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WMS 3.5 pre-certification report

Basic functionality testing

Testing instance at devel09.cnaf.infn.it (SL5.8). Deployed on Jan, 31th, 2013

```
[root@devel09 ~]# rpm -qa | grep glite-wms
glite-wms-purger-3.5.0-3.s15
glite-wms-utils-classad-3.4.1-11.s15
glite-wms-configuration-3.5.0-3.s15
glite-wms-interface-3.5.0-3.s15
glite-wms-core-3.5.0-5.s15
glite-wms-common-3.5.0-3.s15
glite-wms-jobsubmission-lib-3.5.0-3.s15
glite-wms-utils-exception-3.4.1-1.s15
glite-wms-ice-3.5.0-3.s15
glite-wms-jobsubmission-3.5.0-3.s15
```

Update 2/2/2013. wms-interface rpm has increased version.

glite-wms-interface-3.5.0-4.s15

Job submission

Single job

CREAM CE

```
[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_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/AJltCWOFB2svmBVneZUVYA
```

```
=====
```

```
[mcecchi@devel15 ~]$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/AJltCWOFB2svmBVneZUVYA
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel09.cnaf.infn.it:9000/AJltCWOFB2svmBVneZUVYA
```

```
Current Status:      Cleared
```

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

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

```
Submitted:          Mon Feb  4 16:56:33 2013 CET
```

```
=====
```

LCG CE

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

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

```
BOOKKEEPING INFORMATION:
```

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```
Status info for the Job : https://devel09.cnaf.infn.it:9000/szSrLq_FuZtCrHvetBnK-Q
Current Status:      Done(Success)
Exit code:          0
Status Reason:      Job terminated successfully
Destination:        t2-ce-02.mi.infn.it:2119/jobmanager-lcgcondor-cert
Submitted:          Tue Feb  5 12:11:04 2013 CET
```

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
```

DAG job

```
[mcecchi@devel115 ~]$ 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@devel115 ~]$ 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
```

Single job

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=====
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  
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  
=====
```

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

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

DAG job

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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:        lcgcel10.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
=====
```

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/kf7upvOiNtOd7qAthY701g
=====
```

```
$ glite-wms-job-status https://devel09.cnaf.infn.it:9000/kf7upvOiNtOd7qAthY701g
```

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===== 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-aS5qcUKyZsdydg>

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

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: gridce1.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 = {
    [
```

WMS35PrecertificationReport < WMS < TWiki

```
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
```

```
===== 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 =====
```

WMS35PrecertificationReport < WMS < TWiki

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:
```

```
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
=====
```


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```
Status info for the Job : https://devel09.cnaf.infn.it:9000/Q0GFvjBleuAdjyAh6gJApg
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/jjRKDlVR7rm00wXsfTR7IQ
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.romal.infn.it:8443/cream-lsf-atlasgcert
Submitted:           Tue Feb  5 13:19:23 2013 CET
```

=====

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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
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/Q0GFvjB1euAdjyAh6gJApq>
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/RCSl4p9ZaCf10wwhD3SYCQ>
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

WMS35PrecertificationReport < WMS < TWiki

```
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@devel15 ~]$ 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
": OiBSMngxWlZOcGRHVlZibWx4ZFdWSlJEMUpURjlkVlVORFgwbEhJQT09",
"GlueCEUniqueID=ngi-il-ce2.isragrid.org.il:8443/cream-sge-israelvo",
"GlueCEUniqueID=ngi-il-ce2.isragrid.org.il:8443/cream-sge-dteam",
"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@devel15 ~]$ 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;
```

WMS35PrecertificationReport < WMS < TWiki

```
]
[mcecchi@devel15 ~]$ 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
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
```

Match-making.

WMS35PrecertificationReport < WMS < TWiki

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  
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
```

```
#####
```

Job cancel

WMS35PrecertificationReport < WMS < TWiki

```
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@pcccechi ~ $ 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
< 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=Personal Certificate/L=CNAF/CN=Marco Cecchi
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.it]
Creating proxy ..... Done
```

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

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

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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.it

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_wmproxy_server
Connecting to the service https://devel09.cnaf.infn.it:7443/glite_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/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_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/glite_wmproxy_server
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
```


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```
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` ====="

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@cnaif.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
```

BUG: ICE removes its pid file at the start() instead of stop() (bug #98724). Certified by AD (31/01/2013, 11:3

WMS35PrecertificationReport < WMS < TWiki

```
(
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 ~]#
```

BUG: wmproxy 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@devel115 ~]$ 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@devel115 ~]$ 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@devel115 ~]$ glite-wms-job-submit -a --endpoint https://devel09.cnaf.infn.it:7443/glite_w
```

WMS35PrecertificationReport < WMS < TWiki

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_KXTPtFJKWy2-33sWdqQ
```

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

```
[mcecchi@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:

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

WMS35PrecertificationReport < WMS < TWiki

```
[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_authZ::get_response": argus decision permit
04 Feb, 15:45:04 -D- PID: 16297 - "argus_authZ::get_response": argus mapped user = tst27
04 Feb, 15:45:04 -D- PID: 16297 - "argus_authZ::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_authZ::get_response": argus decision permit
04 Feb, 15:45:05 -D- PID: 16297 - "argus_authZ::get_response": argus mapped user = tst27
04 Feb, 15:45:05 -D- PID: 16297 - "argus_authZ::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
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
```

WMS35PrecertificationReport < WMS < TWiki

(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.log
[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

BUG: WMS: Job perusal is broken in EMI-2 WMS (bug #98279). Certified by MC 02/02/2013 20

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```
===== 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
```

```
=====
```

```
[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/G5c9297pMa6nYc
```

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

WMS35PrecertificationReport < WMS < TWiki

```
===== 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
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:

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

WMS35PrecertificationReport < WMS < TWiki

```
[root@cream-01 ~]# cd /var/SandboxDir/A1/https_3a_2f_2fdevel09.cnaf.infn.it_3a9000_2fA1MwywIZXXW8
[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)
```

=====

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

This topic: [WMS > WMS35PrecertificationReport](#)

Topic revision: [r21](#) - 2013-02-15 - [MarcoCecchi](#)



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