

Current status of gLite Testing

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*Meeting with LHCC Referees
March 7, 2005*

- **SA1**
 - Operations = Grid Deployment
- **JRA1**
 - Middleware reengineering
- **NA4**
 - Applicatins
 - HEP
 - Biomed
 - Others

<u>Modules</u>	<u>Availability for ARDA</u>	<u>Availability for SA1</u>
		February 7, 2005 (1.0.6) February 21, 2005 (1.0.8)
Complete WMS with Task Queue, Pull mode and Interface to Data Management	February 2, 2005 February 2, but problems. Fixed on February 11. CE only in pull mode.	February 18, 2005 WMS problems in 1.0.6 Functional and basic stress tests available.
Single File Catalog (FiReMan)	February 2, 2005. February 2, 2005. Weekly upgrades needed.	February 7, 2005 Functional tests available.
gLite I/O	Available.	Available. Functional tests and basic stress tests available. 19 bugs reported, 4 open.
File Transfer/Placement Service	February 2, 2005. February 2. Frozen version. New version being finalized for Service Challenges.	February 7, 2005 Testing has stopped.
User Interfaces	February 2, 2005 for WMS and RGMA. Lcg_utils needs to be ported. February 17 (WMS, Data Management, R-GMA, VOMS) in AFS.	February 25, 2005 Will be in 1.0.9 (March 7, 2005) No formal testing. Bugs reported through daily usage.
R-GMA	Available. Tests cases being defined and implemented by UK.	Available. Deployment problems also observed by RAI/NIKHEF.
VOMS	Available. Testing will be carried by INFN.	February 7, 2005 Problems using old server

- **JDL**

```
Executable = "/bin/sh";  
Arguments = "job4.sh";  
StdOutput = "stdout.log";  
StdError = "stderr.log";  
StorageIndex = "http://lxb2028.cern.ch:8080/EGEE/glite-data-catalog-service-fr/services/SEIndex" ;  
InputData = { "lfn:/tmp/hemmer/test/InputFile" };  
DataAccessProtocol= "gridftp";  
InputSandBox = {"job4.sh", "sqrt" };  
OutputSandbox = {"stdout.log", "stderr.log"};
```

- **WMS Matching**

[lxbplus.cern.ch] glite-job-list-match job4.jdl

Selected Virtual Organisation name (from proxy certificate extension): EGEE

Connecting to host gundam.cnaf.infn.it, port 7772

COMPUTING ELEMENT IDs LIST

The following CE(s) matching your job requirements have been found:

CEId

lxb2022.cern.ch:2119/blah-lsf-jra1_high

lxb2022.cern.ch:2119/blah-lsf-jra1_low

Workload Management

- glite-job-attach
- glite-job-cancel
- glite-job-get-chkpt
- glite-job-list-match
- glite-job-logging-info
- glite-job-output
- glite-job-status
- glite-job-submit
- glite-lb-dump
- glite-lb-load
- glite-lb-logevent
- glite-lb-purge

R-GMA

- rgma (interpreter)

VOMS

- voms-proxy-destroy
- voms-proxy-info
- voms-proxy-init

Catalog

- glite-catalog-chkperm
- glite-catalog-chmod
- glite-catalog-create
- glite-catalog-getacl
- glite-catalog-getattr
- glite-catalog-getdefacl
- glite-catalog-getguid
- glite-catalog-getreplica
- glite-catalog-ls
- glite-catalog-mkdir
- glite-catalog-mv
- glite-catalog-rm
- glite-catalog-rmdir
- glite-catalog-setacl
- glite-catalog-setattr
- glite-catalog-setdefacl
- glite-catalog-setdefperm
- glite-catalog-setreplica
- glite-catalog-setschema
- glite-catalog-stat
- glite-catalog-symlink
- glite-catalog-touch

gLite I/O (Catalog & SRM)

- glite-get
- glite-put
- glite-rm

- **WMS**
 - Task Queue, Pull mode, Data management interface
 - Available in the prototype
 - Used in the testing testbed
 - *Basic functionality and stress test available*
 - Delivered to SA1
 - *But not working on the certification testbed yet*
- **Catalog**
 - MySQL and Oracle
 - Available in the prototype
 - Used in the testing testbed
 - *Basic test available*
 - Delivered to SA1
 - *But not used yet*
- **gLite I/O**
 - Available in the prototype
 - Used in the testing testbed
 - Basic functionality and stress test available
 - Delivered to SA1
 - *But not used yet*
- **FTS**
 - Available in the prototype
 - But should not be used anymore
 - JRA1 testing has stopped
 - FTS is being evolved with LCG
 - Milestone on March 15, 2005
- **UI**
 - Available in the prototype
 - Includes data management
 - Not yet delivered to SA1
 - Not yet formally tested
- **R-GMA**
 - Available in the prototype
 - Testing has shown deployment problems
- **VOMS**
 - Available in the prototype
 - No tests available
 - Delivered to SA1
 - Interoperability problems

- **Condor-C Proxy renewal**
 - Promised for a long time
 - Only received on March 3, 2005 (part of Condor 6.7.6 to be released March 11, 2005)
 - A workaround is possible on the worker nodes
- **File Transfer Service**
 - The version in Release 1 is *not* the one that is going to be used for service Challenges
 - FTS is being evolved as required by SA1 service Challenges
 - Weekly monitoring
 - Status at:
<http://egee-jra1-dm.web.cern.ch/egee-jra1-dm/transfer/index.htm>
 - Milestone to have a stable “demo” running by March 15, 2005
- **VOMS**
 - Seems to be incompatible with previous version (Tbc)
 - Only discovered when deployed by SA1
- **RGMA**
 - Difficult to install and make it work
- **Service Discovery API**
 - Changes requested by developers
 - Will not be in Release 1

- **JRA1**
 - WMS: <http://egee-jra1.web.cern.ch/egee-jra1/gLite/I20050218/WMSTesting.htm>
 - Catalog: <https://edms.cern.ch/file/568048/1/Fireman-test-050225.doc>
 - gLite I/O: <https://edms.cern.ch/document/571060>
- **SA1**
 - Weekly reports: <http://egee-docs.web.cern.ch/egee-docs/list.php?dir=.\Testing\Testing%20Reports\&>
 - Daily reports: <http://egee-docs.web.cern.ch/egee-docs/list.php?dir=.\Testing\Meeting%20minutes\&>
- **NA4**
 - ARDA: http://lcg.web.cern.ch/lcg/PEB/arda/LCG_ARDA_Glite.htm
- **gLite Progress**
 - <http://cern.ch/egee-jra1/gLite/Status.htm>

- **Workload Management**
 - LB: <http://egee-jra1-wm.mi.infn.it/egee-jra1-wm/documents/LB-guide.pdf>
 - JDL: <https://edms.cern.ch/document/555796/>
- **Data Management**
 - Overview: <https://edms.cern.ch/file/570643/1/EGEE-TECH-570643-v1.0.pdf>
 - Glite I/O: <https://edms.cern.ch/file/570771/1/EGEE-TECH-570771-v1.0.pdf>
 - FiReMan: <https://edms.cern.ch/file/570780/1/EGEE-TECH-570780-v1.0.pdf>
 - Cli:
 - Lcg-utils comparison: <http://egee-jra1-dm.web.cern.ch/egee-jra1-dm/lcg-utils-glite.htm>
- **R-GMA**
 - User Guides (Java, C, C++, Python), API's, Service Discovery: <http://hepunix.rl.ac.uk/egee/jra1-uk/glite/doc/index.html>
- **VOMS**

¹ Links may be temporary; documentation has not been reviewed yet

- **Before February 18, 2005, SA1 received weekly integration releases *at the same time* than JRA1 Testing team**
 - Addressing the wish of SA1 to see the code as early as possible
 - Caused confusion and/or duplication of efforts, as the same bugs were discovered by the two teams
 - It was decided to release weekly integration builds one week *after* the have been used by JRA1 testing
 - Naming changed
 - Example: I20050225_RC vs. I20050225
- **Weekly releases are too frequent for SA1 testing**
 - No decision yet
 - JRA1 will for now still produce a weekly release
- **Testing efforts have been merged between JRA1/SA1 and NA4**
 - High priority goal to port LCG-2 Test Suite to gLite
 - Coordinated by a daily meeting

- **All modules are available in the prototype**
- **gLite distribution has been cleaned up containing only modules as defined at last meeting**
- **We are in the middle of the testing**
 - There is an agreement between JRA1/SA1 and NA4 on how to proceed with testing
 - Additional efforts have been requested from RAL and INFN
- **Developers priority is to fix bugs**
- **Too early to say that the middleware will be ready for end users at the end of the month**
 - But certification has started
- **Documentation is on the critical path**
 - For deployment
 - For end users