



Enabling Grids for
E-science in Europe

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MNA4.1 Discussion and Tests Status

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MNA4.1: Work done

- Milestone Definition:
"Definition of requirements from applications and first version of associated testsuite".
- "Definition of requirements": The applications requirements had been collected.
- "First version of associated testsuite": That is the point where a discussion is needed.

MNA4.1 : Discussion 1/2

- The Marc Elian (NA1) point of view:
 - The missing part to the completion of this milestone is: "first version of associated testsuite"
 - The testsuite has to be demonstrated on gLite in a representative environment (e.g. Testing testbed (JRA1), Pre-Production Service).
 - Therefore, the scope for the second half of the milestone is to have a first testcase, running against a subset of gLite services.
 - It is understood that this milestone is dependent on the availability of gLite services, which is outside the control of NA4. NA4 and JRA1 testing teams are collaborating in order to reduce unnecessary delays in this matter.

To summarise, the milestone will be completed, when a testcase, outputting the agreed XML format, will run successfully against gLite services.

MNA4.1 : Discussion 2/2

- The NA4 Test Team point of view:
 - The missing part to the completion of this milestone is: "first version of associated testsuite"
=> We have a first version of a testsuite that run on the current production testbed (LCG2)
 - The testsuite has to be demonstrated on gLite in a representative environment (e.g. Testing testbed (JRA1), Pre-Production Service).
=> At this time the pre-production is under construction (and equal to production testbed)
 - Therefore, the scope for the second half of the milestone is to have a first testcase, running against a subset of gLite services.
=> The next testsuite with the Test Cases coming from Use Cases will run on an available gLite testbed
 - It is understood that this milestone is dependent on the availability of gLite services, which is outside the control of NA4. NA4 and JRA1 testing teams are collaborating in order to reduce unnecessary delays in this matter.
=> We run our current tests on LCG2 and will develop and test the new ones for gLite on the JRA1 testing testbed
- We have to converge. (Discussion)

Test Status

- People status
 - 2 full time people since the beginning of the project
 - A new full time people since the beginning of this month
- Testbed Resources
 - We have an access to the JRA1 testing testbed
 - We have an access to the LCG (production) testbed with an entry on the dteam VO and an application VO
- Share the JRA1 CVS repository
- We participate to many working groups and are “volunteer” to moderate the deliverables that could have a great interest for us (already DSA1.1 and DJRA1.2)

Test Status

- New version of the NA4 Test Plan available on EDMS:
<https://edms.cern.ch/document/477168> (still in progress)
- First Test Cases available on EDMS (human readable):
<https://edms.cern.ch/document/499858> (still in progress)
- First Test Cases available on EGEE CVS (XML):
<http://jra1mw.cvs.cern.ch:8180/cgi-bin/jra1mw.cgi/org.glite.testing.system/doc/>

```

1 <?xml version = "1.0" encoding="ISO-8859-1" ?>
2 <TESTCASE xmlns:xsd="http://www.w3.org/2001/XMLSchema">
3 <TESTCASENAME>ExecutionParallelJob</TESTCASENAME>
4 <ID>T1001</ID>
5 <VERSION>0.1</VERSION>
6 <DESCRIPTION>
7   <ID>Test the middleware capacity to support parallel job
  submission (by specifying a number of hosts to allocate at submission
  time, at least at a site scale).</ID>
8   <ID>Test the existency of a message passing interface (preferably
  MPI).</ID>
9 </DESCRIPTION>
10 <TESTTYPE>
11   <TYPE>Functionnal</TYPE>
12 </TESTTYPE>
13 <SERVICES>
14   <TYPE ID="WM">
15     <VERSION>yyyyy</VERSION>
16   </TYPE>
17   <TYPE ID="GAS">
18     <VERSION>yyyyy</VERSION>
19   </TYPE>
20   <TYPE ID="CE">
21     <VERSION>yyyyy</VERSION>
22   </TYPE>
23 </SERVICES>
24 <TESTDEPENDENCY>
25   <TEST ID="T0101">
26     <DESC>Simple job submission no resub</DESC>
27   </TEST>
28 </TESTDEPENDENCY>
29 <BUGREFERENCE>
30   <BUG><DESC></DESC></BUG>
31 </BUGREFERENCE>
32 <USECASEREERENCE>
33   <UC ID="EO">
34     <DESC>UC#PJ</DESC>
35   </UC>
36   <UC ID="Biomed">
37     <DESC>UC#paralleljobsubmit</DESC>
38   </UC>
39 </USECASEREERENCE>
40 <TESTSETUP>
41   <TYPE ID="Global">
42     <DESC>Max time allowed for testing(XXXs)</DESC>
43     <DESC>Testbed available and reliable during the time
44

```

3.1. TEST CASE : EXECUTION PARALLEL JOB

Test case name	ExecutionParallelJob
Test case ID	T1001
Version	0.1
Description	Objectives : <ul style="list-style-type: none"> • Test the middleware capacity to support parallel job submission (by specifying a number of hosts to allocate at submission time, at least at a site scale). • Test the existency of a message passing interface (preferably MPI). Tested features : <ul style="list-style-type: none"> • Documentation • MPI support
Test Type	Functionnal
Services tested	WM vXXXXXX GAS vXXXXXX CE vXXXXXX
Tests dependency	T0101 Job submission simple no resub
Bug reference identifier(s) (optional)	XXXX
Use Cases reference identifier(s) (optional)	EO: UC#PJ Biomed: UC#paralleljobsubmit
Test setup	<ul style="list-style-type: none"> • Valid Certificates • Authentication • Authorization using the vo: xxx • Max time allowed for testing (240s) • Availability of the parallel job support by gLite • Simple jdl file describing a parallel job • Simple program file with input file(s) associated • All temporary files and folders created • Testbed available and reliable during the time allowed for testing
Test teardown (optional)	<ul style="list-style-type: none"> • Remove jobs that may remain in the WMS
Test case execution	<ul style="list-style-type: none"> • Submitting a job with the jdl file, the associated program and its input file(s) • Checking informations concerning the job in the II service • Monitoring the job until it reaches the "done" status • Retrieving the output • Checking the test result
Test results expected	<ul style="list-style-type: none"> • Files coming from the standard output with the expected string
Comments	

Test Status

- Definition of common tools/formats with other testing activities on EGEE (not enough fast from our point of view)
 - About testing framework
 - About the xml output format
 - About the test case config file format
 - ...
- Provide some inputs on the PTF group
 - A common API definition
 - Priority of the functionalities/tests
 - ...

- To modify the current set of tests that run on LCG2 to have XML outputs.
- To start moving the current tests to the python language.
- To start the development of the new tests (once the APIs are available).
- To continue the writing of the Test Cases (human readable and XML ways).
- To participate to the definition of common format for the EGEE tests.

Summary

- Definition of the test case is done (around 25)
- A first version of the tests are available and can be performed on the production testbed
 - => the definition of the milestone MNA4.1 is not really clear and should be clarify to know if the milestone is completed
- The tests definition and implementation are on a good way
 - => this work is dependent on others activities (APIs availability, format definition, testbed availability...)
- A new people is now involved in the team