TESTs:

- Run the following tests from the testsuite of Dmitry Zaborov (WMS CLI)
  - WMS-cli-basic-cycle.sh: === test NOT passed === due to error 3 (see below)
  - WMS-cli-basic-cycle-logfile.sh: === test NOT passed === due to error 3 (see below)
  - WMS-cli-basic-cycle-config.sh: === test PASSED === add a temporary fix for error 2 (see below)
  - WMS-cli-basic-cycle-default-jdl.sh: === test NOT passed === due to error 3 (see below) and add a temporary fix for error 2 (see below)
  - WMS-cli-basic-cycle-input.sh: === test PASSED === add a temporary fix for error 2 (see below)
  - WMS-cli-basic-cycle-resource.sh: === test PASSED === add a temporary fix for error 2 (see below)
  - WMS-cli-detailed-cycle.sh: === test NOT passed === due to error 3 (see below) and add a temporary fix for error 2 (see below)
  - WMS-cli-submit-option-to.sh: === test NOT passed === due to error 6 (see below)
  - WMS-cli-submit-option-valid.sh: === test NOT passed === due to error 7 (see below)
  - WMS-cli-list-match.sh: === test PASSED ===
  - WMS-cli-delegate-proxy.sh: === test PASSED ===
  - WMS-cli-cancel.sh: === test PASSED ===
  - WMS-cli-status-all.sh: === test NOT passed === due to error 8 (see below)
  - WMS-cli-logging-info.sh: === test PASSED ===
  - WMS-cli-job-info.sh: === test NOT passed === due to error 9 (see below)
  - WMS-cli-file-perusal.sh: === test PASSED ===

Check bugs:

- BUG #17534 : unexpected behavior of glite-wms-job-output **PARTIALLY FIXED**
  - Retrieve the output of a single job without the "--nosubdir" option:

```
[ale@egee-rb-03 UI]$ glite-wms-job-output --dir test https://devel17.cnaf.infn.it:90

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - Operation Failed
Unable to retrieve the output
```

    but the output is correctly stored under directory test/ale_tpzN_qsPhV41QLxx4hN9iQ
  - Retrieve the output of two or more jobs without the "--nosubdir" option:

```
[ale@egee-rb-03 UI]$ glite-wms-job-output --dir test https://devel17.cnaf.infn.it:90
----------------------------------------------------------------------
1 : https://devel17.cnaf.infn.it:9000/ERnZhyvT49pbPo9gmGQR8g
2 : https://devel17.cnaf.infn.it:9000/-DRDiqYsWOMVer-iqY2z9w
a : all
q : quit
----------------------------------------------------------------------

Choose one or more jobId(s) in the list - [1-2]all (use , as separator or - for a ra

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - Operation Failed
Unable to retrieve the output for any job
```

but the output are correctly stored:

```
[ale@egee-rb-03 UI]$ ls -l  test/*
test/ale_-DRDiqYsWOMVer-iqY2z9w:
total 136
-rw-rw-r-- 1 ale ale 131125 Apr 21 12:53 ls.out

test/ale_ERnZhyvT49pbPo9gmGQR8g:
total 108
-rw-rw-r-- 1 ale ale 105990 Apr 21 12:53 ls.out
```

- ♦ Retrieve the output of one or more jobs with the "--nosubdir" option:

```
[ale@egee-rb-03 UI]$ glite-wms-job-output --noint --dir test --nosubdir https://deve

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Warning - option --nosubdir specified:
output files with same name will be overridden

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Warning - option --nosubdir specified:
output files with same name will be overridden

Warning - Directory already exists:
/home/ale/UI/test

Do you wish to overwrite it ? [y/n]n : y

Error - Operation Failed
Unable to retrieve the output for any job
```

but the output is correctly stored under directory test

- BUG #29635 : bad error message for glite_wms.conf syntax error **FIXED**
  - ♦ Modified the configuration file breaking the syntax, then submit..

```
[ale@egee-rb-03 UI]$  glite-wms-job-submit  -a -c ~/UI/etc/wmp_wms009.conf -o uitest
Syntax error occurred:
Error occured at: Row: 12, Col: 86
" };
     //LBAddresse ... "
```

- BUG #34949 : Ctl-C'ed submission gives funny state **FIXED**
  - ♦ Submit a job with big input data, wait a while and then type Ctrl-C

```
[ale@egee-rb-03 UI]$  glite-wms-job-submit  -a -c ~/UI/etc/wmp_wms009.conf -o uitest

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server


Cancelling copy...

Error - The job has been successfully registered (the JobId is: https://devel17.cnaf
User killed the command execution
To complete the operation start the job by issuing a submission with the option:
 --start https://devel17.cnaf.infn.it:9000/gmIXAmuyS5inwyPnQOKBOQ
```

The status of the job should be:

```
**********************************************************
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://devel17.cnaf.infn.it:9000/gmIXAmuyS5inwyPnQOKBOQ
Current Status:     Submitted
Submitted:          Tue Apr 21 13:01:55 2009 CEST
**************************************************************
```

NOTE I try to issue a "--start" as suggest, the job is submitted but no one said me that not all the input files have been completely transferred.

```
[root@wms009 ~]# ls -lh /var/glite/SandboxDir/gm/https_3a_2f_2fdevel17.cnaf.infn.it_
-rw-r--r--  1 dteam043 dteam 28M Apr 21 13:01 /var/glite/SandboxDir/gm/https_3a_2f_2
```

but

```
[ale@egee-rb-03 UI]$ ls -lh data/bigfile
-rw-r--r-- 1 ale ale 50M Aug 24  2006 data/bigfile
```

- BUG #43601 : glite-wms-job-submit silently adds VO defaults to user configuration **FIXED**
  - Submit a job using option "--debug"

```
[ale@egee-rb-03 UI]$  glite-wms-job-submit --debug  -a -c ~/UI/etc/wmp_wms009.conf -
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - Vo read from proxy certificate extensi
----------------------------------------
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - VirtualOrganisation value : dteam
----------------------------------------
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - Configuration file: /home/ale/UI/etc/w
----------------------------------------
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - Loaded user configuration file:
 /home/ale/UI/etc/wmp_wms009.conf
----------------------------------------
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - Configuration file: /opt/glite/etc/dte
----------------------------------------
----------------------------------------
21 Apr 2009, 13:18:10 -I- PID: 9283 (Debug) - Loaded Vo specific configuration file:
 /opt/glite/etc/dteam/glite_wmsui.conf
```

As you can see the user configuration is read before the loaded Vo specific configuration file

- BUG #47134 : WMS UI: glite-wms-job-{delegate-proxy,submit} fail if HOME is not set **FIXED**
  - Unset the variable HOME and then try to use glite-wms-job-* commands

```
[ale@egee-rb-03 UI]$ unset HOME; glite-wms-job-submit -a -c ~/UI/etc/wmp_wms009.conf

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

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

The job has been successfully submitted to the WMProxy
```

- BUG #47677 : WMS job submission aborts on non-existent endpoint **FIXED**
  - Change the configuration file putting a non-existent wmproxy address

```
[
    WmsClient = [
     ErrorStorage="/var/tmp";
     OutputStorage=  "/tmp";
     ListenerStorage="/tmp";
     DefaultStatusLevel  = 1 ;
```

```
     DefaultLoggingLevel = 0 ;
     WMProxyEndPoints = {"https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server"
    JdlDefaultAttributes =  [
        requirements = other.GlueCEStateStatus == "Production" && !RegExp("in2p3",ot
        rank =-other.GlueCEStateEstimatedResponseTime ;
        ];
    ];
]
```

Then submit a job:

```
[ale@egee-rb-03 UI]$ unset HOME; glite-wms-job-submit -a -c ~/UI/etc/wmp_wms009.conf

Warning - getWmps
Unable to resolve endpoint passed through configuration file: https://non-existent.c

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

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

The job has been successfully submitted to the WMProxy
```

- BUG #48702 : job-list-match fails when first WMS tried is draining **FIXED**
  - Use the same configuration file as in the previous bug, then issue a glite-wms-job-list-match

```
[ale@egee-rb-03 UI]$  glite-wms-job-list-match --rank -a -c ~/UI/etc/wmp_wms009.conf

Warning - getWmps
Unable to resolve endpoint passed through configuration file: https://non-existent.c

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server
==========================================================================

                        COMPUTING ELEMENT IDs LIST
 The following CE(s) matching your job requirements have been found:
```

- BUG #48806 : [glite-wms-job-status] glite-wms-job-status gives an error on SLC5 **FIXED**
  - Simply use the glite-wms-job-status command

ERRORS:

1. Missing attribute!

```
[ale@egee-rb-03 WMS-cli]$  glite-wms-job-status --config ./wms.conf https://devel17.cnaf.i

**** Error: UI_JDL_ADD_ERROR ****
Missing VirtualOrganisation attribute inside JDL Default Attributes section "JdlDefaultAtt
```

but

```
[ale@egee-rb-03 WMS-cli]$ cat /home/ale/CVS/org.glite.testsuites.ctb/WMS/WMS-cli/wms.conf
[
    WmsClient = [
     WMProxyEndPoints = {"https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server"};
     ErrorStorage="/var/tmp";
     OutputStorage=  "/tmp";
     ListenerStorage="/tmp";
     DefaultStatusLevel  = 1 ;
     DefaultLoggingLevel = 1 ;
     jdlDefaultAttributes=[
        VirtualOrganisation="dteam";
        DefaultNodeRetryCount = 5;
```

```
        SignificantAttributes = { "Requirements","Rank" };
        MyProxyServer = "myproxy.cern.ch";
        requirements = other.GlueCEStateStatus == "Production" || other.GlueCEStateStatus =
        RetryCount = 3;
        rank =-other.GlueCEStateEstimatedResponseTime ;
      ]
  ];
]
```

2. Directory "test" must exist!

```
[ale@egee-rb-03 UI]$ glite-wms-job-output --dir test https://devel17.cnaf.infn.it:9000/0Nb

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - Unable create dir
/home/ale/UI/test/ale_0NbCpMtGmqwwDB2KZLw1_Q
```

3. Error or not error?

```
[ale@egee-rb-03 UI]$ glite-wms-job-output https://devel17.cnaf.infn.it:9000/0NbCpMtGmqwwDB

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - Operation Failed
Unable to retrieve the output
```

but

```
[ale@egee-rb-03 UI]$ ls /tmp/ale_0NbCpMtGmqwwDB2KZLw1_Q/
ls.out
```

4. Option "--list-only" doesn't work!

```
[ale@egee-rb-03 UI]$ glite-wms-job-output --list-only https://devel17.cnaf.infn.it:9000/wC

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - Operation Failed
Unable to retrieve the output
```

5. Man page error, some attributes are repeated and have different description:

```
GLITE-WMS-JOB-STATUS(1)                                  GLITE-WMS-JOB-STATUS(1)

NAME:
       glite-wms-job-status

SYNOPSIS
       glite-wms-job-status [options] <jobId>
       --version
       --help
       --config, -c <configfile>
       --vo <voname>
       --debug
       --logfile <filepath>
       --noint
       --version
       --help
```

6. Option "--to" doesn't work:

```
[ale@egee-rb-03 WMS-cli]$ glite-wms-job-submit -a --config ./wms.conf --output /tmp/wms-cl

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error -
ExpiryTime: wrong type caught for attribute
```

7. Option "--valid" doesn't work:

```
[ale@egee-rb-03 WMS-cli]$ glite-wms-job-submit -a --config ./wms.conf --output /tmp/wms-cl

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error -
ExpiryTime: wrong type caught for attribute
```

8. Mandatory attribute not recognize:

```
[ale@egee-rb-03 WMS-cli]$  glite-wms-job-status  --config wms.conf --all

**** Warning: UI_CONFIG_ATTRIBUTE ****
Mandatory Attribute default error in configuration file: "LBAddresses"
```

but

```
[ale@egee-rb-03 WMS-cli]$ cat wms.conf
[
    WmsClient = [
     WMProxyEndPoints = {"https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server"};
     ErrorStorage="/var/tmp";
     LBAddresses = {"http://devel17.cnaf.infn.it:9000"};
     OutputStorage=  "/tmp";
     ListenerStorage="/tmp";
     DefaultStatusLevel  = 1 ;
     DefaultLoggingLevel = 1 ;
     jdlDefaultAttributes=[
        VirtualOrganisation="dteam";
        DefaultNodeRetryCount = 5;
        SignificantAttributes = { "Requirements","Rank" };
        MyProxyServer = "myproxy.cern.ch";
        requirements = other.GlueCEStateStatus == "Production" || other.GlueCEStateStatus =
        RetryCount = 3;
        rank =-other.GlueCEStateEstimatedResponseTime ;
     ]
  ];
]
```

9. A dag or not a dag....

```
[ale@egee-rb-03 WMS-cli]$  glite-wms-job-info --jdl-original https://devel17.cnaf.infn.it:

Connecting to the service https://wms009.cnaf.infn.it:7443/glite_wms_wmproxy_server

Error - WMProxy Server Error
The operation getJDL is not supported for DAG/Collection nodes, please check the jobid:
https://devel17.cnaf.infn.it:9000/1Xv1M6H9W8mVFQK0FTQnyQ
```

but it is a simple job

```
[ale@cream-15 UI]$ glite-wms-job-status -v 2 https://devel17.cnaf.infn.it:9000/1Xv1M6H9W8m

*************************************************************
BOOKKEEPING INFORMATION:

Status info for the Job : https://devel17.cnaf.infn.it:9000/1Xv1M6H9W8mVFQK0FTQnyQ
Current Status:     Scheduled
Status Reason:      Job successfully submitted to Globus
Destination:        ce125.cern.ch:2119/jobmanager-lcglsf-grid_2nh_dteam
Submitted:          Wed Apr 22 16:48:27 2009 CEST
---
- Cancelling                =    0
- Children num              =    0
```

-- AlessioGianelle - 21 Apr 2009

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