



## EGI VO

# OPERATIONAL LEVEL AGREEMENT

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<b>Customer</b>	EGI Foundation
<b>Provider</b>	INFN-PADOVA
<b>User</b>	MoBRAIN/vo:enmr.eu
<b>First day of service delivery</b>	01/01/2016
<b>Last day of service delivery</b>	31/12/2020
<b>Status</b>	FINAL
<b>Agreement finalization date</b>	23/06/2016
<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

<i>Issue</i>	<i>Date</i>	<i>Comment</i>	<i>Author</i>
<b>FINAL</b>	23/02/2016	OLA signed with the provider.	Małgorzata Krakowian Giuseppe La Rocca
<b>v2</b>	15/01/2018	Updated OLA until 12/2020	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 **INFN-PADOVA (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 **31/12/2020**.

Once approved, **this Agreement is automatically renewed**, as long as the Provider does not expressed decision to terminate the Agreement at least a month before end date of the Agreement.

The Agreement was discussed and approved by the Customer and the Provider **23/02/2016**.

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

## 1 The 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.

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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>

The Services are defined by the following properties:

### Cloud Compute (category: Compute)

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

- Resource Centre:
- Resource Centre: **INFN-PADOVA-STACK (Country: Italy)**
  - Cloud Compute
    - Number of virtual CPU cores: 100
    - Memory per core (GB): 2GB per core, 200GB in total
    - Local disk (GB): up to 160 GB
    - Public IP addresses: yes
    - Allocation type: Pledged
    - Payment mode offer: sponsored
    - Other technical requirements: 100 AMD Opteron 6238 physical CPU cores
    - Duration: 01/01/2016 – 31/12/2020
    - Supported VOs: enmr.eu
  - VO ID card: <https://operations-portal.in2p3.fr/vo/view/voname/enmr.eu>
  - VO-wide list: <https://vmcaster.appdb.egi.eu/store/vo/enmr.eu/image.list>

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

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

- Resource Center: **INFN-PADOVA (Country: Italy)**
  - High-Throughput Compute
    - Guaranteed computing time [HEPSPEC-hours]:
    - Opportunistic computing time [HEPSPEC-hours]: up to 10 Million per year
    - Max job duration [hours]: 72
    - Min local storage [GB] (scratch space per each core used by the job): 1GB
    - Max number of cores per node:
    - Min physical memory per core [GB]: 2GB, 288GB in total
    - Middleware: gLite CREAM CE
    - Payment mode offer: sponsored
    - Other technical requirements: 144 AMD Opteron 6174 physical CPU cores
    - Duration: 01/01/2016 – 31/12/2020
  - Allocation type: LSF fair-share for HTC
  - Supported VOs: enmr.eu
  - VO ID card: <https://operations-portal.in2p3.fr/vo/view/voname/enmr.eu>

## Online Storage (category: Storage)

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

- Resource Center: **INFN-PADOVA-STACK (Country: Italy)**
  - Online Storage
    - Guaranteed storage capacity [TB]: 1
    - Opportunistic storage capacity [TB]:
    - Standard interfaces supported<sup>4</sup>: POSIX
    - Storage technology<sup>5</sup>: Cinder (OpenStack block storage), Onedata (experimental)
    - Payment mode offer: sponsored
    - Other technical requirements:
    - Duration: 01/01/2016 – 31/12/2020
  - Allocation type: Pledged
  - Supported VOs: enmr.eu
  - VO ID card: <https://operations-portal.in2p3.fr/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

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<sup>4</sup> CDMI, POSIX, SWIFT, etc.

<sup>5</sup> DPM, dCache, STORM, etc.

- 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
<b>Provider contact</b>	Marco Verlato <a href="mailto:marco.verlato@pd.infn.it">marco.verlato@pd.infn.it</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.