

Table of Contents

WMS test report.....	1
Summary.....	1
Clean installation.....	1
Update.....	1
Test Report.....	2
List Match.....	2
List match without data.....	2
Submission.....	2
Normal job.....	2
Collection job.....	3
Parametric job.....	3
DAG job.....	4
Parallel job.....	4
Perusal job.....	4
Cancel.....	5
Others.....	5
Delegation.....	5
Prologue/Epilogue.....	6
Test proxy renewal.....	6
Shallow/Deep Resubmission.....	7
Published information.....	7
bdb database definitions.....	7
Stats database definitions.....	7
GLUE 2.0 database definitions.....	7
Check Bugs (Regression tests).....	7
Bug #85071: wmpoxy authorization breaks with longer proxy chain FIXED.....	7

WMS test report

Summary

- Component: **WMS 3.3.3**
- Savannah task: 21777
- ETICS Subsystem Configuration Name: **emi-wms_R_3_3_5_1**
- VCS Tag: *glite-wms-wmproxy_R_3_3_3_0*
- EMI Major Release: **EMI 1 (Kebnekaise)**
- Platform: sl5 epel
- Certification report: WMS-3-3-3_Certification_Report.txt
- Outcome: **Certified**

Clean installation

- Starting from a SL5 x86_64 kernel machine:

```
[root@cream-44 ~]# cat /etc/redhat-release
Scientific Linux SL release 5.6 (Boron)
[root@cream-44 ~]# uname -a
Linux cream-44.pd.infn.it 2.6.18-238.5.1.el5xen #1 SMP Tue Mar 1 19:22:01 EST 2011 x86_64 x86_64
```

- cd /etc/yum.repos.d/
- wget --no-check-certificate https://twiki.cern.ch/twiki/pub/EMI/EMI1Updates/testing.repo
- yum clean all
- yum install ca-policy-egi-core
- yum install emi-wms
 - o See log file
- /opt/glite/yaim/bin/yaim -c -s /usr/local/nfs/jra1_test/cream-44/site-info_wms.def -n WMS
 - o See log file

Update

- Starting from a production version:

```
[root@cream-48 yum.repos.d]# cat /etc/emi-release
EMI release 1.0 (Kebnekaise)
[root@cream-48 yum.repos.d]# cat /etc/emi-version
1.1.2-1
```

- wget --no-check-certificate https://twiki.cern.ch/twiki/pub/EMI/EMI1Updates/testing.repo -O /etc/yum.repos.d/testing.repo
- yum clean all
- yum update
- /opt/glite/yaim/bin/yaim -c -s site-info.def -n WMS
- yum update

- ◆ See log file
- /opt/glite/yaim/bin/yaim -c -s /usr/local/nfs1/jra1_test/cream-48/site-info_wms.def -n WMS
- ◆ See log file

Test Report

List Match

List match without data

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Job ListMatch Testing
====> ++++++

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

Test 2: test a simple matching

Test 3: check --delegationid option

Test 4: exclude a CE from the match

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

====>
====> Test: WMS-listmatch-test.py
====> WMS: devel11.cnaf.infn.it
====> Started: 23:07:24
====> Ended   : 23:07:32
====>
====>     === test PASSED ===
====>
```

Test log file is WMSService-TS_20110803230724.log

Submission

Normal job

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++

Set 1: Submit a normal job (3 cases LCG-CE, CREAM, general)

Test 1A: Submit to an LCG-CE

Test 1B: Submit to a CREAM CE

Test 1C: Submit without restrictions

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

Update

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```
====> WMS: devel111.cnaf.infn.it
====> Started: 23:30:43
====> Ended   : 23:36:29
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110803233043.log

Collection job

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Set 2: Submit a bulk of jobs (3 cases LCG-CE, CREAM, general)

Test 2A: Submit to an LCG-CE

Test 2B: Submit to a CREAM CE

Test 2C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: devel111.cnaf.infn.it
====> Started: 23:47:25
====> Ended   : 00:05:59
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110803234725.log

Parametric job

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Set 3: Submit a parametric job (3 cases LCG-CE, CREAM, general)

Test 3A: Submit to an LCG-CE

Test 3B: Submit to a CREAM CE

Test 3C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: devel111.cnaf.infn.it
====> Started: 13:58:29
====> Ended   : 14:47:14
====>
====>      === test PASSED ===
====>
```

Normal job

Test log file is WMSService-TS_20110804135829.log

DAG job

```
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output

Set 4: Submit a DAG job

====>
====> Test: WMS-job-cycle.py
====> WMS: devel11.cnaf.infn.it
====> Started: 08:47:32
====> Ended : 08:54:44
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804084732.log

Parallel job

```
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output

Set 5: Submit a MPI job (3 cases LCG-CE, CREAM, general)

Test 5A: Submit to an LCG-CE

Test 5B: Submit to a CREAM CE

Test 5C: Submit without restrictions

====>
====> Test: WMS-job-cycle.py
====> WMS: devel11.cnaf.infn.it
====> Started: 14:34:21
====> Ended : 14:40:40
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804143421.log

Perusal job

```
+ TestSuite of the WMS Service
+ Description: Test a complete job cycle: from submission to get output

Set 6: Submit a perusal job

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

====>
```

Parametric job

```
====> Test: WMS-job-cycle.py
====> WMS: devel11.cnaf.infn.it
====> Started: 14:45:51
====> Ended   : 15:15:17
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804144551.log

Cancel

```
====> ++++++
====> + TestSuite of the WMS Service
====> + 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: WMS-job-cancel.py
====> WMS: devel11.cnaf.infn.it
====> Started: 10:02:38
====> Ended   : 10:05:22
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804100238.log

Others

Delegation

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test delegation operation
====> ++++++

Enter the user proxy password:

Test 1: Check --autm-delegation option

Test 2: Check --delegationid option
```

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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: devel111.cnaf.infn.it
====> Started: 10:10:17
====> Ended   : 10:11:32
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804101017.log

Prologue/Epilogue

```
====> ++++++
====> + TestSuite of the WMS Service
====> + 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: devel111.cnaf.infn.it
====> Started: 10:15:23
====> Ended   : 10:23:14
====>
====>      === test PASSED ===
====>
```

Test log file is WMSService-TS_20110804101523.log

Test proxy renewal

```
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS test proxy renewal operation
====> ++++++
```

Enter the user proxy password:

Test 1: Test proxy renewal with LCG CE

Test 2: Test proxy renewal with CREAM CE

```
====>
====> Test: WMS-proxy-renewal.py
====> WMS: devel111.cnaf.infn.it
====> Started: 12:51:25
====> Ended   : 13:26:21
====>
====>      === test PASSED ===
====>
```

Delegation

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==> Test log file is WMSService-TS_20110804125125.log

Test log file is WMSService-TS_20110804125125.log

Shallow/Deep Resubmission

```
==> ++++++
==> + TestSuite of the WMS Service
==> + Description: WMS Job Resubmission Testing
==> ++++++
```

Test 1: Try a shallow resubmission

Test 2: Try a deep resubmission

```
==>
==> Test: WMS-job-resubmit.py
==> WMS: devel11.cnaf.infn.it
==> Started: 13:37:19
==> Ended  : 13:49:59
==>
==>      === test PASSED ===
==>
```

Test log file is WMSService-TS_20110804133719.log

Published information

bdb database definitions

- `ldapsearch -x -H ldap://cream-44.pd.infn.it:2170 -b 'o=grid'`

Output is here

Stats database definitions

- `ldapsearch -x -H ldap://cream-44.pd.infn.it:2170 -b 'o=infosys'`

Output is here

Output is xx

GLUE 2.0 database definitions

- `ldapsearch -x -H ldap://cream-44.pd.infn.it:2170 -b 'o=glue'`

Output is here

Check Bugs (Regression tests)

Bug #85071 : wmpoxy authorization breaks with longer proxy chain FIXED

```
[sgaravat@cream-50 JDLEexamples]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Massimo Sgaravatto
```

Test proxy renewal

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```
Enter GRID pass phrase for this identity:
Creating proxy .....
Proxy Verify OK
Your proxy is valid until: Wed Aug 10 22:58:21 2011
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 168 hours (7.0 days) for user /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=

[sgaravat@cream-50 JDLEexamples]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Massimo Sgaravatto/CN=proxy/CN=pr
Contacting voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
Creating proxy .....

Your proxy is valid until Thu Aug 4 09:58:55 2011
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Massimo

[sgaravat@cream-50 JDLEexamples]$ glite-wms-job-submit -a -c devel11.conf env.jdl

Connecting to the service https://devel11.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:

https://devel11.cnaf.infn.it:9000/COeI001Cmz6T6e-0ylEUyA

=====
```

Trying the same towards a WMS without this fix:

```
$ glite-wms-job-submit -a -c devel09.conf env.jdl

Connecting to the service https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_server

Warning - Unable to delegate the credential to the endpoint: https://devel09.cnaf.infn.it:7443/gl
AuthorizationException: Authorization error: user not authorized
    at
checkGaclUserAuthZ() [/build/builddir/build/BUILD/glite-wms-wmproxy-3.3.2/build/./src/authorizer/wmpaut
    at
checkGaclUserAuthZ() [/build/builddir/build/BUILD/glite-wms-wmproxy-3.3.2/build/./src/authorizer/wmpaut
    at authorize() [/build/builddir/build/BUILD/glite-wms-wmproxy-3.3.2/build/./src/authorizer/wmpa
    at getProxyReq() [/build/builddir/build/BUILD/glite-wms-wmproxy-3.3.2/build/./src/server/wmpope

Switching to next WMPProxy Server...

Error - Operations failed
Unable to find any endpoint where to perform service request
```

-- MassimoSgaravatto - 2011-08-03

This topic: WMS > Task21777

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