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UNIFIED MIDDLEWARE DISTRIBUTION (UMD) RELEASE SCHEDULE

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Policy Statement

This document describes the release schedule and plans for the Unified Middleware Distribution (UMD).

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I. AUTHORS LIST

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II. DOCUMENT LOG

Version	Date	Comment	Author/Organization
6.0	19 May 2011	First publishable version, also using correct document template	Michel Drescher, EGI.eu
8.0	25 May 2011	Revised release schedule	Michel Drescher, EGI.eu
10	21 June 2011	<ul style="list-style-type: none"> - UMD 1.0 revised release date: 11 July 2011 - Updated UMD-1 to CREAM 1.13.1 - Removed section about <i>initial</i> prioritisation used to generate version 6 of this schedule 	Michel Drescher, EGI.eu
12	23 June 2011	<ul style="list-style-type: none"> - UMD 1.0 update reflecting rejected products 	Michel Drescher, EGI.eu
14	12 July 2011	<ul style="list-style-type: none"> - Section on repository configuration moved to repository.egi.eu - Added release dates and contents for UMD 1.2.0 - Changed release contents of UMD 1.1.0 	



III. APPLICATION AREA

This document is a formal EGI.eu policy or procedure applicable to all participants and associate participants, beneficiaries and Joint Research Unit members, as well as its collaborating projects.

IV. ORGANISATION SUMMARY

To support science and innovation, a lasting operational model for e-Infrastructure is needed – both for coordinating the infrastructure and for delivering integrated services that cross national borders. The objective of EGI.eu (a foundation established under Dutch law) is to create and maintain a pan-European Grid Infrastructure in collaboration with National Grid Initiatives (NGIs) in order to guarantee the long-term availability of a generic e-infrastructure for all European research communities and their international collaborators.

In its role of coordinating grid activities between European NGIs, EGI.eu will:

- Operate a secure integrated production grid infrastructure that seamlessly federates resources from providers around Europe
- Coordinate the support of the research communities using the European infrastructure coordinated by EGI.eu
- Work with software providers within Europe and worldwide to provide high-quality innovative software solutions that deliver the capability required by our user communities
- Ensure the development of EGI.eu through the coordination and participation in collaborative research projects that bring innovation to European Distributed Computing Infrastructures (DCIs)

The EGI.eu is supporting 'grids' of high-performance computing (HPC) and high-throughput computing (HTC) resources. EGI.eu will also be ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit the user communities within the European Research Area.

EGI will collect user requirements and provide support for the current and emerging user communities. 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 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, 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 – structured international user communities – that are grouped into specific research domains. VRCs are formally represented within EGI at both a technical and strategic level.



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1 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 its technology providers for at most two consecutive years from the date of their initial 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.

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).

1.1 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
1.0.0	11 Jul 2011	SL5	x86_64		30 Apr 2013
1.1.0	1 Aug 2011	SL5	x86_64		
1.2.0	15 Sep 2011	SL5	x86_64		

1.1.1 UMD 1.0.0 Detailed release plan

EGI plans to release UMD 1.0.0 on 11 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	Provider	Product (technical short name)	Notes
Attribute Authority	EMI	VOMS 2.0.0 for MySQL (voms)	Includes VOMS-Admin 2.6.1
Authorisation	EMI	ARGUS 1.3.0 (argus)	Includes ARGUS EES 0.0.10
Credential Mgmt.	EMI	Proxyrenewal 1.3.19 (proxyrenewal)	
Info Discovery	EMI	siteBDII 1.0.0 (bdii-site)	
Info Discovery	EMI	top BDII 1.0.0 (bdii-top)	
File Access (also Storage Management?)	EMI	DPM 1.8.1 (dpm)	Includes: <ul style="list-style-type: none"> - DPM head node (DPM_mysql) - DPM disk node (DPM_disk)
Metadata Catalogue	EMI	LFC 1.8.1 for MySQL (lfc)	
Job Execution (partial, requires EMI-WN)	EMI	CREAM 1.13.1 (cream)	CREAM 1.13.1 is part of EMI Update 2, while CREAM 1.13 was delivered to EGI with EMI 1.0. Includes internal libraries such as DGAS, LCAS, LCMAPS etc. Includes also: <ul style="list-style-type: none"> - EMI Cluster 1.0.0 - CREAM/Torque integration: <ul style="list-style-type: none"> o CREAM TORQUE module 1.0.0 o TORQUE WN Config 1.0.0 o TORQUE SERVER config 1.0.0 - CREAM/LSF integration
Job Execution (partial, requires EMI-CREAM)	EMI	WN 1.0.0 (wn)	Internal libs such as GFAL etc are included here Includes also: <ul style="list-style-type: none"> - glExec for WN 0.8.10
n/a	EMI	L&B 3.0.10 (lb)	Originally provisioned together with WMS. This version is verified to work with the existing gLite 3.2 version if WMS already deployed in the infrastructure.
Accounting	EMI	APEL publisher 3.2.7 (apel)	
Client API(?)	EMI	ARC Clients 1.0.0 (arc-client)	
Client API(?)	EMI	EMI UI 1.0.0 (ui)	



Authentication	EMI	UNICORE Gateway 6.4.0 <i>(unicore-gateway)</i>	
Client API	EMI	UNICORE Client 6.4.0 <i>(unicore-client)</i>	
Client API	EMI	UNICORE HILA 2.2.0 <i>(unicore-hila)</i>	
Attribute Authority	EMI	UNICORE XUADB 1.3.2 <i>(unicore-xuadb)</i>	
Attribute Authority	EMI	UNICORE UVOS 1.4.1 <i>(unicore-uvos)</i>	
Info Discovery	EMI	UNICORE Registry 6.4.0 <i>(unicore-registry)</i>	
Job Scheduling, Storage Management	EMI	UNICORE WS 6.4.0 <i>(unicore-ws)</i>	
Execute Job, Parallel Job, File Access	EMI	UNICORE TSI 6.4.0 <i>(unicore-tsi)</i>	

1.1.2 UMD 1.1.0 Detailed release plan

EGI plans to release UMD 1.1.0 on 1 Aug 2011.

Several products were rejected while being verified against the EGI Quality Criteria [R 5] for inclusion for UMD 1.0.0. Some of those products, in updated versions, are tentatively scheduled for UMD 1.1:

- WMS 3.3.1
- MPI 1.0.1

Also, product updates, and new products supplied through EMI-1 Update 3 are planned to be published with this UMD update:

- StoRM 1.7.0
- L & B 3.0.12
- UNICORE UVOS 1.4.2
- Proxyrenewal 1.3.21

Due to unforeseen difficulties and timing issues, several EMI products did not finish the Software Provisioning process early enough to be included in UMD 1.0.0, and are tentatively included in UMD 1.2.0:

- ARC CE 1.0.0
- ARC InfoSys 1.0.0

New Products:

UMD Capability	Provider	Product	Notes
File Access, Storage Management	EMI	dCache 1.9.12 <i>(dcache)</i>	
Authentication, Authorization, File Access, File Transfer, Storage Mgmt	EMI	StoRM 1.7.0 <i>(storm)</i>	Provided through EMI-1 Update 3 on 7 July 2011. Includes: - storm-frontend - storm-backend-server - storm-gridftp-server (File Transfer) - storm-gridhttps-server o http/https access to files using X.509 certificates, with or without VOMS attributes (in FQANS format) - storm-srm-client
Job Scheduling	EMI	WMS 3.3.1 <i>(wms)</i>	Available in EMI-1 Update 1. By then it was considered not to fix a bug reported against WMS, which resulted in not considering WMS 3.3.1 for UMD 1.0. The bug was caused by Proxyrenewal, (see below), for which an update is available in EMI-1 Update 3
Info discovery	EMI	ARC InfoSys 1.0.0 <i>(arc-infosys)</i>	Tentatively added to UMD 1.1 as it must be correlated with an update to top-BDII, for which the publication date is not yet known.
Job Execution	EMI	ARC CE 1.0.0 <i>(arc-ce)</i>	Delayed from UMD 1.1 to be correlated with ARC InfoSys to provide a concise and complete package of ARC products. Also, an issue found in StagedRollout caused conflicting assessment between EGI and ARC developers.



Updated Products

UMD Capability	Provider	Product	Notes
n/a	EMI	L&B 3.0.12 <i>(lb)</i>	Provided through EMI-1 Update 3 on 7 July 2011. Originally provisioned together with WMS. This version is verified to work with the existing gLite 3.2 version if WMS already deployed in the infrastructure.
Attribute Authority	EMI	UNICORE UVOS 1.4.2 <i>(unicore-uvos)</i>	Provided through EMI-1 Update 3 on 7 July 2011.
Credential Mgmt.	EMI	Proxyrenewal 1.3.21 <i>(proxyrenewal)</i>	Provided through EMI-1 Update 3 on 7 July 2011. Fixes a bug originally reported against WMS 3.3.0, delivered through EMI-1 initial release. Meanwhile WMS 3.3.1 was published in EMI-1 Update 1, which will be folded into this UMD release. (see section "New Products")
Parallel Job	EMI	MPI 1.0.1	Provided through EMI-1 Update 3 on 7 July 2011. MPI 1.0.0 was rejected for inclusion in UMD 1.0.0

1.1.3 UMD 1.2.0 Detailed release plan

EGI plans to release UMD 1.2.0 on 15 Sep 2011.

Several products were rejected while being verified against the EGI Quality Criteria [R 5] for inclusion for UMD 1.0.0. Those products are tentatively scheduled for UMD 1.1:

- WMS
- LFC for Oracle
- VOMS for Oracle
- gLite MPI

UMD 1.2.0 also tentatively features IGE products, subject to resolution of its accounting issues, or a decision by sites to request it nonetheless¹.

New Products:

UMD Capability	Provider	Product	Notes
File Encryption	EMI	Hydra 1.0.1 (<i>hydra</i>)	Tentatively added to UMD 1.2 –publication date not yet known
File Transfer Sch.	EMI	FTS 2.2.6 (<i>fts</i>)	Tentatively added to UMD 1.2 –publication date not yet known.
Metadata catalogue	EMI	AMGA 2.1.2 (<i>amga</i>)	Tentatively added to UMD 1.2 –publication date not yet known.
Credential Mgmt.	IGE	Globus MyProxy 5.0.3 (<i>globus-myproxy</i>)	
File Transfer	IGE	Globus GridFTP 5.0.3 (<i>globus-gridftp</i>)	
Metadata catalogue	IGE	Globus RLS 5.0.3 (<i>globus-rls</i>)	
Job Execution, Parallel Job	IGE	Globus GRAM 5.0.3 (<i>globus-gram</i>)	
Interactive Job Mgmt	IGE	Globus GSISSH 5.0.3 (<i>globus-gsissh</i>)	

Updated Products:

UMD Capability	Provider	Product	Notes
Attribute Authority	EMI	VOMS 2.0.0 for Oracle (<i>voms</i>)	Includes VOMS-Admin 2.6.1
Metadata Catalogue	EMI	LFC 1.x for Oracle (<i>lfc</i>)	Exact version and release date not yet known.

¹ The SA1 IGE/Globus Task Force is currently resolving this very issue.



2 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	EGI Quality Criteria for Unified Middleware Distribution Products, https://documents.egi.eu/public/ShowDocument?docid=240