

WMS 3.5 units tests

- WMS_UT_001: the LDAP helper functions are tested.

Test ldap_search in emi.wms.wms-core/test

- WMS_UT_002: the ISM purchaser modules for GLUE1.3 and GLUE2.0 are tested in a standalone module.

- WMS_UT_003: generation of the job wrapper template.

Test jobwrapperTest in emi.wms.wms-core/examples

```
[mcecchi@devel09 examples]$ sudo WMS_JOBWRAPPER_TEMPLATE=/home/mcecchi/wms35/org.glite.wms/org.gl
```

```
[mcecchi@devel09 examples]$ cat outclassad
```

```
[
  outputsandboxpath = "gsiftp://grid012f.cnaf.infn.it/tmp/http/output";
  stdoutoutput = "output.txt";
  globusresourcecontactstring = "lxde01.pd.infn.it:2119/jobmanager-pbs";
  queuename = "jobmanager-pbs";
  executable = "job.sh";
  type = "job";
  lb_sequence_code = "UI=1:NS=1:WM=3:BH=3:JSS=2:LM=1:LRMS=1:APP=0";
  arguments = "-i\\\"\\\"\\\"FabrizioPacini\\\"*.txt";
  environment =
    {
      "VAL1=val1",
      "VAL2=val2",
      "VAL3=val3",
      "BYPASS_SHADOW_PORT=12",
      "BYPASS_SHADOW_HOST=dune.cnaf.infn.it"
    };
  jobtype = "INTERACTIVE";
  ce_id = "emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q";
  nodenumber = 2;
  outputsandbox =
    {
      "pluto.txt",
      "pippo.txt",
      "genoveffa.txt"
    };
  inputsandbox =
    {
      "job.sh",
      "inputfile1"
    };
  edg_jobId = "https://lxde04.pd.infn.it:9000/k4vXdFL_OKHugi9U9U8TvQ";
  certificatesubject = "/C=IT/O=INFN/OU=host/L=CNAF/CN=grid012g.cnaf.infn.it/Email=sitemana";
  stderr = "stderr.txt";
  inputsandboxpath = "gsiftp://grid012f.cnaf.infn.it/tmp/http/input";
  ReallyRunningToken = "gsiftp://grid012f.cnaf.infn.it/tmp/http/token.txt_0";
  lrms_type = "LSF";
  x509userproxy = "/tmp/x509_u464";
  stdininput = "input.txt";
  requirements = other.GlueCEStateStatus == "Production" && other.freecpus > 5
]

```

```
[mcecchi@devel09 examples]$ cat tmp
outputsandboxpath = gsiftp://grid012f.cnaf.infn.it/tmp/http/output
```

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```
+stdoutoutput = "output.txt"
+globusresourcecontactstring = "lxde01.pd.infn.it:2119/jobmanager-pbs"
+queueusername = "jobmanager-pbs"
executable = job.sh
+type = "job"
+lb_sequence_code = "UI=1:NS=1:WM=3:BH=3:JSS=2:LM=1:LRMS=1:APP=0"
arguments = -i "\"FabrizioPacini\"*.txt"
+jobtype = "INTERACTIVE"
+ce_id = "emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q"
+nodenumber = 2
+edg_jobId = "https://lxde04.pd.infn.it:9000/k4vXdFL_OKHugi9U9U8TvQ"
+certificatesubject = "/C=IT/O=INFN/OU=host/L=CNAF/CN=grid012g.cnaf.infn.it/Email=sitemanager@cna
+stderr = "stderr.txt"
inputsandboxpath = gsiftp://grid012f.cnaf.infn.it/tmp/http/input
+ReallyRunningToken = "gsiftp://grid012f.cnaf.infn.it/tmp/http/token.txt_0"
+lrms_type = "LSF"
x509userproxy = /tmp/x509_u464
+stdininput = "input.txt"
Queue 1
```

- WMS_UT_004: check how URLs are parsed.

Test urlTest in emi.wms.wms-helper/examples

```
[mcechi@devel08 emi.wms.wms-helper]$ ./build/examples/urlTest
Testing class URL...
```

```
Let's start with an easy one: http://www.google.com
protocol = http
host =      www.google.com
port =
path =
http://www.google.com
Testing an empty URL...
Empty URL caused an exception, uhm ...right
```

```
Some examples...
gsiftp://cert-rb-03.cnaf.infn.it/var/glite/SandboxDir/xF/https3a2f2fcert-rb-03.cnaf.infn.it3a9000
protocol = gsiftp
host =      cert-rb-03.cnaf.infn.it
port =
path =      /var/glite/SandboxDir/xF/https3a2f2fcert-rb-03.cnaf.infn.it3a90002fxFyHs5fvSqxqzDQw0Bn
http://www.ics.uci.edu = not valid URL
http://www.ics.uci.edu = not valid URL
http://www.ics.uci.edu:8080/pub/ietf/uri/ = valid URL
http://www.ics.uci.edu:8080/pub/ietf/u%20ri/ = valid URL
http://www.ics.uci.edu:8080/pub/ietf/u%2ri/ = not valid URL
http://www.ics.uci.edu:8080/pub/ietf/uri = valid URL
http://www.ics.uci.edu:8080/pub/i:etf/uri = not valid URL
```

```
Testing copy constructor...
url1 = http://www.cnaf.infn.it/giaco
url2 = http://www.cnaf.infn.it/giaco
```

```
url1 protocol = http
url2 protocol = http
```

```
url1 host = www.cnaf.infn.it
url2 host = www.cnaf.infn.it
```

```
url1 port =
url2 port =
```

```
url1 path = /giaco
url2 path = /giaco
```

```
Testing assignment operator...
url1 = http://www.cnaf.infn.it/giaco
url2 = http://www.cnaf.infn.it/giaco

url1 protocol = http
url2 protocol = http

url1 host = www.cnaf.infn.it
url2 host = www.cnaf.infn.it

url1 port =
url2 port =

url1 path = /giaco
url2 path = /giaco
```

- WMS_UT_005: check condor submit file generation.

Test jobadapterTest in emi.wms.wms-helper/examples

```
[root@devel08 emi.wms.wms-helper]# ./build/examples/jobadapterTest examples/inputclassad.new exam
[root@devel08 emi.wms.wms-helper]# cat aaa
+CEInfoHostName = ""
Universe = grid
error = /var/jobcontrol/condorio/k4/https_3a_2f_2flxde04.pd.infn.it_3a9000_2fk4vXdFL_5fOKHugi9U9U
Executable = /var/jobcontrol/submit/k4/JobWrapper.https_3a_2f_2flxde04.pd.infn.it_3a9000_2fk4vXdF
+Type = "Job"
grid_type = globus
Log = /var/logmonitor/CondorG.log/CondorG.log
Transfer_Executable = True
Output = /var/jobcontrol/condorio/k4/https_3a_2f_2flxde04.pd.infn.it_3a9000_2fk4vXdFL_5fOKHugi9U9
+ce_id = "kkjddjkkjjk"
Notification = never
+edg_jobid = "https://lxde04.pd.infn.it:9000/k4vXdFL_OKHugi9U9U8TvQ"
GlobusScheduler = lxde01.pd.infn.it:2119/jobmanager-pbs
GlobusRSL = (queue=jobmanager-pbs) (jobtype=single) (environment=(EDG_WL_JOBID 'https://lxde04.pd.i
stream_error = False
grid_resource = gt2 lxde01.pd.infn.it:2119/jobmanager-pbs
+UserSubjectName = "/C=IT/O=INFN/OU=host/L=CNAF/CN=grid012g.cnaf.infn.it/Email=sitemanager@cnaf.i
X509UserProxy = /tmp/x509_u464
stream_output = False
Copy_to_Spool = False
Queue 1
```

-- MarcoCecchi - 2013-02-14

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