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WMS v. 3.3.8 (ex.3.3.6) test report - IGIRTC-81

Summary

- Component: **WMS 3.3.8**
- Savannah task: #27731
- ETICS Subsystem Configuration Name: **emi-wms_R_3_3_10_1**
- VCS Tag: *emi-ice_R_3_3_6_0, emi-jobsubmission_R_3_3_3_3, emi-wmproxy_R_3_3_6_2, emi-wms-broker_R_3_3_1_3, emi-wms-brokerinfo_R_3_3_2_1, emi-wms-classad-plugin_R_3_3_1_3, emi-wms-common_R_3_3_2_0, emi-wms-configuration_R_3_3_3_2, emi-wms-helper_R_3_3_3_2, emi-wms-ism_R_3_3_2_1, emi-wms-manager_R_3_3_2_2, emi-wms-matchmaking_R_3_3_2_1, emi-wms-mp_R_1_0_3_0, emi-wms-nagios_R_1_0_0_3, emi-wms-purger_R_3_3_2_1, emi-yaim-wms_R_4_1_6_1, glite-wms-utils-exception_R_3_2_2_2, glite-wms-utils-classad_R_3_2_2_2, glite-jdl-api-cpp_R_3_2_6_1*
- EMI Major Release: **EMI 1 (Kebnekaise)**
- Platform: sl5 epel
- Outcome: **Certified**

Deployment Tests

Clean installation

- Starting from a SL5 x86_64 kernel machine:

```
[root@emi-demo12 ~]# cat /etc/redhat-release
Scientific Linux SL release 5.7 (Boron)
[root@emi-demo12 ~]# uname -a
Linux emi-demo12.cnaf.infn.it 2.6.18-274.12.1.el5 #1 SMP Tue Nov 29 11:14:39 EST 2011 x86_64 x86_64
[root@emi-demo12 ~]# wget http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi -O /tmp/emi-key.gd.asc
[root@emi-demo12 ~]# rpm --import /tmp/emi-key.gd.asc
```

- `wget`
`http://emisoft.web.cern.ch/emisoft/dist/EMI/1/sl5/x86_64/updates/emi-release-1.0.1-1.sl5.noarch.rpm`
- `rpm -ivh emi-release-1.0.1-1.sl5.noarch.rpm`
- `cd /etc/yum.repos.d/`
- `wget --no-check-certificate`
`http://emisoft.web.cern.ch/emisoft/dist/EMI/certification/repos/emi1-cert-base.repo`
- `yum clean all`
- `yum install ca-policy-egi-core`
- `yum install emi-wms condor-emi`
 - ◆ `install.log: install.log`
- `cd; /opt/glite/yaim/bin/yaim -c -s siteinfo/site-info.def -n WMS -n LB`
 - ◆ `config.log: config.log`

Update

```
[root@cert-26 ~]# cat /etc/redhat-release
Scientific Linux release 5.8 (Boron)
[root@cert-26 ~]# uname -a
Linux cert-26.cnaf.infn.it 2.6.18-308.8.2.el5 #1 SMP Tue Jun 12 11:25:25 EDT 2012 x86_64 x86_64 x86_64 GNU/Linux
[root@cert-26 ~]# wget http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi -O /tmp/emi-key_gd.asc
--2012-06-28 15:15:46-- http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RPM-GPG-KEY-emi
Risoluzione di emisoft.web.cern.ch... 137.138.139.27
Connessione a emisoft.web.cern.ch|137.138.139.27|:80... connesso.
HTTP richiesta inviata, in attesa di risposta... 200 OK
Lunghezza: 1726 (1,7K) [text/plain]
Salvataggio in: "/tmp/emi-key_gd.asc"

100%[=====]
2012-06-28 15:15:46 (183 MB/s) - "/tmp/emi-key_gd.asc" salvato [1726/1726]

[root@cert-26 ~]# rpm --import /tmp/emi-key_gd.asc
```

- wget
 - http://emisoft.web.cern.ch/emisoft/dist/EMI/1/sl5/x86_64/updates/emi-release-1.0.1-1.sl5.noarch.rpm
- rpm -ivh emi-release-1.0.1-1.sl5.noarch.rpm
- yum clean all
- yum install ca-policy-egi-core
- yum install emi-wms
- cd /etc/yum.repos.d/
- wget --no-check-certificate
 - http://emisoft.web.cern.ch/emisoft/dist/EMI/certification/repos/emi1-cert-base.repo
- yum remove condor condor-lcg
- yum install emi-wms condor-emi
- yum update
 - ◆ update.log: update.log
- cd; cat siteinfo/services/glite-wms

```
LB_HOST="devel17.cnaf.infn.it:9000"
GLITE_LB_TYPE=proxy
```

- /opt/glite/yaim/bin/yaim -c -s siteinfo/site-info.def -n WMS
 - ◆ config1.log: config1.log

Unit Tests

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

Basic Functionality tests

Submission

Normal

```
[capannini@cert-17 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:

Update

WMSTask27731 < IGIRelease < TWiki

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

Test 1A: Submit to an LCG-CE

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 15:27:37
====> Ended  : 15:30:17
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120625152737.log
```

• WMSService-TS_20120625152737.log: WMSService-TS_20120625152737.log

```
[capannini@cert-17 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: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 15:57:22
====> Ended  : 16:07:35
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120625155722.log
```

• WMSService-TS_20120625155722.log: WMSService-TS_20120625155722.log

```
[capannini@cert-17 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V testers2.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: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 16:05:58
====> Ended  : 16:37:49
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120625160558.log
```

• WMSService-TS_20120625160558.log: WMSService-TS_20120625160558.log

```
[capannini@cert-17 WMS-service]$ myproxy-init -d
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini
Creating proxy ..... D
Proxy Verify OK
Your proxy is valid until: Mon Jul 2 16:08:41 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@cert-17 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 voms2.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms2.hellasgrid.gr
Creating proxy ..... Done
```

```
Your proxy is valid until Tue Jun 26 03:09:22 2012
A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capa
[capannini@cert-17 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  : 10:59:43
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  : 11:58:43
uri       : voms2.hellasgrid.gr:15004
[capannini@cert-17 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -d 3 -l -t 1
==> ++++++
==> + TestSuite of the WMS Service
==> + Description: Test a complete job cycle: from submission to get output
==> ++++++
```

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

Test 1A: Submit to an LCG-CE

```
==>
==> Test: WMS-job-cycle.py
==> WMS: emi-demo12.cnaf.infn.it
==> Started: 16:16:37
==> Ended  : 16:52:55
==>
==>      === test PASSED ===
==>
==> Test log file is WMSService-TS_20120625161637.log
```

• WMSService-TS_20120625161637.log: WMSService-TS_20120625161637.log

```
[capannini@cert-17 WMS-service]$ python WMS-job-cycle.py -c wms-command.conf -V dteam -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)

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-demo12.cnaf.infn.it ====> Started: 16:20:30 ====> Ended : 16:58:58 ====> => test PASSED == ====> ====> Test log file is WMSService-TS_20120831162030.log

[capannini@cert-17 WMS-service]\$ python WMS-job-cycle.py -c wms-command.conf -V testers.eu-emi.eu -d 3 -l 1 -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)

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-demo12.cnaf.infn.it ====> Started: 16:16:29 ====> Ended : 16:46:25 ====> => test PASSED == ====> ====> Test log file is WMSService-TS_20120831161629.log

Proxy mode

Pointing the testsuite at cert-26.cnaf.infn.it:

[capannini@cert-17 WMS-service]\$ python WMS-job-cycle.py -c wms-command.conf -V dteam -d 3 -l 1 -t 1 ====> + 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: cert-26.cnaf.infn.it

Proxy mode

WMSTask27731 < IGIRelease < TWiki

```
====> Started: 17:24:15
====> Ended  : 17:57:55
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120628172415.log
```

• WMSService-TS_20120628172415.log: WMSService-TS_20120628172415.log

ARC CE

```
[cristofori@ui ~]$ lcg-infosites --is egee-bdii.cnaf.infn.it --vo cms ce
|grep arc
      68      0      16      4      16
arc.univ.kiev.ua:2811/nordugrid-torque-arc
      768     408     3605     360     3605
jade-cms.hip.fi:2811/nordugrid-GE-arc
```

```
[cristofori@ui ~]$ glite-wms-job-submit -e
https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server -a -r
jade-cms.hip.fi:2811/nordugrid-GE-arc firsttest.jdl
```

```
Connecting to the service
https://emi-demo12.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-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
```

```
[cristofori@ui ~]$ glite-wms-job-status
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
```

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

BOOKKEEPING INFORMATION:

```
Status info for the Job :
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
Current Status:      Scheduled
Status Reason:      Job successfully submitted over the Grid
Destination:      jade-cms.hip.fi:2811/nordugrid-GE-arc
Submitted:      Thu Jun 28 17:17:29 2012 CEST
```

```
[cristofori@ui ~]$ glite-wms-job-status
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
```

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

BOOKKEEPING INFORMATION:

```
Status info for the Job :
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
Current Status:      Done (Success)
Exit code:      0
Status Reason:      Job terminated successfully
Destination:      jade-cms.hip.fi:2811/nordugrid-GE-arc
Submitted:      Thu Jun 28 17:17:29 2012 CEST
```

ARC CE

```

=====
[cristofori@ui ~]$ glite-wms-job-output --dir ./
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg

Connecting to the service
https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server

```

JOB GET OUTPUT OUTCOME

```

=====

Output sandbox files for the job:
https://emi-demo12.cnaf.infn.it:9000/qVg5rOfrToEKWFrVFbRgHg
have been successfully retrieved and stored in the directory:
/home/GUEST/cristofori/cristofori_qVg5rOfrToEKWFrVFbRgHg

=====

```

```

[cristofori@ui ~]$ cat
/home/GUEST/cristofori/cristofori_qVg5rOfrToEKWFrVFbRgHg/stderr.log
[cristofori@ui ~]$ cat
/home/GUEST/cristofori/cristofori_qVg5rOfrToEKWFrVFbRgHg/stdout.log
cmsuser07

```

Jdl with DataRequirements

```

[capannini@cert-17 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.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;
requirements = !RegExp(".*cream.*", other.GlueCEUniqueID);
[capannini@cert-17 WMS-service]$
[capannini@cert-17 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:

```


WMSTask27731 < IGIRelease < TWiki

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

Test 1A: Submit to an LCG-CE

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demol2.cnaf.infn.it
====> Started: 17:22:13
====> Ended  : 17:26:54
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120625172213.log
```

• WMSService-TS_20120625172213.log: WMSService-TS_20120625172213.log

Jdl with ISBBaseURI and OSBDestURI

```
[capannini@cert-17 certification.nocream]$ cat URI.jdl
#####
#      JDL with ISBURI & OSBDestURI      #
#####

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

InputSandboxBaseURI = "gsiftp://emi-demol1.cnaf.infn.it:2811/tmp";

FuzzyRank = true;
InputSandbox = {"exe.sh", "test1", "test2"};
OutputSandbox = {"std.out", "std.err"};
OutputSandboxDestURI = {"gsiftp://emi-demol1.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@cert-17 certification.nocream]$ scp tmp/exe.sh test1 test2 root@emi-demol1:/tmp
root@emi-demol1's password:
exe.sh
test1
test2

[capannini@cert-17 certification.nocream]$ glite-wms-job-submit -a -c ~/wms_emi-demol2.conf URI.jdl

Connecting to the service https://emi-demol2.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-demol2.cnaf.infn.it:9000/6gZT7jcwMdEfFELEi3dDpA

=====

[capannini@cert-17 certification.nocream]$ glite-wms-job-status https://emi-demol2.cnaf.infn.it:9
```

WMSTask27731 < IGIRelease < TWiki

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

BOOKKEEPING INFORMATION:

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/6gZT7jcwMdeFFELEi3dDpA
Current Status:      Done (Success)
Exit code:          0
Status Reason:      Job terminated successfully
Destination:        prod-ce-02.pd.infn.it:2119/jobmanager-lcglsf-cert
Submitted:          Tue Jun 26 11:34:18 2012 CEST
=====
```

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-output https://emi-demo12.cnaf.infn.it:9
```

```
Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
```

JOB GET OUTPUT OUTCOME

```
Output sandbox files for the job:
https://emi-demo12.cnaf.infn.it:9000/6gZT7jcwMdeFFELEi3dDpA
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/capannini_6gZT7jcwMdeFFELEi3dDpA
=====
```

```
[capannini@cert-17 certification.nocream]$ ls -l /tmp/jobOutput/capannini_6gZT7jcwMdeFFELEi3dDpA
totale 0
-rw-r--r-- 1 capannini emitestbed 0 26 giu 11:54 std.err
```

Log on emi-demo11:

```
[root@emi-demo11 siteinfoBKP]# cat /tmp/myjobOutput
6gZT7jcwMdeFFELEi3dDpA
total 36
-rwxr-xr-x 1 dteam021 dteam 80 Jun 26 11:35 exe.sh
-rw-r--r-- 1 dteam021 dteam 118 Jun 26 11:36 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2f6gZT7
-rw-r--r-- 1 dteam021 dteam 0 Jun 26 11:36 std.err
-rw-r--r-- 1 dteam021 dteam 23 Jun 26 11:36 std.out
-rw-r--r-- 1 dteam021 dteam 6 Jun 26 11:35 test1
-rw-r--r-- 1 dteam021 dteam 6 Jun 26 11:35 test2
-rw----- 1 dteam021 dteam 103 Jun 26 11:35 tmp.dcIJc30890
-rw----- 1 dteam021 dteam 0 Jun 26 11:36 tmp.fEchX31965
-rw----- 1 dteam021 dteam 2 Jun 26 11:35 tmp.NjTgx30889
-rw----- 1 dteam021 dteam 103 Jun 26 11:36 tmp.rUzky31978
-rw----- 1 dteam021 dteam 2 Jun 26 11:36 tmp.sGHmx31972
```

====> Test PASSED

Jdl with ISBBaseURI and OSBBaseDestURI

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-submit -a -c ~/wms_emi-demo12.conf BaseU
```

```
Connecting to the service https://emi-demo12.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-demo12.cnaf.infn.it:9000/akrnbb99GGh4yRiZ7g5Ktw
```

```
=====  
[capannini@cert-17 certification.nocream]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9
```

```
=====  
glite-wms-job-status Success =====  
BOOKKEEPING INFORMATION:  
  
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/akrnbb99GGh4yRiZ7g5Ktw  
Current Status:      Done (Success)  
Logged Reason(s):  
-  
- Job terminated successfully  
Exit code:          0  
Status Reason:     Job terminated successfully  
Destination:       cmsrm-ce02.roma1.infn.it:2119/jobmanager-lcglsf-cmsgcert  
Submitted:         Tue Jun 26 12:00:47 2012 CEST  
=====
```

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-output https://emi-demo12.cnaf.infn.it:9  
  
Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
=====  
  
JOB GET OUTPUT OUTCOME  
  
No output files to be retrieved for the job:  
https://emi-demo12.cnaf.infn.it:9000/akrnbb99GGh4yRiZ7g5Ktw  
  
=====
```

```
On devel20:  
[root@devel20 ~]# ls -lrt /tmp/  
totale 16  
drwxr-xr-x 2 root    root    4096 21 mar 11:32 hspcrdata_root  
-rw-r--r-- 1 glite   glite    4 16 mag 10:36 glite-wms-workload_manager.pid  
srwx----- 1 glite   glite    0 16 mag 10:36 lb_proxy_store.sock  
srwx----- 1 glite   glite    0 16 mag 10:36 lb_proxy_serve.sock  
srw----- 1 glite   glite    0 16 mag 10:36 dgpr_renew_155  
drwxr-xr-x 2 glite   glite   4096 16 mag 10:36 condor-lock.devel200.38608921117066  
-rw-r--r-- 1 dteam005 dteam    714 26 giu 12:16 std.out  
-rw-r--r-- 1 dteam005 dteam    0 26 giu 12:16 std.err  
srwx----- 1 glite   glite    0 26 giu 14:08 glite-lbproxy-ilog.sock  
srwx----- 1 glite   glite    0 26 giu 14:08 glite-lb-notif.sock
```

==> Test PASSED

Jdl with AllowZippedISB

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-submit --debug -a -c ~/wms_emi-demo12.co  
-----  
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Vo read from proxy certificate extension  
-----  
-----  
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - VirtualOrganisation value : dteam  
-----  
-----  
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Configuration file: /home/capannini/wms_emi-demo12  
-----  
-----  
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Loaded user configuration file:  
/home/capannini/wms_emi-demo12.conf  
-----  
-----
```

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```
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Configuration file: //etc/glite-wms/dteam/glite_wm
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Loaded Vo specific configuration file:
//etc/glite-wms/dteam/glite_wmsui.conf
-----
26 June 2012, 14:15:47 -I- PID: 5554 (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 = true
  ];
  OutputStorage = "/tmp";
  ListenerStorage = "/tmp";
  ErrorStorage = "/var/tmp";
  WmProxyEndpoints = { "https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server" }
]
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Getting Endpoint URL from configuration file
-----
Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WmProxy getVersion service
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - WmProxy Version: 3.3.6
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Sending Proxy Request to https://emi-demo12.cnaf.i
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WmProxy delegationns__getProxyReq serv
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - delegationns__getProxyReq - The proxy has been su
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WmProxy delegationns__putProxyReq serv
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - The proxy has been successfully delegated with the
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WmProxy getTransferProtocols service
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - getTransferProtocols - Available protocols: gswift
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - FileTransferProtocol not specified; using the defa
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - The JDL file is: /home/capannini/certification.noc
-----
```

WMSTask27731 < IGIRelease < TWiki

```
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Retrieving the list of the local ISB files from the
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Total size of the ISB file(s) to be transferred to
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Max single job size of the ISB file(s) to be trans
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Checking the User-FreeQuota on the server
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WMPProxy getFreeQuota service
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - getFreeQuota - User freequota not set on the serv
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Getting the max ISB size from the server https://e
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WMPProxy getMaxInputSandboxSize service
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - getMaxInputSandboxSize - Max ISB size information
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - The max job size (1024000 bytes) doesn't exceed th
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - File archiving and file compression allowed by use
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Registering JDL [ StdOutput = "std.out"; ShallowRe
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Registering the job to the service https://emi-dem
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Calling the WMPProxy jobRegister service
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - The JobId is: https://emi-demo12.cnaf.infn.it:900
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Archiving the ISB files: /tmp/ISBfiles_ghd5_W4ac7r
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - This archive file has been successfully created: /
-----
26 June 2012, 14:15:47 -I- PID: 5554 (Debug) - Compressing the file (.gz): /tmp/ISBfiles_ghd5_W4a
-----
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - ISB ZIPPED file successfully created: /tmp/ISBfile
-----
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - Getting the SandboxDestinationURI from the service
-----
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - Calling the WMPProxy getSandboxDestURI service with
-----
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - getSandboxDestURI - Destination URIs sucessfully
-----
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - DestinationURI: gsiftp://emi-demo12.cnaf.infn.it:2
```

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```
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - FileTransfer (gsiftp): using globus-url-copy to tr  
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - File Transfer (gsiftp)  
  Command: /usr/bin/globus-url-copy  
  Source: file:///tmp/ISBfiles_ghd5_W4ac7r1ov9MxINSSw_0.tar.gz  
  Destination: gsiftp://emi-demo12.cnaf.infn.it:2811/var/SandboxDir/Gs/https_3a_2f_2femi-demo12.cna  
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - File Transfer (gsiftp) Transfer successfully done  
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - Starting the job: https://emi-demo12.cnaf.infn.it  
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - Calling the WMPProxy jobStart service  
-----  
-----  
26 June 2012, 14:15:48 -I- PID: 5554 (Debug) - jobStart - The job has been successfully started  
-----  
-----  
===== glite-wms-job-submit Success =====  
  
The job has been successfully submitted to the WMPProxy  
Your job identifier is:  
  
https://emi-demo12.cnaf.infn.it:9000/GsZGTdUyc4ywimUF1JBWiw  
  
=====
```

*** Log file created ***
Possible Errors and Debug messages have been printed in the following file:
/var/tmp/glite-wms-job-submit_504_5554_20120626_14-15-47.log

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-info --jdl https://emi-demo12.cnaf.infn.  
  AllowZippedISB = true;  
  
[capannini@cert-17 certification.nocream]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9  
  
===== glite-wms-job-status Success =====  
BOOKKEEPING INFORMATION:  
  
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/GsZGTdUyc4ywimUF1JBWiw  
Current Status:      Done (Success)  
Exit code:          0  
Status Reason:      Job terminated successfully  
Destination:        grid-ce.lns.infn.it:2119/jobmanager-lcgpbs-cert  
Submitted:          Tue Jun 26 14:15:43 2012 CEST  
=====
```

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-output https://emi-demo12.cnaf.infn.it:9  
  
Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server  
  
=====
```

JOB GET OUTPUT OUTCOME

```
Output sandbox files for the job:  
https://emi-demo12.cnaf.infn.it:9000/GsZGTdUyc4ywimUF1JBWiw  
have been successfully retrieved and stored in the directory:  
/tmp/jobOutput/capannini_GsZGTdUyc4ywimUF1JBWiw
```

=====

```
[capannini@cert-17 certification.nocream]$ ls -l /tmp/jobOutput/capannini_GsZGTdUyc4ywimUF1JBWiw
totale 4
-rw-r--r-- 1 capannini emitestbed 0 26 giu 14:57 std.err
-rw-r--r-- 1 capannini emitestbed 1026 26 giu 14:58 std.out
[capannini@cert-17 certification.nocream]$ cat /tmp/jobOutput/capannini_GsZGTdUyc4ywimUF1JBWiw/st
total 1152
drwxr-xr-x 2 dteam050 dteam 4096 Jun 26 14:16 .
drwx----- 5 dteam050 dteam 4096 Jun 26 14:16 ..
-rw-r--r-- 1 dteam050 dteam 2083 Jun 26 14:16 .BrokerInfo
-rw-r--r-- 1 dteam050 dteam 2 Jun 26 14:16 fileA
-rw-r--r-- 1 dteam050 dteam 2 Jun 26 14:16 fileB
-rw-r--r-- 1 dteam050 dteam 1024000 Jun 26 14:16 fileC
-rw-r--r-- 1 dteam050 dteam 102400 Jun 26 14:16 fileD
-rw-r--r-- 1 dteam050 dteam 2 Jun 26 14:16 fileE
-rw-r--r-- 1 dteam050 dteam 118 Jun 26 14:16 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2f
-rw-r--r-- 1 dteam050 dteam 0 Jun 26 14:16 std.err
-rw-r--r-- 1 dteam050 dteam 0 Jun 26 14:16 std.out
-rw----- 1 dteam050 dteam 103 Jun 26 14:16 tmp.QpWko27495
-rw----- 1 dteam050 dteam 0 Jun 26 14:16 tmp.RPbTB27493
-rw----- 1 dteam050 dteam 103 Jun 26 14:16 tmp.UeDcI27480
-rw----- 1 dteam050 dteam 2 Jun 26 14:16 tmp.wmahM27479
-rw----- 1 dteam050 dteam 2 Jun 26 14:16 tmp.WStXL27494
```

=====> Test PASSED

Jdl with ExpiryTime

```
[capannini@cert-17 certification.nocream]$ date +%s
1340716614

[capannini@cert-17 certification.nocream]$ 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 = 1340716700;

RetryCount = 1;
ShallowRetryCount = 2;
[capannini@cert-17 certification.nocream]$ glite-wms-job-submit -a -c ~/wms_emi-demo12.conf Expir

Connecting to the service https://emi-demo12.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-demo12.cnaf.infn.it:9000/t3PS5qg5zqD0SeI0cMKqmQ
```

=====

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```
[capannini@cert-17 certification.nocream]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9
```

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

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/t3PS5qg5zqD0SeI0cMKqmQ  
Current Status:      Waiting  
Status Reason:      BrokerHelper: no compatible resources  
Submitted:          Tue Jun 26 15:17:36 2012 CEST  
=====
```

```
[capannini@cert-17 certification.nocream]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9
```

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

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/t3PS5qg5zqD0SeI0cMKqmQ  
Current Status:      Aborted  
Status Reason:      request expired  
Submitted:          Tue Jun 26 15:17:36 2012 CEST  
=====
```

==> Test PASSED

Collection

Bulk submission

```
[capannini@cert-17 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-demo12.cnaf.infn.it  
==> Started: 12:34:29  
==> Ended  : 13:23:54
```

==>

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

==>

```
==> Test log file is WMSService-TS_20120628123429.log
```

```
You have new mail in /var/spool/mail/capannini
```

```
[capannini@cert-17 WMS-service]$
```

```
[capannini@cert-17 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
```


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====> ++++++

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-demo12.cnaf.infn.it

====> Started: 14:02:01

====> Ended : 14:30:49

====>

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

====>

====> Test log file is WMSService-TS_20120628140201.log

[capannini@cert-17 WMS-service]\$ myproxy-init -d

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

Creating proxy

Proxy Verify OK

Your proxy is valid until: Thu Jul 5 14:13:06 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@cert-17 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 Fri Jun 29 01:13:41 2012

A credential has been received for user /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Fabio Capannini

[capannini@cert-17 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 : 10:59:49

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 : 11:58:48

uri : voms2.hellasgrid.gr:15004

[capannini@cert-17 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)

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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-demol2.cnaf.infn.it
====> Started: 14:14:05
====> Ended   : 14:27:05
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120628141405.log
```

- coll.tgz: coll.tgz

All in a jdl

```
[capannini@cert-17 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 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-demol2.cnaf.infn.it
====> Started: 14:38:29
====> Ended   : 16:18:33
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120628143829.log
[capannini@cert-17 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 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-demo12.cnaf.infn.it
====> Started: 16:23:24
====> Ended   : 17:07:42
====>
====>     === test PASSED ===
====>
====> Test log file is WMSService-TS_20120628162324.log
```

- all.tgz: all.tgz

Parametric job

```
[capannini@cert-17 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 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-demo12.cnaf.infn.it
====> Started: 14:34:22
====> Ended   : 15:43:23
====>
====>     === test PASSED ===
====>
====> Test log file is WMSService-TS_20120703143422.log
```

- WMSService-TS_20120703143422.log: WMSService-TS_20120703143422.log

Dag job

```
[capannini@cert-17 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 4: Submit a DAG job

```
====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 10:59:01
```

```

====> Ended   : 12:02:52
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702105901.log

[capannini@cert-17 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 4: Submit a DAG job

====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 10:59:21
====> Ended   : 12:03:00
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702105921.log

[capannini@cert-17 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 4: Submit a DAG job

====>
====> Test: WMS-job-cycle.py
====> WMS: emi-demo12.cnaf.infn.it
====> Started: 10:59:49
====> Ended   : 12:02:53
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702105949.log

```

- dag.tgz: dag.tgz

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 jdl's 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 = "cert-ce-01.cnaf.infn.it"; OutputSandboxPath = "/var/Sandbox
```

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 ce JDL:

```
JDL = [[ CEInfoHostName = "cex.grid.unipg.it"; OutputSandboxPath = "/var/SandboxDir/1Y
```

3)

```

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@cert-17 mpi]$ glite-wms-job-submit -a -c ~/wms_emi-demo12.conf mpi.jdl
```

```
Connecting to the service https://emi-demo12.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 ce JDL:

```
JDL          = [[ CEInfoHostName = "ng-ce.grid.unipg.it"; OutputSandboxPath = "/var/SandboxDir/
```

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 = "gridsrv2-4.dir.garr.it"; OutputSandboxPath = "/var/SandboxD
```

====> Test PASSED

Perusal

```
[capannini@cert-17 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 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-demo12.cnaf.infn.it
====> Started: 16:19:19
====> Ended  : 16:48:50
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702161919.log
[capannini@cert-17 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-demo12.cnaf.infn.it
```

```

====> Started: 16:19:50
====> Ended  : 17:14:07
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702161950.log
    
```

- perusal.tgz: perusal.tgz

Delegation

```

[capannini@cert-17 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-demol2.cnaf.infn.it
====> Started: 16:25:04
====> Ended  : 16:26:19
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702162504.log
    
```

```

[capannini@cert-17 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

```

====>
====> Test: WMS-delegation-test.py
====> WMS: emi-demol2.cnaf.infn.it
====> Started: 16:25:25
====> Ended  : 16:26:37
====>
====>      === test PASSED ===
    
```

```
====>
====> Test log file is WMSService-TS_20120702162525.log
[capannini@cert-17 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-demol2.cnaf.infn.it
====> Started: 16:26:03
====> Ended : 16:26:08
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702162603.log
```

- deleg.tgz: deleg.tgz

Job list-match

without data

```
[capannini@cert-17 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
====>

Enter the user proxy password:

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-demol2.cnaf.infn.it
====> Started: 16:37:45
====> Ended : 16:37:54
====>
====>      === test PASSED ===
====>
```


WMSTask27731 < IGIRelase < TWiki

```
====> Test log file is WMSService-TS_20120702163745.log
[capannini@cert-17 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 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-demo12.cnaf.infn.it
====> Started: 16:38:08
====> Ended   : 16:38:20
====>
====>     === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702163808.log
[capannini@cert-17 WMS-service]$
[capannini@cert-17 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

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-demo12.cnaf.infn.it
====> Started: 16:38:29
====> Ended   : 16:38:36
====>
====>     === test PASSED ===
====>
```

without data

==> Test log file is WMSService-TS_20120702163829.log

- listmatch.tgz: listmatch.tgz

with data

```
[capannini@cert-17 WMS-service]$ export LFC_HOST=prod-lfc-shared-central.cern.ch
[capannini@cert-17 WMS-service]$ lcg-lr --vo dteam lfn:/grid/dteam/fcapanni/PI_1M.txt
srm://gridsrm.pi.infn.it/dteam/fcapanni/PI_1M.txt
srm://srm-public.cern.ch/castor/cern.ch/grid/dteam/fcapanni/PI_1M.txt
The two SEs where the file can be found are gridsrm.pi.infn.it and srm-public.cern.ch.
```

```
[capannini@cert-17 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" };
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@cert-17 WMS-service]$ glite-wms-job-list-match -a -c ~/wms_emi-demo12.conf JDLS/data-req.jdl
```

Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server

=====

COMPUTING ELEMENT IDs LIST

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

- ```
CEId
- 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
- ce207.cern.ch:8443/cream-lsf-grid_2nh_dteam
- ce207.cern.ch:8443/cream-lsf-grid_dteam
- gridce4.pi.infn.it:8443/cream-lsf-certmpi
- 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
```

=====

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

**with data**

## WMSTask27731 < IGIRelease < TWiki

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 ce204
Name of the CE: ce204.cern.ch:8443/cream-lsf-grid_2nh_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
Name of the CE: ce204.cern.ch:8443/cream-lsf-grid_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 ce205
Name of the CE: ce205.cern.ch:8443/cream-lsf-grid_2nh_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
Name of the CE: ce205.cern.ch:8443/cream-lsf-grid_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 ce207
Name of the CE: ce207.cern.ch:8443/cream-lsf-grid_2nh_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
Name of the CE: ce207.cern.ch:8443/cream-lsf-grid_dteam
 srm-atlas.cern.ch
 srm-cms.cern.ch
 srm-lhcb.cern.ch
 srm-public.cern.ch
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce4.pi.infn.it
Name of the CE: gridce4.pi.infn.it:8443/cream-lsf-certmpi
 gridsrm.pi.infn.it
```

```
Name of the CE: gridgate.cp.dias.ie:2119/jobmanager-lcgpbs-test
 gridstore.cp.dias.ie
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce0.pi.infn.it
Name of the CE: gridce0.pi.infn.it:8443/cream-lsf-cert
 gridsrm.pi.infn.it
```

```
Name of the CE: gridce01.ifca.es:8443/cream-sge-sgm
 griddpm01.ifca.es
 storm.ifca.es
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce1.pi.infn.it
Name of the CE: gridce1.pi.infn.it:2119/jobmanager-lcglslf-cert
 gridsrm.pi.infn.it
```

```
Name of the CE: gridce2.pi.infn.it:2119/jobmanager-lcglslf-cert
 gridsrm.pi.infn.it
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce2.pi.infn.it
Name of the CE: gridce2.pi.infn.it:2119/jobmanager-lcglslf-cert
 gridsrm.pi.infn.it
```

```
Name of the CE: gridce3.pi.infn.it:8443/cream-lsf-certmpi
 gridsrm.pi.infn.it
```

```
[capannini@cert-17 WMS-service]$ lcg-infosites --vo dteam closeSE|grep -A 5 gridce3.pi.infn.it
Name of the CE: gridce3.pi.infn.it:8443/cream-lsf-certmpi
 gridsrm.pi.infn.it
```

```
Name of the CE: gridce4.pi.infn.it:8443/cream-lsf-certmpi
 gridsrm.pi.infn.it
```

====> Test PASSED

## gangmatching

```
[capannini@cert-17 certification]$ cat gang.jdl
[
executable="ls.sh";
myproxyserver="";
SRequirements = anyMatch(other.storage.CloseSEs, target.GlueSASStateAvailableSpace > 20);
//SRequirements = true;
CRequirements = other.GlueCEStateStatus == "Production" && other.GlueCEInfoTotalCPUs >= 2;
requirements = CRequirements && SRequirements;
inputsandbox={"ls.sh"};
stdoutoutput="out3.out";
stderroutput="err2.err";
outputsandbox={"out3.out", "err2.err", "ls.sh", "a"};
]
```

```
[capannini@cert-17 certification]$ glite-wms-job-list-match -a -c ~/wms_emi-demo12.conf gang.jdl
```

```
Connecting to the service https://emi-demo12.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
- cccreamceli06.in2p3.fr:8443/cream-sge-long
- cccreamceli06.in2p3.fr:8443/cream-sge-medium
- cccreamceli06.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-cream02.roma1.infn.it:8443/cream-lsf-cmsgcert
- unict-dmi-ce-01.ct.pi2s2.it:2119/jobmanager-lcglslf-cert
- unime-ce-01.me.pi2s2.it:2119/jobmanager-lcglslf-cert
- virgo-ce.roma1.infn.it:2119/jobmanager-lcgpbs-cert
- cmsrm-ce01.roma1.infn.it:2119/jobmanager-lcglslf-cmsgcert
- cmsrm-ce02.roma1.infn.it:2119/jobmanager-lcglslf-cmsgcert
- cmsrm-cream01.roma1.infn.it:8443/cream-lsf-cmsgcert
- cccreamceli10.in2p3.fr:8443/cream-sge-long
- cccreamceli10.in2p3.fr:8443/cream-sge-medium
- cccreamceli10.in2p3.fr:8443/cream-sge-short
- inaf-ce-01.ct.pi2s2.it:8443/cream-lsf-cert
```

```
=====
```

```
[capannini@cert-17 certification]$ lcg-infosites closeSE|grep -A 5 cccreamceli05
Name of the CE: cccreamceli05.in2p3.fr:8443/cream-sge-long
    ccsrm.in2p3.fr
```

```
Name of the CE: cccreamceli05.in2p3.fr:8443/cream-sge-medium
    ccsrm.in2p3.fr
```

gangmatching

Name of the CE: cccreamceli05.in2p3.fr:8443/cream-sge-short
ccsrn.in2p3.fr

Name of the CE: cccreamceli06.in2p3.fr:8443/cream-sge-long
ccsrn.in2p3.fr

```
[capannini@cert-17 certification]$
[capannini@cert-17 certification]$ lcg-infosites se |egrep 'Avail|ccsrn.in2p3.fr'
Avail Space(kB)  Used Space(kB)  Type      SE
                12730125753      2302259783  SRM      ccsrn.in2p3.fr
```

```
[capannini@cert-17 certification]$ lcg-infosites closeSE|grep -A 5 cmsrm-ce01
Name of the CE: cmsrm-ce01.romal.infn.it:2119/jobmanager-lcglsf-cmsgcert
                cmsrm-se01.romal.infn.it
```

Name of the CE: cmsrm-ce02.romal.infn.it:2119/jobmanager-lcglsf-cmsgcert
cmsrm-se01.romal.infn.it

```
[capannini@cert-17 certification]$
[capannini@cert-17 certification]$ lcg-infosites se |egrep 'Avail|cmsrm-se01.romal.infn.it'
Avail Space(kB)  Used Space(kB)  Type      SE
                1000          999999      SRM      cmsrm-se01.romal.infn.it
```

```
[capannini@cert-17 certification]$ lcg-infosites se |egrep 'Avail|cmsrm-se01.romal.infn.it'
Avail Space(kB)  Used Space(kB)  Type      SE
                1000          999999      SRM      cmsrm-se01.romal.infn.it
```

```
[capannini@cert-17 certification]$
[capannini@cert-17 certification]$ lcg-infosites closeSE|grep -A 5 unict-dmi-ce-01
Name of the CE: unict-dmi-ce-01.ct.pi2s2.it:2119/jobmanager-lcglsf-cert
                unict-dmi-se-01.ct.pi2s2.it
```

Name of the CE: unime-ce-01.me.pi2s2.it:2119/jobmanager-lcglsf-cert
unime-se-01.me.pi2s2.it

```
[capannini@cert-17 certification]$ lcg-infosites se |egrep 'Avail|unict-dmi-se-01.ct.pi2s2.it'
Avail Space(kB)  Used Space(kB)  Type      SE
                12512874596      6164874393  SRM      unict-dmi-se-01.ct.pi2s2.it
```

====> Test PASSED

Prologue epilogue jobs

```
[capannini@cert-17 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
====> ++++++
```

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-demo12.cnaf.infn.it
====> Started: 17:43:13
====> Ended  : 18:01:31
====>
```

```
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702174313.log
[capannini@cert-17 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
====> + Description: WMS test prologue and epilogue attributes

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-demo12.cnaf.infn.it
====> Started: 17:44:46
====> Ended   : 18:18:40
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120702174446.log
```

- prolo.tgz: prolo.tgz

Shallow and deep resubmission

```
[capannini@cert-17 WMS-service]$ python WMS-job-resubmit.py -c wms-command.conf -V dteam -d 3 -1
====> + TestSuite of the WMS Service
====> + Description: WMS Job Resubmission Testing
====> + 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-demo12.cnaf.infn.it
====> Started: 10:12:27
====> Ended   : 10:21:38
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120703101227.log
[capannini@cert-17 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
====> + 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-demo12.cnaf.infn.it
====> Started: 10:12:47
====> Ended  : 10:56:42
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120703101247.log
```

- resub.tgz: resub.tgz

Cancel

```
[capannini@cert-17 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

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-demo12.cnaf.infn.it
====> Started: 14:46:25
====> Ended  : 15:34:29
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120703144625.log
```

```
[capannini@cert-17 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

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-demol2.cnaf.infn.it
====> Started: 14:33:22
====> Ended   : 14:48:32
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120703143322.log
```

- cancel.tgz: cancel.tgz

Limiter mechanism

```
[capannini@cert-17 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: WMS-limiter-mechanism.py
====> WMS: emi-demol2.cnaf.infn.it
====> Started: 10:26:56
====> Ended   : 10:27:09
====>
====>      === test PASSED ===
====>
====> Test log file is WMSService-TS_20120904102656.log
```

- WMSService-TS_20120904102656.log: WMSService-TS_20120904102656.log

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@cert-17 ~]$ glite-wms-job-submit -a -c wms_emi-demo12.conf ls.jdl
```

Connecting to the service https://emi-demo12.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-demo12.cnaf.infn.it:9000/QSigtrL4194pLBHNMqhP4A
```

```
=====
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/QSigtrL4194pLBHNMqhP4A
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : <https://emi-demo12.cnaf.infn.it:9000/QSigtrL4194pLBHNMqhP4A>

Current Status: Scheduled

Status Reason: unavailable

Destination: cream-23.pd.infn.it:8443/cream-lsf-creamcert2

Submitted: Tue Sep 4 10:59:34 2012 CEST

```
=====
```

```
[root@emi-demo12 ~]# su - glite
```

```
-bash-3.2$
```

```
-bash-3.2$
```

```
-bash-3.2$
```

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/QS/ -s
```

```
04 Sep, 11:00:50 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/)
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/QSigtrL4194pLBHNMqhP4A
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : <https://emi-demo12.cnaf.infn.it:9000/QSigtrL4194pLBHNMqhP4A>

Current Status: Cleared

Status Reason: timed out, resource purge forced

Destination: cream-23.pd.infn.it:8443/cream-lsf-creamcert2

Submitted: Tue Sep 4 10:59:34 2012 CEST

```
=====
```

```
==> Test PASSED
```

- Purge a done job:

```
[capannini@cert-17 ~]$ glite-wms-job-submit -a -c wms_emi-demo12.conf ls.jdl
```

Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server

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

The job has been successfully submitted to the WMPProxy

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Your job identifier is:

https://emi-demo12.cnaf.infn.it:9000/WM0yTCgT1sL3ps_onr385Q

=====

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/WM0yTCgT1sL3ps_onr385Q
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/WM0yTCgT1sL3ps_onr385Q

Current Status: Done (Success)

Logged Reason(s):

- job completed
- Job Terminated Successfully

Exit code: 0

Status Reason: Job Terminated Successfully

Destination: cream-23.pd.infn.it:8443/cream-lsf-creamcert1

Submitted: Tue Sep 4 11:07:10 2012 CEST

=====

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/WM/ -s
```

```
04 Sep, 11:09:29 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/WM0yTCgT1sL3ps_onr385Q
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/WM0yTCgT1sL3ps_onr385Q

Current Status: Cleared

Status Reason: timed out, resource purge forced

Destination: cream-23.pd.infn.it:8443/cream-lsf-creamcert1

Submitted: Tue Sep 4 11:07:10 2012 CEST

=====

```
==> Test PASSED
```

- Purge only jobs older than 12 hours:

```
-bash-3.2$ find /var/SandboxDir/ -maxdepth 2 -type d -cmin +720
```

```
/var/SandboxDir/jb/https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fjbsoQ_5fF1VpagrswsS8JhHg
```

```
/var/SandboxDir/vV/https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fvVZ_5f48PHzcmXys5kowuVuQ
```

Try to purge:

```
-bash-3.2$ date
```

```
Tue Sep 4 11:17:35 CEST 2012
```

```
-bash-3.2$ ls -l /var/SandboxDir/jb
```

```
total 4
```

```
drwxrwx--- 5 dteam029 glite 4096 Sep 3 16:18 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fjbsoQ_5fF1VpagrswsS8JhHg
```

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/jb/ -t 43200
```

```
04 Sep, 11:14:36 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
-bash-3.2$ ls -l /var/SandboxDir/jb
```

```
total 0
```

```
-bash-3.2$ ls -l /var/SandboxDir/vV
```

```
total 4
```

```
drwxrwx--- 5 dteam029 glite 4096 Sep 3 15:26 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fvVZ_5f48PHzcmXys5kowuVuQ
```

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/vV/ -t 43200
```

```
04 Sep, 11:15:00 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
-bash-3.2$ ls -l /var/SandboxDir/vV
```

```
total 0
```

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Find some directories that should not be purged:

```
-bash-3.2$ find /var/SandboxDir/ -maxdepth 2 -type d -cmin -240
/var/SandboxDir/Xj/https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fXjgbCyZA6eTGY5f34UjiQA
/var/SandboxDir/q4/https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fq4v9zd1tYlknSt4t-OPrsg
```

Try to purge:

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/Xj -t 43200
-bash-3.2$ ls -l /var/SandboxDir/Xj
total 4
drwxrwx--- 5 dteam029 glite 4096 Sep  4 11:20 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fXjgb
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/q4 -t 43200
-bash-3.2$
-bash-3.2$ ls -l /var/SandboxDir/q4
total 4
drwxrwx--- 5 dteam029 glite 4096 Sep  4 11:21 https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fq4v9
```

==> Test PASSED

- Purge a job whose proxy is already expired

```
-bash-3.2$ openssl x509 -in /var/SandboxDir/Tw/https_3a_2f_2femi-demo12.cnaf.infn.it_3a9000_2fTwg
notBefore=Aug 31 12:49:16 2012 GMT
notAfter=Sep  1 10:21:16 2012 GMT
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/TwgaZHG4ja2Y7MeX
```

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

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/TwgaZHG4ja2Y7MeXRpZ2zA
Current Status:      Done (Success)
Logged Reason(s):
  - reason=127
  - Job terminated successfully
Exit code:           0
Status Reason:       Job terminated successfully
Destination:         cream-26.pd.infn.it:2119/jobmanager-lcgpbs-creamtest1
Submitted:           Fri Aug 31 14:54:16 2012 CEST
=====
```

```
-bash-3.2$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/Tw
04 Sep, 11:56:41 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/TwgaZHG4ja2Y7MeX
```

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

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/TwgaZHG4ja2Y7MeXRpZ2zA
Current Status:      Cleared
Status Reason:       timed out, resource purge forced
Destination:         cream-26.pd.infn.it:2119/jobmanager-lcgpbs-creamtest1
Submitted:           Fri Aug 31 14:54:16 2012 CEST
=====
```

==> Test PASSED

- Purge a dag job:

```
[capannini@cert-17 dag]$ glite-wms-job-submit -a -c ~/wms_emi-demo12.conf dag.jdl
```

```
Connecting to the service https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

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

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

https://emi-demo12.cnaf.infn.it:9000/gcPAsY6VwXNYNiOP180HjQ

=====
[capannini@cert-17 dag]\$
[capannini@cert-17 dag]\$
[capannini@cert-17 dag]\$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/gcPAsY6VwXNYNi

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/gcPAsY6VwXNYNiOP180HjQ
Current Status: Running
Status Reason: unavailable
Destination: dagman
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
- Nodes information for:
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/Wl_LH1XeQ30cNKv1h54ZXQ
Current Status: Submitted
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/g21NNTFn9kKtWS6n6t5FDA
Current Status: Running
Status Reason: Job successfully submitted to Globus
Destination: argoce01.na.infn.it:2119/jobmanager-lcgpbs-cert
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/gOM58SscVwT-QkSkZUk16g
Current Status: Submitted
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/ktipRb9idvrLxLcTXYri-w
Current Status: Submitted
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/sjssA8utmafml4mBPg71tg
Current Status: Submitted
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
-bash-3.2\$ /usr/sbin/glite-wms-purgeStorage.sh -p /var/SandboxDir/gc -s
04 Sep, 12:11:55 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/
04 Sep, 12:11:55 -I: [Info] operator() (/home/condor/execute/dir_26089/userdir/emi.wms.wms-purger/

[capannini@cert-17 dag]\$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/gcPAsY6VwXNYNi

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/gcPAsY6VwXNYNiOP180HjQ
Current Status: Cleared

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Status Reason: timed out, resource purge forced
Destination: dagman
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
- Nodes information for:

Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/Wl_LH1XeQ30cNKvlh54ZXQ
Current Status: Cleared
Status Reason: timed out, resource purge forced
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/g21NNTFn9kKtWS6n6t5FDA
Current Status: Cleared
Status Reason: timed out, resource purge forced
Destination: argoce01.na.infn.it:2119/jobmanager-lcgpbs-cert
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/gOM58SscVwT-QkSkZUk16g
Current Status: Cleared
Status Reason: timed out, resource purge forced
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/ktipRb9idvrLxLcTXYri-w
Current Status: Cleared
Status Reason: timed out, resource purge forced
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/sjssA8utmafml4mBPg71tg
Current Status: Cleared
Status Reason: timed out, resource purge forced
Submitted: Tue Sep 4 12:02:54 2012 CEST

=====
==> Test PASSED

Regression tests

Bugs attached to the task

bug #92657: some sensible information should be logged on syslog Fix certified

Submitting a job to emi-demo12:

```
[root@emi-demo12 ~]# tail -f /var/log/messages|egrep "wmproxy|manager"
Jun 29 11:02:44 emi-demo12 glite_wms_wmproxy_server[1901]: submission from cert-17.cnaf.infn.it,
Jun 29 11:02:46 emi-demo12 glite-wms-workload_manager: jobid https://emi-demo12.cnaf.infn.it:9000
```

bug #92742: submission to ARC broken again Fix certified

See ARC CE section.

bug #92922: EMI-1 WMS does not propagate user job exit code Fix certified

```
[capannini@cert-17 ~]$ cat touch.jdl
[
Executable = "/bin/touch" ;
Arguments = "/foo" ;
Retrycount = 2;
```

```
usertags = [ exe = "touch" ];
VirtualOrganisation="dteam";
requirements = ! RegExp("cream.*", other.GlueCEUniqueID);
]
```

```
[capannini@cert-17 ~]$ glite-wms-job-status https://emi-demo12.cnaf.infn.it:9000/-fsmLpeNqrNVwSkX
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://emi-demo12.cnaf.infn.it:9000/-fsmLpeNqrNVwSkXj1aBBw
Current Status:      Done (Exit Code !=0)
Exit code:          1
Status Reason:      Warning: job exit code != 0
Destination:        virgo-ce.roma1.infn.it:2119/jobmanager-lcgpbs-cert
Submitted:          Fri Jun 29 11:09:07 2012 CEST
=====
```

bug #92924: Condor gridmanager keeps crashing on wrong assertions about some ldap attributes ordering Fix certified

```
[cristofori@ui ~]$ glite-wms-job-submit -e
https://emi-demo12.cnaf.infn.it:7443/glite_wms_wmproxy_server -a -r
korundi.grid.helsinki.fi:2811/nordugrid-GE-mgrid firsttest.jdl
```

```
Connecting to the service
https://emi-demo12.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-demo12.cnaf.infn.it:9000/CeHAR7n8Ubmh5dOCaKXYCg
```

```
[root@emi-demo12 ~]# grep STARTING
/var/local/condor/log/GridmanagerLog.glite |tail
06/28 19:43:07 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/28 21:43:43 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/28 23:44:14 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 01:44:36 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 03:45:05 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 05:45:36 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 07:45:58 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 09:46:26 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 11:46:59 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
06/29 13:47:30 ** condor_gridmanager (CONDOR_GRIDMANAGER) STARTING UP
```

```
[root@emi-demo12 ~]# locate grid_monitor.sh|xargs ls -lu
-rwxr-xr-x 1 root root 42728 Jun  6 17:44
/opt/condor-7.4.2/libexec/glite/grid_monitor.sh
-rwxr-xr-x 1 root root 41918 Jun 29 11:09
/opt/condor-7.4.2/sbin/grid_monitor.sh
lrwxrwxrwx 1 root root 29 Jun 29 15:26 /usr/sbin/grid_monitor.sh ->
/opt/lcg/sbin/grid_monitor.sh
```

```
[root@emi-demo12 ~]# date
ven giu 29 15:31:09 CEST 2012
```

bug #93673: In some circumstances ICE's threads can block Fix not certified

-- CristinaAiftimiei - 2012-06-19

This topic: IGIRelease > WMSTask27731

Topic revision: r27 - 2012-09-04 - CristinaAiftimiei



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