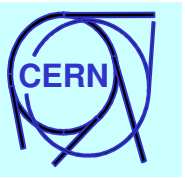
DataGrid Architecture Group



Bob Jones

CERN

Background

- Architecture Task Force (ATF)

  German Cancio, CERN
  Steve M. Fisher, RAL (chair)
  Tim Folkes, RAL
  Francesco Giacomini, INFN
  Wolfgang Hoschek, CERN
  Dave Kelsey, RAL
  Brian L. Tierney, LBL/CERN

  2 versions (March & July 2001) of the architecture document drafted

  active until PM9 - emphasis then shifted to testbed 1

- D12.4 deliverable (PM12)

  New architecture document written based on ATFv2 and individual WP architecture/design documents

Some Lessons learnt from testbed 1 & D12.4

- Some concepts remain vague
  - *e.g. what do we really mean by interactive jobs?*
- Some boundaries are unclear
  - Between components and between work-packages
  - *e.g. are we certain about the scope/functionality of a Storage Element?*
- Some requirements are not addressed
  - *e.g. anonymous users*
- The various software components are not yet fully integrated
  - *e.g. do the Storage Elements, Computing Elements & Information System work in unison?*
- Need better links with the application groups and sw integrators
  - Ensure priorities are addressed and a deployable architecture is defined
- Short term/ Long term trade-offs
  - Need to satisfy the short-term needs of the testbed without jeopardizing future directions
  - *e.g. do we patch code now that we know will be replaced in the next release?*

Mandate

Modify D12.4 to clarify then rationalise the interfaces & dependencies of the different components with a view to the requirements for testbed 2

Take into account:

Reviewers comments

We currently don't have answers to all the questions asked

Experiences from testbed 1

Applications (D8.2) & integrators (D6.4)

Future directions in underlying toolkits

e.g. Globus developments, & Grid Open Services Architecture

Changing requirements from the Application Groups

e.g. move towards common higher-level interface

Look for convergence with architectures being proposed for other related Grid projects

e.g. PPDG/GriPhyN

to enable inter-operability

Proposed Composition

Technical coordinator (chair)

Middleware:

WP1, WP2, WP3, WP4, WP5

Networking:

WP7

Integration & deployment:

WP6

Security:

AAA

Applications:

WP8, WP9, WP10

Consultants

grid gurus and architects from related Grid projects

Total: ~15 members

Organisation

- Members names to be finalised this week
- First meeting on Thursday 7th March in Paris
- Subsequent meetings approximately 1 per month
- Participants will be expected to work outside the meetings

  Consult with WP colleagues to assure information flow

  Prepare material for the meetings and D12.4 document

  Discuss with architecture group colleagues