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Certification report patch 4880

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Outcome: **In certification**

Information

| | |
|---------------|---|
| Patch 4880 | WMS 3.2.17 |
| Build reports | http://etics-repository.cern.ch/repository/reports/id/f4f1f0a7-8d46-455a-a2e7-e9764f236ba2/slc4_ia32_gcc |
| Repository | http://etics-repository.cern.ch/repository/pm/registered/repomd/name/patch_4880_1/index.html |

Clean installation

- Starting from an sl4 we install the WMS:
 - ◆ `wget http://grid-deployment.web.cern.ch/grid-deployment/glite/repos/3.1/lcg-CA.repo -O /etc/yum.repos.d/lcg-CA.repo`
 - ◆ `yum install lcg-CA`
 - ◆ `wget http://etics-repository.cern.ch/repository/pm/registered/repomd/name/patch_4880_1/etics-registered-bu -O /etc/yum.repos.d/glite.repo`
 - ◆ `yum install glite-WMS`
 - ◆ `/opt/glite/yaim/bin/yaim -c -s site-info.def -n WMS`

Upgrade from production

- Starting from a Production WMS:

```
[root@devel18 etc]# yum update
Loading "kernel-module" plugin
Loading "versionlock" plugin
Loading "installonlyn" plugin
Loading "changelog" plugin
Loading "tsflags" plugin
Loading "protectbase" plugin
Setting up Update Process
Setting up repositories
dag                               100% |=====| 1.1 kB    00:00
slc-update                        100% |=====| 951 B     00:00
slc4-base                        100% |=====| 951 B     00:00
slc4-updates                      100% |=====| 951 B     00:00
EGI-trustanchors                 100% |=====| 1.9 kB    00:00
sl-base                          100% |=====| 1.1 kB    00:00
slc4-extras                     100% |=====| 951 B     00:00
glite-WMS                       100% |=====| 951 B     00:00
slc-base                         100% |=====| 1.1 kB    00:00
CA                               100% |=====| 951 B     00:00
ETICS-name-patch_4880_1          764 B    00:00
cnafl-local                      100% |=====| 951 B     00:00
Reading repository metadata in from local files
primary.xml.gz                   100% |=====| 4.4 MB    00:00
dag                               : ##### 12410/12410
Added 12410 new packages, deleted 0 old in 50.16 seconds
primary.xml.gz                   100% |=====| 2.7 MB    00:00
slc-update: ##### 8677/8677
Added 8677 new packages, deleted 0 old in 46.93 seconds
```

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```

primary.xml.gz          100% |=====| 707 kB    00:00
slc4-base : ##### 1923/1923
Added 1923 new packages, deleted 0 old in 10.18 seconds
primary.xml.gz          100% |=====| 3.2 MB    00:00
slc4-updat: ##### 8573/8573
Added 8573 new packages, deleted 0 old in 45.44 seconds
primary.xml.gz          100% |=====| 19 kB     00:00
EGI-trusta: ##### 96/96
Added 96 new packages, deleted 0 old in 0.28 seconds
primary.xml.gz          100% |=====| 599 kB    00:00
sl-base  : ##### 1848/1848
Added 1848 new packages, deleted 0 old in 9.98 seconds
primary.xml.gz          100% |=====| 233 kB    00:00
slc4-extra: ##### 1442/1442
Added 1442 new packages, deleted 0 old in 3.17 seconds
primary.xml.gz          100% |=====| 75 kB     00:00
glite-WMS : ##### 279/279
Added 279 new packages, deleted 0 old in 1.70 seconds
primary.xml.gz          100% |=====| 604 kB    00:00
slc-base : ##### 1923/1923
Added 1923 new packages, deleted 0 old in 8.46 seconds
primary.xml.gz          100% |=====| 15 kB     00:00
CA       : ##### 95/95
Added 95 new packages, deleted 0 old in 0.21 seconds
primary.xml.gz          35 kB 00:00
ETICS-name: ##### 94/94
Added 94 new packages, deleted 0 old in 0.48 seconds
primary.xml.gz          100% |=====| 2.7 kB    00:00
cnafl-local: ##### 17/17
Added 17 new packages, deleted 0 old in 0.03 seconds
Reading version lock configuration
108 packages excluded due to repository protections
Resolving Dependencies
--> Populating transaction set with selected packages. Please wait.
--> Downloading header for glite-jdl-api-cpp to pack into transaction set.
glite-jdl-api-cpp-3.1.18- 100% |=====| 5.3 kB    00:00
--> Package glite-jdl-api-cpp.i386 0:3.1.18-0.slc4 set to be updated
--> Downloading header for glite-WMS to pack into transaction set.
glite-WMS-3.1.32-0.slc4.i 100% |=====| 4.4 kB    00:00
--> Package glite-WMS.i386 0:3.1.32-0.slc4 set to be updated
--> Running transaction check

```

Dependencies Resolved

```

=====
Package                Arch      Version      Repository      Size
=====
Updating:
  glite-WMS              i386     3.1.32-0.slc4  ETICS-name-patch_4880_1  5.3 k
  glite-jdl-api-cpp      i386     3.1.18-0.slc4  ETICS-name-patch_4880_1  2.6 M
=====

```

Transaction Summary

```

=====
Install      0 Package(s)
Update      2 Package(s)
Remove      0 Package(s)
Total download size: 2.6 M
Is this ok [y/N]: y
Downloading Packages:
(1/2): glite-jdl-api-cpp-3.1.18-0.slc4.i386.rpm          2.6 MB 00:00
(2/2): glite-WMS-3.1.32-0 100% |=====| 5.3 kB  00:00
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Updating   : glite-jdl-api-cpp          ##### [1/4]
  Updating   : glite-WMS                  ##### [2/4]

```

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```
Cleanup : glite-jdl-api-cpp ##### [3/4]
Cleanup : glite-WMS ##### [4/4]
```

```
Updated: glite-WMS.i386 0:3.1.32-0.slc4 glite-jdl-api-cpp.i386 0:3.1.18-0.slc4
Complete!
```

Test Report

The test report has been produced following the guidelines from here

List Match

List match without data

```
====> ++++++
====> + TestSuite of the gLite-WMS service
====> + Description: WMS Job List-match Testing
====> ++++++

Test 1: check if command glite-wms-job-list-match exists

Test 2: test a simple matching

Test 3: check --delegationid option

Test 4: match only CREAM CE

Test 5: try a failure matching (Requirements == false)

====>
====> Test: WMS-listmatch-test.py
====> WMS: cream-44.pd.infn.it
====> Started: 15:42:43
====> Ended : 15:42:55
====>
====>      === test PASSED ===
```

List match with data

```
[ale@cream-12 DataReq]$ glite-wms-job-list-match -a -c ../etc/wmp_cream-44.conf data-req.jdl
```

```
Connecting to the service https://cream-44.pd.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
```

COMPUTING ELEMENT IDs LIST

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

```
*CEId*
- cert-15.pd.infn.it:8443/cream-lsf-cert
- cert-37.pd.infn.it:8443/cream-lsf-cert
- cream-19.pd.infn.it:8443/cream-lsf-cert
```

- cream-19.pd.infn.it:8443/cream-lsf-creamcert1
- cream-19.pd.infn.it:8443/cream-lsf-creamcert2
- cream-24.pd.infn.it:8443/cream-lsf-cert
- cream-24.pd.infn.it:8443/cream-lsf-testbedB_1
- cream-24.pd.infn.it:8443/cream-lsf-testbedB_2
- cream-26:2119/jobmanager-lcgpbs-cert
- cream-26:2119/jobmanager-lcgpbs-creamtest1
- cream-26:2119/jobmanager-lcgpbs-creamtest2
- cream-32.pd.infn.it:8443/cream-pbs-creamtest1
- cream-32.pd.infn.it:8443/cream-pbs-creamtest2
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-cert
- prod-ce-01.pd.infn.it:8443/cream-lsf-cert
- prod-ce-02.pd.infn.it:2119/jobmanager-lcglsf-cert

=====

Submission

Normal, Collection, parametric, dag and parallel jobs

```
====> ++++++
====> + TestSuite of the gLite-WMS command line interface
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

- Test 1: Submit a normal job to an LCG-CE
- Test 2: Submit a normal job to a CREAM CE
- Test 3: Submit a normal job
- Test 4: Submit a job collection to an LCG-CE
- Test 5: Submit a job collection to CREAM CE
- Test 6: Submit a job collection
- Test 7: Submit a parametric job to an LCG-CE
- Test 8: Submit a parametric job to CREAM CE
- Test 9: Submit a parametric job
- Test 10: Submit a DAG job
- Test 11: Submit MPI job to an LCG-CE
- Test 12: Submit MPI job to CREAM CE
- Test 13: Submit MPI job

```
====>
```

List match with data

```
====> Test: WMS-job-cycle.py
====> Started: 10:19:43
====> Ended  : 14:48:37
====>
====>     >>> TEST SUCCESS <<<
```

Perusal

```
====> ++++++
====> + TestSuite of the gLite-WMS command line interface
====> + Description: test glite-wms-job-persual commmad
====> ++++++
```

Test 1

```
====> >>> Check if command glite-wms-job-perusal exists
```

Test 2

```
====> >>>
====> >>> Test --version option
====> >>> We are testing WMS User Interface version 3.3.2
```

Test 3

```
====> >>>
====> >>> Test --set option
```

Test 4

```
====> >>>
====> >>> Test --unset option
```

Test 5

```
====> >>>
====> >>> Test --set and --config options
```

Test 6

```
====> >>>
====> >>> Test --set and --output options
```

Test 7

```
====> >>>
====> >>> Test --set and --logfile options
```

Test 8

```
====> >>>
====> >>> Test --set --logfile and --debug option
```

Test 9

```
====> >>>
====> >>> Test --set and --nodisplay options
====> >>>
====> >>> Test --set option
```

Test 10

```
====> >>>
```

BEWARE default min perusal interval is 1000 secs, so this phase could take many minutes

```
==> >>> Test --get option
```

```
Test 11
```

```
==> >>>
```

```
==> >>> Test --get option with --dir
```

```
Test 12
```

```
==> >>>
```

```
==> >>> Test --get option with --nodisplay and --all
```

```
Test 13
```

```
==> >>>
```

```
==>
```

```
==> Test: WMS-command_job-perusal.py
```

```
==> Started: 15:45:37
```

```
==> Ended : 19:23:49
```

```
==>
```

```
==>      === test PASSED ===
```

Cancel

```
==> ++++++
```

```
==> + TestSuite of the gLite-WMS command line interface
```

```
==> + Description: WMS Job Cancel Testing
```

```
==> ++++++
```

```
Test 1: Try to cancel a normal job
```

```
Test 2: Try to cancel a DAG job
```

```
Test 3: Try to cancel one node of a DAG job
```

```
Test 4: Try to cancel a collection job
```

```
Test 5: Try to cancel one node of a collection job
```

```
Test 6: Try to cancel a parametric job
```

```
Test 7: Try to cancel one node of a parametric job
```

```
Test 8: Try to cancel a MPI job
```

```
Test 9: Try to cancel a DoneOK job
```

```
==>
```

```
==> Test: WMS-job-cancel.py
```

```
==> WMS: cream-44.pd.infn.it
```

```
==> Started: 12:05:03
```

```
==> Ended : 12:40:19
```

```
==>
```

```
==>      === test PASSED ===
```

Delegation

```
====> ++++++  
====> + TestSuite of the gLite-WMS command line interface  
====> + Description: test delegation operation  
====> ++++++
```

Enter the user proxy password:

Test 1: Check --autm-delegation option

Test 2: Check --delegationid option

Test 3: Try to delegate with a short proxy and check the validity

Test 4: Works with expired proxy

```
====>  
====> Test: WMS-delegation-test.py  
====> WMS: cream-44.pd.infn.it  
====> Started: 14:00:15  
====> Ended   : 14:01:38  
====>  
====>      === test PASSED ===
```

Prologue/Epilogue

```
====> ++++++  
====> + TestSuite of the gLite-WMS command line interface  
====> + Description: WMS test prologue and epilogue attributes  
====> ++++++
```

Test 1: Test prologue attribute

Test 2: Test epilogue attribute

Test 3: Test prologue and epilogue attributes

```
====>  
====> Test: WMS-prologue-epilogue.py  
====> WMS: cream-44.pd.infn.it  
====> Started: 17:38:28  
====> Ended   : 17:43:57  
====>  
====>      === test PASSED ===
```

Test proxy renewal

```
====> ++++++  
====> + TestSuite of the gLite-WMS command line interface  
====> + Description: WMS test proxy renewal operation  
====> ++++++
```

Enter the user proxy password:

Test 1: Test proxy renewal with LCG CE

Cancel

Test 2: Test proxy renewal with CREAM CE

Test 3: Test proxy renewal with LCG CE (without setting MYPROXYSERVER)

Test 4: Test proxy renewal with CREAM CE (without setting MYPROXYSERVER)

```
====>
====> Test: WMS-proxy-renewal.py
====> WMS: devel18.cnaf.infn.it
====> Started: 13:15:52
====> Ended  : 13:54:50
====>
====>      === test PASSED ===
```

Shallow/Deep Resubmission

```
====> ++++++
====> + TestSuite of the gLite-WMS command line interface
====> + Description: WMS Job Resubmission Testing
====> ++++++
```

Test 1: Try a shallow resubmission

Test 2: Try a deep resubmission

```
====>
====> Test: WMS-job-resubmit.py
====> WMS: cream-44.pd.infn.it
====> Started: 18:17:05
====> Ended  : 18:46:54
====>
====>      === test PASSED ===
```

Performance test

Collection of 1000 nodes

- Collection ID: <https://devel07.cnaf.infn.it:9000/0sqJfQjOX17cHiF5vONNDw>
- Nodes are submitted to a production environment:
 - ◆ 320 are executed on a LCG CE
 - ◆ 680 are executed in a CREAM CE
- Final Status:
 - ◆ 1000 Done (Success)

Stress Test

Description:

- 355 collection of 25 nodes each (total: 8875 jobs)
- One collection every 60 seconds
- two users
- Use LCG-CEs and CREAM-CEs from production environment (with different batch systems)
- Use automatic-delegation
- The job is a "sleep random(666)"
- Resubmission is enabled

- Enable proxy renewal

Results:

- DONE OK: 8636 (97.3%)
- Aborted: 239 (proxy expired) (2.7%)

Check bugs

Bugs #82654: URLs in ISB are sometimes converted to lowercase by WMproxy FIXED

Submit this jdl:

```
[ale@cream-12 UI]$ cat 82654.jdl
[
Type = "collection";
Nodes = {
[
NodeName    = "NodeName_0_0";
Executable  = "submit.sh";
Arguments   = "cmsdataops_JH_gLite_test_110519_113545-Sandbox.tar.bz2 9352";
StdOutput   = "9352_0.stdout";
StdError    = "9352_0.stderr";
OutputSandboxBaseDestURI = "gsiftp://vocms37.cern.ch/data/wmagent/osb/JobCache/cmsdataops_JH_gLit
OutputSandbox = {"Report.0.pkl",".BrokerInfo", "9352_0.stdout","9352_0.stderr"};
InputSandbox = {"gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty","gsiftp://vocms37.cern
],
[
NodeName    = "NodeName_1_0";
Executable  = "submit.sh";
Arguments   = "cmsdataops_JH_gLite_test_110519_113545-Sandbox.tar.bz2 6133";
StdOutput   = "6133_0.stdout";
StdError    = "6133_0.stderr";
OutputSandboxBaseDestURI = "gsiftp://vocms37.cern.ch/data/wmagent/osb/JobCache/cmsdataops_JH_gLit
OutputSandbox = {"Report.0.pkl",".BrokerInfo", "6133_0.stdout","6133_0.stderr"};
InputSandbox = {"gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty","gsiftp://vocms37.cern
]
};
InputSandbox = {"gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager/w
Requirements = Member("VO-cms-slc5_ia32_gcc434", other.GlueHostApplicationSoftwareRunTimeEnvironm
MyProxyServer = "myproxy.cern.ch";
VirtualOrganization = "cms";
RetryCount = 0;
DefaultNodeRetryCount = 0;
ShallowRetryCount = -1;
DefaultNodeShallowRetryCount = -1;
SignificantAttributes = {"Requirements", "Rank", "FuzzyRank"};
]
}
```

```
[ale@cream-12 UI]$ glite-wms-job-submit -a -e https://devel18.cnaf.infn.it:7443/glite_wms_wmproxy
```

```
Connecting to the service https://devel18.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
===== glite-wms-job-submit Success =====
```

```
The job has been successfully submitted to the WMPProxy
Your job identifier is:
```

Stress Test

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<https://devel07.cnaf.infn.it:9000/VbYQLwwE3f4LFWEv6-xb0Q>

=====

Then verify the InputSandbox in the submitted jdl:

```
[ale@cream-12 UI]$ glite-wms-job-info --jdl https://devel07.cnaf.infn.it:9000/VbYQLwwE3f4LFWEv6-xb0Q
InputSandbox = { "gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty", "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
InputSandbox = { "gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty", "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
InputSandbox = { "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
```

Note, if you try in an *old WMS (i.e. pre-patch)* you should have:

```
[ale@cream-12 UI]$ glite-wms-job-info --jdl https://devel17.cnaf.infn.it:9000/Hh7KhY4cn49XIZHpgfL
InputSandbox = { "gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty", "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
InputSandbox = { "gsiftp://vocms37.cern.ch/tmp/glite.submit.fakefile.empty", "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
InputSandbox = { "gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/WorkQueueManager" }
```

As you can see the file

gsiftp://vocms37.cern.ch/data/projects/v0.7.5/install/wmagent/workqueuemanager/wf/cmsdataops_jh_glite_test_11051
in the second entry is expressed in lower case

-- AlessioGianelle - 2011-06-16

This topic: [EgeeJra1It > WmsTestsP4880](#)

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