**EGI-InSPIRE**

Title

**EU DELIVERABLE: Dx.x/EU MILESTONE: MSxxx**

<<remove as appropriate>>

|  |  |
| --- | --- |
| Document identifier: | Document1 |
| Date: | 18/05/2011 |
| Activity: | **NA1** |
| Lead Partner: | **EGI.eu** |
| Document Status: | **FINAL** |
| Dissemination Level: | **PUBLIC** |
| Document Link: | https://documents.egi.eu/document/26 |

|  |
| --- |
| Abstract  << The abstract should provide a brief neutral overview of the document and its contents and main conclusions. Once complete the abstract should be copied into the abstract field on the document server.>>  <<document handling and production procedure is provided in <https://documents.egi.eu/document/33> >> |

1. Copyright notice

Copyright © Members of the EGI-InSPIRE Collaboration, 2010. See www.egi.eu for details of the EGI-InSPIRE project and the collaboration. EGI-InSPIRE (“European Grid Initiative: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe”) is a project co-funded by the European Commission as an Integrated Infrastructure Initiative within the 7th Framework Programme. EGI-InSPIRE began in May 2010 and will run for 4 years. This work is licensed under the Creative Commons Attribution-Noncommercial 3.0 License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/3.0/ or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, and USA. The work must be attributed by attaching the following reference to the copied elements: “Copyright © Members of the EGI-InSPIRE Collaboration, 2010. See www.egi.eu for details of the EGI-InSPIRE project and the collaboration”. Using this document in a way and/or for purposes not foreseen in the license, requires the prior written permission of the copyright holders. The information contained in this document represents the views of the copyright holders as of the date such views are published.

1. Delivery Slip

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Partner/Activity** | **Date** |
| **From** | <<The lead author/editor>> |  |  |
| **Reviewed by** | **Moderator:**  **Reviewers:**  <<To be completed by project office on submission to AMB/PMB>> |  |  |
| **Approved by** | **AMB & PMB**  <<To be completed by project office on submission to EC>> |  |  |

1. Document Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Issue** | **Date** | **Comment** | **Author/Partner** |
| 1 |  | First draft |  |
| 2 |  |  |  |
| 3 |  |  |  |

1. Application area

This document is a formal deliverable for the European Commission, applicable to all members of the EGI-InSPIRE project, beneficiaries and Joint Research Unit members, as well as its collaborating projects.

1. Document amendment procedure

Amendments, comments and suggestions should be sent to the authors. The procedures documented in the EGI-InSPIRE “Document Management Procedure” will be followed:  
<https://wiki.egi.eu/wiki/Procedures>

1. Terminology

A complete project glossary is provided at the following page: <http://www.egi.eu/about/glossary/>.

<<The authors should check if the acronyms are covered by the glossary page and if the definition is still correct; all the amendments should be communicated to glossary@egi.eu>>

1. PROJECT SUMMARY

To support science and innovation, a lasting operational model for e-Science is needed − both for coordinating the infrastructure and for delivering integrated services that cross national borders.

The EGI-InSPIRE project will support the transition from a project-based system to a sustainable pan-European e-Infrastructure, by supporting ‘grids’ of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI-InSPIRE will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example within the ESFRI projects. Additional support will also be given to the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

The objectives of the project are:

1. The continued operation and expansion of today’s production infrastructure by transitioning to a governance model and operational infrastructure that can be increasingly sustained outside of specific project funding.
2. The continued support of researchers within Europe and their international collaborators that are using the current production infrastructure.
3. The support for current heavy users of the infrastructure in earth science, astronomy and astrophysics, fusion, computational chemistry and materials science technology, life sciences and high energy physics as they move to sustainable support models for their own communities.
4. Interfaces that expand access to new user communities including new potential heavy users of the infrastructure from the ESFRI projects.
5. Mechanisms to integrate existing infrastructure providers in Europe and around the world into the production infrastructure, so as to provide transparent access to all authorised users.
6. Establish processes and procedures to allow the integration of new DCI technologies (e.g. clouds, volunteer desktop grids) and heterogeneous resources (e.g. HTC and HPC) into a seamless production infrastructure as they mature and demonstrate value to the EGI community.

The EGI community is a federation of independent national and community resource providers, whose resources support specific research communities and international collaborators both within Europe and worldwide. EGI.eu, coordinator of EGI-InSPIRE, brings together partner institutions established within the community to provide a set of essential human and technical services that enable secure integrated access to distributed resources on behalf of the community.

The production infrastructure supports Virtual Research Communities (VRCs) − structured international user communities − that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.

1. EXECUTIVE SUMMARY

<< The text should provide a summary of the full report so that the reader can ‘in a page’ understand the problem it has been written to cover. This includes an overview of the background material and motivation for the report, a summary of the analysis, and the report’s main conclusions.>>

TABLE OF CONTENTS

1 Unified Middleware Distribution (UMD) Release Plan 7

1.1 Unified Middleware Distribution 1 7

1.1.1 UMD 1.0 Detailed release plan 8

1.1.2 UMD 1.1 Detailed release plan 9

1.1.3 UMD 1.2 Detailed release plan 10

2 References 11

# Unified Middleware Distribution (UMD) Release Plan

The UMD Release Plan describes the planned release schedule for UMD major and minor releases. UMD Major releases (such as UMD 1.x, UMD 2.x, etc.) will be supported and updated while EGI is provided with updates from it technology providers. It is expected that this will be for two years from the date of their release. UMD major releases will be made when non-backwards compatible changes need to be made to the software components within it. Minor releases within a major series (i.e. UMD 1.0.x and UMD 1.1.y) may introduce new functionality but existing interfaces and behaviours will remain.

**Note:** While EGI aspires to follow this plan as closely as possible, the UMD Release Plan is dependent on the software provided by our external technology providers and the quality of information (if provided) and their ability to meet their announced release dates. Therefore there will be no guarantee on release dates and contents other than the timely communication of changes as they become apparent. In particular, the time taken to include a product into a certain UMD release greatly depends on diligent and volunteer based StagedRollout activity [R 4]. If no volunteer picks up this Product and exposes it to the Production Infrastructure then that given Product is in danger of not being included in the planned UMD release and will be shipped later.

The following release plans provide information about the products that are due to be shipped in each UMD release. This plan follows the requests presented from the operations (OMB & COO) and user community (UCB & CCO) to the TCB on several occasions [R 1], [R 2]. The result is a prioritised list of products with individual priorities tagged as “A” (highest priority) to “D” (lowest priority) or no letter (no priority).

Paramount to planning UMD releases in the beginning is to provide the most critical services, and those services that either have reached, or will reach end of support in 2011. Therefore a fixed publication date for UMD 1.0 has been set to 4 July 2011, containing services and products of category A only.

All other products with priority B, C and D will be tentatively scheduled for subsequent minor UMD-1 releases as described below. Those releases were initially planned for quarterly publication, but are tentatively condensed to a monthly frequency in the beginning.

IGE products are tentatively scheduled for inclusion in UMD 1.1. IGE products are fully integrated into the EGI monitoring infrastructure and confirmation is expected on other critical functionality at the next TCB (20/5/11).

## Unified Middleware Distribution 1

The following provides a planned schedule of UMD 1. For the major, and each minor release, more detailed release plans are provided in subsequent sections.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Release | Release date | Supported OS | Architecture | Notes | End of Support |
| 1.0 | 4 Jul 2011 | SL5, SL6 | sl6/x86\_64 |  | 30 Jun 2013 |
| 1.1 | 1 Aug 2011 | SL5, SL6 | sl6/x86\_64 |  |
| 1.2 | 5 Sep 2011 | SL5, SL6 | sl6/x86\_64 |  |

### UMD 1.0 Detailed release plan

EGI plans to release UMD 1.0 on 4 Jul 2011.

The first, major release of UMD-1 (UMD 1.0.0) will contain only the most critical products agreed by the TCB and defined in this document.

|  |  |  |  |
| --- | --- | --- | --- |
| UMD Capability | Priority | Product | Notes |
| Authorisation | A | ARGUS 1.3.0 | WLCG started deployment campaign |
| Data Access | A | DPM 1.8.1 | - gLite 3.1 end of support 18 May 2011  - both MySQL & Oracle flavours |
| Authentication,  Authorisation,  Credential Mgmt | A | glExecfor WN 0.8.10 | WLCG started deployment campaign |
|  |  |  |  |
|  |  |  |  |
| Job Execution | A | CREAM 1.13 | - End of standard updates lcg-ce scheduled for Oct 2011  - Includes DGAS sensors 4.0.1  - Includes BLAH 1.16  - Includes glite-gsoap/gss v.3.0.2  - Includes LCAS 1.3.13  - Includes LCMAPS 1.4.29 |
|  |  |  |  |
|  |  |  |  |
| Job Scheduling | B | WMS 3.3.0 | not present in gLite 3.2, gLite 3.1 version is only sl4 |
| Accounting(?) |  | L&B 3.0.10 |  |
| Job Execution | A | EMI Cluster 1.0.0 | Sub-cluster configuration for CREAM |
| Attribute Authority | A | VOMS 2.0.0 | - gLite 3.1 support ended already  - both MySQL and Oracle flavours  - Includes VOMS-Admin 2.6.1 |

The following diagram illustrates the verification and StagedRollout order within the EGI Software Provisioning process.



### UMD 1.1 Detailed release plan

EGI plans to release UMD 1.1 on 1 Aug 2011.

UMD 1.1 is planned to provide EMI products of priority “B” through “D”. One product, StoRM was originally categorised as priority “C”, is *not* listed here as it was not included in the initial release of EMI-1 [R 3] and its inclusion in subsequent EMI-1 minor releases is not known.

UMD 1.1 also tentatively features IGE products, subject to resolution of its accounting issues, or a decision by sites to request it nonetheless[[1]](#footnote-1).

|  |  |  |  |
| --- | --- | --- | --- |
| UMD Capability | Priority | Product | Notes |
|  |  |  |  |
| Metadata Cat. | B | LFC 1.8.1 | - Both MySQL/Oracle flavours  - gLite 3.1 LFC end of support on 09/06/2011 |
| Info Discovery | B | siteBDII 1.0.0 | Critical component for VOs |
| Info Discovery | B | top BDII 1.0.0 | Critical component for VOs |
| Job Execution | C | ARC CE 1.0.0 | Replacement of lcg-ce  Includes ARC Core, ARC gridFTP |
| Client | C | ARC Clients 1.0.0 | Replacement of lcg-ce |
| Credential Mgmt. | C | EMI Proxyrenewal 1.3.19 |  |
|  |  |  |  |
| Accounting | D | APEL publisher 3.2.7 |  |
| Client | D | EMI UI 1.0.0 |  |
| Job Execution, Parallel Job | -- | Globus GRAM 5.0.3 |  |
| File Transfer | -- | Globus GridFTP 5.0.3 |  |
| Credential Mgmt. | -- | Globus MyProxy 5.0.3 |  |
| Metadata catalogue | -- | Globus RLS 5.0.3 |  |
|  |  |  |  |
|  |  |  |  |

The following diagram illustrates the verification and StagedRollout order within the EGI Software Provisioning process.



### UMD 1.2 Detailed release plan

EGI plans to release UMD 1.2 on 5 Sep 2011.

UMD 1.2 will contain all other products from EMI-1 that were not prioritised by the OMB, concluding the initial series of UMD releases.

|  |  |  |  |
| --- | --- | --- | --- |
| UMD Capability | Priority | Product | Notes |
|  |  |  |  |
|  |  |  |  |
| Metadata catalogue |  | AMGA 2.1.2 |  |
| Info discovery |  | ARC InfoSys 1.0.0 |  |
| Data Access |  | dCache 1.9.12 |  |
|  |  |  |  |
| Data Access | C | StoRM 1.7.0 | Not part of EMI-1 initial release. |
| File Transfer Sch. |  | FTS 2.2.6 | Not part of EMI-1 initial release. |
| File Encryption |  | Hydra 1.0.1 | Not part of EMI-1 initial release. |
| Client |  | UNICORE Client 6.4.0 |  |
| Client |  | UNICORE HILA 2.2.0 |  |
| Authorisation |  | UNICORE Gateway 6.4.0 |  |
| Attribute Authority |  | UNICORE XUUDB 1.3.2 |  |
| Attribute Authority |  | UNICORE UVOS 1.4.1 |  |
| Execute Job, Parallel Job |  | UNICORE WS 6.4.0 |  |
| Info Discovery |  | UNICORE Registry 6.4.0 |  |

The following diagram illustrates the verification and StagedRollout order within the EGI Software Provisioning process.



# References

|  |  |
| --- | --- |
| R 1 | OMB F2F in Vilnius,  <https://www.egi.eu/indico/conferenceDisplay.py?confId=267> |
| R 2 | Email conversations and meetings, between COO, CTO, TM, 3 May 2011 |
| R 3 | EMI-1 Kebnekaise release, 12 May 2011,  <http://www.eu-emi.eu/emi-1-kebnekaise> |
| R 4 | EGI Staged Rollout,  <https://wiki.egi.eu/wiki/Staged-Rollout> |
| R 5 |  |

1. The SA1 IGE/Globus Task Force will meet at 18 May 2011 and discuss, among other, this very issue. [↑](#footnote-ref-1)