



## EGI VO

# OPERATIONAL LEVEL AGREEMENT

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<b>Customer</b>	EGI Foundation
<b>Provider</b>	RAL-LCG2
<b>User</b>	MoBRAIN/vo:enmr.eu/vo.neuGRID.eu
<b>First day of service delivery</b>	01/01/2016
<b>Last day of service delivery</b>	01/01/2018
<b>Status</b>	FINAL
<b>Agreement finalization date</b>	22/02/2016
<b>SLA Link</b>	<a href="https://documents.egi.eu/document/2751">https://documents.egi.eu/document/2751</a>

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## DOCUMENT LOG

<b>Date</b>	<b>Comment</b>	<b>Author</b>
22/02/2016	Final version OLA	Małgorzata Krakowian Giuseppe la Rocca
10/04/2017	New final version: <ul style="list-style-type: none"><li>• Extension till 1/01/2018</li></ul>	Małgorzata Krakowian 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.

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The present Operational Level Agreement (“the Agreement”) is made between **EGI Foundation (the Customer)** and **RAL-LCG2 (the Provider)** to define the provision and support of the provided services as described hereafter. Representatives and contact information are defined in Section 6.

The main objective of MoBrain is to lower barriers for scientists to access modern e-Science solutions from micro to macro scales. By building on grid- and cloud-based infrastructures and on the existing expertise available within WeNMR<sup>1</sup> and N4U<sup>2</sup> and by integrating molecular structural biology and medical imaging services and data, MoBrain will kick-start the development of a larger, integrated, global science virtual research environment for life and brain scientists worldwide. The projects defined in MoBrain are geared toward facilitating this overall objective, each with specific objectives to reinforce existing services, develop new solutions and pave the path to global competence centre and virtual research environment for transnational research from molecular to brain.

The User is a consortium represented by the **Faculty of Science – Chemistry, Utrecht University**.

This Agreement is valid from **01/01/2016** to **01/01/2018**.

The Agreement was discussed and approved by the Customer and the Provider **22/02/2016**.

The Agreement extends the Resource Center OLA<sup>3</sup> with following information:

## 1 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:

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

With High-Throughput 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. High-Throughput 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

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<sup>1</sup> [www.wenmr.eu](http://www.wenmr.eu)

<sup>2</sup> [neugrid4you.eu](http://neugrid4you.eu)

<sup>3</sup> <https://documents.egi.eu/document/31>

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 Center:
  - High-Throughput Compute
    - Opportunistic computing time [HEPSPEC-hours]: 5 Millions
    - Max job duration [hours]: 72
    - Min local storage [GB] (scratch space per each core used by the job): 50
    - Min physical memory per core [GB]: 2
    - Middleware: CVMFS Stratus 0 or 1. SRM gridftp/xrootd or trial S3 interface to CEPH
    - Other technical requirements: 130 Sandy Bridge cores configured to support hyper-threading
    - Duration: 01/01/2016 – to 01/01/2018
  - Online Storage
    - Opportunistic storage capacity [TB]: 0.05
    - Duration: 01/01/2016 – 01/01/2018
  - Access type: Opportunistic. Resources are not exclusively allocated but subjected to local availability
  - Supported VOs: enmr.eu
  - VO ID card: <https://operations-portal.egi.eu/vo/view/voname/enmr.eu>

## 2 Service hours and exceptions

As defined in Resource Center OLA.

## 3 Support

As defined in Resource Center OLA.

### 3.1 Incident handling

As defined in Resource Center OLA.

## 3.2 Service requests

As defined in Resource Center OLA.

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

### Quality of Support level

- Medium (Section 3)

# 5 Limitations and constraints

As defined in Resource Center OLA 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.

<b>EGI Foundation contact</b>	Małgorzata Krakowian <a href="mailto:sla@mailman.egi.eu">sla@mailman.egi.eu</a> SLA Coordinator at EGI Foundation
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<b>Provider contact</b>	Andrew Sansum <a href="mailto:lcg-support@gridpp.rl.ac.uk">lcg-support@gridpp.rl.ac.uk</a>
<b>Service Support contact</b>	See Section 3

## 6.2 Regular reporting

As defined in Resource Center OLA.

## 6.3 Violations

As defined in Resource Center OLA.

## 6.4 Escalation and complaints

As defined in Resource Center OLA.

# 7 Information security and data protection

As defined in Resource Center OLA.

# 8 Responsibilities

## 8.1 Of the Provider

As defined in Resource Center OLA.

## 8.2 Of the Customer

As defined in Resource Center OLA and:

- Support coordination with other Providers;
- Support coordination and conflict resolution with the User;

## 8.3 Of the User

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

# 9 Review, extensions and termination

As defined in Resource Center OLA.

