.4	Escalation and complaints	8
7	Info	rmation security and data protection	8
8	Resp	oonsi bilities	9
	8.1	Of the Provider	9
	8.2	Of the Customer	9
9	Revi	ew, extensions and termination	9



The present Operational Level Agreement ("the Agreement') is made between **EGI Foundation** (the Customer) and STFC, CESGA (the Provider) to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

This Agreement is valid from 1st January 2018 to 31st December 2020.

The Agreement was discussed and approved by the Customer and the Provider on 5th July 2018

The provider(s) is (are) bound by the terms and conditions of the Corporate-level EGI Operational Level Agreement¹ supplemented by the terms and conditions of this specific agreement:

1 The Services

The Services are defined by the following properties:

Technical	The Accounting repositories store compute (serial and parallel jobs), storage, and cloud resource accounting data collected from Resource Centres of the EGI Federation. Accounting information is gathered from distributed sensors into a central accounting repository where it is processed to generate summaries that are available through the EGI Accounting Portal. The Accounting Repository, based on the APEL software, has a MySQL database backend, and needs to ensure the exchange of accounting information with peer e-Infrastructures.		
	The Accounting Portal receives and stores the site, user, and VO level aggregated summaries generated by the Accounting Repository, and provides views via a web portal, for example, by grouping sites in a country on custom time intervals. The databases are organized into a CPU record database, a User record database, and a topology database.		
Coordination	 This activity is responsible for: The coordination of the APEL database operations and upgrade activities with those partners that are in charge of operating systems that depend on the central APEL accounting databases and portal, or on which the accounting infrastructures depends. The Coordination with the EGI Operations to support accounting clients' upgrade campaigns and other operational activities aiming at improving the accuracy and completeness of the accounting information gathered. 		

¹ https://documents.egi.eu/document/2752



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	Requirements gathering from service providers and end-users.		
Operation	 Daily running of the system including the repositories and the portal Provisioning of a high availability configuration: The Accounting Portal service is available in a dedicated virtual machine running in the CESGA cloud framework based on OpenNebula software, which offers high availability thanks to its resources:		
	via the generator-backed UPS. Database and filesystem are backed up every 24 hours to tape storage. Database binary logs are kept for 14 Days and are included in the tape backup. Server hardware is covered by Dell "ProSupport Plus" with 4Hour mission critical support that ensures that service can be restored in minimum time. In a disaster recovery situation, the latest database backup out the full backups can be recovered from tape and then the binlogs can be applied to do "Point in Time Recovery" of the database. Additionally, the accounting messages are cached on the EGI message brokers up to three days, so in case of a disruption lasting more than one day, the data can be retrieved once service is restored. Implementing all the measures for mitigating the risks listed in the Availability and Continuity Plan for the Accounting Portal		

² https://documents.egi.eu/document/3008 (new version: https://wiki.egi.eu/wiki/Services_Availability_Continuity_Plans)

 $document^2 \\$

5



	 A test infrastructure to verify interoperability and the impact of software upgrades on depending systems Deployment of new releases in production 	
Maintenance	 Bug fixing, proactive maintenance, and improvement of the system Coordination of software maintenance activities with other technology providers that provide software for the EGI Core Infrastructure or remote systems deployed by integrated and peer infrastructures that interoperate with the central EGI components of the system. Maintenance of probes to test the functionality of the service Requirements gathering Documentation 	

2 Service hours and exceptions

As defined in the Corporate-level EGI Operational Level Agreement.

3 Support

As defined in Corporate-level EGI Operational Level Agreement.

Support is provided via EGI Service Desk³ Support Unit:

- Accounting Repository: APEL
- Accounting Portal: Accounting Portal

Support is available between:

- Monday and Friday
- 9:00 and 17:00 GMT/BST time

This excludes public holidays at the same time in all organizations providing the service. During holidays of supporting staff, support will be provided on a best-effort basis. For that period of time an AT RISK downtime should be declared in the Service Registry GOCDB.

³ http://helpdesk.egi.eu/



6

3.1 Incident handling

As defined in the Corporate-level EGI Operational Level Agreement.

3.2 Service requests

As defined in the Corporate-level EGI Operational Level Agreement.

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): 99%

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.
- Minimum (as a percentage per month): 99%

Quality of Support level

Medium (Section 3)

5 Limitations and constraints

As defined in Corporate-level EGI Operational Level Agreement.

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 for the Provider	Alessandro Paolini	
	operations@egi.eu	
Provider contact for the Customer	Adrian Coveney	
	apel-admins@stfc.ac.uk	



	APEL Team Leader	
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
Service Performance Report	The document provides the overall assessment of service performance (per month) and OLA target performance achieved during last 9 months	Every 9 months (first report covering the period Jan – Sep 2018)	Provider	Survey form prepared by EGI Foundation

6.3 Violations

As defined in Corporate-level EGI Operational Level Agreement.

6.4 Escalation and complaints

For escalation and complaints, the Provider contact 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 Provider, the
 EGI Foundation Director <u>director@egi.eu</u> should be informed.

7 Information security and data protection

As defined in Corporate-level EGI Operational Level Agreement



8 Responsibilities

8.1 Of the Provider

Additional responsibilities of the Provider are as follows:

- Adhere to all applicable operational and security policies and procedures⁴ and to other policy documents referenced therein;
- Use communication channels defined in the agreement;
- Attend the OMB⁵ and other operations meeting when needed;
- Accept EGI monitoring services provided to measure fulfilment of agreed service level targets.
- Services with associated roles are registered in GOC DB⁶ as site entities under EGI.eu Operations Centre hosting EGI central operations tools⁷
- Any loss of accounting data stored in the APEL repositories should be recovered 100%
- The Provider shall support EGI Operations and the resource centres to recover any loss of accounting data not directly imputable to the APEL service
- Changes in the system must be rolled out to production in a controlled way in order to avoid service disruption

8.2 Of the Customer

The responsibilities of the customer are:

- Raise any issues deemed necessary to the attention of the Provider;
- Collect requirements from the Resource infrastructure Providers;
- Support coordination with other EGI services;
- Provide monitoring to measure fulfilment of agreed service level targets.

9 Review, extensions and termination

There will be reviews of the service performance against service level targets and of this Agreement at planned intervals with the Customer according to the following rules:

• Technical content of the agreement and targets will be reviewed on a yearly basis.

⁷ https://goc.egi.eu/portal/index.php?Page Type=NGI&id=4



⁴ https://www.egi.eu/about/policy/policies_procedures.html

⁵ https://wiki.egi.eu/wiki/OMB

⁶ http://goc.egi.eu/