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WMS test report

Summary

- Component: **WMS 3.3.4**
- Savannah task: 22847
- ETICS Subsystem Configuration Name: **emi-wms_R_3_3_6_3 emi-jdl_R_3_2_6_1**
- VCS Tag: *emi-ice_R_3_3_4_1, emi-wms-manager_R_3_3_1_4, emi-jobsubmission_R_3_3_2_1, emi-wmproxy_R_3_3_4_2, emi-wms-brokerinfo_R_3_3_2_1, emi-wms-configuration_R_3_3_2_1, emi-wms-ism_R_3_3_2_1, emi-wms-matchmaking_R_3_3_2_1, emi-wms-purger_R_3_3_2_1, emi-yaim-wms_R_4_1_4_3, emi-jdl-api-cpp_R_3_2_6_1, emi-wms-nagios_R_1_0_0_0, emi-wms-mp_R_1_0_2_0*
- EMI Major Release: **EMI 1 (Kebnekaise)**
- Platform: sl5 epel
- Certification report: not yet available
- Outcome: **Certification under way**

Deployment Tests

Clean installation

- Starting from a SL5 x86_64 kernel machine:

```
[root@emi-demo11 ~]# cat /etc/redhat-release
Scientific Linux SL release 5.7 (Boron)
[root@emi-demo11 ~]# uname -a
Linux emi-demo11.cnaf.infn.it 2.6.18-274.12.1.el5 #1 SMP Tue Nov 29 11:14:39 EST 2011 x86_64 x86_64
```

- Import EMI rpm gpg key

```
[root@emi-demo11 ~]# wget http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi -O /tmp/emi-key_gd.asc
[root@emi-demo11 ~]# rpm --import /tmp/emi-key_gd.asc
```

- `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`
 - ◆ See `install.log`: Clean install log
- `/opt/glite/yaim/bin/yaim -c -s siteinfo/site-info.def -n WMS`
 - ◆ See `yaim-install.log`: yaim install log

Update

- Starting from a production version, repo available at http://emisoft.web.cern.ch/emisoft/dist/EMI/1/sl5/x86_64/updates/emi-release-1.0.1-1.sl5.noarch.rpm

WMSCertificationExercise < WMS < TWiki

```
[root@emi-demo12 yum.repos.d]# rpm -qa|grep wms-manager
glite-wms-manager-3.3.1-3.s15
```

- `wget --no-check-certificate https://twiki.cern.ch/twiki/pub/EMI/EMI1Updates/testing.repo -O /etc/yum.repos.d/testing.repo`
- `yum clean all`
- `service gLite stop`
- `yum update`
- `/opt/glite/yaim/bin/yaim -c -s site-info.def -n WMS`
 - ◆ `update.log: Update log`
- Check final version:

```
[root@emi-demo12 siteinfo]# rpm -qa|grep wms-manager
glite-wms-manager-3.3.1-4.s15
```

Proxy mode

The same update procedure has been applied on a wms configured in proxy mode. emi-demo12 being the wms and emi-demo11 the LB server. In order to configure emi-demo12 in proxy mode the following lines have been defined in the site-info.def file:

```
# Hostname of the WMS
WMS_HOST=emi-demo12.$MY_DOMAIN
LB_HOST=emi-demo11.$MY_DOMAIN
```

and the following lines in siteinfo/services/glite-wms :

```
LB_HOST="emi-demo11.cnaf.infn.it:9000"
#GLITE_LB_TYPE=both
GLITE_LB_TYPE=proxy
```

On emi-demo11 the following lines have been defined in the site-info.def file:

```
GLITE_LB_WMS_DN="/C=IT/O=INFN/OU=Host/L=CNAF/CN=emi-demo12.cnaf.infn.it"
GLITE_LB_AUTHZ_REGISTER_JOBS=".*"
```

Unit Tests

N/A: Tests will be available with EMI-2.

Basic Functionality tests

Submission

Where possible the tests should use internal testbed CEs (located in Padova). This is accomplished by adding the following line to wms-command.conf:

```
DEFAULTREQ= other.GlueCEStateStatus == "Testing"
```

This is not possible, for example, for parallel jobs.

Normal

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
==> ++++++
==> + TestSuite of the WMS Service
```

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```
==> + Description: Test a complete job cycle: from submission to get output
==> ++++++
```

Enter the user proxy password:

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
==> WMS: emi-demoll.cnaf.infn.it
==> Started: 17:09:32
==> Ended  : 17:21:55
==>
==>      === test PASSED ===
==>
==> Test log file is WMSservice-TS_20111228170932.log
```

```
[capannini@devel15 WMS-service]$ voms-proxy-init --voms dteam:/dteam/NGI_IT:operator
Enter GRID pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Creating temporary proxy ..... Done
Contacting voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr]
Creating proxy ..... Done
```

Your proxy is valid until Thu Dec 29 23:31:47 2011

```
[capannini@devel15 WMS-service]$ voms-proxy-info --all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
type      : proxy
strength  : 1024 bits
path      : /tmp/x509up_u504
timeleft  : 11:59:51
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
```

```
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
attribute : /dteam/NGI_IT/Role=operator/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
attribute : /dteam/Role=NULL/Capability=NULL
timeleft  : 11:59:51
uri       : voms2.hellasgrid.gr:15004
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
==> ++++++
==> + TestSuite of the WMS Service
==> + Description: Test a complete job cycle: from submission to get output
==> ++++++
```

Enter the user proxy password:

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

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Test 1C: Submit without restrictions

====>

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

====> WMS: emi-demo11.cnaf.infn.it

====> Started: 11:32:22

====> Ended : 11:40:10

====>

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

====>

====> Test log file is WMSService-TS_20111229113222.log

```
[capannini@devel15 WMS-service]$ voms-proxy-init --voms testers.eu-emi.eu
```

Enter GRID pass phrase:

Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini

Creating temporary proxy Done

Contacting emitestbed07.cnaf.infn.it:15002 [/C=IT/O=INFN/OU=Host/L=CNAF/CN=emitestbed07.cnaf.infn.it]

Creating proxy Done

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
```

====> ++++++

====> + TestSuite of the WMS Service

====> + Description: Test a complete job cycle: from submission to get output

====> ++++++

Enter the user proxy password:

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

====> WMS: emi-demo11.cnaf.infn.it

====> Started: 11:45:01

====> Ended : 11:52:20

====>

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

====>

====> Test log file is WMSService-TS_20111229114501.log

```
[fabiok@ui WMS-service]$ voms-proxy-init --voms infngrid
```

Enter GRID pass phrase:

Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini

Creating temporary proxy Done

Contacting voms.cnaf.infn.it:15000 [/C=IT/O=INFN/OU=Host/L=CNAF/CN=voms.cnaf.infn.it] "infngrid"

Creating proxy Done

Your proxy is valid until Thu Dec 29 23:45:58 2011

```
[fabiok@ui WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V infngrid -d 3 -l -t 1 -i
```

====> ++++++

====> + TestSuite of the WMS Service

====> + Description: Test a complete job cycle: from submission to get output

====> ++++++

Enter the user proxy password:

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

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Test 1A: Submit to an LCG-CE

Test 1B: Submit to a CREAM CE

Test 1C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 11:46:25
====> Ended   : 11:52:40
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20111229114625.log
```

See submit.log.tgz: Normal submission logs

Proxy mode

There is a problem with the configuration of emi-demo12 (wms in proxy mode) pointing to emi-demo11 (wms in both mode): the events Running,ReallyRunning and Done Ok are not logged by emi-demo11 (and don't appear in the logging-info), even if they are present in the lserver20 db of emi-demo12. These events are instead correctly logged if emi-demo11 is configured as LB in server mode. Thus, in order to properly test a wms in proxy mode, then it should point to a LB server not in both mode.

ARC CE

Job submitted on a production CE using the cms VO.

```
[capannini@cert-17 regression_tests]$ lcg-infosites --is egee-bdii.cnaf.infn.it --vo cms ce |grep
   80      0      95      5      95  arc.univ.kiev.ua:2811/nordugrid-torque-arc
  768     707     196     61     196  jade-cms.hip.fi:2811/nordugrid-GE-arc
   256      0      0      0      0  korundi.grid.helsinki.fi:2811/nordugrid-GE-a
```

```
[cristofori@ui ~]$ glite-wms-job-submit -e https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy
```

```
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/e4f1VtGXy_I_2MS2dVUs4g
```

```
=====
```

```
[cristofori@ui ~]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/e4f1VtGXy_I_2MS2dVUs4g
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/e4f1VtGXy_I_2MS2dVUs4g
Current Status:      Done (Success)
Exit code:           0
```

Proxy mode

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```
Status Reason:      Job terminated successfully
Destination:       jade-cms.hip.fi:2811/nordugrid-GE-arc
Submitted:        Tue Mar 27 14:27:13 2012 CEST
```

```
[cristofori@ui ~]$ glite-wms-job-output --dir ./ https://emi-demol1.cnaf.infn.it:9000/e4f1VtGXy_I
```

```
Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
JOB GET OUTPUT OUTCOME
```

```
Output sandbox files for the job:
https://emi-demol1.cnaf.infn.it:9000/e4f1VtGXy_I_2MS2dVUs4g
have been successfully retrieved and stored in the directory:
/home/GUEST/cristofori/cristofori_e4f1VtGXy_I_2MS2dVUs4g
```

```
=====
[cristofori@ui ~]$ cat /home/GUEST/cristofori/cristofori_e4f1VtGXy_I_2MS2dVUs4g/stderr.log
[cristofori@ui ~]$ cat /home/GUEST/cristofori/cristofori_e4f1VtGXy_I_2MS2dVUs4g/stdout.log
cmsuser07
```

Jdl with *DataRequirements*

In case of problems with lcg-ce, it is possible to create replicas of the file on other SEs close to different lcg-ces.

```
[capannini@devel15 WMS-service]$ lcg-rep --vo dteam -d srm://gridsrm.pi.infn.it:8444/dteam/fcapan
GSIFTP: source: set up FTP mode. DCAU disabled. Streams = 1, Tcp BS = 0
GSIFTP: dest: set up FTP mode. DCAU disabled. Streams = 1, Tcp BS = 0
Transfer completed successfully
[capannini@devel15 WMS-service]$ lcg-rep --vo dteam -d srm://gridsrm.pi.infn.it:8444/dteam/fcapan
GSIFTP: source: set up FTP mode. DCAU disabled. Streams = 1, Tcp BS = 0
GSIFTP: dest: set up FTP mode. DCAU disabled. Streams = 1, Tcp BS = 0
Transfer completed successfully
```

The ce/se couple can be found looking for "/jobmanager" in the output of the following command:
[capannini@devel15 WMS-service]\$ lcg-infosites --vo dteam closeSE

The GlueVOInfoPath of the storage area to be used in the srm url after the endpoint can be found
ldapsearch -x -LLL -H ldap://egee-bdii.cnaf.infn.it:2170 -b mds-vo-name=local,o=grid '(&(objectC
(/dteam was picked up in this test)

the lcg-ce to be excluded can be specified in the testsuite configuration file (wms-command.conf)
DEFAULTREQ=!regexp(".*cel130.*", other.GlueCEUniqueID) && !regexp(".*cel131.*", other.GlueCEUniqueID)

In the following test the lcg-ce was the following (by inspecting the log):
Destination CE is cel132.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam

```
[capannini@devel15 WMS-service]$ cat JDLs/data-req.jdl
#####
#           JDL with Data Requirements           #
#####
```

```
Executable = "/bin/ls";
Arguments = "-la";
StdOutput = "std.out";
StdError = "std.err";
Prologue = "prologue.sh";
```


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```
FuzzyRank = true;
Environment={"LFC_HOST=prod-lfc-shared-central.cern.ch", "LFC_HOME=prod-lfc-shared-central.cern.c
InputSandbox = {"JDLs/prologue.sh"};
OutputSandbox = {"std.out", "std.err", "prologue.out", "PI_1M.txt"};

DataRequirements = {
[
DataCatalogType = "DLI";
DataCatalog ="http://prod-lfc-shared-central.cern.ch:8085/";
InputData = { "lfn:/grid/dteam/fcapanni/PI_1M.txt" };
]
};
```

```
DataAccessProtocol = "gsiftp";
AllowZippedISB=true;
RetryCount = 1;
ShallowRetryCount = 2;
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
==> ++++++
==> + TestSuite of the WMS Service
==> + Description: Test a complete job cycle: from submission to get output
==> ++++++
```

Enter the user proxy password:

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
==> WMS: emi-demo11.cnaf.infn.it
==> Started: 12:24:32
==> Ended : 12:36:28
==>
==>      === test PASSED ===
==>
==> Test log file is WMSservice-TS_20120110122432.log
```

Jdl with *ISBBaseURI* and *OSBDestURI*

Test on CREAM ce:

```
[capannini@devel15 certificazione]$ cat URI.jdl
#####
#      JDL with ISBURI & OSBDestURI      #
#####
```

```
Executable = "exe.sh";
StdOutput = "std.out";
StdError = "std.err";
```

```
InputSandboxBaseURI = "gsiftp://devel11.cnaf.infn.it:2811/tmp";
```

```
FuzzyRank = true;
InputSandbox = {"exe.sh", "test1", "test2"};
```

Jdl with DataRequirements

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```
OutputSandbox = {"std.out", "std.err"};
OutputSandboxDestURI = {"gsiftp://devel09.cnaf.infn.it:2811/tmp/myjobOutput", "std.err"};

#requirements = other.GlueCEStateStatus == "Testing" && regexp("/cream", other.GlueCEUniqueID);
requirements = regexp("/cream", other.GlueCEUniqueID);
DataAccessProtocol = "gsiftp";
RetryCount = 1;
ShallowRetryCount = 2;

[capannini@devel15 certificazione]$ cat tmp/exe.sh
#!/bin/sh

NAME=`echo $GLITE_WMS_JOBID | sed -e 's/.*\///'`

echo $NAME

ls -l

[capannini@devel15 certificazione]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf URI.jdl

Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/NAwVzPx1PqGYz-Kf2xWLNg

=====

[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/NAwVzPx1PqGYz-Kf2xWLNg

===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/NAwVzPx1PqGYz-Kf2xWLNg
Current Status:      Done (Success)
Exit code:           0
Status Reason:       Job Terminated Successfully
Destination:         inaf-ce-01.ct.pi2s2.it:8443/cream-lsf-cert
Submitted:           Thu Dec 29 16:20:11 2011 CET
=====

[capannini@devel15 certificazione]$ glite-wms-job-output https://emi-demo11.cnaf.infn.it:9000/NAwVzPx1PqGYz-Kf2xWLNg

Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server

=====

                JOB GET OUTPUT OUTCOME

Output sandbox files for the job:
https://emi-demo11.cnaf.infn.it:9000/NAwVzPx1PqGYz-Kf2xWLNg
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/capannini_NAwVzPx1PqGYz-Kf2xWLNg

=====

[capannini@devel15 certificazione]$ ls /tmp/jobOutput/capannini_NAwVzPx1PqGYz-Kf2xWLNg
std.err
```

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Log on devel09.cnaf.infn.it:

```
[root@devel09 ~]# cat /tmp/myjobOutput
NAwVzPx1PqGYz-Kf2xWLNg
total 16
-rwxr-xr-x 1 dteam002 dteam 80 Dec 29 16:20 exe.sh
-rw-r--r-- 1 dteam002 dteam  0 Dec 29 16:20 std.err
-rw-r--r-- 1 dteam002 dteam 23 Dec 29 16:20 std.out
-rw-r--r-- 1 dteam002 dteam  6 Dec 29 16:20 test1
-rw-r--r-- 1 dteam002 dteam  6 Dec 29 16:20 test2

==>  test PASSED
```

Same process with an LCG CE:

```
[capannini@devel15 certificazione]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf URI.jdl
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/d4akLe8H2jynZpCPe5jGxA
```

```
=====
```

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/d4a
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/d4akLe8H2jynZpCPe5jGxA

Current Status: Done (Success)

Logged Reason(s):

- Job got an error while in the CondorG queue.
- Job terminated successfully

Exit code: 0

Status Reason: Job terminated successfully

Destination: gridce.sns.it:2119/jobmanager-lcgpbs-cert

Submitted: Fri Dec 30 11:43:28 2011 CET

```
=====
```

```
[capannini@devel15 certificazione]$ glite-wms-job-output https://emi-demo11.cnaf.infn.it:9000/d4a
```

```
Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
```

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:

```
https://emi-demo11.cnaf.infn.it:9000/d4akLe8H2jynZpCPe5jGxA
```

have been successfully retrieved and stored in the directory:

```
/tmp/jobOutput/capannini_d4akLe8H2jynZpCPe5jGxA
```

```
=====
```

```
[capannini@devel15 certificazione]$ ls -l /tmp/jobOutput/capannini_d4akLe8H2jynZpCPe5jGxA
```

WMSCertificationExercise < WMS < TWiki

```
total 0
-rw-r--r-- 1 capannini emitestbed 0 Dec 30 13:08 std.err

Log on devel09.cnaf.infn.it:

[root@devel09 tmp]# ls -l myjobOutput
-rw-r--r-- 1 dteam042 dteam 714 30 dic 13:01 myjobOutput
[root@devel09 tmp]# cat myjobOutput
d4akLe8H2jynZpCpE5jGxA
total 36
-rwxr-xr-x 1 dteam003 dteam 80 Dec 30 13:00 exe.sh
-rw-r--r-- 1 dteam003 dteam 154 Dec 30 13:01 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fd4akL
-rw-r--r-- 1 dteam003 dteam 0 Dec 30 13:01 std.err
-rw-r--r-- 1 dteam003 dteam 23 Dec 30 13:01 std.out
-rw-r--r-- 1 dteam003 dteam 6 Dec 30 13:00 test1
-rw-r--r-- 1 dteam003 dteam 6 Dec 30 13:00 test2
-rw----- 1 dteam003 dteam 2 Dec 30 13:01 tmp.GPdus14280
-rw----- 1 dteam003 dteam 2 Dec 30 13:01 tmp.OAref14000
-rw----- 1 dteam003 dteam 103 Dec 30 13:01 tmp.QtSZI14001
-rw----- 1 dteam003 dteam 0 Dec 30 13:01 tmp.vFipq14279
-rw----- 1 dteam003 dteam 103 Dec 30 13:01 tmp.YUTON14281

==> test PASSED
```

Jdl with *ISBBaseURI* and *OSBBaseDestURI*

Submit to CREAM CE

```
[capannini@devel15 certificazione]$ cat BaseURI.jdl
#####
# JDL with ISBURI & OSBBaseDestURI #
#####

Executable = "exe.sh";
StdOutput = "std.out";
StdError = "std.err";

InputSandboxBaseURI = "gsiftp://devel11.cnaf.infn.it:2811/tmp";

FuzzyRank = true;
InputSandbox = {"exe.sh", "test1", "test2"};
OutputSandbox = {"std.out", "std.err"};
OutputSandboxBaseDestURI="gsiftp://devel09.cnaf.infn.it:2811/tmp";

#requirements = other.GlueCEStateStatus == "Testing" && regexp("/cream", other.GlueCEUniqueID);
requirements = regexp("/cream", other.GlueCEUniqueID);

RetryCount = 1;
ShallowRetryCount = 2;

[capannini@devel15 certificazione]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf BaseURI.jdl
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ

=====

[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
```

WMSCertificationExercise < WMS < TWiki

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
Current Status:      Done (Success)
Exit code:          0
Status Reason:      Job Terminated Successfully
Destination:        t2-ce-01.to.infn.it:8443/cream-pbs-short
Submitted:          Fri Dec 30 12:47:43 2011 CET
=====
```

```
[capannini@devel15 certificazione]$ glite-wms-job-output https://emi-demol1.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
```

```
Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
```

```
JOB GET OUTPUT OUTCOME
```

```
No output files to be retrieved for the job:
https://emi-demol1.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
```

```
=====
```

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demol1.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/bRxuYfMUA79tvRXdrpgJdQ
Current Status:      Cleared
Status Reason:       user retrieved output sandbox
Destination:         t2-ce-01.to.infn.it:8443/cream-pbs-short
Submitted:           Fri Dec 30 12:47:43 2011 CET
=====
```

```
Log on devel09.cnaf.infn.it:
```

```
[root@devel09 tmp]# ls std*
std.err  std.out
```

```
[root@devel09 tmp]# cat std.out
bRxuYfMUA79tvRXdrpgJdQ
total 16
-rwxr-xr-x 1 dteam029 dteam 80 Dec 30 12:48 exe.sh
-rw-r--r-- 1 dteam029 dteam  0 Dec 30 12:48 std.err
-rw-r--r-- 1 dteam029 dteam 23 Dec 30 12:48 std.out
-rw-r--r-- 1 dteam029 dteam  6 Dec 30 12:48 test1
-rw-r--r-- 1 dteam029 dteam  6 Dec 30 12:48 test2
```

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

Submit to an LCG CE:

```
[capannini@devel15 certificazione]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf BaseURI.jdl
```

```
Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

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

```
The job has been successfully submitted to the WMPProxy
```

WMSCertificationExercise < WMS < TWiki

Your job identifier is:

https://emi-demo11.cnaf.infn.it:9000/pX2yRjupthmRSr8bqf5_Bg

=====

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/pX2
```

```
===== glite-wms-job-status Success =====  
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/pX2yRjupthmRSr8bqf5_Bg  
Current Status:      Done (Success)  
Exit code:           0  
Status Reason:      Job terminated successfully  
Destination:        grid-ce.lns.infn.it:2119/jobmanager-lcgpbs-short  
Submitted:          Fri Dec 30 13:18:38 2011 CET  
=====
```

```
[capannini@devel15 certificazione]$ glite-wms-job-output https://emi-demo11.cnaf.infn.it:9000/pX2
```

```
Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

=====

JOB GET OUTPUT OUTCOME

```
No output files to be retrieved for the job:  
https://emi-demo11.cnaf.infn.it:9000/pX2yRjupthmRSr8bqf5\_Bg
```

=====

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/pX2
```

```
===== glite-wms-job-status Success =====  
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/pX2yRjupthmRSr8bqf5_Bg  
Current Status:      Cleared  
Status Reason:      user retrieved output sandbox  
Destination:        grid-ce.lns.infn.it:2119/jobmanager-lcgpbs-short  
Submitted:          Fri Dec 30 13:18:38 2011 CET  
=====
```

Log on devel09.cnaf.infn.it:

```
[root@devel09 tmp]# ls -l std*  
-rw-r--r-- 1 dteam042 dteam  0 30 dic 13:19 std.err  
-rw-r--r-- 1 dteam042 dteam 727 30 dic 13:19 std.out
```

```
[root@devel09 tmp]# cat std.out  
pX2yRjupthmRSr8bqf5_Bg  
total 36  
-rwxr-xr-x  1 dteam050 dteam  80 Dec 30 13:19 exe.sh  
-rw-r--r--  1 dteam050 dteam 118 Dec 30 13:19 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fpX2y  
-rw-r--r--  1 dteam050 dteam   0 Dec 30 13:19 std.err  
-rw-r--r--  1 dteam050 dteam  23 Dec 30 13:19 std.out  
-rw-r--r--  1 dteam050 dteam   6 Dec 30 13:19 test1  
-rw-r--r--  1 dteam050 dteam   6 Dec 30 13:19 test2  
-rw-----  1 dteam050 dteam 103 Dec 30 13:19 tmp.csGdY18153  
-rw-----  1 dteam050 dteam   0 Dec 30 13:19 tmp.FBSue18151  
-rw-----  1 dteam050 dteam   2 Dec 30 13:19 tmp.FZDLk18152
```

WMSCertificationExercise < WMS < TWiki

```
-rw----- 1 dteam050 dteam  2 Dec 30 13:19 tmp.Hds1V18137
-rw----- 1 dteam050 dteam 103 Dec 30 13:19 tmp.hS1sL18138
```

Jdl with *AllowZippedISB*

```
[capannini@devel15 certificazione]$ cat AllowZIP.jdl
#####
#   JDL with AllowZippedISB attribute   #
#####

Executable = "/bin/ls";
Arguments = "-la";
StdOutput = "std.out";
StdError = "std.err";

InputSandbox = {"fileA", "fileB", "fileC", "fileD", "fileE"};
OutputSandbox = {"std.out", "std.err"};

#requirements = other.GlueCEStateStatus == "Testing" && regexp("/cream", other.GlueCEUniqueID);
requirements = regexp("/cream", other.GlueCEUniqueID);

AllowZippedISB=true;

RetryCount = 1;
ShallowRetryCount = 2;

[capannini@devel15 certificazione]$ glite-wms-job-submit --debug -a -c ~/wms_emi-demoll.conf AllowZIP.jdl
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Vo read from proxy certificate extension
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - VirtualOrganisation value : dteam
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Configuration file: /home/capannini/wms_emi-demoll.conf
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Loaded user configuration file:
/home/capannini/wms_emi-demoll.conf
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Configuration file: //etc/glite-wms/dteam/glite_wmsui.conf
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Loaded Vo specific configuration file:
//etc/glite-wms/dteam/glite_wmsui.conf
-----
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Loaded Configuration values:
[
  JdlDefaultAttributes =
  [
    PerusalFileEnable = false;
    ShallowRetryCount = 10;
    SignificantAttributes = { "Requirements","Rank","FuzzyRank" };
    RetryCount = 3;
    AllowZippedISB = true;
    VirtualOrganisation = "dteam";
    rank = -other.GlueCEStateEstimatedResponseTime;
    MyProxyServer = "myproxy.cnaf.infn.it";
    requirements = other.GlueCEStateStatus == "Production"
  ];
  OutputStorage = "/tmp";
  ListenerStorage = "/tmp";
  ErrorStorage = "/var/tmp";
  WmProxyEndpoints = { "https://emi-demoll.cnaf.infn.it:7443/glite_wms_wmproxy_server" }
]
```

WMSCertificationExercise < WMS < TWiki

```
]
-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Getting Endpoint URL from configuration file
-----

Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server

-----
30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Calling the WMProxy getVersion service
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - WMProxy Version: 3.3.4
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Sending Proxy Request to https://emi-demo11.cnaf.i
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Calling the WMProxy delegationns__getProxyReq serv
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - delegationns__getProxyReq - The proxy has been su
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Calling the WMProxy delegationns__putProxyReq serv
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - The proxy has been successfully delegated with the
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Calling the WMProxy getTransferProtocols service
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - getTransferProtocols - Available protocols: gsift
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - FileTransferProtocol not specified; using the defa
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - The JDL file is: /home/capannini/certificazione/AL
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Retrieving the list of the local ISB files from th
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Total size of the ISB file(s) to be transferred to
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Max single job size of the ISB file(s) to be trans
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Checking the User-FreeQuota on the server
-----

30 Dec 2011, 16:54:29 -I- PID: 23649 (Debug) - Calling the WMProxy getFreeQuota service
-----

30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - getFreeQuota - User freequota not set on the serv
-----

30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Getting the max ISB size from the server https://e
-----

30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Calling the WMProxy getMaxInputSandboxSize service
-----

30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - getMaxInputSandboxSize - Max ISB size information
```


WMSCertificationExercise < WMS < TWiki

```
-----  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - The max job size (1024000 bytes) doesn't exceed th  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - File archiving and file compression allowed by use  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Registering JDL [ StdOutput = "std.out"; ShallowRe  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Registering the job to the service https://emi-dem  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Calling the WMProxy jobRegister service  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - The JobId is: https://emi-dem011.cnaf.infn.it:900  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Archiving the ISB files: /tmp/ISBfiles_y8ovpm9W5-W  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - This archive file has been successfully created: /  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Compressing the file (.gz): /tmp/ISBfiles_y8ovpm9W  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - ISB ZIPPED file successfully created: /tmp/ISBfile  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Getting the SandboxDestinationURI from the service  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Calling the WMProxy getSandboxDestURI service with  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - getSandboxDestURI - Destination URIs sucessfully  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - DestinationURI: gsiftp://emi-dem011.cnaf.infn.it:2  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - FileTransfer (gsiftp): using globus-url-copy to tr  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - File Transfer (gsiftp)  
Command: /usr/bin/globus-url-copy  
Source: file:///tmp/ISBfiles_y8ovpm9W5-W_kUqpeNiCKA_0.tar.gz  
Destination: gsiftp://emi-dem011.cnaf.infn.it:2811/var/SandboxDir/nG/https_3a_2f_2femi-dem011.cna  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - File Transfer (gsiftp) Transfer successfully done  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Starting the job: https://emi-dem011.cnaf.infn.it  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - Calling the WMProxy jobStart service  
-----  
30 Dec 2011, 16:54:30 -I- PID: 23649 (Debug) - jobStart - The job has been successfully started  
-----  
===== glite-wms-job-submit Success =====
```

WMSCertificationExercise < WMS < TWiki

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

<https://emi-demol1.cnaf.infn.it:9000/nGo2GsPtKD3urj66sBnHLA>

=====

*** Log file created ***

Possible Errors and Debug messages have been printed in the following file:
/var/tmp/glite-wms-job-submit_504_23649_20111230_16-54-29.log

Check if AllowZippedISB has been included in the jdl:

```
[capannini@devel15 certificazione]$ glite-wms-job-info --jdl https://emi-demol1.cnaf.infn.it:9000/
  AllowZippedISB = true;
```

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demol1.cnaf.infn.it:9000/nGo
```

===== glite-wms-job-status Success =====

BOOKKEEPING INFORMATION:

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/nGo2GsPtKD3urj66sBnHLA
Current Status:      Done (Success)
Exit code:           0
Status Reason:      Job Terminated Successfully
Destination:        cremino.cnaf.infn.it:8443/cream-pbs-cert
Submitted:          Fri Dec 30 16:54:30 2011 CET
```

=====

```
[capannini@devel15 certificazione]$
[capannini@devel15 certificazione]$
[capannini@devel15 certificazione]$
[capannini@devel15 certificazione]$ glite-wms-job-output https://emi-demol1.cnaf.infn.it:9000/nGo
```

Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server

=====

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:
<https://emi-demol1.cnaf.infn.it:9000/nGo2GsPtKD3urj66sBnHLA>
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/capannini_nGo2GsPtKD3urj66sBnHLA

=====

```
[capannini@devel15 certificazione]$ ls -l /tmp/jobOutput/capannini_nGo2GsPtKD3urj66sBnHLA
total 4
-rw-r--r-- 1 capannini emitestbed  0 Dec 30 17:00 std.err
-rw-r--r-- 1 capannini emitestbed 623 Dec 30 17:00 std.out
[capannini@devel15 certificazione]$ cat /tmp/jobOutput/capannini_nGo2GsPtKD3urj66sBnHLA/std.out
total 1132
drwxr-xr-x 2 dteam011 dteam  4096 Dec 30 16:54 .
drwxr-xr-x 3 dteam011 dteam  4096 Dec 30 16:54 ..
-rw-r--r-- 1 dteam011 dteam  4037 Dec 30 16:54 .BrokerInfo
-rw-r--r-- 1 dteam011 dteam    2 Dec 30 16:54 fileA
-rw-r--r-- 1 dteam011 dteam    2 Dec 30 16:54 fileB
-rw-r--r-- 1 dteam011 dteam 102400 Dec 30 16:54 fileC
-rw-r--r-- 1 dteam011 dteam 102400 Dec 30 16:54 fileD
-rw-r--r-- 1 dteam011 dteam    2 Dec 30 16:54 fileE
-rw-r--r-- 1 dteam011 dteam    0 Dec 30 16:54 std.err
-rw-r--r-- 1 dteam011 dteam    0 Dec 30 16:54 std.out
-rw-r--r-- 1 dteam011 dteam    0 Dec 30 16:54 .tmp_file
```

WMSCertificationExercise < WMS < TWiki

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

Jdl with *ExpiryTime*

```
[capannini@devel15 certificazione]$ cat ExpiryTime.jdl
```

```
#####  
#           JDL with ExpiryTime attribute           #  
#####
```

```
Executable = "/bin/ls";  
Arguments = "-la";  
StdOutput = "std.out";  
StdError = "std.err";
```

```
InputSandbox = {"fileA", "fileB", "fileC", "fileD", "fileE"};  
OutputSandbox = {"std.out", "std.err"};
```

```
requirements = false;
```

```
ExpiryTime = 1325261887;
```

```
RetryCount = 1;  
ShallowRetryCount = 2;
```

```
[capannini@devel15 certificazione]$ date +%s  
1325261324
```

```
[capannini@devel15 certificazione]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf ExpiryTime.jdl
```

```
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/O6MWj0UPsVQblxDjgmo-gQ
```

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/O6MWj0UPsVQblxDjgmo-gQ
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/O6MWj0UPsVQblxDjgmo-gQ  
Current Status:      Waiting  
Status Reason:      BrokerHelper: no compatible resources  
Submitted:          Fri Dec 30 17:08:58 2011 CET
```

```
[capannini@devel15 certificazione]$ date +%s  
1325261928
```

```
[capannini@devel15 certificazione]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/O6MWj0UPsVQblxDjgmo-gQ
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/O6MWj0UPsVQblxDjgmo-gQ  
Current Status:      Aborted  
Status Reason:      request expired  
Submitted:          Fri Dec 30 17:08:58 2011 CET
```

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

Jdl with ShortDeadlineJob

To test SDJs the following bdi must be used: egee-bdi.cnaf.infn.it

```
[capannini@devel15 certificazione]$ cat SDLJ.jdl
#####
# JDL with ShortDeadlineJob attribute      #
#####

Executable = "/bin/ls";
Arguments = "-la";
StdOutput = "std.out";
StdError = "std.err";

InputSandbox = {"fileA", "fileB", "fileC", "fileD", "fileE"};
OutputSandbox = {"std.out", "std.err"};

requirements = true;

ShortDeadlineJob = true;

RetryCount = 1;
ShallowRetryCount = 2;
```

```
[capannini@devel15 certificazione]$ glite-wms-job-list-match -a -c ~/wms_emi-demol1.conf SDLJ.jdl
```

Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server

```
=====
```

COMPUTING ELEMENT IDs LIST
The following CE(s) matching your job requirements have been found:

- *CEId*
- ce01.marie.hellasgrid.gr:2119/jobmanager-pbs-sdj
- cream-ce01.marie.hellasgrid.gr:8443/cream-pbs-sdj
- grid4.mif.vu.lt:2119/jobmanager-lcgpbs-sdj
- grive02.ibcp.fr:8443/cream-pbs-sdj
- mario.univ-lille1.fr:8443/cream-pbs-sdj
- ce01.ariagni.hellasgrid.gr:2119/jobmanager-pbs-dteam.sdj
- cream-ce01.ariagni.hellasgrid.gr:8443/cream-pbs-dteam.sdj

```
=====
```

```
[capannini@devel15 certificazione]$ python ~/wms_tests/WMS-service/WMS-job-cycle.py -c ~/wms_test
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Enter the user proxy password:

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

WMSCertificationExercise < WMS < TWiki

Test 1C: Submit without restrictions

```
====>
====> Test: /home/capannini/wms_tests/WMS-service/WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 11:58:16
====> Ended   : 12:04:06
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120116115816.log
```

Log is here: WMSService-TS_20120116115816.log: sdj log

Collection

Bulk submission

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Enter the user proxy password:

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: emi-demoll.cnaf.infn.it
====> Started: 15:15:00
====> Ended   : 15:24:31
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120116151500.log
```

See log: WMSService-TS_20120116151500.log: bulk collection log

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Enter the user proxy password:

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

Collection

WMSCertificationExercise < WMS < TWiki

Test 2C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 15:46:24
====> Ended   : 15:56:56
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120116154624.log
```

See log: WMSService-TS_20120116154624.log: bulk collection log

```
[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Mon Jan 23 16:04:28 2012
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=CNAF/CN=Fabio Capannini
```

```
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr]
Creating proxy .....

Your proxy is valid until Tue Jan 17 03:32:47 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
```

```
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:54:56
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:53:55
uri       : voms.hellasgrid.gr:15004
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -d 3 -l -t 2
====> ++++++
====> + 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

WMSCertificationExercise < WMS < TWiki

Test 2C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 16:32:57
====> Ended  : 16:41:22
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120116163257.log
```

See log: WMSService-TS_20120116163257.log: bulk collection log

All in a jdl

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> +-----+
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> +-----+
```

Enter the user proxy password:

Set 7: Submit a bulk of jobs (3 cases LCG-CE, CREAM, general) using a single jdl with al the jdl

Test 7A: Submit to an LCG-CE

Test 7B: Submit to a CREAM CE

Test 7C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:04:17
====> Ended  : 10:36:27
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120117100417.log
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
====> +-----+
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> +-----+
```

Enter the user proxy password:

Set 7: Submit a bulk of jobs (3 cases LCG-CE, CREAM, general) using a single jdl with al the jdl

Test 7A: Submit to an LCG-CE

Test 7B: Submit to a CREAM CE

Test 7C: Submit without restrictions

All in a jdl

WMSCertificationExercise < WMS < TWiki

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 10:24:08
====> Ended   : 10:38:44
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120117102408.log

[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy .....
Proxy Verify OK
Your proxy is valid until: Tue Jan 24 11:18:37 2012
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=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
Contacting voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr]
Creating proxy .....

Your proxy is valid until Tue Jan 17 22:19:16 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:59:33
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:58:32
uri       : voms2.hellasgrid.gr:15004

[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++

Set 7: Submit a bulk of jobs (3 cases LCG-CE, CREAM, general) using a single jdl with all the jdl

Test 7A: Submit to an LCG-CE

Test 7B: Submit to a CREAM CE

Test 7C: Submit without restrictions

====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 11:19:59
```


WMSCertificationExercise < WMS < TWiki

```
====> Ended   : 11:29:26
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120117111959.log
```

See logs: coll.tgz: all in a jdl collection logs

Parametric job

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> + 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
```

Enter the user proxy password:

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: emi-demoll.cnaf.infn.it
====> Started: 10:46:35
====> Ended   : 10:53:22
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120118104635.log
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
====> + 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
```

Enter the user proxy password:

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: emi-demoll.cnaf.infn.it
====> Started: 10:47:30
====> Ended   : 10:53:46
====>
====>      === test PASSED ===
```

Parametric job

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====>

====> Test log file is WMSservice-TS_20120118104730.log

```
[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Wed Jan 25 10:48:21 2012
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=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr]
Creating proxy .....
```

```
Your proxy is valid until Wed Jan 18 21:48:49 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:59:51
key usage : Digital Signature, Key Encipherment, Data Encipherment
==== VO dteam extension information ====
```

```
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:58:50
uri       : voms.hellasgrid.gr:15004
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> ++++++
====> + 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: emi-demo11.cnaf.infn.it
====> Started: 10:49:51
====> Ended   : 10:55:10
====>
====>     === test PASSED ===
====>
```

WMSCertificationExercise < WMS < TWiki

====> Test log file is WMSService-TS_20120118104951.log

See logs: parametric.tgz: parametric logs

DAG job

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> + TestSuite of the WMS Service
```

Enter the user proxy password:

Set 4: Submit a DAG job

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 12:05:40
====> Ended : 12:10:56
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120118120540.log
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> + TestSuite of the WMS Service
```

Enter the user proxy password:

Set 4: Submit a DAG job

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 12:06:00
====> Ended : 12:11:15
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120118120600.log
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> + TestSuite of the WMS Service
```

Set 4: Submit a DAG job

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 12:06:30
====> Ended : 12:12:39
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120118120630.log
```

See logs: dag.tgz: dag logs

Parallel job

Setting II_Contact = "egee-bdii.cnaf.infn.it"; in glite_wms.conf and commenting #DEFAULTREQ=other.GlueCEStateStatus == "Testing"

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
===> ++++++
===> + TestSuite of the WMS Service
===> + Description: Test a complete job cycle: from submission to get output
===> ++++++
```

Enter the user proxy password:

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: emi-demoll.cnaf.infn.it
===> Started: 16:23:09
===> Ended : 16:27:29
===>
===>     === test PASSED ===
===>
===> Test log file is WMSService-TS_20120118162309.log
```

```
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 5:59:20
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 6:58:19
uri       : voms.hellasgrid.gr:15004
```

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
===> ++++++
===> + 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

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Test 5B: Submit to a CREAM CE

Test 5C: Submit without restrictions

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 16:23:22
====> Ended  : 16:29:12
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120118162322.log
```

See logs: parallel.tgz: parallel job logs

Testing forwarding parameters for parallel jobs

In order to test the passing of mpi parameters (wholenodes,smpgranularity,cpunumber,hostnumber) to the ce, an mpi jdl is submitted with varying values for the parameters, specifying a cream CE as destination. Then the cream jobid is retrieved via a glite-wms-job-logging-info -v 2 ("Dest jobid" field of a Transfer event). Finally the cream jdl is found via glite-ce-job-status -L 2 <cream-jobid>.

The following jdls were submitted:

1)

```
Executable = "openmpi-wrapper.sh";
Arguments="hello";
StdOutput  = "hello.out";
StdError   = "hello.err";
OutputSandbox = {"hello.out", "hello.err"};
InputSandbox = {"home/capannini/certification/mpi/openmpi-wrapper.sh", "home/capannini/certifica
Requirements = Member ("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment) && RegExp("
WholeNodes = true;
SMPGranularity = 2;
CpuNumber=2;
Hostnumber = 1;
```

Resulting cream JDL:

```
JDL          = [[ CEInfoHostName = "ce-qamar.utmgrid.utm.my"; OutputSandboxPath = "/var/Sand
```

2)

```
Executable = "openmpi-wrapper.sh";
Arguments="hello";
StdOutput  = "hello.out";
StdError   = "hello.err";
OutputSandbox = {"hello.out", "hello.err"};
InputSandbox = {"home/capannini/certification/mpi/openmpi-wrapper.sh", "home/capannini/certifica
Requirements = Member ("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment) && RegExp("
WholeNodes = true;
SMPGranularity = 2;
```

Resulting cream jdl:

```
JDL          = [[ CEInfoHostName = "ce-02.roma3.infn.it"; OutputSandboxPath = "/var/SandboxD
```

3)

WMSCertificationExercise < WMS < TWiki

```
Executable = "openmpi-wrapper.sh";
Arguments="hello";
StdOutput  = "hello.out";
StdError   = "hello.err";
OutputSandbox = {"hello.out", "hello.err"};
InputSandbox = {"~/home/capannini/certification/mpi/openmpi-wrapper.sh", "~/home/capannini/certifica
Requirements = Member ("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment) && RegExp("
WholeNodes = false;
SMPGranularity = 3;
CpuNumber=3;
Hostnumber = 1;
```

Submission result:

```
[capannini@devel15 mpi]$ glite-wms-job-submit -a -c ~/wms_emi-demol1.conf mpi.jdl
```

Connecting to the service https://emi-demol1.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error -

SMPGranularity and HostNumber are mutually exclusive when WholeNodes allocation is not requested:

4)

```
Executable = "openmpi-wrapper.sh";
Arguments="hello";
StdOutput  = "hello.out";
StdError   = "hello.err";
OutputSandbox = {"hello.out", "hello.err"};
InputSandbox = {"~/home/capannini/certification/mpi/openmpi-wrapper.sh", "~/home/capannini/certifica
Requirements = Member ("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment) && RegExp("
WholeNodes = false;
SMPGranularity = 3;
CpuNumber=3;
```

Resulting cream jdl:

```
JDL          = [[ CEInfoHostName = "ce-02.roma3.infn.it"; OutputSandboxPath = "/var/San
```

5)

```
Executable = "openmpi-wrapper.sh";
Arguments="hello";
StdOutput  = "hello.out";
StdError   = "hello.err";
OutputSandbox = {"hello.out", "hello.err"};
InputSandbox = {"~/home/capannini/certification/mpi/openmpi-wrapper.sh", "~/home/capannini/certifica
Requirements = Member ("OPENMPI", other.GlueHostApplicationSoftwareRunTimeEnvironment) && RegExp("
WholeNodes = true;
SMPGranularity = 8;
CpuNumber=8;
Hostnumber = 2;
```

Resulting ce jdl:

```
JDL          = [[ CEInfoHostName = "ce-02.roma3.infn.it"; OutputSandboxPath = "/var/SandboxD
```

--> Test PASSED

Perusal

```
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l -t
==> ++++++
```

Perusal

WMSCertificationExercise < WMS < TWiki

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

Enter the user proxy password:

Set 6: Submit a perusal job

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

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 10:12:07
====> Ended : 10:46:35
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120101207.log
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Enter the user proxy password:

Set 6: Submit a perusal job

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

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 14:28:05
====> Ended : 14:55:34
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120142805.log
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 6:31:39
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 7:30:39
uri       : voms2.hellasgrid.gr:15004
[capannini@devel15 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -d 3 -l -t 6
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test a complete job cycle: from submission to get output
====> ++++++
```

Set 6: Submit a perusal job

WMSCertificationExercise < WMS < TWiki

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

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 14:58:43
====> Ended  : 15:26:03
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120145843.log
```

See logs: perusal.tgz: perusal logs

Delegation

```
[capannini@devel15 WMS-service]$ python WMS-delegation-test.py -c wms-command.conf -V dteam -d 3
====> ++++++
====> + 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

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: emi-demoll.cnaf.infn.it
====> Started: 10:22:35
====> Ended  : 10:23:49
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120102235.log
```

```
[capannini@devel15 WMS-service]$ python WMS-delegation-test.py -c wms-command.conf -V testers.eu-
====> ++++++
====> + 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

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

Test 4: Works with expired proxy

```
====>
```

Delegation

WMSCertificationExercise < WMS < TWiki

```
====> Test: WMS-delegation-test.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:25:00
====> Ended : 10:26:14
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120102500.log

[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Fri Jan 27 10:27:27 2012
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=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
Contacting voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr]
Creating proxy ..... Done

Your proxy is valid until Fri Jan 20 21:27:59 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:59:47
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:58:47
uri       : voms2.hellasgrid.gr:15004
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ python WMS-delegation-test.py -c wms-command.conf -d 3 -l
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: Test delegation operation
====> ++++++

Test 1: Check --autm-delegation option

Test 2: Check --delegationid option

There are other two tests which require the user proxy password. Use -i option to enable them

====>
====> Test: WMS-delegation-test.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:28:43
```

WMSCertificationExercise < WMS < TWiki

```
====> Ended   : 10:28:46
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120120102843.log
```

See logs: [delegation.tgz](#): [delegation logs](#)

Job List-match

Without data

```
[capannini@devel15 WMS-service]$ python WMS-listmatch-test.py -c wms-command.conf -V dteam -d 3 -
====> + 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 6: try a matching with EnableWMSFeedback attribute true
====>
====> Test: WMS-listmatch-test.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 10:49:06
====> Ended   : 10:49:18
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120123104906.log
```

See log: [WMSService-TS_20120123104906.log](#): [list-match log](#)

```
[capannini@devel15 WMS-service]$ python WMS-listmatch-test.py -c wms-command.conf -V testers.eu-e
====> + 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
```

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Test 4: exclude a CE from the match

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

Test 6: try a matching with EnableWMSFeedback attribute true

```
====>
====> Test: WMS-listmatch-test.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 12:10:55
====> Ended : 12:11:07
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120123121055.log
```

See logs: WMSService-TS_20120123121055.log: list-match log

```
[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy ..... Done
Proxy Verify OK
Your proxy is valid until: Mon Jan 30 12:13:56 2012
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=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr]
Creating proxy ..... Done

Your proxy is valid until Mon Jan 23 23:14:19 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=proxy
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:59:52
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:58:52
uri       : voms.hellasgrid.gr:15004

[capannini@devel15 WMS-service]$ python WMS-listmatch-test.py -c wms-command.conf -d 3 -l
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Job ListMatch Testing
====> ++++++

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

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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 6: try a matching with EnableWMSFeedback attribute true

```
====>
====> Test: WMS-listmatch-test.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 12:15:09
====> Ended   : 12:15:15
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120123121509.log
```

See logs: WMSService-TS_20120123121509.log: list-match log

With data

```
[fabio@ui ~]$ export LFC_HOST=prod-lfc-shared-central.cern.ch
[fabio@ui ~]$ lcg-lr --vo dteam lfn:/grid/dteam/fcapanni/e-2M.txt
srm://gridsrm.pi.infn.it/dteam/fcapanni/e-2M.txt
srm://srm-public.cern.ch/castor/cern.ch/grid/dteam/fcapanni/e-2M.txt
The two SEs where the file can be found are gridsrm.pi.infn.it and srm-public.cern.ch.
```

```
[capannini@devel15 WMS-service]$ cat JDLs/data-req.jdl
#####
#           JDL with Data Requirements           #
#####

Executable = "/bin/ls";
Arguments = "-la";
StdOutput = "std.out";
StdError = "std.err";
Prologue = "prologue.sh";

FuzzyRank = true;
Environment={"LFC_HOST=prod-lfc-shared-central.cern.ch", "LFC_HOME=prod-lfc-shared-central.cern.ch", "PI_1M.txt"};
InputSandbox = {"JDLs/prologue.sh"};
OutputSandbox = {"std.out", "std.err", "prologue.out", "PI_1M.txt"};

DataRequirements = {
[
DataCatalogType = "DLI";
DataCatalog = "http://prod-lfc-shared-central.cern.ch:8085/";
InputData = { "lfn:/grid/dteam/fcapanni/PI_1M.txt" };
]
};

DataAccessProtocol = "gsiftp";
AllowZippedISB=true;
RetryCount = 1;
ShallowRetryCount = 2;
```

```
[capannini@devel15 WMS-service]$ glite-wms-job-list-match -a -c ~/wms_emi-demo11.conf JDLs/data-req.jdl
```

Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server

With data

WMSCertificationExercise < WMS < TWiki

```
=====
```

COMPUTING ELEMENT IDs LIST

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

```
*CEId*
- ce130.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce130.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce131.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce131.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce132.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce132.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce133.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce133.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce203.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce203.cern.ch:8443/cream-lsf-grid_dteam
- ce204.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce204.cern.ch:8443/cream-lsf-grid_dteam
- ce205.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce205.cern.ch:8443/cream-lsf-grid_dteam
- ce206.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce206.cern.ch:8443/cream-lsf-grid_dteam
- ce207.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce207.cern.ch:8443/cream-lsf-grid_dteam
- ce208.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce208.cern.ch:8443/cream-lsf-grid_dteam
- cream.sns.it:8443/cream-pbs-cert
- gridce0.pi.infn.it:8443/cream-lsf-cert
- gridce1.pi.infn.it:2119/jobmanager-lcglsf-cert
- gridce2.pi.infn.it:2119/jobmanager-lcglsf-cert
- gridce3.pi.infn.it:8443/cream-lsf-certmpi
- gridce.sns.it:2119/jobmanager-lcgpbs-cert
```

```
=====
```

In order to verify that these CEs are close to the above SEs:

```
[fabiok@ui ~]$ lcg-infosites --vo dteam closeSE|grep -A 5 ce130
Name of the CE: ce130.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
  srm-alice.cern.ch
  srm-atlas.cern.ch
  srm-cms.cern.ch
  srm-lhcb.cern.ch
  srm-public.cern.ch
--
Name of the CE: ce130.cern.ch:2119/jobmanager-lcglsf-grid_dteam
  srm-alice.cern.ch
  srm-atlas.cern.ch
  srm-cms.cern.ch
  srm-lhcb.cern.ch
  srm-public.cern.ch

[fabiok@ui ~]$ lcg-infosites --vo dteam closeSE|grep -A 5 ce208.cern.ch
Name of the CE: ce208.cern.ch:8443/cream-lsf-grid_2nh_dteam
  srm-alice.cern.ch
  srm-atlas.cern.ch
  srm-cms.cern.ch
  srm-lhcb.cern.ch
  srm-public.cern.ch
--
Name of the CE: ce208.cern.ch:8443/cream-lsf-grid_dteam
  srm-alice.cern.ch
  srm-atlas.cern.ch
  srm-cms.cern.ch
  srm-lhcb.cern.ch
  srm-public.cern.ch
```

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```
[fabio@ui ~]$ lcg-infosites --vo dteam closeSE|grep -A 5 cream.sns.it
Name of the CE: cream.sns.it:8443/cream-pbs-cert
gridcrm.pi.infn.it
```

```
[fabio@ui ~]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce.sns.it
Name of the CE: gridce.sns.it:2119/jobmanager-lcgpbs-cert
gridcrm.pi.infn.it
```

====> Test PASSED

Gangmatching

```
[capannini@devel15 certification]$ cat gang.jdl
[
executable="ls.sh";
myproxyserver="";
SRequirements = anyMatch(other.storage.CloseSEs, target.GlueSASStateAvailableSpace > 20);
CRequirements = other.GlueCEStateStatus == "Production" && other.GlueCEInfoTotalCPUs >= 2;
requirements = CRequirements && SRequirements;
inputsandbox={"ls.sh"};
stdout="out3.out";
stderr="err2.err";
outputsandbox={"out3.out", "err2.err", "ls.sh", "a"};
]
```

```
[capannini@devel15 certification]$ glite-wms-job-list-match -a -c ~/wms_emi-demo11.conf gang.jdl
```

Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server

=====

COMPUTING ELEMENT IDs LIST

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

```
*CEId*
- cccreamceli05.in2p3.fr:8443/cream-sge-long
- cccreamceli05.in2p3.fr:8443/cream-sge-medium
- cccreamceli05.in2p3.fr:8443/cream-sge-short
- cccreamceli09.in2p3.fr:8443/cream-sge-long
- cccreamceli09.in2p3.fr:8443/cream-sge-medium
- cccreamceli09.in2p3.fr:8443/cream-sge-short
- cmsce01.na.infn.it:2119/jobmanager-lcgpbs-cert
- cmsrm-ce01.roma1.infn.it:2119/jobmanager-lcglsf-cmsgcert
- cmsrm-cream01.roma1.infn.it:8443/cream-lsf-cmsgcert
- grid010.ct.infn.it:2119/jobmanager-lcgpbs-cert
- inaf-ce-01.ct.pi2s2.it:8443/cream-lsf-cert
- unict-dmi-ce-01.ct.pi2s2.it:2119/jobmanager-lcglsf-cert
- virgo-ce.roma1.infn.it:2119/jobmanager-lcgpbs-cert
- ce-01.grid.sissa.it:8443/cream-pbs-blade
- cccreamceli10.in2p3.fr:8443/cream-sge-long
- cccreamceli10.in2p3.fr:8443/cream-sge-medium
- cccreamceli10.in2p3.fr:8443/cream-sge-short
- cmsrm-ce02.roma1.infn.it:2119/jobmanager-lcglsf-cmsgcert
- cccreamceli06.in2p3.fr:8443/cream-sge-long
- cccreamceli06.in2p3.fr:8443/cream-sge-medium
- cccreamceli06.in2p3.fr:8443/cream-sge-short
- cream-ce.pg.infn.it:8443/cream-pbs-cert
```

=====

In order to verify that the SRequirements are met:

```
[capannini@devel15 certification]$ lcg-infosites closeSE|grep -A 5 cccreamceli05.in2p3.fr
Name of the CE: cccreamceli05.in2p3.fr:8443/cream-sge-long
```

WMSCertificationExercise < WMS < TWiki

ccsrn.in2p3.fr

```
[capannini@devel15 certification]$ lcg-infosites se |egrep 'Avail|ccsrn.in2p3.fr'
Avail Space(kB)  Used Space(kB)  Type      SE
11385302023     3647083513  SRM       ccsrn.in2p3.fr
```

```
[capannini@devel15 certification]$ lcg-infosites closeSE|grep -A 5 cmsce01.na.infn.it
Name of the CE: cmsce01.na.infn.it:2119/jobmanager-lcgpbs-cert
cmsse02.na.infn.it
```

```
Name of the CE: cmsrm-ce01.roma1.infn.it:2119/jobmanager-lcglsf-cmsgcert
cmsrm-se01.roma1.infn.it
```

```
[capannini@devel15 certification]$ lcg-infosites se |egrep 'Avail|cmsse02.na.infn.it'
Avail Space(kB)  Used Space(kB)  Type      SE
25271855845     690913963  SRM       cmsse02.na.infn.it
```

```
[capannini@devel15 certification]$ lcg-infosites closeSE|grep -A 5 cmsrm-ce02.roma1.infn.it
Name of the CE: cmsrm-ce02.roma1.infn.it:2119/jobmanager-lcglsf-cmsgcert
cmsrm-se01.roma1.infn.it
```

```
Name of the CE: cmsrm-cream01.roma1.infn.it:8443/cream-lsf-cmsgcert
cmsrm-se01.roma1.infn.it
```

```
[capannini@devel15 certification]$ lcg-infosites se |egrep 'Avail|cmsrm-se01.roma1.infn.it'
Avail Space(kB)  Used Space(kB)  Type      SE
1000             999999  SRM       cmsrm-se01.roma1.infn.it
```

Moreover, setting `SRequirements = true` in the `jdl`, the list of matching CEs is far longer.

====> Test PASSED

Prologue and Epilogue jobs

```
[capannini@devel15 WMS-service]$ python WMS-prologue-epilogue.py -c wms-command.conf -V dteam -d
====> + TestSuite of the WMS Service
====> + Description: WMS test prologue and epilogue attributes
====> + TestSuite of the WMS Service
```

Enter the user proxy password:

Test 1: Test prologue attribute

Test 2: Test epilogue attribute

Test 3: Test prologue and epilogue attributes

====>

====> Test: WMS-prologue-epilogue.py

====> WMS: emi-demoll.cnaf.infn.it

====> Started: 16:05:57

====> Ended : 16:11:17

====>

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

====>

====> Test log file is WMSService-TS_20120123160557.log

```
[capannini@devel15 WMS-service]$ python WMS-prologue-epilogue.py -c wms-command.conf -V testers.e
```

```
====> + TestSuite of the WMS Service
```

```
====> + Description: WMS test prologue and epilogue attributes
```

```
====> + TestSuite of the WMS Service
```

```
====> + Description: WMS test prologue and epilogue attributes
```

```
====> + TestSuite of the WMS Service
```

Enter the user proxy password:

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Test 1: Test prologue attribute

Test 2: Test epilogue attribute

Test 3: Test prologue and epilogue attributes

```
====>
====> Test: WMS-prologue-epilogue.py
====> WMS: emi-demoll.cnaf.infn.it
====> Started: 16:18:49
====> Ended   : 16:25:09
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120123161849.log
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 6:43:33
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 7:42:33
uri       : voms.hellasgrid.gr:15004
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ python WMS-prologue-epilogue.py -c wms-command.conf -d 3 -l
====> ++++++
====> + 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: emi-demoll.cnaf.infn.it
====> Started: 16:30:56
====> Ended   : 16:37:13
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120123163056.log
```

See logs: prolepilog.tgz: prologue epilogs

Shallow and deep resubmission

```
[capannini@devel15 WMS-service]$ python WMS-job-resubmit.py -c wms-command.conf -V dteam -d 3 -l
===> ++++++
===> + TestSuite of the WMS Service
===> + Description: WMS Job Resubmission Testing
===> ++++++
```

Enter the user proxy password:

Test 1: Try a shallow resubmission

Test 2: Try a deep resubmission

```
===>
===> Test: WMS-job-resubmit.py
===> WMS: emi-demo11.cnaf.infn.it
===> Started: 10:16:38
===> Ended : 10:28:49
===>
===>      === test PASSED ===
===>
===> Test log file is WMSService-TS_20120124101638.log
[capannini@devel15 WMS-service]$ python WMS-job-resubmit.py -c wms-command.conf -V testers.eu-emi
```

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

Enter the user proxy password:

Test 1: Try a shallow resubmission

Test 2: Try a deep resubmission

```
===>
===> Test: WMS-job-resubmit.py
===> WMS: emi-demo11.cnaf.infn.it
===> Started: 10:32:35
===> Ended : 10:45:18
===>
===>      === test PASSED ===
===>
===> Test log file is WMSService-TS_20120124103235.log
```

```
[capannini@devel15 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy .....
Proxy Verify OK
Your proxy is valid until: Tue Jan 31 10:39:47 2012
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=CNAF/CN=Fa
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ myproxy-logon -d --voms dteam
Enter MyProxy pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/C
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr]
Creating proxy .....
```

```
Your proxy is valid until Tue Jan 24 21:40:11 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capa
```

WMSCertificationExercise < WMS < TWiki

```
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$
[capannini@devel15 WMS-service]$ voms-proxy-info -all
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
issuer    : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
identity  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy/CN=proxy/CN=p
type      : proxy
strength  : 2048 bits
path      : /tmp/x509up_u504
timeleft  : 10:59:51
key usage : Digital Signature, Key Encipherment, Data Encipherment
=== VO dteam extension information ===
VO        : dteam
subject   : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
issuer    : /C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr
attribute : /dteam/Role=NULL/Capability=NULL
attribute : /dteam/NGI_IT/Role=NULL/Capability=NULL
timeleft  : 11:58:50
uri       : voms.hellasgrid.gr:15004
[capannini@devel15 WMS-service]$ python WMS-job-resubmit.py -c wms-command.conf -d 3 -l
===> ++++++
===> + 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: emi-demoll.cnaf.infn.it
===> Started: 10:40:39
===> Ended   : 10:53:15
===>
===>     === test PASSED ===
===>
===> Test log file is WMSService-TS_20120124104039.log
```

See logs: resub.tgz: resubmission logs

Job cancel

```
[capannini@devel15 WMS-service]$ python WMS-job-cancel.py -c wms-command.conf -V dteam -d 3 -l -
===> ++++++
===> + TestSuite of the WMS Service
===> + Description: WMS Job Cancel Testing
===> ++++++

Enter the user proxy password:

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
```

WMSCertificationExercise < WMS < TWiki

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: WMS-job-cancel.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:53:04
====> Ended   : 11:02:03
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120124105304.log
[capannini@devel15 WMS-service]$ python WMS-job-cancel.py -c wms-command.conf -V testers.eu-emi.e
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Job Cancel Testing
====> ++++++
```

Enter the user proxy password:

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: WMS-job-cancel.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:43:32
====> Ended   : 10:52:08
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120124104332.log
[capannini@devel15 WMS-service]$ python WMS-job-cancel.py -c wms-command.conf -d 3 -l
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Job Cancel Testing
====> ++++++
```

Test 1: Try to cancel a normal job

WMSCertificationExercise < WMS < TWiki

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: WMS-job-cancel.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 10:52:46
====> Ended   : 10:57:43
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120124105246.log
```

See logs: cancel.tgz: Job cancel logs

Proxy renewal

Setting MYPROXYSERVER=emitb2.ics.muni.cz in wms-command.conf

```
[capannini@devel15 ~]$ voms-proxy-init --voms dteam
Enter GRID pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Creating temporary proxy ..... Done
Contacting voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr]
Creating proxy ..... Done
```

Your proxy is valid until Thu Jan 26 22:42:50 2012

```
[capannini@devel15 ~]$ myproxy-init -s emitb2.ics.muni.cz -d -n
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Enter GRID pass phrase for this identity:
Creating proxy .....
Proxy Verify OK
Your proxy is valid until: Thu Feb  2 10:44:17 2012
A proxy valid for 168 hours (7.0 days) for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
```

```
[capannini@devel15 WMS-service]$ python WMS-proxy-renewal.py -c wms-command.conf -V dteam -d 3 -l
====> ++++++
====> + 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

Proxy renewal

WMSCertificationExercise < WMS < TWiki

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: emi-demoll.cnaf.infn.it
====> Started: 10:47:52
====> Ended  : 11:29:27
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120126104752.log
```

See log: WMSService-TS_20120126104752.log: proxy renewal log

Configuration file

Verified that the following entries are present in /etc/glite-wms/glite_wms.conf:

ICE section

```
ICE = [
  job_cancellation_threshold_time = 300;
  max_logfile_size = 100*1024*1024;
  cream_url_prefix = "https://";
  start_subscription_updater = true;
  max_ice_mem = 2096000;
  InputType = "jobdir";
  subscription_update_threshold_time = 3600;
  ice_log_level = 700;
  listener_enable_authn = true;
  listener_enable_authz = true;
  poller_status_threshold_time = 30*60;
  lease_update_frequency = 20*60;
  lease_delta_time = 0;
  cream_url_postfix = "/ce-cream/services/CREAM2";
  subscription_duration = 86400;
  start_lease_updater = false;
  notification_frequency = 3*60;
  creamdelegation_url_postfix = "/ce-cream/services/gridsite-delegation";
  ice_host_cert = "/home/glite/.certs/hostcert.pem";
  cemon_url_postfix = "/ce-monitor/services/CEMonitor";
  ice_topic = "CREAM_JOBS";
  start_proxy_renewer = true;
  Input = "/var/ice/jobdir";
  max_logfile_rotations = 10;
  start_poller = true;
  listener_port = 7010;
  poller_delay = 2*60;
  creamdelegation_url_prefix = "https://";
  purge_jobs = false;
  start_listener = false;
  proxy_renewal_frequency = 600;
  bulk_query_size = 100;
  soap_timeout = 60;
  persist_dir = "/var/ice/persist_dir";
  log_on_file = true;
  logfile = "${WMS_LOCATION_LOG}/ice.log";
  ice_host_key = "/home/glite/.certs/hostkey.pem";
  max_ice_threads = 10;
  log_on_console = false;
```

WMSCertificationExercise < WMS < TWiki

```
cemon_url_prefix = "https://";
ice_empty_threshold = 600;
];
```

WorkloadManagerProxy:

```
WorkloadManagerProxy = [
  EnableServiceDiscovery = false;
  ListMatchRootPath = "/tmp";
  OperationLoadScripts = [
    jobSubmit = "${WMS_LOCATION_SBIN}/glite_wms_wmproxy_load_monitor --oper jobSubmit --l
--diskusage 95 --fdnum 1000 --jdnum 1500 --ftpconn 300";
    jobRegister = "${WMS_LOCATION_SBIN}/glite_wms_wmproxy_load_monitor --oper jobRegister
e 99 --diskusage 95 --fdnum 1000 --jdnum 1500 --ftpconn 300";
  ];
  MinPerusalTimeInterval = 1000;
  MaxServedRequests = 50;
  ServiceDiscoveryInfoValidity = 3600;
  LBServer = {"emi-demoll.cnaf.infn.it:9000"};
  LBServiceDiscoveryType = "org.glite.lb.server";
  LogLevel = 5;
  SandboxStagingPath = "${WMS_LOCATION_VAR}/SandboxDir";
  LBLocalLogger = "localhost:9002";
  WeightsCacheValidity = 86400;
  LogFile = "${WMS_LOCATION_LOG}/wmproxy.log";
  AsyncJobStart = true;
  GridFTPPort = 2811;
  MaxInputSandboxSize = 100000000;
];
```

NetworkServer:

```
NetworkServer = [
  II_Timeout = 100;
  EnableQuotaManagement = false;
  QuotaInsensibleDiskPortion = 2.0;
  SandboxStagingPath = "${WMS_LOCATION_VAR}/SandboxDir";
  II_DN = "mds-vo-name=local, o=grid";
  MasterThreads = 8;
  ConnectionTimeout = 300;
  LogFile = "${WMS_LOCATION_LOG}/networkserver_events.log";
  LogLevel = 5;
  II_Contact = "cert-bdii-04.cnaf.infn.it";
  //II_Contact = "egee-bdii.cnaf.infn.it";
  II_Port = 2170;
  QuotaAdjustmentAmount = 10000;
  DispatcherThreads = 10;
  Gris_DN = "mds-vo-name=local, o=grid";
  Gris_Port = 2170;
  DLI_SI_CatalogTimeout = 60;
  EnableDynamicQuotaAdjustment = false;
  ListMatchParadise = "${WMS_LOCATION_TMP}/MatchArea";
  Gris_Timeout = 20;
  BacklogSize = 64;
  ListeningPort = 7772;
  MaxInputSandboxSize = 10000000;
];
```

WorkloadManager:

```
WorkloadManager = [
  DisablePurchasingFromGris = true;
  IsmBlackList = {};
  ExpiryPeriod = 7200;
  PipeDepth = 200;
```

WMSCertificationExercise < WMS < TWiki

```
JobWrapperTemplateDir = "${WMS_JOBWRAPPER_TEMPLATE}";
IsmDump = "${WMS_LOCATION_VAR}/workload_manager/ismdump.fl";
IsmIIPurchasingRate = 480;
MatchRetryPeriod = 600;
MaxReplansCount = 5;
EnableRecovery = true;
DispatcherType = "jobdir";
LogLevel = 5;
LogFile = "${WMS_LOCATION_LOG}/workload_manager_events.log";
DliServiceName = "data-location-interface";
RuntimeMalloc = "/usr/lib64/libjemalloc.so.1";
IsmUpdateRate = 600;
WmsRequirements = ((ShortDeadlineJob == TRUE) ? RegExp(".*sdj$", other.GlueCEUniqueID) :
CeMonitorAsynchPort = 0;
QueueSize = 1000;
EnableBulkMM = true;
MaxRetryCount = 10;
SiServiceName = "org.glite.SEIndex";
IsmThreads = false;
MaxOutputSandboxSize = -1;
CeForwardParameters = {"GlueHostMainMemoryVirtualSize", "GlueHostMainMemoryRAMSize", "GlueCEP
CeMonitorServices = {};
IsmIILDAPCEFilterExt = "(|(GlueCEAccessControlBaseRule=VO:atlas) (GlueCEAccessControlBaseRul
ReplanGracePeriod = 3600;
Input = "${WMS_LOCATION_VAR}/workload_manager/jobdir";
WorkerThreads = 5;
];
```

Common section:

```
Common = [
  HostProxyFile = "${WMS_LOCATION_VAR}/glite/wms.proxy";
  LBProxy = true;
  DGUser = "${GLITE_WMS_USER}";
];
```

Logmonitor section:

```
LogMonitor = [
  CondorLogRecycleDir = "${WMS_LOCATION_VAR}/logmonitor/CondorG.log/recycle";
  LockFile = "${WMS_LOCATION_VAR}/logmonitor/lock";
  AbortedJobsTimeout = 600;
  CondorLogDir = "${WMS_LOCATION_VAR}/logmonitor/CondorG.log";
  MonitorInternalDir = "${WMS_LOCATION_VAR}/logmonitor/internal";
  MainLoopDuration = 5;
  GlobusDownTimeout = 7200;
  LogLevel = 5;
  JobsPerCondorLog = 1000;
  LogFile = "${WMS_LOCATION_LOG}/logmonitor_events.log";
  ExternalLogFile = "${WMS_LOCATION_LOG}/logmonitor_external.log";
  RemoveJobFiles = true;
  IdRepositoryName = "irepository.dat";
  ForceCancellationRetries = 2;
];
```

JobController section:

```
JobController = [
  Input = "${WMS_LOCATION_VAR}/jobcontrol/jobdir/";
  ContainerRefreshThreshold = 1000;
  CondorQuery = "${CONDORG_INSTALL_PATH}/bin/condor_q";
  LogFile = "${WMS_LOCATION_LOG}/jobcontoller_events.log";
  CondorDagman = "${CONDORG_INSTALL_PATH}/bin/condor_dagman";
  MaximumTimeAllowedForCondorMatch = 1800;
  CondorRelease = "${CONDORG_INSTALL_PATH}/bin/condor_release";
```

WMSCertificationExercise < WMS < TWiki

```
OutputFileDir = "${WMS_LOCATION_VAR}/jobcontrol/condorio";
InputType = "jobdir";
CondorRemove = "${CONDORG_INSTALL_PATH}/bin/condor_rm";
DagmanMaxPre = 10;
LockFile = "${WMS_LOCATION_VAR}/jobcontrol/lock";
SubmitFileDir = "${WMS_LOCATION_VAR}/jobcontrol/submit";
CondorSubmit = "${CONDORG_INSTALL_PATH}/bin/condor_submit";
LogLevel = 5;
];
```

Verified that:

- The attribute `II_Contact` of `NetworkServer` section matches the value of the yaim variable `BDII_HOST`
- The attribute `WMEpiryPeriod` of `WorkloadManager` section matches the value of yaim variable `WMS_EXPIRY_PERIOD`
- The attribute `MatchRetryPeriod` of `WorkloadManager` section matches the value of yaim variable `WMS_MATCH_RETRY_PERIOD`
- The attribute `IsmIiLDAPCEFilterExt` of `WorkloadManager` section is `(| (GlueCEAccessControlBaseRule=VO:vo1) (GlueCEAccessControlBaseRule=VOMS:/v`
- The attribute `LBServer` of the `WorkloadManagerProxy` section matches the value of yaim variable `LB_HOST`

====> test PASSED

WMS feedback

TBD

Limiter mechanism

```
[capannini@devel15 WMS-service]$ python WMS-limiter-mechanism.py -c wms-command.conf -V dteam -d
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Limiter Mechanism
====> ++++++

Test 1: Test option --load1 threshold for load average (1 min)

Test 4: Test option --memusage threshold for memory usage (%)

Test 6: Test option --ftpconn threshold for number of FTP connections

Test 7: Test option --diskusage threshold for disk usage (%)

Test 8: Test option --fdnum threshold for used file descriptor

Test 9: Test option --jdnum threshold for number of unprocessed jobs (for jobdir)

Test 10: Test option --jdsizethreshold for input jobdir size (KB)

====>
====> Test: WMS-limiter-mechanism.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 15:17:37
====> Ended : 15:18:11
```

WMS feedback

WMSCertificationExercise < WMS < TWiki

```
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120124151737.log
```

See log: WMSService-TS_20120124151737.log: limiter log

Purge

Normal job cycle

```
[capannini@devel15 WMS-service]$ python WMS-check-purger.py -c wms-command.conf -V dteam -d 3 -1
====> ++++++
====> + TestSuite of the WMS Service
====> + Description: WMS Purge Mechanism
====> ++++++

Test 1: Test purge , normal job cycle ( Submit to LCG CE )

Test 2: Test purge, normal job cycle ( Submit to CREAM CE )

Test 3: Test proxy cache purging

====>
====> Test: WMS-check-purger.py
====> WMS: emi-demo11.cnaf.infn.it
====> Started: 12:07:54
====> Ended  : 12:11:47
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120125120754.log
```

See log: WMSService-TS_20120125120754.log: purge logs

SandboxDir cron purger

The purge of the SandBox dir is done by a cron job

- Submit a job and force its purge before it finishes:

```
[capannini@devel15 WMS-service]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf ~/ls.jdl
```

Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/I-xR4xvAHsoHfh17OplqLQ
```

```
=====
```

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/I-xR4xvAHsoHfh17OplqLQ
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/I-xR4xvAHsoHfh17OplqLQ

Limiter mechanism

WMSCertificationExercise < WMS < TWiki

```
Current Status:      Scheduled
Status Reason:      unavailable
Destination:        ce208.cern.ch:8443/cream-lsf-grid_dteam
Submitted:          Wed Jan 25 12:26:31 2012 CET
=====
```

```
[root@emi-demol1 ~]# su - glite
[glite@emi-demol1 ~]$
[glite@emi-demol1 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/I- -s
25 Jan, 12:27:33 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/

[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demol1.cnaf.infn.it:9000/I-xR4x
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/I-xR4xvAHsoHfh17OplqIQ
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Destination:        ce208.cern.ch:8443/cream-lsf-grid_dteam
Submitted:          Wed Jan 25 12:26:31 2012 CET
=====
```

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

- Purge a done job:

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demol1.cnaf.infn.it:9000/T7uROE
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/T7uROEeHs0MVTbeiMYDRJg
Current Status:      Done (Success)
Exit code:           0
Status Reason:      Job Terminated Successfully
Destination:        ce208.cern.ch:8443/cream-lsf-grid_dteam
Submitted:          Wed Jan 25 12:31:26 2012 CET
=====
```

```
[glite@emi-demol1 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/T7 -s
25 Jan, 14:09:45 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demol1.cnaf.infn.it:9000/T7uROE
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demol1.cnaf.infn.it:9000/T7uROEeHs0MVTbeiMYDRJg
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Destination:        ce208.cern.ch:8443/cream-lsf-grid_dteam
Submitted:          Wed Jan 25 12:31:26 2012 CET
=====
```

- Purge only jobs older than 12 hours:

```
Find some directories to be purged with the command:
# find /var/SandboxDir/ -maxdepth 2 -type d -cmin +720
/var/SandboxDir/W6/https_3a_2f_2femi-demol1.cnaf.infn.it_3a9000_2fW65OfHAN_5fLrcvyoohMGzWQ
/var/SandboxDir/ez/https_3a_2f_2femi-demol1.cnaf.infn.it_3a9000_2fezKOPmT5HcqCRjm0l1ttSZA
```

Try to purge:

WMSCertificationExercise < WMS < TWiki

```
[glite@emi-demo11 ~]$ date
Wed Jan 25 14:15:03 CET 2012
```

```
[glite@emi-demo11 ~]$ ls -l /var/SandboxDir/ez
total 4
drwxrwx--- 5 dteam045 glite 4096 Jan 24 10:38 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fezKO
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/ez -t 43200
25 Jan, 14:20:43 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
[glite@emi-demo11 ~]$ ls -l /var/SandboxDir/ez
total 0
[glite@emi-demo11 ~]$ ls -lr /var/SandboxDir/W6
total 4
drwxrwx--- 5 dteam045 glite 4096 Jan 24 14:24 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fW650
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/W6 -t 43200
25 Jan, 14:21:02 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
[glite@emi-demo11 ~]$ ls -lr /var/SandboxDir/W6
total 0
```

Find some directories that should not be purged:

```
# find /var/SandboxDir/ -maxdepth 2 -type d -cmin -240
/var/SandboxDir/St/https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fStNSoiVR3S47qnaFFHEOzw
/var/SandboxDir/T5/https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fT5gK96CZD8DbV80i1hSNcA
```

Try to purge:

```
[glite@emi-demo11 ~]$ date
Wed Jan 25 14:15:03 CET 2012
```

```
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/T5 -t 43200
[glite@emi-demo11 ~]$ ls -l /var/SandboxDir/T5
total 4
drwxrwx--- 5 dteam045 glite 4096 Jan 25 10:29 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fT5gK
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/St -t 43200
[glite@emi-demo11 ~]$ ls -l /var/SandboxDir/St
total 4
drwxrwx--- 5 dteam045 glite 4096 Jan 25 12:59 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2fStNS
```

==> Test PASSED

- Purge a job whose proxy is already expired

```
[glite@emi-demo11 ~]$ openssl x509 -in /var/SandboxDir/z6/https_3a_2f_2femi-demo11.cnaf.infn.it_3
notBefore=Jan 17 15:52:12 2012 GMT
notAfter=Jan 17 21:19:12 2012 GMT
```

```
[glite@emi-demo11 ~]$ date
Wed Jan 25 15:18:49 CET 2012
```

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/z6gxfY
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/z6gxfYkbU1h8hZIyOXEOUg
Current Status:      Submitted
Submitted:           Tue Jan 17 16:57:12 2012 CET
Parent Job:          https://emi-demo11.cnaf.infn.it:9000/79cGVuy9XVzQxwvn_Z2Hgw
=====
```

```
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/z6 -s
25 Jan, 15:21:10 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/z6gxfY
```

WMSCertificationExercise < WMS < TWiki

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/z6gxfYkbU1h8hZIyOXEOUg
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Submitted:          Tue Jan 17 16:57:12 2012 CET
Parent Job:         https://emi-demo11.cnaf.infn.it:9000/79cGVuy9XVzQxwvn_Z2Hgw
=====
```

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

```
- Purge a dag job
```

```
[capannini@devel15 dag]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf dag.jdl
```

```
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/Ab_cMtMLDPkCNKsL-5CFaw
```

```
[capannini@devel15 dag]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/Ab_cMtMLDPkCNKsL-5CFaw
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/Ab_cMtMLDPkCNKsL-5CFaw
Current Status:      Running
Status Reason:      unavailable
Destination:        dagman
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

```
- Nodes information for:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/HnZfPHnH3xgxmhl_NrRr-g
Current Status:      Submitted
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/X2-G_Tr9eyWgs88vjfnL2g
Current Status:      Submitted
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/Yc4eO097SXSBxIvhsIqyw
Current Status:      Submitted
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/b8bBqrceSFYU1mWEfpH-fQ
Current Status:      Submitted
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/hGHl6d1B1D8xPAmNXdLdsw
Current Status:      Submitted
Submitted:          Wed Jan 25 15:33:46 2012 CET
=====
```

WMSCertificationExercise < WMS < TWiki

```
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/Ab -s25 Jan, 15:34:30
25 Jan, 15:34:30 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
[capannini@devel15 dag]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/Ab_cMtMLDPkCNK
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/Ab_cMtMLDPkCNKsL-5CFaw
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Destination:        dagman
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

```
- Nodes information for:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/HnZfPHnH3xgxmhl_NrRr-g
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/X2-G_Tr9eyWgs88vjfnL2g
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/Yc4e0097SXSBrXIVhsIqyw
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/b8bBqrceSFYU1mWEfpH-fQ
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/hGHl6d1B1D8xPAmNXdLdsw
Current Status:      Cleared
Status Reason:      timed out, resource purge forced
Destination:         argoce01.na.infn.it:2119/jobmanager-lcgpbs-cert
Submitted:           Wed Jan 25 15:33:46 2012 CET
=====
```

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

Published information

bdb database information

```
[capannini@devel15 ~]$ ldapsearch -x -H ldap://emi-demo11.cnaf.infn.it:2170 -b 'o=grid'
# extended LDIF
#
# LDAPv3
# base <o=grid> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
```

WMSCertificationExercise < WMS < TWiki

```
# grid
dn: o=grid
objectClass: organization
o: grid

# local, grid
dn: Mds-Vo-name=local,o=grid
Mds-Vo-name: local
objectClass: Mds

# resource, grid
dn: Mds-Vo-name=resource,o=grid
Mds-Vo-name: resource
objectClass: Mds

# emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617, resource, grid
dn: GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617
,Mds-Vo-name=resource,o=grid
objectClass: GlueTop
objectClass: GlueService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueServiceUniqueID: emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617
GlueServiceEndpoint: https://emi-demoll.cnaf.infn.it:9003/
GlueServiceVersion: 2.2.10
GlueSchemaVersionMinor: 3
GlueServiceName: INFN-CREAMTEST-Server
GlueServiceType: org.glite.lb.Server
GlueServiceWSDL: http://egee.cesnet.cz/cms/export/sites/egee/en/WSDL/3.1/LB.ws
dl
GlueServiceSemantics: https://edms.cern.ch/file/571273/2/LB-guide.pdf
GlueForeignKey: GlueSiteUniqueID=INFN-CREAMTEST
GlueSchemaVersionMajor: 1
GlueServiceStatus: OK
GlueServiceStartTime: 2012-01-19T12:26:49+01:00
GlueServiceStatusInfo: glite-lb-notif-interlogd running as 9582 glite-lb-inter
logd for proxy running as 9617 glite-lb-bkserverd running as 9536 glite-jp-im
porter not running (disabled)

# emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637, resource, grid
dn: GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_84141563
7,Mds-Vo-name=resource,o=grid
GlueServiceAccessControlBaseRule: VO:atlas
GlueServiceAccessControlBaseRule: VO:alice
GlueServiceAccessControlBaseRule: VO:lhcb
GlueServiceAccessControlBaseRule: VO:cms
GlueServiceAccessControlBaseRule: VO:dteam
GlueServiceAccessControlBaseRule: VO:biomed
GlueServiceAccessControlBaseRule: VO:ops
GlueServiceAccessControlBaseRule: VO:infngrid
GlueServiceAccessControlBaseRule: VO:testers.eu-emi.eu
GlueServiceStatus: Other
GlueServiceStatusInfo: ??
objectClass: GlueTop
objectClass: GlueService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueServiceUniqueID: emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637
GlueServiceAccessControlRule: atlas
GlueServiceAccessControlRule: alice
GlueServiceAccessControlRule: lhcb
GlueServiceAccessControlRule: cms
GlueServiceAccessControlRule: dteam
GlueServiceAccessControlRule: biomed
GlueServiceAccessControlRule: ops
GlueServiceAccessControlRule: infngrid
GlueServiceAccessControlRule: testers.eu-emi.eu
```

WMSCertificationExercise < WMS < TWiki

GlueServiceEndpoint: https://emi-demoll.cnaf.infn.it:7443/glite_wms_wmproxy_server
GlueServiceVersion: 3.3.4
GlueSchemaVersionMinor: 3
GlueServiceName: INFN-CREAMTEST-WMProxy
GlueServiceType: org.glite.wms.WMProxy
GlueServiceWSDL: http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy.wsdl
GlueServiceSemantics: http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy-guide.pdf
GlueForeignKey: GlueSiteUniqueID=INFN-CREAMTEST
GlueServiceOwner: atlas
GlueServiceOwner: alice
GlueServiceOwner: lhcb
GlueServiceOwner: cms
GlueServiceOwner: dteam
GlueServiceOwner: biomed
GlueServiceOwner: ops
GlueServiceOwner: infngrid
GlueServiceOwner: testers.eu-emi.eu
GlueSchemaVersionMajor: 1
GlueServiceStartTime: 2012-01-26T00:00:02+01:00

DN, emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637, resource, grid
dn: GlueServiceDataKey=DN,GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: DN
GlueChunkKey: GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637
GlueServiceDataValue: /C=IT/O=INFN/OU=Host/L=CNAF/CN=emi-demoll.cnaf.infn.it

glite-info-service_version, emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617, resource, grid
dn: GlueServiceDataKey=glite-info-service_version,GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_version
GlueChunkKey: GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.lb.Server_2310828617
GlueServiceDataValue: 1.6

glite-info-service_version, emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637, resource, grid
dn: GlueServiceDataKey=glite-info-service_version,GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_version
GlueChunkKey: GlueServiceUniqueID=emi-demoll.cnaf.infn.it_org.glite.wms.WMProxy_841415637
GlueServiceDataValue: 1.6

glite-info-service_hostname, emi-demoll.cnaf.infn.it_org.glite.lb.Server_23

WMSCertificationExercise < WMS < TWiki

```
10828617, resource, grid
dn: GlueServiceDataKey=glite-info-service_hostname,GlueServiceUniqueID=emi-dem
o11.cnaf.infn.it_org.glite.lb.Server_2310828617,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_hostname
GlueChunkKey: GlueServiceUniqueID=emi-dem011.cnaf.infn.it_org.glite.lb.Server_
2310828617
GlueServiceDataValue: emi-dem011.cnaf.infn.it
```

```
# glite-info-service_hostname, emi-dem011.cnaf.infn.it_org.glite.wms.WMProxy_
841415637, resource, grid
dn: GlueServiceDataKey=glite-info-service_hostname,GlueServiceUniqueID=emi-dem
o11.cnaf.infn.it_org.glite.wms.WMProxy_841415637,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_hostname
GlueChunkKey: GlueServiceUniqueID=emi-dem011.cnaf.infn.it_org.glite.wms.WMProx
y_841415637
GlueServiceDataValue: emi-dem011.cnaf.infn.it
```

```
# search result
search: 2
result: 0 Success
```

```
# numResponses: 11
# numEntries: 10
```

Stats database definitions

```
[capannini@devel15 ~]$ ldapsearch -x -H ldap://emi-dem011.cnaf.infn.it:2170 -b 'o=infosys'
# extended LDIF
#
# LDAPv3
# base <o=infosys> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
# infosys
dn: o=infosys
objectClass: organization
o: infosys

# zip, infosys
dn: CompressionType=zip,o=infosys
objectClass: CompressedContent
Hostname: localhost
CompressionType: zip
Data: file:///var/run/bdii/archive/12-01-26-11-02-24-snapshot.gz

# localhost, infosys
dn: Hostname=localhost,o=infosys
objectClass: UpdateStats
Hostname: localhost
FailedDeletes: 0
ModifiedEntries: 8
DeletedEntries: 0
```



```

UpdateTime: 1
FailedAdds: 0
FailedModifies: 0
TotalEntries: 20
QueryTime: 0
NewEntries: 1
DBUpdateTime: 0
ReadTime: 0
PluginsTime: 0
ProvidersTime: 1

# search result
search: 2
result: 0 Success

# numResponses: 4
# numEntries: 3

```

Stats database definitions

```

[capannini@devel15 ~]$ ldapsearch -x -H ldap://emi-demo11.cnaf.infn.it:2170 -b 'o=glue'
# extended LDIF
#
# LDAPv3
# base <o=glue> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
# glue
dn: o=glue
objectClass: organization
o: glue

# grid, glue
dn: GLUE2GroupID=grid,o=glue
objectClass: GLUE2Group
GLUE2GroupID: grid

# resource, glue
dn: GLUE2GroupID=resource,o=glue
objectClass: GLUE2Group
GLUE2GroupID: resource

# emi-demo11.cnaf.infn.it_lbserver_201164012, resource, glue
dn: GLUE2ServiceID=emi-demo11.cnaf.infn.it_lbserver_201164012,GLUE2GroupID=resource,o=glue
GLUE2EntityValidity: 3600
GLUE2ServiceType: org.glite.lb.Server
GLUE2ServiceID: emi-demo11.cnaf.infn.it_lbserver_201164012
objectClass: GLUE2Service
GLUE2ServiceQualityLevel: production
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-service
GLUE2EntityOtherInfo: InfoProviderVersion=1.1
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo11.cnaf.infn.it
GLUE2ServiceComplexity: endpointType=1, share=0, resource=0
GLUE2ServiceCapability: information.logging
GLUE2EntityName: INFN-CREAMTEST-Server
GLUE2ServiceAdminDomainForeignKey: INFN-CREAMTEST
GLUE2EntityCreationTime: 2012-01-26T10:04:25Z

# emi-demo11.cnaf.infn.it_wmproxy_2598325561, resource, glue
dn: GLUE2ServiceID=emi-demo11.cnaf.infn.it_wmproxy_2598325561,GLUE2GroupID=resource,o=glue
GLUE2EntityValidity: 3600
GLUE2ServiceType: org.glite.wms.WMProxy

```

WMSCertificationExercise < WMS < TWiki

```
GLUE2ServiceID: emi-demo11.cnaf.infn.it_wmproxy_2598325561
objectClass: GLUE2Service
GLUE2ServiceQualityLevel: production
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-service
GLUE2EntityOtherInfo: InfoProviderVersion=1.1
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo11.cnaf.infn.it
GLUE2ServiceComplexity: endpointType=1, share=0, resource=0
GLUE2ServiceCapability: executionmanagement.candidatesetgenerator
GLUE2ServiceCapability: executionmanagement.jobdescription
GLUE2ServiceCapability: executionmanagement.jobmanager
GLUE2EntityName: INFN-CREAMTEST-WMProxy
GLUE2ServiceAdminDomainForeignKey: INFN-CREAMTEST
GLUE2EntityCreationTime: 2012-01-26T10:04:26Z

# emi-demo11.cnaf.infn.it_lbserver_201164012_org.glite.lb.Server_201164012, e
mi-demo11.cnaf.infn.it_lbserver_201164012, resource, glue
dn: GLUE2EndpointID=emi-demo11.cnaf.infn.it_lbserver_201164012_org.glite.lb.Se
rver_201164012, GLUE2ServiceID=emi-demo11.cnaf.infn.it_lbserver_201164012, GLUE
2GroupID=resource, o=glue
GLUE2EntityValidity: 3600
GLUE2EndpointQualityLevel: production
GLUE2EndpointImplementor: gLite
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo11.cnaf.infn.it
GLUE2EntityOtherInfo: MiddlewareName=EMI
GLUE2EntityOtherInfo: MiddlewareVersion=1.7.0-1
GLUE2EndpointCapability: information.logging
GLUE2EndpointServiceForeignKey: emi-demo11.cnaf.infn.it_lbserver_201164012
GLUE2EntityName: Server endpoint for Service emi-demo11.cnaf.infn.it_lbserver_
201164012
GLUE2EndpointTechnology: webservice
GLUE2EndpointWSDL: http://egee.cesnet.cz/cms/export/sites/egee/en/WSDL/3.1/LB.
wsdl
GLUE2EndpointInterfaceName: org.glite.lb.Server
GLUE2EndpointURL: https://emi-demo11.cnaf.infn.it:9003/
GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: https://goc.egi.eu/
GLUE2EndpointImplementationVersion: 2.2.10
GLUE2EndpointSemantics: https://edms.cern.ch/file/571273/2/LB-guide.pdf
GLUE2EndpointIssuerCA: /C=IT/O=INFN/CN=INFN CA
GLUE2EndpointServingState: production
objectClass: GLUE2Endpoint
GLUE2EndpointInterfaceVersion: 3.2.4
GLUE2EndpointImplementationName: LB
GLUE2EndpointTrustedCA: IGTf
GLUE2EndpointID: emi-demo11.cnaf.infn.it_lbserver_201164012_org.glite.lb.Serve
r_201164012
GLUE2EndpointStartTime: 2012-01-19T11:26:49Z
GLUE2EndpointHealthStateInfo: glite-lb-notif-interlogd running as 9582 glite-l
b-interlogd for proxy running as 9617 glite-lb-bkserverd running as 9536 glit
e-jp-importer not running (disabled)
GLUE2EndpointHealthState: ok
GLUE2EntityCreationTime: 2012-01-26T10:04:25Z

# emi-demo11.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMProxy_2598325561
, emi-demo11.cnaf.infn.it_wmproxy_2598325561, resource, glue
dn: GLUE2EndpointID=emi-demo11.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.W
MProxy_2598325561, GLUE2ServiceID=emi-demo11.cnaf.infn.it_wmproxy_2598325561, G
LUE2GroupID=resource, o=glue
GLUE2EntityValidity: 3600
GLUE2EndpointQualityLevel: production
GLUE2EndpointImplementor: gLite
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo11.cnaf.infn.it
GLUE2EntityOtherInfo: MiddlewareName=EMI
GLUE2EntityOtherInfo: MiddlewareVersion=1.7.0-1
```

WMSCertificationExercise < WMS < TWiki

```
GLUE2EndpointCapability: executionmanagement.candidatesetgenerator
GLUE2EndpointCapability: executionmanagement.jobdescription
GLUE2EndpointCapability: executionmanagement.jobmanager
GLUE2EndpointHealthState: ok
GLUE2EndpointServiceForeignKey: emi-demoll.cnaf.infn.it_wmproxy_2598325561
GLUE2EntityName: WMPProxy endpoint for Service emi-demoll.cnaf.infn.it_wmproxy_
2598325561
GLUE2EndpointTechnology: webservice
GLUE2EndpointWSDL: http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy.wsdl
GLUE2EndpointInterfaceName: org.glite.wms.WMPProxy
GLUE2EndpointURL: https://emi-demoll.cnaf.infn.it:7443/glite_wms_wmproxy_serve
r
GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: https://goc.egi.eu/
GLUE2EndpointImplementationVersion: 3.3.4
GLUE2EndpointSemantics: http://web.infn.it/gLiteWMS/images/WMS/Docs/wmproxy-gu
ide.pdf
GLUE2EndpointIssuerCA: /C=IT/O=INFN/CN=INFN CA
GLUE2EndpointServingState: production
objectClass: GLUE2Endpoint
GLUE2EndpointInterfaceVersion: 1.0
GLUE2EndpointImplementationName: WMS
GLUE2EndpointTrustedCA: IGTf
GLUE2EndpointID: emi-demoll.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMPPr
oxy_2598325561
GLUE2EndpointStartTime: 2012-01-25T23:00:02Z
GLUE2EndpointHealthStateInfo: WMPProxy httpd listening on port 7443 httpd is ru
nning .... == WMPProxy Server running instances: UID PID PPID C STIME TTY TIM
E CMD glite 13421 30902 0 09:28 ? 00:00:00 /usr/bin/glite_wms_wmproxy_server
GLUE2EntityCreationTime: 2012-01-26T10:04:26Z

# DN_1, emi-demoll.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMPProxy_2598
325561, emi-demoll.cnaf.infn.it_wmproxy_2598325561, resource, glue
dn: GLUE2ExtensionLocalID=DN_1, GLUE2EndpointID=emi-demoll.cnaf.infn.it_wmproxy
_2598325561_org.glite.wms.WMPProxy_2598325561, GLUE2ServiceID=emi-demoll.cnaf.i
nfn.it_wmproxy_2598325561, GLUE2GroupID=resource, o=glue
GLUE2ExtensionLocalID: DN_1
GLUE2ExtensionKey: DN
objectClass: GLUE2Extension
GLUE2ExtensionValue: /C=IT/O=INFN/OU=Host/L=CNAF/CN=emi-demoll.cnaf.infn.it
GLUE2ExtensionEntityForeignKey: emi-demoll.cnaf.infn.it_wmproxy_2598325561_org
.glite.wms.WMPProxy_2598325561

# emi-demoll.cnaf.infn.it_lbserver_201164012_org.glite.lb.Server_201164012_Po
licy, emi-demoll.cnaf.infn.it_lbserver_201164012_org.glite.lb.Server_2011640
12, emi-demoll.cnaf.infn.it_lbserver_201164012, resource, glue
dn: GLUE2PolicyID=emi-demoll.cnaf.infn.it_lbserver_201164012_org.glite.lb.Serv
er_201164012_Policy, GLUE2EndpointID=emi-demoll.cnaf.infn.it_lbserver_20116401
2_org.glite.lb.Server_201164012, GLUE2ServiceID=emi-demoll.cnaf.infn.it_lbserv
er_201164012, GLUE2GroupID=resource, o=glue
GLUE2EntityValidity: 3600
objectClass: GLUE2Policy
objectClass: GLUE2AccessPolicy
GLUE2PolicyRule: ALL
GLUE2PolicyScheme: org.glite.standard
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emi-demoll.cnaf.infn.it
GLUE2AccessPolicyEndpointForeignKey: emi-demoll.cnaf.infn.it_lbserver_20116401
2_org.glite.lb.Server_201164012
GLUE2PolicyID: emi-demoll.cnaf.infn.it_lbserver_201164012_org.glite.lb.Server_
201164012_Policy
GLUE2EntityName: Access control rules for Endpoint emi-demoll.cnaf.infn.it_lbs
erver_201164012_org.glite.lb.Server_201164012
GLUE2EntityCreationTime: 2012-01-26T10:04:25Z

# emi-demoll.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMPProxy_2598325561
_Policy, emi-demoll.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMPProxy_25
```

WMSCertificationExercise < WMS < TWiki

```
98325561, emi-demo11.cnaf.infn.it_wmproxy_2598325561, resource, glue
dn: GLUE2PolicyID=emi-demo11.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMP
roxy_2598325561_Policy, GLUE2EndpointID=emi-demo11.cnaf.infn.it_wmproxy_259832
5561_org.glite.wms.WMProxy_2598325561, GLUE2ServiceID=emi-demo11.cnaf.infn.it_
wmproxy_2598325561, GLUE2GroupID=resource, o=glue
GLUE2AccessPolicyEndpointForeignKey: emi-demo11.cnaf.infn.it_wmproxy_259832556
1_org.glite.wms.WMProxy_2598325561
GLUE2EntityValidity: 3600
objectClass: GLUE2Policy
objectClass: GLUE2AccessPolicy
GLUE2PolicyRule: VO:atlas
GLUE2PolicyRule: VO:alice
GLUE2PolicyRule: VO:lhcb
GLUE2PolicyRule: VO:cms
GLUE2PolicyRule: VO:dteam
GLUE2PolicyRule: VO:biomed
GLUE2PolicyRule: VO:ops
GLUE2PolicyRule: VO:infngrid
GLUE2PolicyRule: VO:testers.eu-emi.eu
GLUE2PolicyScheme: org.glite.standard
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.2
GLUE2EntityOtherInfo: InfoProviderHost=emi-demo11.cnaf.infn.it
GLUE2PolicyUserDomainForeignKey: atlas
GLUE2PolicyUserDomainForeignKey: alice
GLUE2PolicyUserDomainForeignKey: lhcb
GLUE2PolicyUserDomainForeignKey: cms
GLUE2PolicyUserDomainForeignKey: dteam
GLUE2PolicyUserDomainForeignKey: biomed
GLUE2PolicyUserDomainForeignKey: ops
GLUE2PolicyUserDomainForeignKey: infngrid
GLUE2PolicyUserDomainForeignKey: testers.eu-emi.eu
GLUE2PolicyID: emi-demo11.cnaf.infn.it_wmproxy_2598325561_org.glite.wms.WMProx
y_2598325561_Policy
GLUE2EntityName: Access control rules for Endpoint emi-demo11.cnaf.infn.it_wmp
roxy_2598325561_org.glite.wms.WMProxy_2598325561
GLUE2EntityCreationTime: 2012-01-26T10:04:26Z

# search result
search: 2
result: 0 Success

# numResponses: 11
# numEntries: 10
```

Performance test

The tests are carried out using emi-demo11, a virtual machine with wms installed, as this has never been tried before. The real certification process should use devel20, a real machine with wms installed, instead.

Collection of 1000 nodes

Submission of a collection of 1000 nodes

```
[capannini@cert-17 StressTest]$ ./StressTest.sh -t 1 -n 1000 -c ~/wms_emi-demo11.conf -j ls.jdl
Test starts on mer feb 1 11:58:27 CET 2012: submit 1 collections (of 1000 nodes) with a frequency
```

```
Submission n. 1:
mer feb 1 11:58:27 CET 2012: user 0 is submitting...
```

```
Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

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

Performance test

WMSCertificationExercise < WMS < TWiki

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

`https://emi-demo11.cnaf.infn.it:9000/Cw4IByQC5DYhcHcEguYxuQ`

The job identifier has been saved in the following file:
`/home/capannini/certification/StressTest/Test_1328093897/output/USER0_0.jobid`

=====

Submission takes 7 seconds.
1 jobs submitted in 7 seconds: 7/7/7 (min/avg/max)
Test finishes at mer feb 1 11:58:34 CET 2012

The collection stays in status 'Waiting'.

=====> Test NOT PASSED

Stress test

- 2880 collection of 25 nodes each (total: 72000 jobs)
- One collection every 60 seconds
- one user
- Use LCG-CEs and CREAM-CEs (with different batch systems)
- Use automatic-delegation
- The job is a `ls -l`
- Resubmission is enabled
- Enable proxy renewal

```
[capannini@cert-17 StressTest]$ ./StressTest.sh -t 2880 -n 25 -c ~/wms_emi-demo11.conf -j ls.jdl
Test starts on mer feb 1 14:19:49 CET 2012: submit 2880 collections (of 25 nodes) with a frequenc
```

Results

```
[capannini@cert-17 output]$ ../../loginfo.sh -e 54
```

```
Results:
DONE      :      47192
NOTDone   :         8
Aborted   :      1775
-----
Total    :      48975
```

```
done jobs on CREAM CEs: 29819 (63%)
done jobs on LCG CEs: 17373 (37%)
```

The above statistics is obtained in the following way:

```
[capannini@cert-17 output]$ cat *.done|wc -l
47192
[capannini@cert-17 output]$ cat *.done|grep '8443/cream' |wc -l
29819
[capannini@cert-17 output]$ cat *.done|grep '2119/jobmanager' |wc -l
17373
```

=====> Test NOT PASSED (Aborted/Total = 3.6% probably too high percentage, but a general rule should be agreed upon)

Collection of 1000 nodes

Regression tests

Bug #81376 (glite-wms-wmproxy.restart.cron MUST support graceful wmp restart) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 81376 -l
+++++
+ Regression TestSuite .... +
+++++

Testing bug 81376

All tests PASSED
```

See log: RegressionTest_20120126111141.log: bug 81376 log

Bug #81568 (some inconsistencies in locations for logs and configuration) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 81568 -l
+++++
+ Regression TestSuite .... +
+++++

Testing bug 81568

All tests PASSED
```

See log: RegressionTest_20120126112001.log: bug 81568 log

Verified that all wms logs are in this directory:

```
[root@emi-demo11 ~]# ls $WMS_LOCATION_LOG
glite-wms-purgeStorage.log          ice.log          logmonitor_events.log
glite-wms-wmproxy-purge-proxycache.log  ice.log.1       wmproxy.log
glite-wms-wmproxy.restart.cron.log     ice.log.2       wmproxy_logrotate.log
httpd-wmproxy-access.log             ice.log.3       workload_manager_events.log
httpd-wmproxy-errors.log             jobcontoller_events.log  workload_manager_events.log.1
```

Bug #83062 (A different template should be used for glue2 publication) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 83062 -l
+++++
+ Regression TestSuite .... +
+++++

Testing bug 83062

All tests PASSED
```

See log: RegressionTest_20120126112643.log: bug 83062 log

Bug #85327 (glite-wms-wmproxy.restart.cron missing HOSTNAME environment variable) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 85327 -1
+++++
+ Regression TestSuite ....
+++++

Testing bug 85327

All tests PASSED
```

See log: RegressionTest_20120126113216.log: bug 85327 log

Bug #86485 (ICE doesn't send the iceld to CREAM) FIXED

Submitted a job through the WMS to a CREAM CE in debug mode.

Verified that in the CREAM log file the iceid is reported:

```
# grep selectToRetrieveJobStatusQuery /var/log/cream/glite-ce-cream.log
20 Oct 2011 07:11:43,186 DEBUG org.glite.ce.cream.jobmanagement.db.table.JobStatusTable (JobStatu
```

Verified also that in the CREAMDB the iceid is set for this job:

```
mysql> use creamdb;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select iceId from job where id="CREAM806900601"
-> ;
+-----+
| iceId                                     |
+-----+
| C_IT_O_INFN_OU_Host_L_Padova_CN_cream-44.pd.infn.it |
+-----+
1 row in set (0.00 sec)
```

==> test PASSED

Bug #86490 (EMI WMS stops accepting jobs after 31999th submission for the same DN (on ext3)) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 86490 -1
+++++
+ Regression TestSuite ....
+++++

Testing bug 86490

All tests PASSED
```

See logs: RegressionTest_20120126120305.log: bug 86490 log

Bug #86682 (yaim changes ownership of /var) FIXED

```
[capannini@devel15 regression_tests]$ python execute_regTest.py -d 3 -b 86682 -l
+++++
+ Regression TestSuite .... +
+++++
```

Testing bug 86682

All tests PASSED

See log: RegressionTest_20120126120624.log: bug 86682 log

Bug #86769 (EMI WMS Update 6: WMS 'hangs' after several hours of operation) FIX NOT CERTIFIED

It is not easy to verify this bug, but the WMS has passed some stress test of one or two days of submissions. It also has passed a test done by the user who posted the bug.

Bug #86956 (Match-matching of requests with access to catalogues can cause the WM to crash) FIX NOT CERTIFIED

To use the function specified in the bug we need a jdl with DataRequirements. In any case the error is not deterministic, so you can only set this bug as hopefully fixed.

```
[ale@cream-12 DataReq]$ cat data-req.jdl
#####
#          JDL with Data Requirements          #
#####

Executable = "/bin/ls";
Arguments = "-la";
StdOutput = "std.out";
StdError = "std.err";
Prologue = "prologue.sh";

FuzzyRank = true;
Environment={"LFC_HOST=prod-lfc-shared-central.cern.ch", "LFC_HOME=prod-lfc-shared-central.cern.c
InputSandbox = {"prologue.sh"};
OutputSandbox = {"std.out", "std.err", "prologue.out", "file.txt"};

requirements = true;

DataRequirements = {
[
DataCatalogType = "DLI";
DataCatalog ="http://prod-lfc-shared-central.cern.ch:8085/";
InputData = { "guid:17c667b7-9622-4c95-be68-3d15d1eacadb" };
]
};

DataAccessProtocol = "gsiftp";
AllowZippedISB=true;
RetryCount = 1;
ShallowRetryCount = 2;
```

```
[ale@cream-12 DataReq]$ glite-wms-job-list-match -a -c /home/ale/UI/etc/wmp_devel19.conf data
```

Connecting to the service https://devel19.cnaf.infn.it:7443/glite_wms_wmproxy_server

WMSCertificationExercise < WMS < TWiki

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-26.pd.infn.it:2119/jobmanager-lcgpbs-cert
- cream-26.pd.infn.it:2119/jobmanager-lcgpbs-creamtest1
- cream-26.pd.infn.it:2119/jobmanager-lcgpbs-creamtest2
- cream-31.pd.infn.it:8443/cream-pbs-creamtest1
- cream-31.pd.infn.it:8443/cream-pbs-creamtest2
- cream-38.pd.infn.it:8443/cream-pbs-creamtest1
- cream-38.pd.infn.it:8443/cream-pbs-creamtest2
- prod-ce-01.pd.infn.it:8443/cream-lsf-cert
- prod-ce-02.pd.infn.it:2119/jobmanager-lcglsf-cert
- 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-41.pd.infn.it:8443/cream-pbs-creamtest1
- cream-32.pd.infn.it:8443/cream-pbs-cert
- cream-32.pd.infn.it:8443/cream-pbs-creamtest1
- cream-32.pd.infn.it:8443/cream-pbs-creamtest2
- ce130.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce130.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce131.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce131.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce132.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce132.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce133.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
- ce133.cern.ch:2119/jobmanager-lcglsf-grid_dteam
- ce203.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce203.cern.ch:8443/cream-lsf-grid_dteam
- ce204.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce204.cern.ch:8443/cream-lsf-grid_dteam
- ce205.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce205.cern.ch:8443/cream-lsf-grid_dteam
- ce206.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce206.cern.ch:8443/cream-lsf-grid_dteam
- ce207.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce207.cern.ch:8443/cream-lsf-grid_dteam
- ce208.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce208.cern.ch:8443/cream-lsf-grid_dteam
- cream-11.pd.infn.it:2119/jobmanager-lcglsf-cert
- cream-11.pd.infn.it:2119/jobmanager-lcglsf-creamtest1
- cream-11.pd.infn.it:2119/jobmanager-lcglsf-creamtest2
- cream-20.pd.infn.it:8443/cream-lsf-cert
- cream-20.pd.infn.it:8443/cream-lsf-creamcert1
- cream-20.pd.infn.it:8443/cream-lsf-creamcert2
- cream-31.pd.infn.it:8443/cream-pbs-cert
- cream-41.pd.infn.it:8443/cream-pbs-cert
- cream-41.pd.infn.it:8443/cream-pbs-creamtest2
```

Bug #87259 (WMS purger errors in jobcontroller/logmonitor) FIXED

For a job submitted to a LCG-CE, verified that in `/var/log/glite/logmonitor_events.log` the removing of job directory, submit file, classad file, and wrapper file is logged:

Bug #86956 (Match-matching of requests with access to cataloguescan cause the WM to crash) ~~FIX~~ NOT C

WMSCertificationExercise < WMS < TWiki

```
28 Dec, 16:39:49 -I- EventAborted::process_event(): Job id = https://emi-demo11.cnaf.infn.it:9000
28 Dec, 16:39:49 -I- JobFilePurger::do_purge(...): Removing job directory: /var/jobcontrol/condor
28 Dec, 16:39:49 -U- JobFilePurger::do_purge(...): Removed 1 files.
28 Dec, 16:39:49 -I- JobFilePurger::do_purge(...): Removing submit file: /var/jobcontrol/submit/v
28 Dec, 16:39:49 -U- JobFilePurger::do_purge(...): Removed...
28 Dec, 16:39:49 -I- JobFilePurger::do_purge(...): Removing classad file: /var/jobcontrol/submit/
28 Dec, 16:39:49 -U- JobFilePurger::do_purge(...): Removed...
28 Dec, 16:39:49 -I- JobFilePurger::do_purge(...): Removing wrapper file: /var/jobcontrol/submit/
28 Dec, 16:39:49 -U- JobFilePurger::do_purge(...): Removed...
```

Verified that they have been actually removed:

```
[root@emi-demo11 ~]# ls /var/jobcontrol/condorio/vH/
[root@emi-demo11 ~]# ls /var/jobcontrol/submit/vH/
```

Submitted a job:

```
[capannini@devel15 WMS-service]$ glite-wms-job-submit -a -c ~/wms_emi-demo11.conf ~/ls.jdl
```

Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
```

Copied the sandbox dir:

```
[root@emi-demo11 ~]# cd /var/SandboxDir/-i/
[root@emi-demo11 -i]# ls
https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2f-iL7RrvLDu1Z9jFultvSLA
[root@emi-demo11 -i]# cp -r -p https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2f-iL7RrvLDu1Z9jFultv
[root@emi-demo11 -i]#
[root@emi-demo11 -i]#
[root@emi-demo11 -i]# ls -l
totale 8
drwxrwx--- 5 dteam045 glite 4096 26 gen 12:23 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2f-iL7
drwxrwx--- 5 dteam045 glite 4096 26 gen 12:23 https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2f-iL7
```

Retrieved the OSB when the job is done:

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
```

```
===== glite-wms-job-status Success =====
```

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA

Current Status: Done (Success)

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: atlasce2.lnf.infn.it:8443/cream-pbs-cert

Submitted: Thu Jan 26 12:23:29 2012 CET

```
[capannini@devel15 WMS-service]$ glite-wms-job-output https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
```

Connecting to the service https://emi-demo11.cnaf.infn.it:7443/glite_wms_wmproxy_server

```
=====
```

JOB GET OUTPUT OUTCOME

WMSCertificationExercise < WMS < TWiki

Output sandbox files for the job:
https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/capannini_-iL7RrvLDu1Z9jFultvSLA

```
=====  
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
```

```
=====  
[capannini@devel15 WMS-service]$ glite-wms-job-status Success =====  
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA  
Current Status:      Cleared  
Status Reason:      user retrieved output sandbox  
Destination:        atlasce2.lnf.infn.it:8443/cream-pbs-cert  
Submitted:          Thu Jan 26 12:23:29 2012 CET  
=====
```

Restored the sandbox dir in the WMS:

```
[root@emi-demo11 ~]# mv https_3a_2f_2femi-demo11.cnaf.infn.it_3a9000_2f-iL7RrvLDu1Z9jFultvSLA.ol
```

Purged the job from LBProxy and from LBServer:

```
[root@emi-demo11 ~]# echo 'https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA' >jobid.txt  
[root@emi-demo11 ~]#  
[root@emi-demo11 ~]# /usr/bin/glite-lb-purge -m emi-demo11.cnaf.infn.it -x -j jobid.txt  
The jobs were not dumped.  
[root@emi-demo11 ~]# /usr/bin/glite-lb-purge -m emi-demo11.cnaf.infn.it -j jobid.txt  
The jobs were not dumped.
```

Verified that job status returns =Identifier removed= (i.e. error =EIDRM=):

```
[capannini@devel15 WMS-service]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA
```

```
**** Error: API_NATIVE_ERROR ****  
Error while calling the "Job:getStatus" native api  
Unable to retrieve the status for: https://emi-demo11.cnaf.infn.it:9000/-iL7RrvLDu1Z9jFultvSLA  
glite.lb.Exception: edg_wll_JobStatus: Identifier removed: matching job already purged  
    at glite::lb::Job::status[./src/Job.cpp:87]
```

On the WMS, purged the sandboxdir, as user glite, invoking the command =glite-wms-purgeStorage.sh

```
[glite@emi-demo11 ~]$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/-i  
26 Jan, 15:05:17 -E: [Error] query_job_status(/home/condor/execute/dir_26089/userdir/emi.wms.wms-  
26 Jan, 15:05:17 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

Verified that the sandboxdir has been removed:

```
[glite@emi-demo11 ~]$ ls -l /var/SandboxDir/-i  
total 0
```

====> test PASSED

Bug #87994 yaim-wms doesn't fill the attributes get_acbr and get_owner in the conf file for Glue2 FIXED

Bug #87994 yaim-wms doesn't fill the attributes get_acbr and get_owner in the conf file for Glue2 ~~FIXED~~

WMSCertificationExercise < WMS < TWiki

```
Check the attributes get_acbr and get_owner in /etc/glite/info/service/glite-info-glue2-wmproxy.conf
[root@emi-demo11 ~]# grep get_acbr /etc/glite/info/service/glite-info-glue2-wmproxy.conf get_acbr = echo
-e
"VO:atlas\nVO:alice\nVO:lhcb\nVO:cms\nVO:dteam\nVO:biomed\nVO:ops\nVO:infngrid\nVO:testers.eu-emi.eu"
[root@emi-demo11 ~]# grep get_owner /etc/glite/info/service/glite-info-glue2-wmproxy.conf get_owner =
echo -e "atlas\nalice\nlhcb\ncms\ndteam\nbiomed\nops\ninfngrid\ntesters.eu-emi.eu"
```

====> test PASSED

Bug #88072 EMI-1 WMS cannot submit to ARC CEs FIXED

```
-bash-3.2$ glite-wms-job-status https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
Current Status:      Done (Success)
Exit code:           0
Status Reason:      Job terminated successfully
Destination:        jade-cms.hip.fi:2811/nordugrid-GE-arc
Submitted:          Mon Nov 21 16:01:15 2011 CET
=====
```

```
-bash-3.2$ glite-wms-job-output https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
```

```
Connecting to the service https://devel19.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
JOB GET OUTPUT OUTCOME
```

```
Output sandbox files for the job:
https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/traldi_pl6ZSNy7MNWNSH6x8650DQ
=====
```

```
-bash-3.2$ cat /tmp/jobOutput/traldi_pl6ZSNy7MNWNSH6x8650DQ/out.txt
```

```
total 32
```

```
drwx----- 2 cmsuser43 cmsuser 4096 Nov 21 17:02 .
drwx----- 3 cmsuser43 cmsuser 4096 Nov 21 17:02 ..
-rw----- 1 cmsuser43 cmsuser  118 Nov 21 17:02 https_3a_2f_2fdevel19.cnaf.infn.it_3a9000_2fp16Z
-rw-r--r-- 1 cmsuser43 cmsuser   0 Nov 21 17:02 out.txt
-rw-r--r-- 1 cmsuser43 cmsuser 1359 Nov 21 17:02 pippo.jdl
-rw----- 1 cmsuser43 cmsuser   2 Nov 21 17:02 tmp.bUujW32646
-rw----- 1 cmsuser43 cmsuser  103 Nov 21 17:02 tmp.cNkaG32632
-rw----- 1 cmsuser43 cmsuser  103 Nov 21 17:02 tmp.exhlZ32647
-rw----- 1 cmsuser43 cmsuser   2 Nov 21 17:02 tmp.gZIi32631
-rw----- 1 cmsuser43 cmsuser   0 Nov 21 17:02 tmp.SdwGF32645
```

```
[ale@cream-12 WMS-service]$ glite-wms-job-status https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel19.cnaf.infn.it:9000/pl6ZSNy7MNWNSH6x8650DQ
Current Status:      Cleared
```

WMSCertificationExercise < WMS < TWiki

Status Reason: user retrieved output sandbox
Destination: jade-cms.hip.fi:2811/nordugrid-GE-arc
Submitted: Mon Nov 21 16:01:15 2011 CET
=====

====> test PASSED

Bug #88096 CA certificate verification failed FIXED NOT CERTIFIED

It is not easy to verify this bug, but the WMS has passed some stress test of one or two days of submissions.

Bug #88097 Collection not terminated FIXED NOT CERTIFIED

It is not easy to verify this bug, but the WMS has passed some stress test of one or two days of submissions.

Bug #88450 Ice configuration section doesn't use environment variable FIXED

```
[root@cream-44 ~]# cat /etc/glite-wms/glite_wms.conf | grep -i " logfile"
logfile = "${WMS_LOCATION_LOG}/ice.log";
LogFile = "${WMS_LOCATION_LOG}/wmpoxy.log";
LogFile = "${WMS_LOCATION_LOG}/networkserver_events.log";
LogFile = "${WMS_LOCATION_LOG}/workload_manager_events.log";
LogFile = "${WMS_LOCATION_LOG}/logmonitor_events.log";
LogFile = "${WMS_LOCATION_LOG}/jobcontoller_events.log";
```

====> test PASSED

Bug #88558 WM creates submit requests with old sequence code upon a replan FIXED

```
Event: Resubmission
- Arrived = Wed Nov 23 19:16:16 2011 CET
- Host = devel19.cnaf.infn.it
- Level = SYSTEM
- Priority = synchronous
- Reason = token still exists
- Result = SHALLOW
- Seqcode = UI=000000:NS=0000000004:WM=000007:BH=0000000000:JSS=000002:LM=0
- Source = WorkloadManager
- Src instance = 13159
- Tag = job will be replanned
- Timestamp = Wed Nov 23 19:16:16 2011 CET
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianel
```

[...]

```
Event: EnQueued
- Arrived = Wed Nov 23 19:16:16 2011 CET
- Host = devel19.cnaf.infn.it
- Level = SYSTEM
- Priority = synchronous
- Queue = /var/workload_manager/jobdir
- Result = OK
- Seqcode = UI=000000:NS=0000000004:WM=000009:BH=0000000000:JSS=000002:LM=0
- Source = WorkloadManager
- Src instance = 13159
- Timestamp = Wed Nov 23 19:16:16 2011 CET
```

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```
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelloni
- Job =
```

```
[
  version = "1.0.0";
  arguments =
  [
    ad =
    [
      NodeName = "Node_jdl_953";
      FuzzyRank = true;
      CEInfoHostName = "cream-31.pd.infn.it";
      OutputSandboxPath = "/var/SandboxDir/ji/https_3a_2f_2fdevel19.cnaf.infn.it_3a9000_2fj";
      StdOutput = "out.log";
      GlobusResourceContactString = "cream-31.pd.infn.it:8443/cream-pbs";
      QueueName = "creamentest2";
      ShallowRetryCount = 3;
      RetryCount = 2;
      Executable = "/bin/sleep";
      Type = "job";
      LB_sequence_code = "UI=000000:NS=0000000004:WM=000009:BH=0000000000:JSS=000002:LM=000000";
    ]
  ]
]
```

====> test PASSED

Bug #88569 WMS: LCMAPS should log on file only and not on syslog FIXED

Check that no messages about LCMAPS have been logged by wmpoxy on syslog:

```
[root@cream-44 ~]# grep glite_wms_wmpoxy_server /var/log/messages* | grep -i "LCMAPS"
[root@cream-44 ~]#
```

And also that there is a log file for lcmaps:

```
[root@cream-44 ~]# ls -l /var/log/glite/lcmaps.log
-rw-r--r-- 1 glite glite 659344 Nov 21 15:43 /var/log/glite/lcmaps.log
```

====> test PASSED

Nagios probes test

Clean installation

Environment

Clean SL5 installation plus an EMI-UI according to EMI guidelines.

```
[root@devel15 ~]# cat /etc/emi-version
1.6.0-1
```

Repositories

- `wget --no-check-certificate https://twiki.cern.ch/twiki/pub/EMI/EMI1Updates/testing.repo -O /etc/yum.repos.d/testing.repo`
- `wget http://repository.egi.eu/sw/production/sam/1/repofiles/sam.repo -O /etc/yum.repos.d/sam.repo`

Install

```
yum install emi-wms-nagios
```

```
[root@devel15 ~]# yum install emi-wms-nagios
Loaded plugins: downloadonly, kernel-module, priorities, protect-packages, protectbase, security,
Repository EGI-trustanchors is listed more than once in the configuration
EMI-1-base
EMI-1-testing-base
EMI-1-third-party
EMI-1-updates
Oracle
core
egi-sam
extras
4168 packages excluded due to repository priority protections
23 packages excluded due to repository protections
Reading version lock configuration
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package emi-wms-nagios.noarch 0:1.0.0-1.e15 set to be updated
--> Processing Dependency: nagios-submit-conf >= 0.2 for package: emi-wms-nagios
--> Processing Dependency: python-GridMon >= 1.1.10 for package: emi-wms-nagios
--> Processing Dependency: python-ldap for package: emi-wms-nagios
--> Running transaction check
---> Package nagios-submit-conf.noarch 0:0.2-2.e15 set to be updated
---> Package python-GridMon.noarch 0:1.1.12-1.e15 set to be updated
---> Package python-ldap.x86_64 0:2.2.0-2.1 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin
```

```
Dependencies Resolved
```

```
=====
Package                                Arch                                Version
=====
Installing:
emi-wms-nagios                          noarch                              1.0.0-1.e15
Installing for dependencies:
nagios-submit-conf                       noarch                              0.2-2.e15
python-GridMon                           noarch                              1.1.12-1.e15
python-ldap                               x86_64                              2.2.0-2.1
=====
```

```
Transaction Summary
```

```
=====
Install      4 Package(s)
Upgrade      0 Package(s)
=====
```

```
Total download size: 340 k
```

```
Is this ok [y/N]: y
```

```
Downloading Packages:
```

```
(1/4): nagios-submit-conf-0.2-2.e15.noarch.rpm
(2/4): emi-wms-nagios-1.0.0-1.e15.noarch.rpm
(3/4): python-ldap-2.2.0-2.1.x86_64.rpm
(4/4): python-GridMon-1.1.12-1.e15.noarch.rpm
-----
```

```
Total
```

```
Running rpm_check_debug
```

```
Running Transaction Test
```

```
Finished Transaction Test
```

```
Transaction Test Succeeded
```

```
Running Transaction
```

```
Installing      : python-ldap
Installing      : nagios-submit-conf
```

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```
Installing      : python-GridMon
Installing      : emi-wms-nagios
```

```
Installed:
emi-wms-nagios.noarch 0:1.0.0-1.e15
```

```
Dependency Installed:
nagios-submit-conf.noarch 0:0.2-2.e15          python-GridMon.noarch 0:1.1.12-1.e15
```

Complete!

Upgrade from production

N/A: This is the initial release. No previous version to upgrade from.

Unit Tests

N/A: The nagios probes are interpreted python scripts. Unit tests do not apply.

Regression Tests

N/A: This is the initial release. No associated bugs exist.

Functional Tests

Preparation

Log as a user and create a valid voms proxy

WMSProbe

- State + Monit

```
[capannini@devel15 ~]$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x
OK:
OK:
Testing from: devel15.cnaf.infn.it
DN: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy
VOMS FQANs: /dteam/Role=NULL/Capability=NULL, /dteam/NGI_IT/Role=NULL/Capability=NULL
```

```
Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A
```

```
The job identifier has been saved in the following file:
/var/lib/gridprobes/dteam/emi.wms/WMS/emi-demo11.cnaf.infn.it/jobID
```

```
=====
[capannini@devel15 ~]$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x
metric results >>> <emi-demo11.cnaf.infn.it,emi.wms.WMS-JobState-dteam>
OK: [Running] https://emi-demo11.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A
```


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OK: [Running] <https://emi-dem011.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A>
glite-wms-job-status <https://emi-dem011.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A>

=====
glite-wms-job-status Success
BOOKKEEPING INFORMATION:

Status info for the Job : <https://emi-dem011.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A>
Current Status: Running
Status Reason: Job successfully submitted to Globus
Destination: cmsce01.na.infn.it:2119/jobmanager-lcgpbs-cert
Submitted: Thu Jan 26 16:14:33 2012 CET

=====
OK: Jobs processed - 1

OK: Jobs processed - 1

[Running] : 1|jobs_processed=1;; DONE=0;; RUNNING=1;; SCHEDULED=0;; SUBMITTED=0;; READY=0;; WAITING=0

[capannini@devel15 ~]\$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x

OK: Active job - Running [2012-01-26T15:16:24Z]

OK: Active job - Running [2012-01-26T15:16:24Z]

Testing from: devel15.cnaf.infn.it

DN: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy

VOMS FQANs: /dteam/Role=NULL/Capability=NULL, /dteam/NGI_IT/Role=NULL/Capability=NULL

Active job - Running [2012-01-26T15:16:24Z]

[capannini@devel15 ~]\$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x

metric results >>> <emi-dem011.cnaf.infn.it,emi.wms.WMS-JobSubmit-dteam>

OK: success.

glite-wms-job-output --noint --nosubdir --dir /var/lib/gridprobes/dteam/emi.wms/WMS/emi-dem011.cnaf.infn.it

Connecting to the service https://emi-dem011.cnaf.infn.it:7443/glite_wms_wmproxy_server

Warning - option --nosubdir specified:

output files with same name will be overridden

Warning - Directory already exists:

/var/lib/gridprobes/dteam/emi.wms/WMS/emi-dem011.cnaf.infn.it/jobOutput

=====
JOB GET OUTPUT OUTCOME

Output sandbox files for the job:

<https://emi-dem011.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A>

have been successfully retrieved and stored in the directory:

/var/lib/gridprobes/dteam/emi.wms/WMS/emi-dem011.cnaf.infn.it/jobOutput

=====
metric results >>> <emi-dem011.cnaf.infn.it,emi.wms.WMS-JobState-dteam>

OK: success.

glite-wms-job-output --noint --nosubdir --dir /var/lib/gridprobes/dteam/emi.wms/WMS/emi-dem011.cnaf.infn.it

Connecting to the service https://emi-dem011.cnaf.infn.it:7443/glite_wms_wmproxy_server

Warning - option --nosubdir specified:

output files with same name will be overridden

Warning - Directory already exists:

/var/lib/gridprobes/dteam/emi.wms/WMS/emi-dem011.cnaf.infn.it/jobOutput

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=====

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:

https://emi-demo11.cnaf.infn.it:9000/nc4oU4nTtQMspwuhs0CK2A
have been successfully retrieved and stored in the directory:
/var/lib/gridprobes/dteam/emi.wms/WMS/emi-demo11.cnaf.infn.it/jobOutput

=====

OK: Jobs processed - 1

OK: Jobs processed - 1

Done : 1|jobs_processed=1;; DONE=1;; RUNNING=0;; SCHEDULED=0;; SUBMITTED=0;; READY=0;; WAITING=0;

[capannini@devel15 ~]\$ cat /var/lib/gridprobes/dteam/emi.wms/WMS/emi-demo11.cnaf.infn.it/jobOutput
cmswn04.na.infn.it

Summary: PASSED

- State + Monit + Cancel

[capannini@devel15 ~]\$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x

OK:

OK:

Testing from: devel15.cnaf.infn.it

DN: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy

VOMS FQANs: /dteam/Role=NULL/Capability=NULL, /dteam/NGI_IT/Role=NULL/Capability=NULL

Connecting to the service https://emi-demo11.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://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg

The job identifier has been saved in the following file:

/var/lib/gridprobes/dteam/emi.wms/WMS/emi-demo11.cnaf.infn.it/jobID

=====

[capannini@devel15 ~]\$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x

metric results >>> <emi-demo11.cnaf.infn.it,emi.wms.WMS-JobState-dteam>

OK: [Scheduled] https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg

OK: [Scheduled] https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg

glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg

===== glite-wms-job-status Success =====

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg

Current Status: Scheduled

Status Reason: unavailable

Destination: inaf-ce-01.ct.pi2s2.it:8443/cream-lsf-cert

Submitted: Thu Jan 26 16:27:27 2012 CET

=====

OK: Jobs processed - 1

OK: Jobs processed - 1

[Scheduled] : 1|jobs_processed=1;; DONE=0;; RUNNING=0;; SCHEDULED=1;; SUBMITTED=0;; READY=0;; WAI

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```
[capannini@devel15 ~]$ /usr/libexec/grid-monitoring/probes/emi.wms/WMS-probe --vo dteam -x /tmp/x
OK: job cancelled
OK: job cancelled
Testing from: devel15.cnaf.infn.it
DN: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini/CN=proxy
VOMS FQANs: /dteam/Role=NULL/Capability=NULL, /dteam/NGI_IT/Role=NULL/Capability=NULL
Job cancellation request sent:
glite-wms-job-cancel --noint -i /var/lib/gridprobes/dteam/emi.wms/WMS/emi-demo11.cnaf.infn.it/jo
Job bookkeeping files deleted.
```

```
[capannini@devel15 ~]$ glite-wms-job-status https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0f
```

```
===== glite-wms-job-status Success =====
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo11.cnaf.infn.it:9000/HnfZcXc--G7TtJ0fzhYGcg
Current Status:      Cancelled
Destination:        inaf-ce-01.ct.pi2s2.it:8443/cream-lsf-cert
Submitted:          Thu Jan 26 16:27:27 2012 CET
=====
```

Summary: **PASSED**

-- FabioCapannini - 2011-12-28

This topic: WMS > WMSCertificationExercise

Topic revision: r34 - 2012-03-27 - FabioCapannini



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