

Revision of L&B and JP restructuring

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Workplan

 $http://egee.cesnet.cz/mediawiki/index.php/LB_and_JP_cleanup$

Phase 1 (conservative)

- February 6, 2007: started
- March 7-9, 2007: first report at the JRA1 All-hands meeting in Catania
- May 25, 2007: finished
- Phase 2 (aggresive)
 - May 15, 2007: started
 - Jun 18-20, 2007: expected report at the JRA1 All-hands meeting in Helsinki HERE :)
 - September 2007: expected end



Workplan strategy

Phase 1 (conservative)

- 1. Setup functional ETICS branch configurations (currently named *module_*branch_RC31_3)
- 2. start removing redundant dependencies with the following preferences:
 - in configurations
 - in Makefiles
 - in the code
- 3. be able to build all modules separately as well as to build the whole subsystem, both L&B and JP
- 4. define procedures for cloning current branch configuration into release configuration
 - we hoped for working etics-tag configuration for long time
 - finaly we use "poor etics" replacement



We are not hacking ETICS, we created only a perl wrapper around the ETICS commands. We use the following strategy:

- We keep (update automatically) the version numbers in CVS (module/project/version.properties)
- We create new release configurations only by cloning the branch ones using the poor-etics-tag

usage: ./poor-etics-tag options module.name

- -c maj.min.rev-age source configuration
- -c branch_XX branch alternative
- -v maj.min.rev-age explicit target version
- -V target version taken from version.properties as is
- -i {maj,min,rev,age} inc.version and commit
- -t do not emit cvs tag command
- -b do not modify version in the branch config one form of -c, and either -v, -V or -i are

mandatory

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Stage 1 Issues

What we did:

- removed the ant dependencies
- cleaned (removed unnecessary) external dependencies (*expat, mysql-devel, cppunit, c-ares, gsoap, classads*)
- cleaned (removed unnecessary) internal dependencies (security.gsoap-plugin, wms-utils.jobid, wms-utils.exceptions)
- too much time spent for neverending ETICS issues...
 - we reported about 10 serious bugs (24686, 24897, 25331, 25834, 25836, ...) plus many individual emails with Alberto (the one week man :)
 - first functional release was 0.8.6-1 (available only since May 4, 2007!)
- created the new CVS branches and their ETICS configurations form both L&B and JP and we now successfully clone them to the release configurations



What have we done so far (on HEAD):

- we created a new module org.glite.lb.types contains the *.T (template) files, esp. events.T, status.T and the code generator - only Build time dependency on this module
- we removed the module org.glite.lb.client-interface, merged into lb.common and lb.client
- we removed the dependency on lb.client in all our server modules (lb.server, lb.proxy and also lb.logger), remains dependency (BR) only on lb.common



Globus Issues

We created (on HEAD) a new module org.glite.security.gss

- it contains the glite-gss code (used to be in security.gsoap-plugin)
- we want to remove the *globus* dependencies in all L&B and JP modules, the only allowed will be B(uild) and R(un)-time dep. for org.glite.security.gss, nowhere else
- wrappers around non GSS globus functions (globus_libc_gethostname(),...) will be needed
- migration in progress (est. end July August)



We created (on HEAD) a new subsystem org.glite.lbjp-common with modules

- trio include escaping functions, should resolve dep. on LB
- db common DB access functions, unif. and cleanup needed
- server-bones taken as is (hopefully)
- maildir from lb.common it's used by JP too
- logging library after the approach is agreed here in Helsinki
- interlogger NT later
- communication layer (plain, gss etc.) later, after ILNT requirements are clear
- migration in progress (est. end July August)



Future (Stage 2) Issues

What next we plan to do:

- create org.glite.jobid
 - together with Francesco G.
 - probably split C and C++ code in different modules no need to depend on "ITCZ common" exception base (never happened actually)
 - July, 2007
- unify lb.proxy and lb.server
 - most of the code is shared (or resides in server) either
 - provide "proxy access" to full server on WMS machine for smaller setups – avoid the overhead of running both on the same machine
 - --proxy-mode (server, proxy, both) switch to select functionality, interfaces to listen, purging strategy etc.
 - August, 2007



L&B and JP cleanup

Enabling Grids for E-sciencE

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