

Table of Contents

WMS 3.5 pre-certification report.....	1
Basic functionality testing.....	1
Job submission.....	1
Single job with Input Sandbox.....	1
Single job with Input Sandbox with automatic delegation.....	2
DAG job.....	4
Parametric.....	6
Collection.....	7
Job list-match.....	11
ISM purchasers.....	11
Glue 2.0 purchasers and match-making:.....	12
Match-making.....	12
Purchasing.....	12
Job cancel.....	12
Certificate delegation.....	13
Check publication in EMIR.....	13
Argus based authZ.....	15
Support for RFC proxies.....	15
LIST OF BUGS.....	16
BUG VERIFICATION.....	16
BUG: WMS: stops accepting submissions when no swap is available (bug #96136). Certified by MC 31/12/2013.....	16
BUG: Set asyncjobstart=false to avoid lost jobs (bug #97319). Certified by MC 30/12/2013.....	16
BUG: classad plugin functions are broken (bug #100176). Certified by MC 30/12/2013.....	17
BUG: ICE removes its pid file at the start() instead of stop() (bug #98724). Certified by AD (31/01/2013, 11:30).....	17
BUG: various issues with EMI-1/2 proxy cleanup (bug #98282). Certified by MC 31/12/2013.....	17
BUG: wmpoxy init script 'status' does not return error when service is not running (bug #99017). Certified by MC 31/12/2013.....	19
BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval (bug #98524).....	19
BUG: WMS: fix various bugs on Argus authZ (bug #99092). Certified by MC 31/12/2013.....	20
BUG: WMS: Job perusal is broken in EMI-2 WMS (bug #98279). Certified by MC 02/02/2013.....	22
BUG: WM memory footprint bloats, especially on 64-bit architectures (bug #97288). HOPEFULLY FIXED.....	23
BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval (bug #98524).....	23

WMS 3.5 pre-certification report

Basic functionality testing

Testing instance at cream-08.pd.infn.it (SL6 x86_64). Deployed on Apr. 2013

```
[root@cream-08 ~]# cat /etc/issue
Scientific Linux release 6.2 (Carbon)
Kernel \r on an \m
```

```
[root@cream-08 ~]# rpm -qa|grep wms
glite-wms-server-3.6.0-0.sl6.x86_64
glite-wms-utils-exception-3.4.1-1.sl6.x86_64
glite-wms-utils-classad-3.4.1-1.sl6.x86_64
```

```
[root@cream-08 ~]# ps -ef|grep wms
glite  19828      1  0 15:20 ?        00:00:00 /usr/bin/glite-wms-log_monitor -c glite_wms.conf
root   21084        1  0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21115 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21116 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21117 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21118 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21119 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21120 21084    0 15:24 ?        00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite  21121        1  90 15:24 ?        00:00:29 /usr/bin/glite-wms-workload_manager --conf glite_
glite  21169        1  0 15:24 ?        00:00:00 /usr/bin/glite-wms-job_controller -c glite_wms.co
glite  21207        1  0 15:24 ?        00:00:00 /usr/bin/glite-wms-ice-safe --conf glite_wms.conf
glite  21212 21207      0 15:24 ?        00:00:00 sh -c /usr/bin/glite-wms-ice --conf glite_wms.conf
glite  21213 21212      0 15:24 ?        00:00:00 /usr/bin/glite-wms-ice --conf glite_wms.conf /var
```

Job submission

Single job with Input Sandbox

CREAM CE

```
dorigoa@cream-14 15:46:16 ~/JDL>glite-wms-job-delegate-proxy -e https://cream-08.pd.infn.it:7443/
```

```
Connecting to the service https://cream-08.pd.infn.it:7443/glite_wms_wmproxy_server
```

```
===== glite-wms-job-delegate-proxy Success =====
```

```
Your proxy has been successfully delegated to the WMPProxy(s):
https://cream-08.pd.infn.it:7443/glite_wms_wmproxy_server
with the delegation identifier: pippo
```

```
=====
```

```
dorigoa@cream-14 15:46:21 ~/JDL>cat wms_ISB_cream.jdl
```

```
[
Executable = "/bin/sleep" ;
Arguments = "15";
InputSandbox = {" /etc/group };
InputSandbox = {" /home/dorigoa/my_sandbox_01.gz", "/home/dorigoa/my_sandbox_02.gz", "/home/dorigoa/my_sandbox_03.gz" };
requirements = RegExp("cream.*", other.GlueCEUniqueID);
RetryCount = 0;
ShallowRetryCount = 1;
MyProxyServer="";
]
```

WMS36PreCertificationReport < WMS < TWiki

```
dorigoa@cream-14 15:46:53 ~/JDL>glite-wms-job-submit -d pippo -e https://cream-08.pd.infn.it:7443
```

```
Connecting to the service https://cream-08.pd.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://devel09.cnaf.infn.it:9000/HgBwCcHn4QX-Ead14G3uVg
```

```
=====
```

```
dorigoa@cream-14 15:48:59 ~/JDL>glite-wms-job-status https://devel09.cnaf.infn.it:9000/HgBwCcHn4Q
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/HgBwCcHn4QX-Ead14G3uVg
```

```
Current Status: Done (Success)
```

```
Logged Reason(s):
```

- job completed
- Job Terminated Successfully

```
Exit code: 0
```

```
Status Reason: Job Terminated Successfully
```

```
Destination: cream-02.cnaf.infn.it:8443/cream-pbs-wnodes-s16
```

```
Submitted: Tue Apr 16 15:47:29 2013 CEST
```

```
=====
```

LCG CE

```
***** FROM HERE TODO TODO TODO
```

ARC CE

Tested with Nordugrid people on korundi

```
glite-wms-job-status https://devel09.cnaf.infn.it:9000/1C0TMnsCIC4SHG_K9wbuvg
```

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/1C0TMnsCIC4SHG_K9wbuvg Current Status:
```

```
Cleared Status Reason: user retrieved output sandbox Destination:
```

```
korundi.grid.helsinki.fi:2811/nordugrid-GE-mgrid Submitted: Wed Feb 6 15:48:26 2013 CET
```

```
=====
```

Single job with Input Sandbox with automatic delegation

CREAM CE

```
dorigoa@cream-14 15:33:37 ~/JDL>cat wms_OSB.jdl
```

```
[  
Executable = "/bin/echo";  
Arguments = "ciao";  
InputSandbox = {};  
stdoutoutput="stdout";
```

Single job with Input Sandbox

WMS36PreCertificationReport < WMS < TWiki

```
stderr="stderr";
OutputSandbox = {"stdout","stderr"};
requirements = RegExp("cream.*", other.GlueCEUniqueID);
myproxyserver="cream-44.pd.infn.it";
RetryCount = 0;
ShallowRetryCount = 1;
]
```

```
dorigoa@cream-14 15:33:45 ~/JDL>glite-wms-job-submit -a -e https://cream-08.pd.infn.it:7443/glite
```

```
Connecting to the service https://cream-08.pd.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://devel09.cnaf.infn.it:9000/xZqW-em3ZOHBTVtfv5_M_Q
```

```
=====
```

```
[...]
```

```
dorigoa@cream-14 15:33:59 ~/JDL>glite-wms-job-status https://devel09.cnaf.infn.it:9000/xZqW-em3ZO
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/xZqW-em3ZOHBTVtfv5_M_Q
```

```
Current Status:      Done(Success)
```

```
Logged Reason(s):
```

- job completed
- Job Terminated Successfully

```
Exit code:           0
```

```
Status Reason:      Job Terminated Successfully
```

```
Destination:        recasna-ce01.unina.it:8443/cream-pbs-recas-cert
```

```
Submitted:          Tue Apr 16 15:33:59 2013 CEST
```

```
=====
```

```
dorigoa@cream-14 15:35:17 ~/JDL>glite-wms-job-output https://devel09.cnaf.infn.it:9000/xZqW-em3ZO
```

```
Connecting to the service https://cream-08.pd.infn.it:7443/glite_wms_wmproxy_server
```

```
=====
```

```
JOB GET OUTPUT OUTCOME
```

```
Output sandbox files for the job:
```

```
https://devel09.cnaf.infn.it:9000/xZqW-em3ZOHBTVtfv5_M_Q
```

```
have been successfully retrieved and stored in the directory:
```

```
/tmp/jobOutput/dorigoa_xZqW-em3ZOHBTVtfv5_M_Q
```

```
=====
```

```
dorigoa@cream-14 15:35:27 ~/JDL>ll /tmp/jobOutput/dorigoa_xZqW-em3ZOHBTVtfv5_M_Q
```

```
total 4
```

```
-rw-rw-r-- 1 dorigoa dorigoa 0 Apr 16 15:35 stderr
```

```
-rw-rw-r-- 1 dorigoa dorigoa 5 Apr 16 15:35 stdout
```

```
dorigoa@cream-14 15:35:49 ~/JDL>cat /tmp/jobOutput/dorigoa_xZqW-em3ZOHBTVtfv5_M_Q/stdout
```

```
ciao
```

DAG job

```
[mcecchi@devel15 ~]$ cat dag2.jdl
```

```
[
  type = "dag";
  nodes = [
    nodeA = [file = "ls.jdl"];
    nodeB = [file = "ls.jdl"];
  Dependencies = {
    {nodeA, nodeB}
  }
];
]
```

Submitted a DAG with one dependency. First job starts immediately.

```
[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokG
```

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokGg
Current Status:      Running
Destination:        dagman
Submitted:          Tue Feb  5 13:10:48 2013 CET
=====
```

```
- Nodes information for:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/g9nVweK-mk2pTjDQjDxAPw
Current Status:      Submitted
Submitted:          Tue Feb  5 13:10:48 2013 CET
=====
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/z6VCc1NOYD6s3ujNiy3tog
Current Status:      Scheduled
Status Reason:      unavailable
Destination:        razi.biruni.upm.my:8443/cream-pbs-dteam
Submitted:          Tue Feb  5 13:10:48 2013 CET
=====
```

First job ends.

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokGg
Current Status:      Running
Destination:        dagman
Submitted:          Tue Feb  5 13:10:48 2013 CET
=====
```

```
- Nodes information for:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/g9nVweK-mk2pTjDQjDxAPw
Current Status:      Submitted
Submitted:          Tue Feb  5 13:10:48 2013 CET
=====
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/z6VCc1NOYD6s3ujNiy3tog
Current Status:      Done (Success)
Logged Reason(s):
  - job completed
  - Job Terminated Successfully
Exit code:          0
Status Reason:      Job Terminated Successfully
```

DAG job

WMS36PreCertificationReport < WMS < TWiki

Destination: razi.biruni.upm.my:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
Wait a while (MatchRetryPeriod), before seeing the second job start. Notice that the first one was scheduled to a CREAM CE, while the second to a LCG-CE, which was a limitation of the previous design.

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokGg
Current Status: Running
Destination: dagman
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
- Nodes information for:

Status info for the Job : <https://devel09.cnaf.infn.it:9000/g9nVweK-mk2pTjDQjDxAPw>
Current Status: Scheduled
Status Reason: unavailable
Destination: lcgce10.gridpp.rl.ac.uk:8443/cream-pbs-gridS
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
Status info for the Job : <https://devel09.cnaf.infn.it:9000/z6VCc1NOYD6s3ujNiy3tog>
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: razi.biruni.upm.my:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
[mcecchi@devel15 ~]\$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokGg

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://devel09.cnaf.infn.it:9000/a3SM8ZKG0L_IFDYtwhokGg
Current Status: Done(Success)
Exit code: 0
Status Reason: DAG successfully completed
Destination: dagman
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
- Nodes information for:

Status info for the Job : <https://devel09.cnaf.infn.it:9000/g9nVweK-mk2pTjDQjDxAPw>
Current Status: Done(Success)
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: lcgce10.gridpp.rl.ac.uk:8443/cream-pbs-gridS
Submitted: Tue Feb 5 13:10:48 2013 CET

=====
Status info for the Job : <https://devel09.cnaf.infn.it:9000/z6VCc1NOYD6s3ujNiy3tog>
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: razi.biruni.upm.my:8443/cream-pbs-dteam

WMS36PreCertificationReport < WMS < TWiki

Submitted: Tue Feb 5 13:10:48 2013 CET

Parametric

Beware of bug #79027. Work with jdl-api-cpp-3.4.1-3

```
$ cat parametric.jdl
[
ParameterStart = 0;
ParameterStep = 1;
Parameters = 3;
JobType = "parametric";
Executable = "/bin/echo";
Arguments = "_PARAM_";
Environment = {"MYPATH_PARAM_=$PATH:/bin:/usr/bin:$HOME"};
StdOutput = "echo_PARAM_.out";
StdError = "echo_PARAM_.err";
OutputSandbox = {"echo_PARAM_.out", "echo_PARAM_.err"};
Retrycount=-1;
]
```

```
$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_server p
```

```
Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/kf7upvOiNtOd7qAthY70lg
```

```
$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/kf7upvOiNtOd7qAthY70lg
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/kf7upvOiNtOd7qAthY70lg
Current Status:      Done(Success)
Exit code:           0
Submitted:           Tue Feb 5 15:27:05 2013 CET
```

```
- Nodes information for:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/9eJkws7-aS5qcUKyZswydg
Current Status:      Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code:           0
Status Reason:       Job Terminated Successfully
Destination:         cex.grid.unipg.it:8443/cream-pbs-cert
Submitted:           Tue Feb 5 15:27:05 2013 CET
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/DQULXLoEiZ81BHomXV9nfw
Current Status:      Done(Success)
Exit code:           0
Status Reason:       Job Terminated Successfully
Destination:         grisuce.scope.unina.it:8443/cream-pbs-egeecert
Submitted:           Tue Feb 5 15:27:05 2013 CET
```

WMS36PreCertificationReport < WMS < TWiki

```
=====
Status info for the Job : https://devel09.cnaf.infn.it:9000/LozDHI8Df9uz5GbAMesn_w
Current Status:      Done(Success)
Logged Reason(s):
- BLAH error: submission command failed (exit code = 1) (stdout:) (stderr:T3_BO: User can
- job completed
- Job Terminated Successfully
Exit code:          0
Status Reason:     Job Terminated Successfully
Destination:       atlas-ce-01.roma1.infn.it:8443/cream-lsf-atlasgcert
Submitted:         Tue Feb  5 15:27:05 2013 CET
=====
```

```
=====
Status info for the Job : https://devel09.cnaf.infn.it:9000/varcOAEgkQ0QeIScEVd47w
Current Status:     Done(Success)
Exit code:          0
Status Reason:     Job Terminated Successfully
Destination:       gridcel.pi.infn.it:8443/cream-lsf-cert
Submitted:         Tue Feb  5 15:27:05 2013 CET
=====
```

```
=====
Status info for the Job : https://devel09.cnaf.infn.it:9000/ykG2-jocfC4vxt3jqPvQAA
Current Status:     Done(Success)
Exit code:          0
Status Reason:     Job Terminated Successfully
Destination:       grid012.ct.infn.it:8443/cream-lsf-cert
Submitted:         Tue Feb  5 15:27:05 2013 CET
=====
```

Collection

```
dorigoa@cream-51 13:18:59 ~/JDLs/WMS>cat coll_small.jdl
```

```
[
  type = "collection";
  myproxyserver="myproxy.cnaf.infn.it";
  nodes = {
    [
      file = "/home/dorigoa/JDLs/WMS/coll/job.jdl" ;
    ],
    [
      file = "/home/dorigoa/JDLs/WMS/coll/job.jdl" ;
    ]
  };
]
```

```
dorigoa@cream-51 13:19:06 ~/JDLs/WMS>cat coll/job.jdl
```

```
[
Executable = "/bin/ls" ;
Arguments = "/tmp" ;
RetryCount = 2 ;
Stdoutput = "std.out" ;
StdError = "std.err" ;
OutputSandbox = { "std.out" , "std.err" } ;
InputSandbox = { "data/pippo" };
rank = 1 ;
ShallowRetryCount = 2;
usertags = [ exe = "ls" ];
requirements = RegExp("cream.*", other.GlueCEUniqueID);
]
```

```
dorigoa@cream-51 13:19:08 ~/JDLs/WMS>\rm GIDS_coll ; glite-wms-job-submit -o GIDS_coll -d foo -e
```

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


WMS36PreCertificationReport < WMS < TWiki

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

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

https://devel09.cnaf.infn.it:9000/XImEEyQ7T7AX5x_KsquTJQ

The job identifier has been saved in the following file:
/home/dorigoa/JDLs/WMS/GIDS_coll

=====

```
dorigoa@cream-51 13:19:23 ~/JDLs/WMS>glite-wms-job-submit -o GIDS_coll -d foo -e https://devel09.
```

```
Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/rCZVB6E8FwUhON8TpfNf5w>

The job identifier has been saved in the following file:
/home/dorigoa/JDLs/WMS/GIDS_coll

=====

```
dorigoa@cream-51 13:19:27 ~/JDLs/WMS>glite-wms-job-submit -o GIDS_coll -d foo -e https://devel09.
```

```
Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/EQkZUCGiH36RVpyORQFP6g>

The job identifier has been saved in the following file:
/home/dorigoa/JDLs/WMS/GIDS_coll

=====

```
dorigoa@cream-51 13:19:29 ~/JDLs/WMS>glite-wms-job-status -i GIDS_coll
```

```
-----  
1 : https://devel09.cnaf.infn.it:9000/XImEEyQ7T7AX5x_KsquTJQ  
2 : https://devel09.cnaf.infn.it:9000/rCZVB6E8FwUhON8TpfNf5w  
3 : https://devel09.cnaf.infn.it:9000/EQkZUCGiH36RVpyORQFP6g  
a : all  
q : quit  
-----
```

Choose one or more jobId(s) in the list - [1-3]all:a

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

BOOKKEEPING INFORMATION:

WMS36PreCertificationReport < WMS < TWiki

Status info for the Job : https://devel09.cnaf.infn.it:9000/XImEEyQ7T7AX5x_KsquTJQ
Current Status: Waiting
Submitted: Tue Feb 5 13:19:23 2013 CET

=====
- Nodes information for:

Status info for the Job : https://devel09.cnaf.infn.it:9000/7pKKVeOJHzGB2Tu_WmHAeg
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: atlas-creamce-02.roma1.infn.it:8443/cream-lsf-atlasgcert
Submitted: Tue Feb 5 13:19:23 2013 CET

=====
Status info for the Job : <https://devel09.cnaf.infn.it:9000/GQ9TdSY-I9u9MuYIyzBpDg>
Current Status: Scheduled
Status Reason: unavailable
Destination: cccreamceli08.in2p3.fr:8443/cream-sge-long
Submitted: Tue Feb 5 13:19:23 2013 CET

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

Status info for the Job : <https://devel09.cnaf.infn.it:9000/rCZVB6E8FwUhON8TpfNf5w>
Current Status: Waiting
Submitted: Tue Feb 5 13:19:26 2013 CET

=====
- Nodes information for:

Status info for the Job : <https://devel09.cnaf.infn.it:9000/7Lc7o9--VsdQ97RgAnMWWQ>
Current Status: Scheduled
Status Reason: unavailable
Destination: razi.biruni.upm.my:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:26 2013 CET

=====
Status info for the Job : <https://devel09.cnaf.infn.it:9000/Q0GFvjB1euAdjyAh6gJAPg>
Current Status: Scheduled
Status Reason: unavailable
Destination: ce.cta.camk.edu.pl:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:26 2013 CET

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

Status info for the Job : <https://devel09.cnaf.infn.it:9000/EQkZUCGiH36RVpyORQFP6g>
Current Status: Waiting
Submitted: Tue Feb 5 13:19:28 2013 CET

=====
- Nodes information for:

Status info for the Job : <https://devel09.cnaf.infn.it:9000/RCS14p9ZaCf10wwhD3SYCQ>
Current Status: Scheduled
Status Reason: unavailable
Destination: cccreamceli09.in2p3.fr:8443/cream-sge-short
Submitted: Tue Feb 5 13:19:28 2013 CET

=====
Status info for the Job : <https://devel09.cnaf.infn.it:9000/jjRKD1VR7rm00wXsfTR7IQ>

WMS36PreCertificationReport < WMS < TWiki

Current Status: Scheduled
Status Reason: unavailable
Destination: bugaboo-hep.westgrid.ca:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:28 2013 CET

```
=====
dorigoa@cream-51 13:26:06 ~/JDLs/WMS>glite-wms-job-status -i GIDS_coll
```

```
-----
1 : https://devel09.cnaf.infn.it:9000/XImEEyQ7T7AX5x_KsquTJQ
2 : https://devel09.cnaf.infn.it:9000/rCZVB6E8FwUhON8TpfNf5w
3 : https://devel09.cnaf.infn.it:9000/EQkZUCGiH36RVpyORQFP6g
a : all
q : quit
-----
```

Choose one or more jobId(s) in the list - [1-3]all:a

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/XImEEyQ7T7AX5x_KsquTJQ
Current Status: Done(Success)
Exit code: 0
Submitted: Tue Feb 5 13:19:23 2013 CET
=====
```

- Nodes information for:

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/7pKKVeOJHzGB2Tu_WmHAeg
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: atlas-creamce-02.roma1.infn.it:8443/cream-lsf-atlasgcert
Submitted: Tue Feb 5 13:19:23 2013 CET
=====
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/GQ9TdSY-I9u9MuYIyzBpDg
Current Status: Done(Success)
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: cccreamceli08.in2p3.fr:8443/cream-sge-long
Submitted: Tue Feb 5 13:19:23 2013 CET
=====
```

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/rCZVB6E8FwUhON8TpfNf5w
Current Status: Done(Success)
Exit code: 0
Submitted: Tue Feb 5 13:19:26 2013 CET
=====
```

- Nodes information for:

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/7Lc7o9--VsdQ97RgAnMWWQ
Current Status: Done(Success)
Logged Reason(s):
- Transfer to CREAM failed due to exception: Failed to create a delegation id for job htt
- job completed
- Job Terminated Successfully
Exit code: 0
```

WMS36PreCertificationReport < WMS < TWiki

Status Reason: Job Terminated Successfully
Destination: razi.biruni.upm.my:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:26 2013 CET

```
=====
Status info for the Job : https://devel09.cnaf.infn.it:9000/Q0GFvjBleuAdjyAh6gJApG
Current Status: Done(Success)
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: ce.cta.camk.edu.pl:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:26 2013 CET
=====
```

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/EQkZUCGiH36RVpyORQFP6g
Current Status: Done(Success)
Exit code: 0
Submitted: Tue Feb 5 13:19:28 2013 CET
=====
```

- Nodes information for:

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/RCS14p9ZaCf10wwhD3SYCQ
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: cccreamceli09.in2p3.fr:8443/cream-sge-short
Submitted: Tue Feb 5 13:19:28 2013 CET
=====
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/jjRKD1VR7rm00wXsfTR7IQ
Current Status: Done(Success)
Logged Reason(s):
- job completed
- Job Terminated Successfully
Exit code: 0
Status Reason: Job Terminated Successfully
Destination: bugaboo-hep.westgrid.ca:8443/cream-pbs-dteam
Submitted: Tue Feb 5 13:19:28 2013 CET
=====
```

Job list-match

```
[mcecchi@devel115 ~]$ glite-wms-job-list-match --rank -a --endpoint https://devel09.cnaf.infn.it:7
- vgn003.hep.physik.uni-siegen.de:8443/cream-pbs-dteam 1
- vm3.tier2.hep.manchester.ac.uk:8443/cream-pbs-long 1
- vserv11.hep.phy.cam.ac.uk:8443/cream-pbs-express 1
- vserv11.hep.phy.cam.ac.uk:8443/cream-pbs-short 1
- wario.univ-lille1.fr:8443/cream-pbs-dteam 1
- wipp-crm.weizmann.ac.il:8443/cream-pbs-dteam 1
=====
```

ISM purchasers

```
[root@devel09 workload_manager]# cat dump
[command="ism_dump"]
[root@devel09 workload_manager]# cp dump jobdir/new/
[root@devel09 workload_manager]# tail -f /var/log/wms/workload_manager_events.log
": OiBSMngxWlZ0cGRHVlZibWx4ZFdWSlJEMUpURjlkVlVORFgwbEhJQT09",
"GlueCEUniqueID=ngi-il-ce2.isragrid.org.il:8443/cream-sge-israelvo",
"GlueCEUniqueID=ngi-il-ce2.isragrid.org.il:8443/cream-sge-dteam",
```

WMS36PreCertificationReport < WMS < TWiki

```
"GlueCEUniqueID=ngi-il-ce2.isragrid.org.il:8443/cream-sge-ops"
};
GlueClusterName = "ngi-il-ce2.isragrid.org.il";
GlueSchemaVersionMajor = 1;
GlueInformationServiceURL = "ldap://ngi-il-ce2.isragrid.org.il:2170/mds-vo-name=resource,
]
05 Feb, 10:43:47 -I: [Info] operator() (../../src/dispatcher_utils.cpp:292): new ism_dump

[root@devel09 workload_manager]# ll
total 112244
-rw-r--r-- 1 root root 21 Feb 5 10:43 dump
-rw-r--r-- 1 glite glite 114810221 Feb 5 10:43 ismdump.fl
drwxr-xr-x 5 glite glite 4096 Jan 30 13:10 jobdir
```

Glue 2.0 purchasers and match-making:

N.B.: it requires glite-wms-core-3.5.0-7

Match-making.

makes sure that you don't inherit glue 1 defaults from your UI. Set `WmsRequirements = true` (or whatever valid glue2 expression) in the wms configuration.

```
[mcecchi@devel115 ~]$ cat ls_g2.jdl
[
Executable = "/bin/echo";
EnableZippedISB=true;
Arguments = "Hello";
StdOutput = "out.log";
StdError = "err.log";
InputSandbox = {};
OutputSandbox = {"out.log", "err.log"};
requirements = other.GLUE2.Computing.Endpoint.QualityLevel == "production";
AllowZippedISB = true;
rank=1;
myproxyserver="";
RetryCount = -1;
ShallowRetryCount = -1;
]
[mcecchi@devel115 ~]$ glite-wms-job-list-match --debug -a --endpoint https://devel09.cnaf.infn.it:
4238
```

Purchasing.

In the WM log:

```
05 Feb, 17:11:45 -D: [Debug] fetch_bdii_ce_info_g2(../../../../../src/ism/purchaser/ldap-utils-g2.cp
06 Feb, 08:58:44 -D: [Debug] fetch_bdii_se_info_g2(../../../../../src/ism/purchaser/ldap-utils-g2.cp
hare's ClassAd(s) generated in 5 seconds
```

Create a dump request and check that the content contains GLUE2 descriptions

Job cancel

Cancel of a Running job:

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

Status info for the Job : https://devel09.cnaf.infn.it:9000/HXnAN9vrdSsSi33YxEZmAQ
Current Status:      Scheduled
```

ISM purchasers

WMS36PreCertificationReport < WMS < TWiki

Status Reason: unavailable
Destination: emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
Submitted: Mon Feb 4 16:00:08 2013 CET

```
[mcecchi@devel15 ~]$ glite-wms-job-cancel https://devel09.cnaf.infn.it:9000/HXnAN9vrdSsSi33YxEZmA
```

Are you sure you want to remove specified job(s) [y/n]y : y

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

```
===== glite-wms-job-cancel Success =====
```

The cancellation request has been successfully submitted for the following job(s):

- https://devel09.cnaf.infn.it:9000/HXnAN9vrdSsSi33YxEZmAQ

```
[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/HXnAN9vrdSsSi33YxEZmA
```

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

BOOKKEEPING INFORMATION:

Status info for the Job : https://devel09.cnaf.infn.it:9000/HXnAN9vrdSsSi33YxEZmAQ
Current Status: Cancelled
Destination: emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
Submitted: Mon Feb 4 16:00:08 2013 CET

Cancel of a Done job:

```
[mcecchi@devel15 ~]$ glite-wms-job-cancel https://devel09.cnaf.infn.it:9000/XbwZJuMcbwQ68XVvHm6zt
```

Are you sure you want to remove specified job(s) [y/n]y : y

Error - Cancel not allowed
Current Job Status is Done

Certificate delegation

```
[mcecchi@devel15 ~]$ glite-wms-job-delegate-proxy --endpoint https://devel09.cnaf.infn.it:7443/gl
```

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

```
===== glite-wms-job-delegate-proxy Success =====
```

Your proxy has been successfully delegated to the WMPProxy(s):
https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_server
with the delegation identifier: mc

Check publication in EMIR

Put in your siteinfo.def something like:

```
BDII_EMIR_ENABLE=yes  
BDII_EMIR_SERP_PERIOD=1
```

Job cancel

WMS36PreCertificationReport < WMS < TWiki

BDII_EMIR_SERP_VALIDITY=2
BDII_EMIR_HOST=http://emitbdsr1.cern.ch:9126

Then run:

```
[root@devel09 ~]#PATH=$PATH:/sbin /opt/glite/yaim/bin/yaim -r -f config_emir_serp -s siteinfo_/si
```

```
WARNING:
WARNING: *****
WARNING: Your siteinfo directory is world readable. This is generally a bad idea
WARNING: as configuration files may contain passwords and other sensitive information.
WARNING: *****
WARNING:
INFO: Configuring HOST: devel09.cnaf.infn.it
INFO: Using site configuration file: siteinfo_/site-info.def
INFO:
```

```
#####
```

```
.          /'-. ' )
.   yA,-"-,( ,m,:/ ) .oo.   oo   o   ooo o.   .oo
.   /          .-Y a  a Y-.   8. .8'   8'8.   8   8b  d'8
.   /          ~ ~ /          8'   .8oo88.   8   8 8' 8
.   (_/          '===='      8   .8'   8.   8   8 Y  8
.   Y,-'-'-,Yy,-.,/        o8o  o8o   o88o  o8o  o8o   o8o
.   I_))_) I_))_)
```

```
current working directory: /root
site-info.def date: Jan 30 15:39 siteinfo_/site-info.def
yaim command: -r -f config_emir_serp -s siteinfo_/site-info.def
log file: /opt/glite/yaim/bin/./log/yaimlog
Wed Jan 30 15:50:43 CET 2013 : /opt/glite/yaim/bin/yaim
```

```
Installed YAIM versions:
glite-lb-yaim 4.5.8-1
glite-yaim-bdii 4.3.13-1
glite-yaim-core 5.1.0-1
```

```
#####
```

```
INFO: The default location of the grid-env.(c)sh files will be: /usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utils
INFO: Detecting environment
INFO: Assuming the node types: WMSLB
INFO: Using hostname: devel09.cnaf.infn.it
WARNING: config_emir_serp function is not supported by WMSLB!
WARNING: Anyway you can force this operation.
WARNING: Would you really run config_emir_serp on WMSLB? [y/]:
INFO: Executing function: config_emir_serp_check
INFO: Executing function: config_emir_serp
```

```
EMIR-SERP startup [ OK ]
INFO: YAIM terminated succesfully.
```

Check that the record has reached its destination

```
mcecchi@pccocchi ~ $ curl -v -H "Accept:application/xml" -X GET http://emitbdsr1.cern.ch:9126/ser
* About to connect() to emitbdsr1.cern.ch port 9126 (#0)
* Trying 128.142.136.66... connected
* Connected to emitbdsr1.cern.ch (128.142.136.66) port 9126 (#0)
> GET /services?Service_Endpoint_ID=devel09.cnaf.infn.it_wmproxy_2272271975_org.glite.wms.WMProxy
> User-Agent: curl/7.21.0 (i386-redhat-linux-gnu) libcurl/7.21.0 NSS/3.12.10.0 zlib/1.2.5 libidn/
> Host: emitbdsr1.cern.ch:9126
> Accept:application/xml
>
< HTTP/1.1 200 OK
< Content-Type: application/xml
< Vary: Accept-Encoding
```

Check publication in EMIR

WMS36PreCertificationReport < WMS < TWiki

```
< Content-Length: 981
< Server: Jetty(8.1.4.v20120524)
<
* Connection #0 to host emitbdsr1.cern.ch left intact
* Closing connection #0
<?xml version="1.0" encoding="UTF-8" standalone="yes"?><ns2:QueryResult xmlns="http://schemas.ogf
```

Argus based authZ

see bug #99092 test report, below.

NOTA BENE: access control with Argus is very slow, to the point that it sometimes causes a DOS. NOT suggested for use in production. In these circumstances, the error is the one reported below.

```
[mcecchi@devel15 ~]$ glite-wms-job-list-match --rank -a --endpoint https://devel09.cnaf.infn.it:7
Warning - Unable to perform the operation: Argus request on jobListMatch by DN: /C=IT/O=INFN/OU=P
Error code: SOAP-ENV:Server
```

Support for RFC proxies

IMPORTANT: use glite-wms-interface>=3.5.0-6

```
[mcecchi@devel15 ~]$ voms-proxy-init --voms testers.eu-emi.eu -rfcEnter GRID pass phrase:
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
Creating temporary proxy ..... Done
Contacting emitestbed07.cnaf.infn.it:15002 [/C=IT/O=INFN/OU=Host/L=CNAF/CN=emitestbed07.cnaf.infn
Creating proxy .....
```

Your proxy is valid until Sat Feb 16 04:26:01 2013

```
[mcecchi@devel15 ~]$ glite-wms-job-submit --register-only -a --endpoint https://devel09.cnaf.infn
```

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

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

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

https://devel09.cnaf.infn.it:9000/JiEPmMuhp3M6AKxAD2vcWA

```
=====
```

To complete the operation, the following file containing the InputSandbox of the job needs to be

```
=====
ISB ZIP file : /tmp/ISBfiles_pt_Crq6aJiRrOa2614TmXg_0.tar.gz
Destination : gsiftp://devel09.cnaf.infn.it:2811/var/SandboxDir/Ji/https_3a_2f_2fdevel09.cnaf.infn
-----
```

then start the job by issuing a submission with the option:

```
--start https://devel09.cnaf.infn.it:9000/JiEPmMuhp3M6AKxAD2vcWA
```

```
[mcecchi@devel15 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w
Connecting to the service https://devel09.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:

WMS36PreCertificationReport < WMS < TWiki

https://devel09.cnaf.infn.it:9000/FHNf0FyCVCm4_2zWv6RnyQ

```
=====
[mcecchi@devel15 ~]$ glite-wms-job-cancel https://devel09.cnaf.infn.it:9000/FHNf0FyCVCm4_2zWv6RnyQ
Are you sure you want to remove specified job(s) [y/n]y : y
Connecting to the service https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_server

===== glite-wms-job-cancel Success =====

The cancellation request has been successfully submitted for the following job(s):
- https://devel09.cnaf.infn.it:9000/FHNf0FyCVCm4_2zWv6RnyQ

=====

[mcecchi@devel15 ~]$ glite-wms-job-list-match -a --endpoint https://devel09.cnaf.infn.it:7443/gli
14
```

LIST OF BUGS

WMS stops accepting submissions when no swap is available (bug #96136)	✓
Set asyncjobstart=false to avoid lost jobs (bug #97319)	✓
Job perusal is broken in EMI-2 WMS (bug #98279)	✓
various issues with EMI-1/2 proxy cleanup (bug #98282)	✓
classad plugin functions are broken (bug #100176)	✓
glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval (bug #98524)	✓
ICE removes its pid file at the start() instead of stop() (bug #98724)	✓
wmproxy init script 'status' does not return error when service is not running (bug #99017)	✓
WMS: fix various bugs on Argus authZ (bug #99092)	✓
WM memory footprint bloats, especially on 64-bit architectures (bug #97288)	✓

BUG VERIFICATION

BUG: WMS: stops accepting submissions when no swap is available (bug #96136). Certified by MC 31/12/2013

```
[root@devel09 ~]# /usr/sbin/glite_wms_wmproxy_load_monitor --oper jobSubmit|grep -i swap
Threshold for Swap Usage: 95 => Detected value for Swap Usage: 0.60%
[root@devel09 ~]# cat /proc/swaps
Filename      Type      Size  Used  Priority
/dev/mapper/VolGroup00-LogVol01      partition 6094840 36808  -1
[root@devel09 ~]# swapoff /dev/mapper/VolGroup00-LogVol01
[root@devel09 ~]# cat /proc/swaps
[root@devel09 ~]# /usr/sbin/glite_wms_wmproxy_load_monitor --oper jobSubmit|grep -i swap
Threshold for Swap Usage: 95 => Detected value for Swap Usage: 0.00%
```

BUG: Set asyncjobstart=false to avoid lost jobs (bug #97319). Certified by MC 30/12/2013

```
[root@devel09 ~]# grep -i asyncj /etc/glite-wms/glite_wms.conf
    AsyncJobStart = false;
```

BUG: classad plugin functions are broken (bug #100176). Certified by MC 30/12/2013

On a UI, list-match for this JDL:

```
[mcecchi@devel115 ~]$ cat fqanmember_emi2.jdl
[
Executable = "/bin/echo";
Arguments = "Hello";
StdOutput = "out.log";
StdError = "err.log";
InputSandbox = {};
OutputSandbox = {"out.log", "err.log"};
leftVOMS_FQAN="/gridit/ansys/Role=NULL/Capability=NULL";
rightGlueCEACBR= { "VOMS:/gridit/ansys", "VOMS:/gridit/ansys/Role=SoftwareManager"};
requirements = fqanMember(strcat("VOMS:", leftVOMS_FQAN), rightGlueCEACBR) is true;
myproxyserver="";
ShallowRetryCount = -1;
]
```

if the number of returned queues is more than 0 then the bug is fixed (actually it should be high, because if the classad plugin function works requirements evaluates to true)

```
[mcecchi@devel115 ~]$ glite-wms-job-list-match --rank -a --endpoint https://devel09.cnaf.infn.it:7635
```

BUG: ICE removes its pid file at the start() instead of stop() (bug #98724). Certified by AD (31/01/2013, 11:30)

In the following log paste it is shown that after ICE stop the pid file /var/run/glite-wms-ice-safe.pid is correctly removed

```
[root@cream-01 siteinfo]# ps -ef|grep ice
root      23205  1918  0 11:31 pts/0    00:00:00 grep ice
[root@cream-01 siteinfo]# /etc/init.d/glite-wms-ice start
starting ICE... ok
[root@cream-01 siteinfo]# ll /var/run/glite-wms-ice-safe.pid
-rw-r--r-- 1 root root 6 Jan 31 11:31 /var/run/glite-wms-ice-safe.pid
[root@cream-01 siteinfo]# ps -ef|grep ice
glite     23232      1  0 11:31 ?        00:00:00 /usr/bin/glite-wms-ice-safe --conf glite_wms.conf
glite     23237  23232  0 11:31 ?        00:00:00 sh -c /usr/bin/glite-wms-ice --conf glite_wms.conf
glite     23238  23237  0 11:31 ?        00:00:00 /usr/bin/glite-wms-ice --conf glite_wms.conf /var
root      23275  1918  0 11:31 pts/0    00:00:00 grep ice
[root@cream-01 siteinfo]# /etc/init.d/glite-wms-ice stop
stopping ICE... ok
[root@cream-01 siteinfo]# ps -ef|grep ice
root      23309  1918  0 11:31 pts/0    00:00:00 grep ice
[root@cream-01 siteinfo]# ll /var/run/glite-wms-ice-safe.pid
ls: /var/run/glite-wms-ice-safe.pid: No such file or directory
```

BUG: various issues with EMI-1/2 proxy cleanup (bug #98282). Certified by MC 31/12/2013

Just perform these checks:

```
[root@devel09 ~]# ll /etc/cron.hourly
total 4
-rw-r--r-- 1 root root 351 Nov 22 12:26 purge_proxycache
[root@devel09 ~]# cat /etc/cron.hourly/purge_proxycache
#!/bin/sh

exec >> /var/log/proxycache-cleanup.log 2>&1 < /dev/null

echo "=====`date`===="
```

WMS36PreCertificationReport < WMS < TWiki

```
cd /var/proxycache/cache || exit

for i in *
do
(
test -d "$i" && cd "$i" || exit

echo "=== $i"

find . -maxdepth 1 -mindepth 1 -type d -mmin +5 -ls -exec \
sh -c '
k=$0/userkey.pem
[ -e "$k" ] && ls -l "$k" && rm "$k"
rmdir "$0"
' {} \;
)
done

echo ''

[root@devel09 ~]# cat /etc/cron.d/glite-wms-wmproxy-purge-proxycache.cron
HOME=/
MAILTO=wms-support@cnaf.infn.it

0 */2 * * * root . /usr/libexec/grid-env.sh ; /usr/bin/glite-wms-wmproxy-purge-proxycache /var/pr
[root@devel09 ~]# cat /etc/cron.d/glite-wms-wmproxy-purge-proxycache_keys.cron
0 */2 * * * root sh /usr/bin/glite-wms-wmproxy-purge-proxycache_keys >> /var/log/wms/glite-wms-wm
[root@devel09 ~]#

[root@devel09 ~]# cat /usr/bin/glite-wms-wmproxy-purge-proxycache_keys
#!/bin/sh

log() {
    echo "`date`: $1"
}

log "proxy cache leftover private keys cleaner started"

cd /var/proxycache/cache || exit

for i in *
do
(
test -d "$i" && cd "$i" || exit

echo "=== $i"

find . -maxdepth 1 -mindepth 1 -type d -mmin +5 -ls -exec \
sh -c '
k=$0/userkey.pem
[ -e "$k" ] && ls -l "$k" && rm "$k"
rmdir "$0"
' {} \;
)
done

log "finished cleaning keys"
[root@devel09 ~]# sh /usr/bin/glite-wms-wmproxy-purge-proxycache_keys
Thu Jan 31 16:17:13 CET 2013: proxy cache leftover private keys cleaner started
Thu Jan 31 16:17:13 CET 2013: finished cleaning keys
[root@devel09 ~]# ll /var/proxycache/cache/
total 0
[root@devel09 ~]#
```

WMS36PreCertificationReport < WMS < TWiki

BUG: wmpoxy init script 'status' does not return error when service is not running (bug #99017). Certified by MC 31/12/2013

```
[root@devel09 ~]# /etc/init.d/glite-wms-wmproxy stop
Stopping /usr/bin/glite_wms_wmproxy_server... ok
[root@devel09 ~]# /etc/init.d/glite-wms-wmproxy status
/usr/bin/glite_wms_wmproxy_server is not running
[root@devel09 ~]# echo $?
1
```

BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval (bug #98524)

```
[mcecchi@devel15 ~]$ cat no_renewal.jdl
[
Executable = "/bin/echo";
EnableZippedISB=true;
Arguments = "Hello";
StdOutput = "out.log";
StdError = "err.log";
InputSandbox = {};
OutputSandbox = {"out.log", "err.log"};
requirements = true;
rank = 1;
AllowZippedISB = false;
myproxyserver="";
ShallowRetryCount = -1;
]
```

```
[mcecchi@devel15 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w
```

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

```
Warning - Unable to submit the job to the service: https://devel09.cnaf.infn.it:7443/glite_wms_wm
Argus denied authorization on jobSubmit issued by DN: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF
Error code: SOAP-ENV:Server
```

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

```
[mcecchi@devel15 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w
```

```
Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/LR_KXTPtFJKWy2-33sWdqQ
```

```
[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/LR_KXTPtFJKWy2-33sWdq
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/LR_KXTPtFJKWy2-33sWdqQ
Current Status:      Waiting
Status Reason:      unavailable
Destination:        emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
```

BUG: wmpoxy init script 'status' does not return error when service is not running (bug #99017). Certified by MC 31/12/2013

WMS36PreCertificationReport < WMS < TWiki

Submitted: Thu Jan 31 12:50:34 2013 CET

```
=====
[mceccchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/LR_KXTPtFJKWy2-33sWdqQ
```

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

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/LR_KXTPtFJKWy2-33sWdqQ
Current Status:      Ready
Destination:        emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
Submitted:          Thu Jan 31 12:50:34 2013 CET
=====
```

BUG: WMS: fix various bugs on Argus authZ (bug #99092). Certified by MC 31/12/2013

WMS:

```
[root@devel09 ~]# rpm -qa | grep glite-wms
glite-wms-utils-classad-3.4.1-1.s15
glite-wms-purger-3.5.0-3.s15
glite-wms-jobsubmission-3.5.0-3.s15
glite-wms-core-devel-3.5.0-4.s15
glite-wms-common-3.5.0-3.s15
glite-wms-configuration-3.5.0-3.s15
glite-wms-interface-3.5.0-3.s15
glite-wms-ice-3.5.0-3.s15
glite-wms-core-3.5.0-5.s15
glite-wms-jobsubmission-lib-3.5.0-3.s15
glite-wms-utils-exception-3.4.1-1.s15
```

Check that siteinfo.def contains:

```
USE_ARGUS=yes
ARGUS_PEPD_ENDPOINTS="https://emitestbed30.cnaf.infn.it:8154/authz"
```

and run the configuration, if not already done. Submit a job a look at the wmp log:

WMS:

```
[root@devel09 SandboxDir]# tail -f /var/log/wms/wmproxy.log|grep -i argus
04 Feb, 15:44:29 -D- PID: 16297 - "WMPAuthorizer::authorize": Argus authZ and mapping
04 Feb, 15:44:29 -D- PID: 16297 - "argus_authZ": PEP version: argus-pep-api-c/2.2.0 (libcurl/7.15
04 Feb, 15:44:29 -I- PID: 16297 - "argus_authZ": creating XACML request for argus
04 Feb, 15:45:04 -D- PID: 16297 - "argus_autZ::get_response": argus decision permit
04 Feb, 15:45:04 -D- PID: 16297 - "argus_autZ::get_response": argus mapped user = tst27
04 Feb, 15:45:04 -D- PID: 16297 - "argus_autZ::get_response": argus mapped group = testers
04 Feb, 15:45:04 -I- PID: 16297 - "WMPAuthorizer::authorize": Argus returned PERMIT with mapping
04 Feb, 15:45:04 -D- PID: 16297 - "WMPAuthorizer::authorize": Argus authZ and mapping
04 Feb, 15:45:04 -D- PID: 16297 - "argus_authZ": PEP version: argus-pep-api-c/2.2.0 (libcurl/7.15
04 Feb, 15:45:04 -I- PID: 16297 - "argus_authZ": creating XACML request for argus
04 Feb, 15:45:05 -D- PID: 16297 - "argus_autZ::get_response": argus decision permit
04 Feb, 15:45:05 -D- PID: 16297 - "argus_autZ::get_response": argus mapped user = tst27
04 Feb, 15:45:05 -D- PID: 16297 - "argus_autZ::get_response": argus mapped group = testers
04 Feb, 15:45:05 -I- PID: 16297 - "WMPAuthorizer::authorize": Argus returned PERMIT with mapping

[root@devel09 SandboxDir]# ll aK/https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2faKh4KHvJF-Dzf69BDWCM
total 28
drwxrwx--- 2 tst27 glite 4096 Feb  4 15:45 input
-rw-r--r-- 1 glite glite  599 Feb  4 15:45 JDLOriginal
-rw-r--r-- 1 glite glite 2395 Feb  4 15:45 JDLStarted
drwxrwx--- 2 tst27 glite 4096 Feb  4 15:45 output
```

BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval **bug #98**

WMS36PreCertificationReport < WMS < TWiki

```
drwxrwx--- 2 tst27 glite 4096 Feb  4 15:45 peek
-rw----- 1 glite glite 6361 Feb  4 15:45 user.proxy
```

UI: submit a job with both ISB and OSB

```
[mcecchi@devel15 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w
```

```
Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/aKh4KHvJF-Dzf69BDWCM7Q
```

```
=====
```

```
[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/aKh4KHvJF-Dzf69BDWCM7
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/aKh4KHvJF-Dzf69BDWCM7Q
```

```
Current Status:      Done(Success)
```

```
Logged Reason(s):
```

- job completed
- Job Terminated Successfully

```
Exit code:          0
```

```
Status Reason:      Job Terminated Successfully
```

```
Destination:        emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
```

```
Submitted:          Mon Feb  4 15:45:05 2013 CET
```

```
=====
```

```
[mcecchi@devel15 ~]$ glite-wms-job-output https://devel09.cnaf.infn.it:9000/XbwZJuMcbwQ68XVvHm6zt
```

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

```
Warning - JobPurging not allowed
(Unable to copy file)
```

```
=====
```

```
JOB GET OUTPUT OUTCOME
```

```
Output sandbox files for the job:
```

```
https://devel09.cnaf.infn.it:9000/XbwZJuMcbwQ68XVvHm6ztQ
```

```
have been successfully retrieved and stored in the directory:
```

```
/tmp/jobOutput/mcecchi_XbwZJuMcbwQ68XVvHm6ztQ
```

```
=====
```

```
[mcecchi@devel15 ~]$ ll /tmp/jobOutput/mcecchi_XbwZJuMcbwQ68XVvHm6ztQ/out.log
```

```
-rw-rw-r-- 1 mcecchi mcecchi 22 Feb  4 15:57 /tmp/jobOutput/mcecchi_XbwZJuMcbwQ68XVvHm6ztQ/out.lo
```

```
[mcecchi@devel15 ~]$ cat /tmp/jobOutput/mcecchi_XbwZJuMcbwQ68XVvHm6ztQ/out.log
```

```
a.out
```

```
err.log
```

```
out.log
```

BUG: WMS: Job perusal is broken in EMI-2 WMS (bug #98279). Certified by MC 02/02/2013

```
[mcecchi@devel15 ~]$ cat perusal.jdl
Executable = "sleeper.sh";
requirements = true;
rank = 1;
EnableZippedIsb=true;
Arguments = "out.txt";
StdOutput = "std.out";
StdError = "std.err";
InputSandbox = {"sleeper.sh"};
OutputSandbox = {"std.out","std.err","out.txt"};
PerusalFileEnable = true;
[mcecchi@devel15 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w

Connecting to the service https://devel09.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://devel09.cnaf.infn.it:9000/znM6WQNJQqVhMmAPSp4gFQ

=====

[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/znM6WQNJQqVhMmAPSp4gFQ

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

Status info for the Job : https://devel09.cnaf.infn.it:9000/znM6WQNJQqVhMmAPSp4gFQ
Current Status:      Running
Status Reason:      unavailable
Destination:        emi002.grid.sinica.edu.tw:8443/cream-pbs-testers_q
Submitted:          Mon Feb  4 16:17:20 2013 CET
=====

[mcecchi@devel15 ~]$ glite-wms-job-perusal --set -f std.out https://devel09.cnaf.infn.it:9000/znM

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

===== glite-wms-job-perusal Success =====

File perusal has been successfully enabled for the job:
https://devel09.cnaf.infn.it:9000/znM6WQNJQqVhMmAPSp4gFQ

=====

[mcecchi@devel15 ~]$ glite-wms-job-perusal --get -f std.out https://devel09.cnaf.infn.it:9000/znM

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

===== glite-wms-job-perusal Success =====

No files to be retrieved for the job:
https://devel09.cnaf.infn.it:9000/znM6WQNJQqVhMmAPSp4gFQ

=====
```

WMS36PreCertificationReport < WMS < TWiki

```
[mcecchi@devel15 ~]$ glite-wms-job-perusal --get -f std.out https://devel09.cnaf.infn.it:9000/znM
```

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

```
===== glite-wms-job-perusal Success =====
```

```
The retrieved files have been successfully stored in:  
/tmp/jobOutput/mcecchi_znM6WQNJQqVhMmAPSp4gFQ
```

```
=====
```

```
-----  
file 1/1: std.out-20130204153621_1-20130204153621_1  
-----
```

```
[mcecchi@devel15 ~]$ tail /tmp/jobOutput/mcecchi_znM6WQNJQqVhMmAPSp4gFQ/std.out-20130204153621_1-  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second  
slept for 1 second
```

BUG: WM memory footprint bloats, especially on 64-bit architectures (bug #97288). HOPEFULLY FIXED

This bug cannot be checked in non production environments. A substantial change has been brought in the ldap purchasers, by removing legacy data structures and using a cleaner and unified approach. This needs to be tested in production

BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval (bug #98524)

To reproduce the bug submit a job producing at least one output sandbox file, to a WMS EMI2 server...

```
dorigoa@cream-51 18:52:15 ~>glite-wms-job-status https://devel09.cnaf.infn.it:9000/G5c9297pMa6nYcRR2WiAzA
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/G5c9297pMa6nYcRR2WiAzA  
Current Status:      Done (Success)  
Logged Reason(s) :  
  - job completed  
  - Job Terminated Successfully  
Exit code:           0  
Status Reason:      Job Terminated Successfully  
Destination:        cream-47.pd.infn.it:8443/cream-lsf-creamtest1  
Submitted:          Mon Feb  4 18:52:06 2013 CET
```

```
=====
```

Then, move to the WMS server and change directory to

```
/var/SandboxDir/G5/https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2f/G5c9297pMa6nYcRR2WiAzA
```

and remove proxies

```
[root@cream-28 SandboxDir]# cd G5/https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fG5c9297pMa6nYcRR2WiAzA  
[root@cream-28 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fG5c9297pMa6nYcRR2WiAzA]# ll
```

BUG: WM memory footprint bloats, especially on 64-bit architectures (bug #97288). HOPEFULLY FIXED

WMS36PreCertificationReport < WMS < TWiki

```
total 24
drwxrwx--- 2 dteam042 glite 4096 Feb  4 18:52 input
-rw-r--r-- 1 glite     glite  708 Feb  4 18:52 JDLOriginal
-rw-r--r-- 1 glite     glite 2510 Feb  4 18:52 JDLToStart
drwxrwx--- 2 dteam042 glite 4096 Feb  4 18:52 output
drwxrwx--- 2 dteam042 glite 4096 Feb  4 18:52 peek
lrwxrwxrwx 1 glite     glite   64 Feb  4 18:52 user.proxy -> /var/glite/spool/glite-renewd/45a96bd
[root@cream-28 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fG5c9297pMa6nYcRR2WiAzA]# find . -iname
./.user.proxy.bak
./user.proxy
[root@cream-28 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fG5c9297pMa6nYcRR2WiAzA]# \rm ./user.p
```

Go back to the UI and try a glite-wms-job-output that must fail (because of proxies removal):

```
dorigoa@cream-51 18:53:53 ~>glite-wms-job-output https://devel09.cnaf.infn.it:9000/G5c9297pMa6nYcRR2WiAzA
```

```
Connecting to the service https://cream-28.pd.infn.it:7443/glite_wms_wmproxy_server
```

```
Error - getOutputFileList Error
(Proxy exception: Unable to get Not Before date from Proxy)
```

Now, perform another submission using a EMI3 WMS server:

```
dorigoa@cream-51 18:59:30 ~>glite-wms-job-status https://devel09.cnaf.infn.it:9000/A1MwywIZXXW8-FMNd0pY9w
```

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

Status info for the Job : https://devel09.cnaf.infn.it:9000/A1MwywIZXXW8-FMNd0pY9w
Current Status:      Done(Success)
Logged Reason(s):
  - job completed
  - Job Terminated Successfully
Exit code:           0
Status Reason:      Job Terminated Successfully
Destination:        cream-47.pd.infn.it:8443/cream-lsf-creamtest1
Submitted:          Mon Feb  4 18:58:57 2013 CET
=====
```

Remove proxies from WMS's sandboxdir:

```
[root@cream-01 ~]# cd /var/SandboxDir/A1/https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fA1MwywIZXXW8-FMNd0pY9w
[root@cream-01 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fA1MwywIZXXW8-FMNd0pY9w]# ls l
ls: l: No such file or directory
[root@cream-01 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fA1MwywIZXXW8-FMNd0pY9w]# find . -iname
./.user.proxy.bak
./user.proxy
[root@cream-01 https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fA1MwywIZXXW8-FMNd0pY9w]# \rm ./user.p
```

Go back to UI and try another job-output, that should be successful:

```
dorigoa@cream-51 DING! ~>glite-wms-job-output https://devel09.cnaf.infn.it:9000/A1MwywIZXXW8-FMNd0pY9w
```

```
Connecting to the service https://cream-01.pd.infn.it:7443/glite_wms_wmproxy_server
```

```
Warning - JobPurging not allowed
(Unable to copy file)
```

```
=====
```

BUG: glite-wms-job-output requires a valid delegated proxy on the WMS to enable output retrieval ~~24~~ **bug #98**

WMS36PreCertificationReport < WMS < TWiki

JOB GET OUTPUT OUTCOME

Output sandbox files for the job:
https://devel09.cnaf.infn.it:9000/A1MWywIZXXW8-FMNd0pY9w
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/dorigoa_A1MWywIZXXW8-FMNd0pY9w

```
=====
dorigoa@cream-51 19:01:54 ~>ls -l /tmp/jobOutput/dorigoa_A1MWywIZXXW8-FMNd0pY9w
total 4
-rw-rw-r-- 1 dorigoa dorigoa 0 Feb  4 19:01 stderr
-rw-rw-r-- 1 dorigoa dorigoa 5 Feb  4 19:01 stdout
```

-- MarcoCecchi - 2013-01-16

-- AlviseDorigo - 2013-04-16

This topic: WMS > WMS36PreCertificationReport

Topic revision: r2 - 2013-04-16 - AlviseDorigo



Copyright © 2008-2022 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback