



ATF report

WP4 workshop / CERN / 6-2002

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New ATF

- ◆ The ATF now becomes the AG ('architecture group')
- ◆ 3 meetings since last WP4 workshop
 - March (Paris)
 - April (CERN)
 - Last week (CERN)
- ◆ Change focus from long term architectures to more immediate testbed1 and testbed2 issues
- ◆ Each application (WP8-10) has a representative, whileas 'our' main users (sysadmins) are barely represented (WP6)
- ◆ Homepage, minutes, etc: <http://cern.ch/eu-datagrid/ATF>



WP4 related issues

- ◆ OGSA:
 - Still far away (first release not before end 2002/ beginning 2003)
 - Backwards compatibility not clear
 - Two parallel implementations: IBM (proprietary), Globus (open source)
 - There are strong doubts that OGSA will ever be used by the EU DataGrid
- ◆ Support for Condor batch system: requested
- ◆ Package management: can we use alternative packagers to RPM?
 - Almost every Grid project uses a different packaging system
 - But no single tool addresses building, distribution and installation of packages in a perfect way.
 - We (WP4) want to keep to the standards -> use the system packager for distribution and installation. We are not interested in building phase.



WP4 related issues (II)

◆ LCFG: too heavyweight?

- Requests coming for using LCFG only as a configuration tool for managing Grid middleware services
- Would allow deployment on sites currently not using LCFG (eg. Lyon)
- LCFG light addresses this, but no 'light weight' software distribution tool available yet

◆ Checkpointing, fabric MPI, interactive jobs support:

- WP1 will provide solutions in release 1.3 and 1.4

◆ UML modelling:

- Ongoing work on modelling the architecture using UML techniques
- Granularity is at WP subsystem level
- Ongoing work. Goal is to update the WP12 architecture document by September.



WP4 related issues (III)

◆ Software release plan:

- Trimming the sw release plan by assigning priorities on tasks, input from application WP's
- Recommendation: WP4 to check release plan with system managers.

◆ Gatekeeper / Jobmanager requirements: discussion on...

- Should EDG keep or rewrite the Globus gatekeeper? (rewrite, .. but manpower)
- Should EDG keep the GRAM protocol? (yes)
- Currently, even with the GASS cache fix, problems with > 20 simultaneous jobs
- Replace Globus RSL by Condor Classads? (More flexible matchmaking)
- Can we live without outbound IP? (probably not)
- Can we estimate job traversal times? (Miron Livny, Condor project leader: *'this is garbage'* - such estimations are always out of date)



WP4 related issues (IV)

◆ NorduGrid presentation:

- Have replaced *Gatekeeper*, *GRAM*, *GASS* etc. by *GridFTP*
- Jobs are submitted by uploading RSL control files into special virtual *GridFTP* directories
- *stdout-stderr* and job status available via *GridFTP*