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WMS Test Plan

Unit tests

N/A

Deployment tests

Repository

The EMI-1 RC4 repository can be found under:

http://emisoft.web.cern.ch/emisoft/dist/EMI/1/RC4/sl5/x86_64

Other repositories:

- epel.repo
- lcg-CA.repo
- sl.repo
- sl-security.repo

Installation test

First of all, install the yum-protectbase rpm:

```
yum install yum-protectbase.noarch
```

Then proceed with the installation of the CA certificates by issuing:

```
yum install ca-policy-egi-core
```

Install the WMS metapackage:

```
yum install emi-wms
```

Configure the WMS:

```
/opt/glite/yaim/bin/yaim -c -s site-info.def -n WMS
```

Update test

N/A

Functionality tests

Features/Scenarios to be tested

YAIM-WMS Configuration Testing

- Installation and configuration starting from a cleaning machine (i.e. only OS)
- Update and configuration from a previous version

WMS Job Submission/GetOutput Testing

Submit a job to the WMS service and when finished retrieve the output. Test job submission with the following type of jobs:

Bunch #1: submission of normal jobs.

Test 1.1: Test this JDL:

```
[ Executable = "/bin/echo"; Arguments = "Hello"; StdOutput = "out.log"; StdError = "err.log"; InputSandbox = {"Test.sh"}; OutputSandbox = {"out.log", "err.log"}; requirements = RegExp("cream.*", other.GlueCEUniqueID); AllowZippedISB = false; rank=0; myproxyserver="myproxy.cnaf.infn.it"; RetryCount = 0; ShallowRetryCount = 1; ]
```

Test 1.10 submit a job with an empty file in ISB

Normal Job

- Test submission of *normal jobs* with different options and situation Implemented
- Test the complete cycle with the two types of CEs: lcg and Cream Implemented

More different jdls can added in the future.

Perusal job

Job perusal is the ability to view output from a job while it is running. Implemented

DAG job

Directed Acyclic Graphs (a set of jobs where the input/output/execution of one of more jobs may depend on one or more other jobs).

- Try with JDL:

```
[
  type = "dag";
  DefaultNodeShallowRetryCount = 3;
  nodes = [
    nodeA = [
      node_type = "edg-jdl";
      file = "jdl/arg.jdl" ;
    ];
    nodeB = [
      node_type = "edg-jdl";
      file = "jdl/arg.jdl" ;
    ];
    nodeC = [
      node_type = "edg-jdl";
      file = "jdl/arg.jdl" ;
    ];
  dependencies = {
    { nodeA, nodeB },
    { nodeA, nodeC }
  }
];
]
```

- When dag finishes retrieve the output files

- Check the final status of the dag (all nodes and parent should be "Cleared")

More different jdls can added in the future.

Parametric Job

Multiple jobs with one parametrized description. Implemented

Collection Job

Multiple jobs with a common description. There are two ways to submit collection: you can create a single jdl with all the jdls of nodes or you can submit all the jdls stored in a directory (bulk submission)

- Submit a jdl like this one:

```
[
nodes = {
  [
    file="jdl/arg.jdl";
  ],
  [
    executable="/bin/env";
    ShallowRetryCount = 0;
    RetryCount = 0;
    Stdoutput = "file.out" ;
    StdError = "file.err" ;
    OutputSandbox = { "file.out" , "file.err" } ;
    FuzzyRank = true;
  ],
  [
    NodeName="nodeA";
    executable="/bin/ls" ;
    Stdoutput = "file.out" ;
    OutputSandbox = { "file.out" } ;
  ]
];
Type = "Collection" ;
requirements = other.GlueCEStateStatus == "Production" ;
rank = -other.GlueCEStateEstimatedResponseTime ;
]
```

- When collection finishes retrieve the output files
- Check the final status of the collection all nodes and parent should be "Cleared")
- To test bulk submission use option "--collection" of glite-wms-job-submit command.
- When collection finishes retrieve the output files
- Check the final status of the collection (all nodes and parent should be "Cleared")

More different jdls can added in the future.

Parallel Job

Jobs that can be running in one or more cpus in parallel.

- Submit a jdl like this one:

```
[
Executable = "cpi";
CpuNumber = 2;
Stdoutput = "cpi.out" ;
StdError = "cpi.err" ;
]
```

DAG job

```
OutputSandbox = { "cpi.out" , "cpi.err" } ;
InputSandbox = { "exe/cpi" };
FuzzyRank = true;
usertags = [ exe = "cpi" ];
]
```

- When job finishes retrieve the output files
- Check the final status of the job

Delegation

Explicit delegation, automatic delegation

Brokerinfo

WMS Job shallow and deep re-submission

There two type of resubmission; the first is defined *deep* occurs when the user's job has started running on the WN and then the job itself or the WMS JobWrapper has failed. The second one is called *shallow* and occurs when the WMS JobWrapper has failed before starting the actual user's job. Implemented

Replanning

MaxReplansCount in glite_wms.conf

WMS Job List-match Testing

Without data

Test job-list-command and its option Implemented

With data

- You need to register a file on an SE, then submit a jdl like this one (as InputData put the lfn(s) registered before):

```
#####
#          JDL with Data Requirements          #
#####

Executable = "calc-pi.sh";
Arguments = "1000";
StdOutput = "std.out";
StdError = "std.err";
Prologue = "prologue.sh";
InputSandbox = {"calc-pi.sh", "fileA", "fileB", "prologue.sh"};
OutputSandbox = {"std.out", "std.err", "out-PI.txt", "out-e.txt"};
Requirements = true;

DataRequirements = {
[
DataCatalogType = "DLI";
DataCatalog = "http://lfcserver.cnaf.infn.it:8085";
InputData = {"lfn:/grid/infngriid/cesini/PI_1M.txt", "lfn:/grid/infngriid/cesini/e-2M.txt"};
]
};
DataAccessProtocol = "gsiftp";
```

- Then try a list-match, the listed CEs should be the ones "close" to the used SE

WMS Job Cancel Testing

Test the cancellation of these type of jobs (final status should be cleared):

Normal job

Submit and cancel a normal job Implemented

DAG job

Submit a dag job and then cancel it (the *parent*)

Collection

Submit a collection job and then cancel it (the *parent*)

Node of a collection

Submit a collection job and then some of its nodes

Others

Delegation Testing

Test the delegation command and its options Implemented

Job-info Testing

Test the job-info command and its options Implemented

Logging-info Testing

Test the logging-info command and its options Implemented

Job Status Testing

Test the job-status command and its options Implemented

Prologue and Epilogue jobs

In the jdl you can specify two attributes *prologue* and *epilogue* which are scripts that are execute respectively before and after the user's job. Implemented

Performance tests

Collection of 1000 nodes

Submit a collection of 1000 nodes.

Stress test

This could be an example of stress test

- 2880 collections each of 20 jobs
- One collection every 60 seconds

- Four users
- Use LCG-CEs and CREAM-CEs (with different batch systems)
- Use automatic-delegation
- The job is a "sleep random(672)"
- Resubmission is enabled
- Enable proxy renewal

Regression tests

List of RfC tests

bug #33342: separate retry policies for ISB and OSB

Description of the test.

Of course we're speaking of submission to the lcg-CE, as CREAM uses its own jobwrapper.

ISB: <https://devel11.cnaf.infn.it:9000/a> ...

submitted a job and then removed its ISB

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf lsisb.jdl
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/-...
```

```
=====
```

```
server side:
```

```
[root@devel11 input]# rm -f a
```

```
[root@devel11 input]# pwd
```

```
/var/SandboxDir/-h/https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2f-h4MRDzYkufRu71MKfF1pw/input
```

```
after a while, maradona file reports:
```

```
[root@devel11 https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2f-h4MRDzYkufRu71MKfF1pw]# cat Maradona.o
```

```
LM_log_done_begin
```

```
Wed Apr 20 22:08:51 CEST 2011: lcg-jobwrapper-hook.sh not readable or not present
```

```
Wed Apr 20 22:08:52 CEST 2011: Error during transfer
```

```
Wed Apr 20 22:09:53 CEST 2011: Error during transfer
```

```
Wed Apr 20 22:11:54 CEST 2011: Error during transfer
```

```
LM_log_done_end
```

```
Cannot download a from gsiftp://devel11.cnaf.infn.it:2811/var...
```

```
Killing log watchdog (pid=21047)...
```

```
jw exit status = 1
```

```
OSB:
```

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf lsosb.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

Stress test

https://devel111.cnaf.infn.it:9000/3...

=====
Considered successful if: after more than twenty minutes Maradona file hasn't returned yet and the job is running, meaning that other defaults are in place (the ones previously used for both ISB and OSB)

bug #36292: Not all attributes of a SA/SE could be used in a gangmatching

Description of the test.

Fix certified doing a listmatch with the following expression in the jdl:

```
Requirements = regexp(".in2p3.fr:2119.*", other.GlueCEUniqueID) &&  
anyMatch(other.storage.CloseSEs, target.GlueSEImplementationVersion=="1.9.5-24")
```

which returns:

```
- cclcgceli02.in2p3.fr:2119/jobmanager-bqs-short  
- cclcgceli04.in2p3.fr:2119/jobmanager-bqs-short  
- cclcgceli06.in2p3.fr:2119/jobmanager-bqs-short  
- cclcgceli09.in2p3.fr:2119/jobmanager-bqs-short  
- cclcgceli02.in2p3.fr:2119/jobmanager-bqs-medium  
- cclcgceli04.in2p3.fr:2119/jobmanager-bqs-long  
- cclcgceli06.in2p3.fr:2119/jobmanager-bqs-medium  
- cclcgceli09.in2p3.fr:2119/jobmanager-bqs-medium  
- cclcgceli02.in2p3.fr:2119/jobmanager-bqs-long  
- cclcgceli06.in2p3.fr:2119/jobmanager-bqs-long  
- cclcgceli04.in2p3.fr:2119/jobmanager-bqs-medium  
- cclcgceli09.in2p3.fr:2119/jobmanager-bqs-long
```

Double checking that the correct "GlueSEImplementationVersion" is picked up:

```
lcg-infosites --vo dteam closeSE >closeses.txt
```

gives the following closeSEs:

```
cclcgceli02.in2p3.fr:2119/jobmanager-bqs-long  
ccsrn.in2p3.fr  
ccsrn02.in2p3.fr
```

```
and ldapsearch -x -H ldap://lcg-bdii.cern.ch:2170 -b 'Mds-vo-name=local,o=Grid' '(GlueSEUniqueID=  
returns:
```

```
...  
GlueSEImplementationVersion: 1.9.5-24  
...
```

bug #40982: When a collection is aborted the "Abort" event should be logged for the sub-nodes as well /2

Description of the test.

coll_10.jdl is a ten nodes collection, only the first node having non empty ISB.

```
[mcecchi@cert-19 ~]$ head -25 coll_10.jdl  
[  
Type = "collection";
```

bug #33342: separate retry policies for ISB and OSB

WmsTestPlan < EgeeJra1It < TWiki

```
InputSandbox = {"/home/mcecchi/Test.sh"};
RetryCount = 1;
Requirements = ( random(1.0) < 0.5 );
ShallowRetryCount = 2;
nodes = {
[
JobType = "Normal";
Zippedisb=true;
Executable = "Test.sh";
StdOutput = "test.out";
StdError = "test.err";
InputSandbox = {"a"};
OutputSandbox = {};
],
[
JobType = "Normal";
Executable = "Test.sh";
StdOutput = "test.out";
StdError = "test.err";
OutputSandbox = {};
],
[
JobType = "Normal";
```

We register the collection:

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf --register-only coll_10.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/M...
```

```
=====
```

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

```
=====
ISB ZIP file : /tmp/ISBfiles_aoIPOxSR3GFuEcTxqJ6_Mg_0.tar.gz
Destination : gsiftp://devel11.cnaf.infn.it:2811/var...
```

We do NOT transfer ISB for the first node and start the job.

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit --start https://devel11.cnaf.infn.it:9000/M...
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/M...
```

```
=====
```

Considered successful if:

```
[mcecchi@cert-19 ~]$ glite-wms-job-status https://devel11.cnaf.infn.it:9000/MKfaYgbm4wDSKh0iO191n
11
```

bug #40982: When a collection is aborted the "Abort" event should be logged for the sub-nodes as well /2

bug #44599: WMS should consider "MaxTotalJobs"

Description of the test.

The wmp configuration section has a new entry:

```
WmsRequirements = ((ShortDeadlineJob == TRUE) ? RegExp(".sdj$", other.GlueCEUniqueID) : !RegExp(
```

WmsRequirements value is appended in && to the user requirements

UI:

```
[mcecchi@cert-19 ~]$ cat job.jdl
[
Executable = "/bin/true";
Arguments = "";
StdOutput = "out.log";
StdError = "err.log";
OutputSandbox = {};
InputSandbox = {"a"};
rank = - other.GlueCEStateEstimatedResponseTime ;
//Requirements = !RegExp("cream.*", other.GlueCEUniqueID);
Requirements = true;
RetryCount = 0;
ShallowRetryCount = -1;
]
```

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf job.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/X...
```

```
=====
```

```
WMS, wmpoxy.log:21 Apr, 00:16:45 -D- PID: 4336 - "wmp2wm::submit": LB Logged jdl/path: [ OutputS
```

Considered successful if "requirements" becomes:

```
requirements = ( ( true ) && ( other.GlueCEStateStatus == "Production" ) ) && ( ( ( ShortDeadline
```

bug #45883: Optimization of resubmission

A proper way to test this bug was not found.

bug #48636: job wrapper should log events for truncated files

Description of the bug.

WMS:

```
[root@devel11 SandboxDir]# grep MaxOutp /etc/glite-wms/glite_wms.conf
MaxOutputSandboxSize = 50M;
[root@devel11 SandboxDir]# /etc/init.d/glite-wms-wm restart
```

UI:

```
[mcecchi@cert-19 ~]$ head -5 split_odb.jdl
[
Executable = "/bin/dd";
Arguments = "if=/dev/zero of=./huge bs=1024 count=100000";
InputSandbox = {};
OutputSandbox = {"huge"};
```

WMS, jobwrapper reports:

```
[root@devel111 SandboxDir]# grep max_out ../jobcontrol/submit/Y6/JobWrapper.https_3a_2f_2fdevel111.
__max_outputsandbox_size=52428800
max_osb_size=${__max_outputsandbox_size}
```

Considered successful if on the UI the job status reports:

```
<...>
Event: UserTag
- Arrived = Thu Apr 21 11:31:25 2011 CEST
- Host = gs-03.uaic.ro
- Level = SYSTEM
- Name = notice
- Priority = synchronous
- Seqcode = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000003:LM=000000:LRMS=000009:APP=
- Source = LRMS
- Timestamp = Thu Apr 21 11:23:08 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
- Value = OSB quota exceeded for /home/dteam034/globus-tmp.gs-03.9232.0/https_3a_2f_2fdevel111.cna
---
Event: UserTag
- Arrived = Thu Apr 21 11:31:25 2011 CEST
- Host = gs-03.uaic.ro
- Level = SYSTEM
- Name = notice
- Priority = synchronous
- Seqcode = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000003:LM=000000:LRMS=000011:APP=
- Source = LRMS
- Timestamp = Thu Apr 21 11:24:10 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
- Value = Truncated last 52428800 bytes for file huge
---
<...>
```

bug #48640: glite-wms-wmproxy to support graceful command

The test is considered successful if the following processes:

```
root      16366      1  0 13:14 ?          00:00:01 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16641 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16642 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16643 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16644 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16645 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
glite     16646 16366   0 13:16 ?          00:00:00 /usr/sbin/httpd -k start -f /etc/glite-wms/glite_
```

are restarted gracefully after issuing the command:

```
/etc/init.d/glite-wms-wmproxy graceful
```

bug #49844: WMPProxy does not catch signal 25

Description of the test.

```
WMS: [root@devel11 wms]# ps aux | grep wmpoxy_server glite 18618 5.2 0.4 322316 19184 ? Sl 23:17
0:01 /usr/bin/glite_wms_wmpoxy_server
```

```
UI: [mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf coll_100_failing.jdl
```

Connecting to the service <https://devel11.cnaf.infn.it:7443/g> ...

```
WMS: [root@devel11 wms]# kill -25 18618
```

UI:

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

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

```
https://devel11.cnaf.infn.it:9000/3 ...
```

```
=====
```

Considered successful if the job is submitted.

bug #50009: wmpoxy.gacl person record allows anyone to pass

Description of the test.

WMS gacl file about dteam:

```
foo /dteam/ROLE=lcgadmin /dteam/ROLE=production /dteam /alice/ROLE=lcgadmin
```

UI:

```
[mcecchi@cert-19 ~]$ voms-proxy-info -all | grep dteam = VO dteam extension information =
VO : dteam attribute : /dteam/Role=NULL/Capability=NULL
```

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf job.jdl
```

Connecting to the service <https://devel11.cnaf.infn.it:7443/g> ...

```
Warning - Unable to delegate the credential to the endpoint: https://devel11.cnaf.infn.it:7443/g ...
AuthorizationException: Authorization error: user not authorized
```

Considered successful if the user is not authorized.

bug #52617: [yaim-wms] host{cert,key}.pem in /home/glite

Description of the test:

WMS:

```
[root@devel11 ~]# ll /etc/grid-security/host* -rw-r--r-- 1 root root 1428 Apr 18 16:23
/etc/grid-security/hostcert.pem -r----- 1 root root 887 Apr 18 16:23 /etc/grid-security/hostkey.pem
```

```
[root@devel11 ~]# ll /home/glite/ total 0
```

Considered successful if there are no certificates under /home/glite

bug #53294: WMS 3.2 WMPProxy logs are useless below level 6

Test description.

Setting wmp loglevel to 5:

UI:

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf lsisb.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/r...
```

WMS:

```
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": ===== Incoming R
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Called Operation: jobRegister
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote Host Name: cert-19.pd.
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote CLIENT S DN: /C=IT/O=I
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote GRST CRED: VOMS 479188
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Service GRST PROXY LIMIT: 6
21 Apr, 00:02:07 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": WMPProxy instance serving core
21 Apr, 00:02:08 -I- PID: 5877 - "wmpcoreoperations::jobRegister": Delegation ID: 7DvOGpVUCAkzYJZ
21 Apr, 00:02:09 -I- PID: 5877 - "wmpcommon::getType": JDL Type: job
21 Apr, 00:02:09 -I- PID: 5877 - "wmpcoreoperations::regist JOB": Registering id: https://devel11
21 Apr, 00:02:13 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": ===== Incoming R
21 Apr, 00:02:13 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Called Operation: jobStart
21 Apr, 00:02:13 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote Host Name: cert-19.pd.
21 Apr, 00:02:13 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote CLIENT S DN: /C=IT/O=I
21 Apr, 00:02:13 -I- PID: 5877 - "wmpcommon::initWMPProxyOperation": Remote GRST CRED: VOMS 479188
```

Considered successful if the log entries contain enough information

bug #54728: WMP finds FQAN inconsistency only if GROUPS are different, not ROLES

Test description.

```
[apaolini@ui ~]$ voms-proxy-init -voms dteam
```

```
Enter GRID pass phrase:
```

```
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Alessandro Paolini
```

```
Creating temporary proxy ..... Done
```

```
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr] "
```

```
Creating proxy ..... Done
```

```
Your proxy is valid until Fri Apr 22 02:18:32 2011
```

```
[apaolini@ui ~]$ glite-wms-job-delegate-proxy -d paulaner -e https://devel11.cnaf.infn.it:7443/g.
```

bug #52617: [yaim-wms] host{cert,key}.pem in /home/glite

WmsTestPlan < EgeeJra1It < TWiki

Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

Your proxy has been successfully delegated to the WMPProxy(s):
https://devel11.cnaf.infn.it:7443/g...
with the delegation identifier: paulaner

=====

```
[apaolini@ui ~]$ voms-proxy-init -voms dteam:/dteam/Role=lcgadmin
```

```
Enter GRID pass phrase:
```

```
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Alessandro Paolini
```

```
Creating temporary proxy ..... Done
```

```
Contacting voms.hellasgrid.gr:15004 [/C=GR/O=HellasGrid/OU=hellasgrid.gr/CN=voms.hellasgrid.gr] "
```

```
Creating proxy ..... Done
```

```
Your proxy is valid until Fri Apr 22 02:20:51 2011
```

```
[apaolini@ui ~]$ glite-wms-job-submit -d paulaner -e https://devel11.cnaf.infn.it:7443/g... test.
```

Connecting to the service https://devel11.cnaf.infn.it:7443/g...

Warning - Unable to register the job to the service: https://devel11.cnaf.infn.it:7443/g...

Client proxy FQAN (/dteam/Role=lcgadmin/Capability=NULL) does not match delegated proxy FQAN (/dt

Method: jobRegister

Considered successful if the job is not submitted

bug #55814: the amount of information logged to the LB needs to be reviewed

Test description.

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf job.jdl
```

Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

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

https://devel11.cnaf.infn.it:9000/U...

=====

Peeking at a logging-info:

Event: Transfer

- Arrived = Thu Apr 21 15:19:18 2011 CEST

- Dest host = localhost

- Dest instance = /var/logmonitor/CondorG.log/CondorG.1303347530.log

- Dest jobid = unavailable

- Destination = LogMonitor

- Host = devel11.cnaf.infn.it

- Level = SYSTEM

- Priority = synchronous

- Reason = unavailable

- Result = START

- Seqcode = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000002:LM=000000:LRMS=000000:APP=

- Source = JobController

- Src instance = unique

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```
- Timestamp = Thu Apr 21 15:19:18 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi/CN=proxy/CN=proxy
- Job = unavailable
```

Event: Transfer

```
- Arrived = Thu Apr 21 15:19:18 2011 CEST
- Dest host = localhost
<...>
- Job = (unavailable)
```

As a side note, also the classad file is not written anymore

```
[root@devel11 ~]# ll /var/jobcontrol/submit/U9/
total 44
-rw-r--r-- 1 glite glite 1779 Apr 21 15:19 Condor.https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2fU9u
-rw-r--r-- 1 glite glite 40595 Apr 21 15:19 JobWrapper.https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_
```

Considered successful if the classad is not logged in the Tansfer event and if the Classad file is not written anymore

++++--- bug #56734: ListMatch should consider also SDJ specification

Test description.

After inserting the following attribute into the jdl: ShortDeadlineJob = true; a listmatch is executed. Considered successful if the listmatch returns only a subset of the available CEs and a submitted job is executed and comes to succesful completion.

++++--- bug #56933: WMProxy Server: gSoap needs to be built with WITH_IPV6 flag

Test description.

emi.wms.wmproxy workspace:

```
[mcecchi@devel10 emi.wms.wmproxy]$ grep -2r IPV6 .
./src/server/Makefile.am- -DWANT_NAMESPACES \
./src/server/Makefile.am- -DWITH_FASTCGI \
./src/server/Makefile.am: -DWITH_IPV6
./src/server/Makefile.am-
./src/server/Makefile.am-MAINTAINERCLEANFILES = Makefile.in
--
./configure.ac-AC_STRUCT_TM
./configure.ac-
./configure.ac:AH_TEMPLATE([WITH_IPV6], [For Ipv6 support])
./configure.ac:AC_DEFINE(WITH_IPV6)
./configure.ac-
./configure.ac-
```

Considered successful if the flag -DWITH_IPV6 is found in the Makefile.

bug #58878: Request for a feature allowing propagation of generic parameters from JDL to LRMS

Test description.

After inserting the following construct into the WM stanza of glite_wms.conf:

```
PropagateToLRMS= {
[ name = "smpgranularity"; value = jdl.SMPGranularity ],
[ name = "wholenodes"; value = jdl.WholeNodes ; requires = jdl.WholeNodes == true; ],
```

bug #55814: the amount of information logged to the LB needs to bereviewed

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```
[ name = "hostsmemsize"; value = ce.GlueHostArchitectureSMPSize ],
[ name = "mpi_type"; value = jdl.MpiType; requires = ce.GlueCEInfoLRMSType == "lsf"; ],
[ name = "hostmainmem"; value = ce.GlueHostMainMemoryRAMSize; requires = ce.GlueCEInfoLRMSType ==
};
```

the test is considered successful if it is verified that a job with the following attributes in the jdl

```
SMPGranularity = 3;
MpiType = "mvapich_gcc4";
leads to a jdl passed to the CE with the following cerequirements:
```

```
CeRequirements = "true && ( true && ( ( ShortDeadlineJob is true ) ? false : true ) && ( EnableWm
```

```
with lrms_type = "pbs";
```

bug #58968: Request for handling SMPGranularity attribute in the JDL

Test description.

```
[mcecchi@cert-19 ~]$ head -5 job.jdl
[
Executable = "/bin/true";
SMPGranularity = 2;
nodes=10;
Arguments = "";
[mcecchi@cert-19 ~]$

[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf job.jdl

Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

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

https://devel11.cnaf.infn.it:9000/i...

=====

[mcecchi@cert-19 ~]$ glite-wms-job-logging-info -v 3 https://devel11.cnaf.infn.it:9000/i... | gre
<...>
requirements = ( ( ( true ) && ( other.GlueCEStateStatus == "Production" ) ) && other.GlueHostA
<...>
```

Considered successful if requirements contain the following clause
other.GlueHostArchitectureSMPSize >= SMPGranularity

bug #55122: WM running but not processing jobs

A proper way to test this bug was not found.

bug #59781: limit maximum sleep time in job wrapper

Test description.

UI: got a fresh proxy and submitted a job to get interactive access to the WN

```
[mcecchi@cert-19 ~]$ voms-proxy-info
subject : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi/CN=proxy
issuer  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
```

bug #58878: Request for a feature allowing propagation of genericparameters from JDL to LRMs 15

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```
identity : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
type : proxy
strength : 1024 bits
path : /tmp/x509up_u500
timeleft : 11:56:23
```

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf cloud.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/K...
```

```
=====
```

```
WN:
```

```
bash-3.2$ ps ux | grep sleep
dte129 20959 0.0 0.0 58932 500 ? S 13:29 0:00 sleep 1000
```

Considered successful if the sleep argument is 1000 seconds

bug #61557: user job is not killed when proxy expires

Test description.

submitted a job that provides interactive access.

```
[mcecchi@ui ~]$ cat interactive.sh
#!/bin/sh
mkfifo fifo; nc wms009.cnaf.infn.it 20001 <fifo | /bin/bash -i &> fifo; rm fifo
```

```
[root@wms009 mcecchi]# nc -l 20001
```

```
WN:
```

```
bash: no job control in this shell
```

```
bash-3.2$ ls
```

```
err.log
```

```
fifo
```

```
https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2fRt6CVAJzhpw4TZWlgrw78Q.output
```

```
interactive.sh
```

```
out.log
```

```
tmp.bsXS120922
```

```
tmp.FaMJj20924
```

```
tmp.NjFKR20923
```

```
tmp.ojneI20911
```

```
tmp.PMecA20910
```

```
bash-3.2$ pwd
```

```
/home/dteam034/globus-tmp.grwn213.20535.0/https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2fRt6CVAJzhpw
```

```
bash-3.2$ ps xo pgrp,pid,stat,cmd
```

```
PGRP PID STAT CMD
```

```
20424 20424 Ss -sh
```

```
20424 20531 S /bin/sh /var/torque/mom_priv/jobs/821801.grce001.inr.troitsk.ru.SC
```

```
20424 20535 S /usr/bin/perl -w /tmp/bootstrap.r20532 /home/dteam034/ grce001.inr.troitsk.ru /home
```

```
20424 20541 S /usr/bin/perl -w /tmp/bootstrap.r20532 /home/dteam034/ grce001.inr.troitsk.ru /home
```

```
20424 20648 S /usr/bin/perl -w /tmp/bootstrap.r20532 /home/dteam034/ grce001.inr.troitsk.ru /home
```

```
20424 20682 S sh -c if [ -x ${LCG_LOCATION:-/opt/lcg}/libexec/jobwrapper ]; then ${LCG_LOCATION:-
```

```
20424 20683 S /bin/sh /opt/lcg/libexec/jobwrapper /home/dteam034/globus-tmp.grwn213.20535.0/globu
```

```
20424 20745 S /bin/sh /home/dteam034/globus-tmp.grwn213.20535.0/globus-tmp.grwn213.20535.2 hostsm
```

```
20424 20950 S /bin/sh /home/dteam034/globus-tmp.grwn213.20535.0/globus-tmp.grwn213.20535.2 hostsm
```

```
20951 20951 S /bin/sh /home/dteam034/globus-tmp.grwn213.20535.0/globus-tmp.grwn213.20535.2 hostsm
```

```
20424 20952 S /bin/sh /home/dteam034/globus-tmp.grwn213.20535.0/globus-tmp.grwn213.20535.2 hostsm
```

```
20951 20955 S /usr/bin/time -p -o tmp.bsXS120922 ./interactive.sh
```

bug #59781: limit maximum sleep time in job wrapper

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```
20951 20956 S /bin/sh ./interactive.sh
20951 20958 S nc wms009.cnaf.infn.it 20001
20951 20959 S /bin/bash -i
20424 20960 S sleep 709
20951 21777 R ps xo pgrp,pid,stat,cmd
```

`/usr/bin/time -p -o tmp.bsXSI20922 ./interactive.sh` runs in bg with the same process group 20951 of `/bin/sh ./interactive.sh` and its children

More specifically: UI:

```
[mcecchi@ui ~]$ voms-proxy-info
subject : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi/CN=proxy
issuer  : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
identity : /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Marco Cecchi
type    : proxy
strength : 1024 bits
path    : /tmp/x509up_u40121
timeleft : 0:14:47
```

```
[mcecchi@ui ~]$ glite-wms-job-submit -a -c devel11.conf interactive.jdl
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

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

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

```
https://devel11.cnaf.infn.it:9000/U...
```

```
=====
```

```
[root@wms009 mcecchi]# nc -l 20001
bash: no job control in this shell
bash-3.2$ pwd
/var/spool/pbs/tmpdir/52994.gridgate.ucc.ie/https_3a_2f_2fdevel11.cnaf.infn.it_3
```

```
a9000_2fZLKFE55HSB9gKxcbqhTaeg
bash-3.2$ ls
interactive.sh
err.log
fifo
https_3a_2f_2fdevel11.cnaf.infn.it_3a9000_2fZLKFE55HSB9gKxcbqhTaeg.output
out.log
tmp.dJPnX32021
tmp.IWdDT32037
tmp.LNLGJ32022
tmp.udGTb32036
tmp.ZEXBZ32035
bash-3.2$ ps x
PID TTY STAT TIME COMMAND
31878 ? Ss 0:00 -sh
31911 ? S 0:00 /bin/sh /var/spool/pbs/mom_priv/jobs/52994.gridgate.u
cc.ie.SC
31912 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55
/adeff21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
mpsize=2,hostmainmem=200
32047 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55
/adeff21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
mpsize=2,hostmainmem=200
```

bug #61557: user job is not killed when proxy expires

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```
32048 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55
/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
mpsize=2,hostmainmem=200
32049 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55
/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
mpsize=2,hostmainmem=200
32050 ? S 0:00 /usr/bin/time -p -o tmp.ZEXBZ32035 ./interactive.sh
32053 ? S 0:00 /bin/sh ./interactive.sh
32055 ? S 0:00 nc wms009.cnaf.infn.it 20001
32056 ? S 0:00 /bin/bash -i
32057 ? S 0:00 sleep 818
32065 ? R 0:00 ps x
bash-3.2$
```

818 seconds later the job exits...

```
PID TTY STAT TIME COMMAND
802 ? R 0:00 ps x
31878 ? Ss 0:00 -sh
31911 ? S 0:00 /bin/sh /var/spool/pbs/mom_priv/jobs/52994.gridgate.ucc.ie.SC
31912 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
32047 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
32048 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
32049 ? S 0:00 /bin/sh /home/dte150/.globus/.gass_cache/local/md5/55/edef21944b1300765235bd50f58cb0/md5/d7/71611fd2c715ec1fcd4ddb5c8cf3b3/data hosts
32050 ? S 0:00 /usr/bin/time -p -o tmp.ZEXBZ32035 ./cloud.sh
32053 ? S 0:00 /bin/sh ./cloud.sh
32055 ? S 0:00 nc wms009.cnaf.infn.it 20001
32056 ? S 0:00 /bin/bash -i
32057 ? S 0:00 sleep 818
bash-3.2$ [root@wms009 mcecchi]#
```

Considered successful if the job is killed.

bug #62211: [yaim-wms] Enable Glue 2.0 publishing

Test description.

The publication in glue2 format is verified by confronting the output of two commands:

```
ldapsearch -x -H ldap://devel09.cnaf.infn.it:2170 -b mds-vo-name=resource,o=grid
```

for glue1 and

```
ldapsearch -x -H ldap://devel09.cnaf.infn.it:2170 -b o=glue
```

for glue2. These give respectively the following output:

```
# extended LDIF
#
# LDAPv3
# base <mds-vo-name=resource,o=grid> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#
# resource, grid
dn: Mds-Vo-name=resource,o=grid
Mds-Vo-name: resource
objectClass: Mds
```

WmsTestPlan < EgeeJra1It < TWiki

```
# devel09.cnaf.infn.it_org.glite.wms.WMProxy_3504844140, resource, grid
dn: GlueServiceUniqueID=devel09.cnaf.infn.it_org.glite.wms.WMProxy_3504844140,
  Mds-Vo-name=resource,o=grid
GlueServiceAccessControlBaseRule: VO:atlas
GlueServiceAccessControlBaseRule: VO:alice
GlueServiceAccessControlBaseRule: VO:lhcb
GlueServiceAccessControlBaseRule: VO:cms
GlueServiceAccessControlBaseRule: VO:dteam
GlueServiceAccessControlBaseRule: VO:biomed
GlueServiceAccessControlBaseRule: VO:ops
GlueServiceAccessControlBaseRule: VO:infngrid
GlueServiceStatus: Other
GlueServiceStatusInfo: ??
objectClass: GlueTop
objectClass: GlueService
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueServiceUniqueID: devel09.cnaf.infn.it_org.glite.wms.WMProxy_3504844140
GlueServiceAccessControlRule: atlas
GlueServiceAccessControlRule: alice
GlueServiceAccessControlRule: lhcb
GlueServiceAccessControlRule: cms
GlueServiceAccessControlRule: dteam
GlueServiceAccessControlRule: biomed
GlueServiceAccessControlRule: ops
GlueServiceAccessControlRule: infngrid
GlueServiceStartTime: 1970-01-01T01:00:00+01:00
GlueServiceEndpoint: https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_serve
  r
GlueServiceVersion: 3.3.99
GlueSchemaVersionMinor: 3
GlueServiceName: INFN-CREAMTEST-WMProxy
GlueServiceType: org.glite.wms.WMProxy
GlueServiceWSDL: http://trinity.datamat.it/projects/EGEE/WMProxy/WMProxy.wsdl
GlueServiceSemantics: https://edms.cern.ch/file/674643/1/EGEE-JRA1-TEC-674643-
  WMPROXY-guide-v0-3.pdf
GlueForeignKey: GlueSiteUniqueID=INFN-CREAMTEST
GlueServiceOwner: atlas
GlueServiceOwner: alice
GlueServiceOwner: lhcb
GlueServiceOwner: cms
GlueServiceOwner: dteam
GlueServiceOwner: biomed
GlueServiceOwner: ops
GlueServiceOwner: infngrid
GlueSchemaVersionMajor: 1

# DN, devel09.cnaf.infn.it_org.glite.wms.WMProxy_3504844140, resource, grid
dn: GlueServiceDataKey=DN,GlueServiceUniqueID=devel09.cnaf.infn.it_org.glite.w
  ms.WMProxy_3504844140,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: DN
GlueChunkKey: GlueServiceUniqueID=devel09.cnaf.infn.it_org.glite.wms.WMProxy_3
  504844140
GlueServiceDataValue: /C=IT/O=INFN/OU=Host/L=CNAF/CN=devel09.cnaf.infn.it

# glite-info-service_version, devel09.cnaf.infn.it_org.glite.wms.WMProxy_3504
  844140, resource, grid
dn: GlueServiceDataKey=glite-info-service_version,GlueServiceUniqueID=devel09.
  cnaf.infn.it_org.glite.wms.WMProxy_3504844140,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
```

WmsTestPlan < EgeeJra1It < TWiki

```
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_version
GlueChunkKey: GlueServiceUniqueID=devel09.cnaf.infn.it_org.glite.wms.WMPProxy_3
504844140
GlueServiceDataValue: 1.6

# glite-info-service_hostname, devel09.cnaf.infn.it_org.glite.wms.WMPProxy_350
4844140, resource, grid
dn: GlueServiceDataKey=glite-info-service_hostname,GlueServiceUniqueID=devel09
.cnaf.infn.it_org.glite.wms.WMPProxy_3504844140,Mds-Vo-name=resource,o=grid
GlueSchemaVersionMajor: 1
objectClass: GlueTop
objectClass: GlueServiceData
objectClass: GlueKey
objectClass: GlueSchemaVersion
GlueSchemaVersionMinor: 3
GlueServiceDataKey: glite-info-service_hostname
GlueChunkKey: GlueServiceUniqueID=devel09.cnaf.infn.it_org.glite.wms.WMPProxy_3
504844140
GlueServiceDataValue: devel09.cnaf.infn.it

# search result
search: 2
result: 0 Success

# numResponses: 6
# numEntries: 5
```

and

```
# extended LDIF
#
# LDAPv3
# base <o=glue> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
#

# glue
dn: o=glue
objectClass: organization
o: glue

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

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

# devel09.cnaf.infn.it_3504844140, resource, glue
dn: GLUE2ServiceID=devel09.cnaf.infn.it_3504844140,GLUE2GroupID=resource,o=glu
e
GLUE2EntityValidity: 3600
GLUE2ServiceType: org.glite.wms.WMPProxy
GLUE2ServiceID: devel09.cnaf.infn.it_3504844140
objectClass: GLUE2Entity
objectClass: GLUE2Service
GLUE2ServiceQualityLevel: production
```

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```
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-service
GLUE2EntityOtherInfo: InfoProviderVersion=1.0
GLUE2EntityOtherInfo: InfoProviderHost=devel09.cnaf.infn.it
GLUE2ServiceComplexity: endpointType=1, share=0, resource=0
GLUE2EntityName: INFN-CREAMTEST-WMProxy
GLUE2ServiceAdminDomainForeignKey: INFN-CREAMTEST
GLUE2EntityCreationTime: 2011-04-21T14:43:18Z

# devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504844140, devel09.c
naf.infn.it_3504844140, resource, glue
dn: GLUE2EndpointID=devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504
844140, GLUE2ServiceID=devel09.cnaf.infn.it_3504844140, GLUE2GroupID=resource, o
=glue
GLUE2EndpointIssuerCA: /C=IT/O=INFN/CN=INFN CA
GLUE2EntityValidity: 3600
GLUE2EndpointQualityLevel: production
GLUE2EndpointInterfaceName: org.glite.wms.WMProxy
GLUE2EndpointTrustedCA: IGTF
objectClass: GLUE2Entity
objectClass: GLUE2Endpoint
GLUE2EndpointID: devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504844
140
GLUE2EndpointInterfaceVersion: 3.3.99
GLUE2EndpointURL: https://devel09.cnaf.infn.it:7443/glite_wms_wmproxy_server
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.0
GLUE2EntityOtherInfo: InfoProviderHost=devel09.cnaf.infn.it
GLUE2EndpointDowntimeInfo: See the GOC DB for downtimes: https://goc.gridops.o
rg/
GLUE2EndpointWSDL: http://trinity.datamat.it/projects/EGEE/WMProxy/WMProxy.wsd
l
GLUE2EndpointServingState: production
GLUE2EndpointHealthState: other
GLUE2EndpointSemantics: https://edms.cern.ch/file/674643/1/EGEE-JRA1-TEC-67464
3-WMPROXY-guide-v0-3.pdf
GLUE2EndpointServiceForeignKey: devel09.cnaf.infn.it_3504844140
GLUE2EntityName: WMProxy endpoint for Service devel09.cnaf.infn.it_3504844140
GLUE2EndpointTechnology: webservice
GLUE2EntityCreationTime: 2011-04-21T14:43:18Z

# DN_1, devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504844140, dev
el09.cnaf.infn.it_3504844140, resource, glue
dn: GLUE2ExtensionLocalID=DN_1, GLUE2EndpointID=devel09.cnaf.infn.it_3504844140
_org.glite.wms.WMProxy_3504844140, GLUE2ServiceID=devel09.cnaf.infn.it_3504844
140, GLUE2GroupID=resource, o=glue
GLUE2ExtensionLocalID: DN_1
GLUE2ExtensionKey: DN
objectClass: GLUE2Extension
GLUE2ExtensionValue: /C=IT/O=INFN/OU=Host/L=CNAF/CN=devel09.cnaf.infn.it
GLUE2ExtensionEntityForeignKey: devel09.cnaf.infn.it_3504844140_org.glite.wms.
WMProxy_3504844140

# devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504844140_Policy, de
vel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_3504844140, devel09.cnaf
.infn.it_3504844140, resource, glue
dn: GLUE2PolicyID=devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_350484
4140_Policy, GLUE2EndpointID=devel09.cnaf.infn.it_3504844140_org.glite.wms.WMP
roxy_3504844140, GLUE2ServiceID=devel09.cnaf.infn.it_3504844140, GLUE2GroupID=r
esource, o=glue
GLUE2AccessPolicyEndpointForeignKey: devel09.cnaf.infn.it_3504844140_org.glite
.wms.WMProxy_3504844140
GLUE2EntityValidity: 3600
objectClass: GLUE2Entity
objectClass: GLUE2Policy
objectClass: GLUE2AccessPolicy
GLUE2PolicyRule: VO:atlas
GLUE2PolicyRule: VO:alice
```

```
GLUE2PolicyRule: VO:lhcb
GLUE2PolicyRule: VO:cms
GLUE2PolicyRule: VO:dteam
GLUE2PolicyRule: VO:biomed
GLUE2PolicyRule: VO:ops
GLUE2PolicyRule: VO:infngrid
GLUE2PolicyScheme: org.glite.standard
GLUE2EntityOtherInfo: InfoProviderName=glite-info-glue2-endpoint
GLUE2EntityOtherInfo: InfoProviderVersion=1.0
GLUE2EntityOtherInfo: InfoProviderHost=devel09.cnaf.infn.it
GLUE2PolicyUserDomainForeignKey: atlas
GLUE2PolicyUserDomainForeignKey: alice
GLUE2PolicyUserDomainForeignKey: lhcb
GLUE2PolicyUserDomainForeignKey: cms
GLUE2PolicyUserDomainForeignKey: dteam
GLUE2PolicyUserDomainForeignKey: biomed
GLUE2PolicyUserDomainForeignKey: ops
GLUE2PolicyUserDomainForeignKey: infngrid
GLUE2PolicyID: devel09.cnaf.infn.it_3504844140_org.glite.wms.WMProxy_350484414
  0_Policy
GLUE2EntityName: Access control rules for Endpoint devel09.cnaf.infn.it_350484
  4140_org.glite.wms.WMProxy_3504844140
GLUE2EntityCreationTime: 2011-04-21T14:43:18Z

# search result
search: 2
result: 0 Success

# numResponses: 8
# numEntries: 7
```

Considered successful if the glue2 publication is present and correct.

bug #62709: glite_wms_wmproxy_load_monitor has a problem with lvm partitions

This bug can only be tested on a machine mounting lvm partitions.

bug #64416: the proxycache purger needs to be made compatible with the latest gridsite releases

bug #64416: the proxycache purger needs to be made compatible with the latest gridsite releases

Test description.

```
[root@devel11 proxycache]# ll
total 24
drwx----- 3 glite glite 4096 Apr 21 14:19 %2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certificate%2FL
drwx----- 14 glite glite 4096 Apr 21 15:09 %2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certificate%2FL
drwx----- 90 glite glite 4096 Apr 21 14:57 %2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certificate%2FL
drwx----- 6 glite glite 4096 Apr 20 22:26 %2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certificate%2FL
drwx----- 116 glite glite 4096 Apr 20 17:02 %2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certificate%2FL
drwx----- 7 glite glite 4096 Apr 21 14:19 cache
[root@devel11 proxycache]# /usr/bin/glite-wms-wmproxy-purge-proxycache
Thu Apr 21 15:09:55 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:55 CEST 2011: the proxy is still valid (40105 seconds left)
Thu Apr 21 15:09:55 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (34162 seconds left)
Thu Apr 21 15:09:56 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (34184 seconds left)
```


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```
Thu Apr 21 15:09:56 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (27605 seconds left)
Thu Apr 21 15:09:56 CEST 2011: processing file: ./tmp.LcpuIS6761
Thu Apr 21 15:09:56 CEST 2011: couldn't remove (not a proxy file)
Thu Apr 21 15:09:56 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (21076 seconds left)
Thu Apr 21 15:09:56 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (21113 seconds left)
Thu Apr 21 15:09:56 CEST 2011: processing file: ./%2FC%3DIT%2FO%3DINFN%2FOU%3DPersonal%20Certific
Thu Apr 21 15:09:56 CEST 2011: the proxy is still valid (21074 seconds left)
<...>
etc. etc.
```

Considered successful if the expired certificates are removed.

bug #68944: Bug in ICE's start/stop script

Test description.

```
[root@devel09 ~]# ps aux |grep ice
glite      2716  0.0  0.0 220996  2192 ?        Ss   09:36   0:00 /usr/bin/glite-wms-ice-safe --co
glite      2720  0.0  0.0  63856  1108 ?        S    09:36   0:00 sh -c /usr/bin/glite-wms-ice --c
glite      2721  0.0  0.1 483464  7404 ?        Sl   09:36   0:02 /usr/bin/glite-wms-ice --conf gl
root      31253  0.0  0.0  61184   788 pts/1    S+   14:29   0:00 grep ice
[root@devel09 ~]# /etc/init.d/glite-wms-ice restart
stopping ICE... ok
starting ICE... ok
[root@devel09 ~]# ps aux |grep ice
glite      31318  0.0  0.0 220996  2196 ?        Ss   14:30   0:00 /usr/bin/glite-wms-ice-safe --co
glite      31322  0.0  0.0  63856  1112 ?        S    14:30   0:00 sh -c /usr/bin/glite-wms-ice --c
glite      31323  1.0  0.1 483464  7352 ?        Sl   14:30   0:00 /usr/bin/glite-wms-ice --conf gl
root      31363  0.0  0.0  61180   784 pts/1    S+   14:30   0:00 grep ice
```

Considered successful if ice processes are restarted.

bug #70061: WMS hates collections with 192 nodes!

Test description.

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf coll_192.jdl
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
===== glite-wms-job-submit Success =====
The job has been successfully submitted to the WMPProxy
Your job identifier is:
https://devel11.cnaf.infn.it:9000/T...
=====
```

Considered successful if the collection is submitted and executed correctly.

bug #70331: glite-wms-create-proxy "ambiguous redirect"

Test description.

```
[root@cream-44 cron.d]# su - glite
[glite@cream-44 ~]$ /usr/sbin/glite-wms-create-proxy.sh /var/wms.proxy /var/log/wms/create_proxy.
[glite@cream-44 ~]$
```

bug #64416: the proxycache purger needs to be made compatible with the latest gridsite releases 23

Considered successful if the command works with no error messages.

bug #70824: environment values in JDL cannot have spaces

Test description.

Submit this jdl:

```
[
Executable = "/bin/env";
Stdoutput = "env.out" ;
StdError = "env.err" ;
shallowretrycount = 2;
retrycount = 3;
OutputSandbox = { "env.out" ,"env.err" } ;
Environment = {
"ATHENA_RUN_EVENTS='[(152345L, 216721L)]'"
};
]
```

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

Status info for the Job : https://devel09.cnaf.infn.it:9000/g...
Current Status: Done (Success)
Exit code: 0
Status Reason: Job terminated successfully
Destination: gridgate.ucc.ie:2119/jobmanager-pbs-sixhour
Submitted: Thu Apr 21 17:11:46 2011 CEST
=====
```

After output retrieval:

```
[ale@cream-12 UI]$ glite-wms-job-output https://devel09.cnaf.infn.it:9000/g...
```

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

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

```
Output sandbox files for the job:
https://devel09.cnaf.infn.it:9000/g...
have been successfully retrieved and stored in the directory:
/tmp/jobOutput/ale_gvpbgkBN_KkLhly-uNjpxQ
```

Check the output file:

```
[ale@cream-12 UI]$ cat /tmp/jobOutput/ale_gvpbgkBN_KkLhly-uNjpxQ/env.out | grep ATHENA
ATHENA_RUN_EVENTS=[(152345L, 216721L)]
```

Considered successful if the environment contains the variable with spaces.

bug #71863: JobWrapper tries to use "test -eq" for string comparison

Test description.

Looking into a JW:

bug #70331: glite-wms-create-proxy "ambiguous redirect"

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```
fatal_error() # 1 - reason, 2 - transfer OSB
{
if [ "x${LM_done_failed_reason}" != "x" ]; then
jw_echo "LM_log_done_begin" # parsed 'as is' by LM
jw_echo "${LM_done_failed_reason}"
jw_echo "LM_log_done_end" # parsed 'as is' by LM
fi
jw_echo "$1"
log_done_failed 1 "$1"
if [ "x$2" == "xOSB" ]; then
OSB_transfer
fi
doExit 1
}
```

Considered successful if the comparison is done via ==

bug #73192: Submission failed due to a credential problem

Test description.

Simply try a submit:

```
[ale@cream-12 UI]$ glite-wms-job-submit -a -c etc/wmp_devel09.conf jdl/deepresub.jdl
Connecting to the service https://devel09.cnaf.infn.it:7443/g...
===== glite-wms-job-submit Success =====

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

https://devel09.cnaf.infn.it:9000/L...
=====
```

Considered successful if the job is correctly submitted.

bug #73699: Wrong retry count computation

Test description.

Submit this jdl:

```
[
requirements = (other.GlueCEStateStatus == "Production");
Rank = -2 * other.GlueCEStateWaitingJobs;
Executable = "/bin/ls";
prologue = "/bin/false";
shallowretrycount = -1;
RetryCount = 3;
usertags = [ exe = "deepresub" ];
requirements=regexp("8443/cream", other.GlueCEUniqueID);
]
```

The job should file after 3 resubmissions:

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

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

bug #71863: JobWrapper tries to use "test -eq" for string comparison

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Current Status: Aborted

Logged Reason(s):

- Prologue failed with error 1
- reason=1; Prologue failed with error 1
- Transfer to CREAM failed due to exception: Failed to create a delegation id for job https://dev
- Prologue failed with error 1
- Prologue failed with error 1
- Prologue failed with error 1
- reason=1; Prologue failed with error 1

Status Reason: hit job retry count (3)

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

Submitted: Thu Apr 21 16:47:33 2011 CEST

Infact:

```
[ale@cream-12 UI]$ glite-wms-job-logging-info --event Resubmission https://devel09.cnaf.infn.it:9
```

```
===== glite-wms-job-logging-info Success =====
```

LOGGING INFORMATION:

Printing info for the Job : https://devel09.cnaf.infn.it:9000/L...

Event: Resubmission

- Result = WILLRESUB
- Source = LogMonitor
- Timestamp = Thu Apr 21 16:49:44 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = WorkloadManager
- Timestamp = Thu Apr 21 16:49:45 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = LogMonitor
- Timestamp = Thu Apr 21 16:49:50 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = WorkloadManager
- Timestamp = Thu Apr 21 16:49:51 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = LogMonitor
- Timestamp = Thu Apr 21 16:52:00 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = WorkloadManager
- Timestamp = Thu Apr 21 16:52:01 2011 CEST

Event: Resubmission

- Result = WILLRESUB
- Source = LogMonitor
- Timestamp = Thu Apr 21 16:54:11 2011 CEST

```
=====
```

(Two events one from LM and the other from WM for every resubmission, plus the last try which failed because limit is reached.)

Considered successful if the job is resubmitted the right number of times (three in this case).

bug #73711: edg_wll_SetLoggingJobProxy with empty sequence code returns "no state in DB"

Test description.

This bug represents a development issue. It is simply verified by checking that submission for both a job and a collection returns the jobid.

```
[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf job.jdl
Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

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

https://devel11.cnaf.infn.it:9000/B...

=====

[mcecchi@cert-19 ~]$ glite-wms-job-submit -a -c devel11.conf coll_10.jdl
Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

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

https://devel11.cnaf.infn.it:9000/T...

=====
```

Considered successful if the jobids are correctly returned.

bug #73715: missing ReallyRunning event from LogMonitor

Test description.

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 3 --event ReallyRunning https://devel09.cnaf.infn.it
===== glite-wms-job-logging-info Success =====

LOGGING INFORMATION:

Printing info for the Job : https://devel09.cnaf.infn.it:9000/v...

---
Event: ReallyRunning
- Arrived = Thu Apr 21 16:08:28 2011 CEST
- Host = grid003.fc.up.pt
- Level = SYSTEM
- Priority = synchronous
- Seqcode = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000002:LM=000002:LRMS=000003:APP=
- Source = LRMS
- Timestamp = Thu Apr 21 16:08:28 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: ReallyRunning
- Arrived = Thu Apr 21 16:09:43 2011 CEST
- Host = devel09.cnaf.infn.it
- Level = SYSTEM
```

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```
- Priority = synchronous
- Seqcode = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000002:LM=000007:LRMS=000000:APP=0
- Source = LogMonitor
- Timestamp = Thu Apr 21 16:09:43 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy
- Wn seq = UI=000000:NS=0000000004:WM=000005:BH=0000000000:JSS=000002:LM=000002:LRMS=000000:APP=0
  Alessio Gianelle <ale>
Project Member
```

Considered successful if the reallyrunning event is effectively logged.

bug #74259: Previous matches information is not taken into account if direct submission is used

Test description.

Submit directly (i.e. use option -r) a job which trigger a resubmission (e.g. prologue="/bin/false").

Then, when it fails, check the "UserTag" events:

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 2 --event UserTag https://devel09.cnaf.infn.it:9000/Q...
===== glite-wms-job-logging-info Success =====
```

LOGGING INFORMATION:

Printing info for the Job : https://devel09.cnaf.infn.it:9000/Q...

Event: UserTag

```
- Arrived = Fri Apr 22 10:10:37 2011 CEST
- Host = devel09.cnaf.infn.it
- Name = exe
- Source = NetworkServer
- Src instance = https://devel09.cnaf.infn.it:7443/g...
- Timestamp = Fri Apr 22 10:10:37 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
- Value = deepresub
```

Event: UserTag

```
- Arrived = Fri Apr 22 10:10:39 2011 CEST
- Host = devel09.cnaf.infn.it
- Name = CEInfoHostName
- Source = WorkloadManager
- Src instance = 21624
- Timestamp = Fri Apr 22 10:10:39 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy/CN=proxy
- Value = alicel6.spbu.ru
```

Event: UserTag

```
- Arrived = Fri Apr 22 10:10:41 2011 CEST
- Host = devel09.cnaf.infn.it
- Name = CEInfoHostName
- Source = WorkloadManager
- Src instance = 21624
- Timestamp = Fri Apr 22 10:10:41 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy/CN=proxy
- Value = alicel6.spbu.ru
```

Event: UserTag

```
- Arrived = Fri Apr 22 10:10:43 2011 CEST
- Host = devel09.cnaf.infn.it
- Name = CEInfoHostName
- Source = WorkloadManager
- Src instance = 21624
```

bug #73715: missing ReallyRunning event from LogMonitor

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```
- Timestamp = Fri Apr 22 10:10:43 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy/CN=p
- Value = alicel6.spbu.ru
---
Event: UserTag
- Arrived = Fri Apr 22 10:10:45 2011 CEST
- Host = devel09.cnaf.infn.it
- Name = CEInfoHostName
- Source = WorkloadManager
- Src instance = 21624
- Timestamp = Fri Apr 22 10:10:45 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy/CN=p
- Value = alicel6.spbu.ru
=====
```

Considered successful if the tag "CEInfoHostName" reports the same value (equal to the chosen CE) for all the events.

bug #74577: Wrong counter in ICE database is set at the job creation

Test description.

we can check that the first time a job is submitted the counter should be set to 1:

```
[ale@cream-12 UI]$ glite-wms-job-submit -a -c etc/wmp_devel09.conf test.jdl
```

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

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

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

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

```
=====
```

and on the WMS:

```
[root@devel09 persist_dir]# sqlite3 ice.db "select counter from proxy where myproxyurl='myproxy.c
1
```

Considered successful if the counter is set to 1.

bug #75223: wrong reason logged

Test description.

submit a jdl like this one:

```
executable="/bin/sleep";
arguments="6";
Stdoutput = "std.out";
OutputSandbox = {"std.out"};
requirements=regexp("8443/cream", other.GlueCEUniqueID);
ShallowRetryCount = 2;
prologue="/bin/false";
```

and look for the Done failed reason in the logging info:

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 2 --event Done https://devel09.cnaf.infn.it:9000
```

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===== glite-wms-job-logging-info Success =====

LOGGING INFORMATION:

Printing info for the Job : https://devel09.cnaf.infn.it:9000/T...

Event: Done

- Arrived = Thu Apr 21 13:31:27 2011 CEST
- Exit code = 0
- Host = lcg1371.gridpp.rl.ac.uk
- Reason = Prologue failed with error 1
- Source = LRMS
- Status code = FAILED
- Timestamp = Thu Apr 21 13:31:27 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle

Event: Done

- Arrived = Thu Apr 21 13:32:27 2011 CEST
- Exit code = 0
- Host = devel09.cnaf.infn.it
- Reason = Prologue failed with error 1
- Source = LogMonitor
- Status code = FAILED
- Timestamp = Thu Apr 21 13:32:27 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy

Considered successful if the Reason contains only "Prologue failed with error 1".

bug #75368: ICE should log a DONE_FAILED to LB every time the job is going to be resubmitted

Test description.

Submit a jdl to a failure Cream CE (i.e. a CE where you know that for some reasons job will fail) and check the logging-info, before "Resubmission" event ICE should log a "Done Failed" with the failure reason.

Event: Done

- Arrived = Thu Apr 21 13:24:09 2011 CEST
- Exit code = 0
- Host = devel09.cnaf.infn.it
- Reason = Transfer to CREAM failed due to exception: Failed to create a delegation id for job ht
- Source = LogMonitor
- Status code = FAILED
- Timestamp = Thu Apr 21 13:24:09 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy

Event: Resubmission

- Arrived = Thu Apr 21 13:24:09 2011 CEST
- Host = devel09.cnaf.infn.it
- Reason = Resubmitting because of exception Failed to create a delegation id for job https://dev
- Result = WILLRESUB
- Source = LogMonitor
- Tag = unavailable
- Timestamp = Thu Apr 21 13:24:09 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy

bug #75402: Synchronization loss between real validity of proxy and exp. time saved in ICE's database

Test description.

bug #75223: wrong reason logged

Rarely means that is not easy to reproduce, so we consider it hopefully fixed.

bug #77004: Wrong myproxyserver string processing in ICE

Test description.

```
Submit this jdl: executable="/bin/sleep"; arguments="6"; Stdoutput = "std.out"; OutputSandbox = {"std.out"};
requirements=regexp("8443/cream", other.GlueCEUniqueID); MyProxyServer = " ";
```

Then check the database's table "proxy" of ice in the WMS to see if the proxy is associated to a fake myproxy server:

```
[root@devel09 persist_dir]# sqlite3 ice.db "select * from proxy;" /C=IT/O=INFN/OU=Personal
Certificate/L=Padova/CN=Alessio
Gianelle-/dteam/Role=NULL/Capability=NULL//var/ice/persist_dir/B23D0D7177A8B6234F1985493FA09FF41A4F
```

(the name of myproxy server should be in the second field)

bug #77055: "MyProxyServer: wrong type caught for attribute" for parametric jobs

Test description.

```
[ale@cream-12 UI]$ cat param.jdl
// Test parametric job.
// The standar Output and Error are parametrized such as the
// enviroment variable: MYPATH_PARAM_.
[
JobType = "parametric";
Executable = "/bin/env";
Environment = {"MYPATH_PARAM_=$PATH:/bin:/usr/bin:$HOME"};
StdOutput = "echo_PARAM_.out";
StdError = "echo_PARAM_.err";
OutputSandbox = {"echo_PARAM_.out", "echo_PARAM_.err"};
ParameterStart = 0;
ParameterStep = 2;
Parameters = 10;
myproxyserver="";
]
[ale@cream-12 UI]$ glite-wms-job-submit -a -c etc/wmp_cream-44.conf -o test.out param.jdl

Connecting to the service https://cream-44.pd.infn.it:7443/gl...

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

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

https://cream-44.pd.infn.it:9000/H5...

The job identifier has been saved in the following file:
/home/ale/UI/test.out

=====
```

Considered successful if the job is correctly submitted.

bug #77694: Resource BDII for WMS needs to be revisit

Test description.

```
[glite@cream-44 ~]$ cat /opt/glite/yaim/node-info.d/glite-wms | grep config_gip_only [glite@cream-44 ~]$
```

Considered successful if the function config_gip_only has been removed.

bug #77876: While purging DAGs/Collections the CLEAR event is only logged for the parent node

Test description.

Forcing a run of the cron purger you can then check the logging info of a "parent" node:

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 2 https://cream-44.pd.infn.it:9000/vR...  
===== glite-wms-job-logging-info Success =====
```

LOGGING INFORMATION:

Printing info for the Job : https://cream-44.pd.infn.it:9000/vR...

Event: RegJob

- Arrived = Wed Apr 20 14:01:25 2011 CEST
- Host = cream-44.pd.infn.it
- Jobtype = COLLECTION
- Ns = https://cream-44.pd.infn.it:7443/gl...
- Nsubjobs = 100
- Seed = WMPROXY
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Wed Apr 20 14:01:25 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle

Event: Accepted

- Arrived = Wed Apr 20 14:01:34 2011 CEST
- From = NetworkServer
- From host = cream-12.pd.infn.it
- Host = cream-44.pd.infn.it
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Wed Apr 20 14:01:34 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle

Event: EnQueued

- Arrived = Wed Apr 20 14:01:34 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Result = START
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Wed Apr 20 14:01:34 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle

Event: EnQueued

- Arrived = Wed Apr 20 14:01:57 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Result = OK
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...

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```
- Timestamp = Wed Apr 20 14:01:57 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: DeQueued
- Arrived = Wed Apr 20 14:05:03 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Source = WorkloadManager
- Src instance = 24901
- Timestamp = Wed Apr 20 14:05:03 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy
---
Event: CollectionState
- Arrived = Wed Apr 20 14:05:11 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/_y...
- Child event = Running
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=1, Done=0, Cleared=0, Aborted=0
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Running
- Timestamp = Wed Apr 20 14:05:11 2011 CEST
- User = /C=IT/O=INFN/OU=Host/L=Padova/CN=cream-44.pd.infn.it
---
Event: CollectionState
- Arrived = Wed Apr 20 14:29:59 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/H3...
- Child event = Done
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=0, Done=82, Cleared=0, Aborted=0
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Waiting
- Timestamp = Wed Apr 20 14:29:59 2011 CEST
- User = LBProxy
---
Event: Clear
- Arrived = Thu Apr 21 10:13:20 2011 CEST
- Host = cream-44.pd.infn.it
- Reason = 2
- Source = NetworkServer
- Src instance = 20407
- Timestamp = Thu Apr 21 10:13:20 2011 CEST
- User = /C=IT/O=INFN/OU=Host/L=Padova/CN=cream-44.pd.infn.it/CN=431015228
=====
```

Or you can check the logging-info on a parent node after the output retrieval:

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 2 https://cream-44.pd.infn.it:9000/tn...
===== glite-wms-job-logging-info Success =====
LOGGING INFORMATION:
Printing info for the Job : https://cream-44.pd.infn.it:9000/tn...
---
Event: RegJob
- Arrived = Thu Apr 21 10:18:34 2011 CEST
- Host = cream-44.pd.infn.it
- Jobtype = COLLECTION
- Ns = https://cream-44.pd.infn.it:7443/gl...
- Nsubjobs = 3
- Seed = WMPROXY
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
```

bug #77876: While purging DAGs/Collections the CLEAR event is only logged for the parent node 33

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```
- Timestamp = Thu Apr 21 10:18:34 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: Accepted
- Arrived = Thu Apr 21 10:18:34 2011 CEST
- From = NetworkServer
- From host = cream-12.pd.infn.it
- Host = cream-44.pd.infn.it
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Thu Apr 21 10:18:34 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: EnQueued
- Arrived = Thu Apr 21 10:18:34 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Result = START
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Thu Apr 21 10:18:34 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: EnQueued
- Arrived = Thu Apr 21 10:18:35 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Result = OK
- Source = NetworkServer
- Src instance = https://cream-44.pd.infn.it:7443/gl...
- Timestamp = Thu Apr 21 10:18:35 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle
---
Event: DeQueued
- Arrived = Thu Apr 21 10:18:36 2011 CEST
- Host = cream-44.pd.infn.it
- Queue = /var/workload_manager/jobdir
- Source = WorkloadManager
- Src instance = 15496
- Timestamp = Thu Apr 21 10:18:36 2011 CEST
- User = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio Gianelle/CN=proxy/CN=proxy
---
Event: CollectionState
- Arrived = Thu Apr 21 10:18:42 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/d...
- Child event = Running
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=1, Done=0, Cleared=0, Aborted=0
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Running
- Timestamp = Thu Apr 21 10:18:42 2011 CEST
- User = /C=IT/O=INFN/OU=Host/L=Padova/CN=cream-44.pd.infn.it
---
Event: CollectionState
- Arrived = Thu Apr 21 10:19:50 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/zo...
- Child event = Done
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=0, Done=2, Cleared=0, Aborted=0
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Waiting
- Timestamp = Thu Apr 21 10:19:50 2011 CEST
- User = LBProxy
---
Event: CollectionState
```

bug #77876: While purging DAGs/Collections the CLEAR event is onlylogged for the parent node 34

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```
- Arrived = Thu Apr 21 10:24:12 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/as...
- Child event = Running
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=1, Done=2, Cleared=0, Aborted
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Running
- Timestamp = Thu Apr 21 10:24:12 2011 CEST
- User = /C=IT/O=INFN/OU=Host/L=Padova/CN=cream-44.pd.infn.it
---
Event: CollectionState
- Arrived = Thu Apr 21 10:28:04 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/as...
- Child event = Done
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=0, Done=3, Cleared=0, Aborted
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Done
- Timestamp = Thu Apr 21 10:28:04 2011 CEST
- User = LBProxy
---
Event: CollectionState
- Arrived = Thu Apr 21 10:33:00 2011 CEST
- Child = https://cream-44.pd.infn.it:9000/zo...
- Child event = Clear
- Done code = 0
- Histogram = Submitted=0, Waiting=0, Ready=0, Scheduled=0, Running=0, Done=0, Cleared=3, Aborted
- Host = cream-44.pd.infn.it
- Source = LBServer
- State = Cleared
- Timestamp = Thu Apr 21 10:33:00 2011 CEST
- User = LBProxy
---
Event: Clear
- Arrived = Thu Apr 21 10:33:00 2011 CEST
- Host = cream-44.pd.infn.it
- Reason = 1
- Source = NetworkServer
- Src instance = 21720
- Timestamp = Thu Apr 21 10:33:00 2011 CEST
- User = /C=IT/O=INFN/OU=Host/L=Padova/CN=cream-44.pd.infn.it/CN=431015228
```

bug #78030: Alternative GLITE_WMS_LOG_DESTINATION in the jobwrapper

Test description.

Stop the gatekeeper on the CE and check if the JW is able to log (looking for LRMS events into the logging-info).

Test description.

Submit a lot of jobs setting `EnableWmsFeedback = true`; in the jdl to trigger a replanning and then looking into the wm log file:

```
20 Apr, 14:17:10 -I: [Info] operator() (/home/condor/execute/dir_24787/userdir/emi.wms.wms-manager
```

you should see that replanning works as expected.

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```
[ale@cream-12 UI]$ glite-wms-job-status https://cream-44.pd.infn.it:9000/JE...
```

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

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://cream-44.pd.infn.it:9000/JE...
```

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

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

- Cannot take token
- job completed
- Job Terminated Successfully

```
Exit code: 0
```

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

```
Destination: ce202.cern.ch:8443/cream-lsf-grid_2nh_dteam
```

```
Submitted: Wed Apr 20 14:01:25 2011 CEST
```

```
Parent Job: https://cream-44.pd.infn.it:9000/vR...
```

```
=====
```

bug #78406: [yaim-wms] yaim should set IsmIiLDAPCEFilterExt according to the supported VO(s)

Test description.

```
[root@devel11 libexec]# grep IsmIiLDAPCEFilterExt /etc/glite-wms/glite_wms.conf
```

```
IsmIiLDAPCEFilterExt = "(|(GlueCEAccessControlBaseRule=VO:atlas)(GlueCEAccessControlBaseRule=VOMS
```

bug #78484: [YAIM_WMS] Multiple parameter configuration added in condor_config.local

Test description.

```
[root@cream-44 ~]# cat /opt/condor-c/local.cream-44/condor_config.local | grep GRID_MONITOR
```

```
GRID_MONITOR_HEARTBEAT_TIMEOUT = 300
```

```
GRID_MONITOR_RETRY_DURATION = 31536000
```

```
GRID_MONITOR = $(RELEASE_DIR)/libexec/glite/grid_monitor.sh
```

```
ENABLE_GRID_MONITOR = TRUE
```

```
[root@cream-44 ~]# /opt/glite/yaim/bin/yaim -c -s /usr/local/nfs/jral_test/cream-44/site-info_wms
```

```
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:
```

```
[ ... ]
```

```
DEBUG: Skipping function: config_glite_initd_setenv because it is not defined
```

```
INFO: Executing function: config_glite_initd
```

```
INFO: Configuration Complete. [ OK ]
```

```
INFO: YAIM terminated successfully.
```

```
[root@cream-44 ~]# cat /opt/condor-c/local.cream-44/condor_config.local | grep GRID_MONITOR
```

```
GRID_MONITOR_HEARTBEAT_TIMEOUT = 300
```

```
GRID_MONITOR_RETRY_DURATION = 31536000
```

```
GRID_MONITOR = $(RELEASE_DIR)/libexec/glite/grid_monitor.sh
```

```
ENABLE_GRID_MONITOR = TRUE
```

Considered successful if the line GRID_MONITOR is not added after configuring.

bug #78406: [yaim-wms] yaim should set IsmIiLDAPCEFilterExt according to the supported VO(s)

bug #79141: various bugs about parametric jobs

Test description.

```
[ale@cream-12 UI]$ cat 79141.jdl
[
JobType = "Parametric";
Parameters = 1;
ParameterStart = 0;
ParameterStep = 1;
Executable = "/bin/ls";
requirements = other.GlueCEStateStatus == "Production";
Arguments = "-la";
Stdoutput = "output.txt";
InputSandbox = {"Src_PARAM_/Makefile", "Test_PARAM_"};
OutputSandbox = {"output.txt"};
]
[ale@cream-12 UI]$ glite-wms-job-submit -a -c etc/wmp_devel11.conf 79141.jdl

Connecting to the service https://devel11.cnaf.infn.it:7443/g...

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

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

https://devel11.cnaf.infn.it:9000/5...

=====

[ale@cream-12 UI]$ glite-wms-job-status https://devel11.cnaf.infn.it:9000/5...

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

Status info for the Job : https://devel11.cnaf.infn.it:9000/5...
Current Status: Waiting
Submitted: Wed Apr 20 09:37:09 2011 CEST
=====

- Nodes information for:
Status info for the Job : https://devel11.cnaf.infn.it:9000/S...
Current Status: Ready
Status Reason: unavailable
Destination: ce-enmr.chemie.uni-frankfurt.de:2119/jobmanager-lcgpbs-cert
Submitted: Wed Apr 20 09:37:09 2011 CEST
=====

[ale@cream-12 UI]$ glite-wms-job-status https://devel11.cnaf.infn.it:9000/5...

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

Status info for the Job : https://devel11.cnaf.infn.it:9000/5...
Current Status: Done (Success)
Exit code: 0
Submitted: Wed Apr 20 09:37:09 2011 CEST
=====

- Nodes information for:
Status info for the Job : https://devel11.cnaf.infn.it:9000/S...
Current Status: Done (Success)
Logged Reason(s):
-
- Job terminated successfully
Exit code: 0
```

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Status Reason: Job terminated successfully
Destination: ce-enmr.chemie.uni-frankfurt.de:2119/jobmanager-lcgpbs-cert
Submitted: Wed Apr 20 09:37:09 2011 CEST

```
[ale@cream-12 UI]$ glite-wms-job-output https://devel11.cnaf.infn.it:9000/5...
```

```
Connecting to the service https://devel11.cnaf.infn.it:7443/g...
```

```
JOB GET OUTPUT OUTCOME
```

```
Output sandbox files for the DAG/Collection :  
https://devel11.cnaf.infn.it:9000/5...  
have been successfully retrieved and stored in the directory:  
/tmp/jobOutput/ale_5x11U1aJFoKSDbpwu4-apw
```

```
[ale@cream-12 UI]$ cat /tmp/jobOutput/ale_5x11U1aJFoKSDbpwu4-apw/Node_0/output.txt
```

```
total 32
```

```
drwxr-xr-x 2 dteam035 dteam 4096 Apr 20 09:38 .  
drwx----- 5 dteam035 dteam 4096 Apr 20 09:37 ..  
-rw-r--r-- 1 dteam035 dteam 2150 Apr 20 09:37 .BrokerInfo  
-rw-r--r-- 1 dteam035 dteam 118 Apr 20 09:38 https_3a_2fdevel11.cnaf.infn.it_3a9000_2fShaETXWY  
-rw-r--r-- 1 dteam035 dteam 0 Apr 20 09:37 Makefile  
-rw-r--r-- 1 dteam035 dteam 0 Apr 20 09:38 output.txt  
-rw-r--r-- 1 dteam035 dteam 0 Apr 20 09:37 Test0  
-rw----- 1 dteam035 dteam 103 Apr 20 09:38 tmp.fzuG119574  
-rw----- 1 dteam035 dteam 2 Apr 20 09:38 tmp.Gx1Yw19573  
-rw----- 1 dteam035 dteam 103 Apr 20 09:38 tmp.mwAGt19459  
-rw----- 1 dteam035 dteam 0 Apr 20 09:38 tmp.OfMof19572  
-rw----- 1 dteam035 dteam 2 Apr 20 09:38 tmp.oizWr19458
```

Considered successful if the parametric job is successfully executed and the output correctly retrieved. --
ElisabettaMolinari - 2010-02-24

This topic: EgeeJra1It > WmsTestPlan

Topic revision: r30 - 2011-07-01 - FabioCapannini



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