

# IT Cluster Summary

*JRA1 All Hands Meeting  
Catania, 7-9 March 2007*

*Francesco Giacomini – INFN*

- **Restructured NS components to reduce dependencies**
  - cleaner common/client/server separation
- **Removed some dependent UI components**
- **NS is deprecated**
  - it may survive for a short time in a 3.1 WMS built with the old gLite build system
  - will soon disappear from ETICS builds

- **Memory profiling and leaks removal** -- still on-going
- **Served Requests limiter**
  - Configurable max number of requests served by WMPProxy instance before exiting
- **Review interaction with LB**
- **New delegation interface (aligned with the GT4 one)** -- still on-going
- **Support for non-DAG-collections** -- still on-going
- **JDL library**
  - Memory profiling and leaks removal -- still on-going

- **Java API**
  - Accept user's proxy credential from stream (fulfill requirement from g-Eclipse project)
- **Python API**
  - New executable added for locally signing proxy requests to be used for delegation
- **C++ API**
  - Configurable client request timeouts

- **C++ CLI**
  - Purging for DAG nodes
    - Nodes are now purged by default after output retrieval
    - New `--nopurge` option allows to keep them until the whole DAG output has been retrieved
  - Remove dependency from `org.glite.wms.configuration`
    - Component uses private conf file
    - This also removes dependency from Condor (of the UI metapackage)
- **Python CLI**
  - Restructuring for separation of NS-dependent and NS-independent modules
  - SWIG layer memory leaks fixing

- **Memory consumption understood and under control**
  - use of google-malloc
  - global limit on the number of DAG node planners
- **Support for Bulk Match Making, a.k.a. DAG-less collections, available as a prototype**
  - functionality not fully complete
  - some aspects, like ranking, need some refinement
- **Job Wrapper**
  - VO Hook
    - Allowing jobs to find middleware
  - Customization points backported to 3.0
- **Dismissed RLS support**

- **New sensors leveraging Maarten Litmath's log**
  - deployed within INFNGrid
- **New hierarchical infrastructure for the HLR servers**
  - used to collect information from a set of low level HLR in order for a single server to have broader view of the accounting informations
  - deployed within INFNGrid
- **The information collected in the databases have been extensively compared with the raw data from the LRMS logs**
  - results are satisfactory.
- **The queries can be performed on the basis of the VOMS FQAN of the proxy used to submit the jobs**

- **Main new developments:**
  - VOMS-Admin 2.0 finally released.
    - Almost completely new code base.
    - Easier to maintain and work with.
    - Fully capable of using the new features from VOMS:
      - *Generic Attributes*
  - VOMS 1.7.15 released
    - Ability to make voms-proxy-init from Java.



- **Setup in preview testbed completed**
  - Now also for site G-PBoxes
- **Rework of the APIs**

- **See specific presentations**

- **3.1 version backported to 3.0**
- **Improvements**
  - fixed problems in the creation of the accounting account informations
  - added startup script and configuration file for the parser
  - new configuration parameters to the config file
  - support for cream

- **Usual support and bug fixing activities**
- **Analysis of internal and external dependencies**
  - already achieved some results
- **Porting activity for all components**
  - new build system (ETICS)
  - new platform (SLC4)
  - new compiler (gcc 3.4.6)
  - new VDT
  - still supporting the old ones
    - Dependencies as well!

- **JobDir (replacement of filelist) integration slowly progressing in the relevant components**
  - WMPProxy, WM, JC, LM, ICE
- **gSoap**
  - Confusion due to different versions hopefully solved
- **gridFTP**
  - We have a patched version with support for the “magic group” to manage sandbox transfers through the NS
  - Once NS is abandoned we can adopt a “standard” gridFTP
- **New testing organization**
  - Responsibility is INFN's