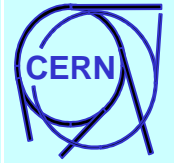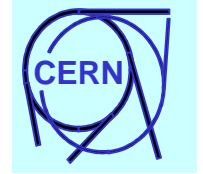# DataGrid Architecture Group

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

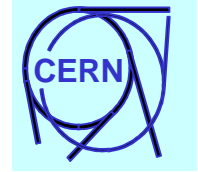 *Dave Kelsey, RAL*

  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
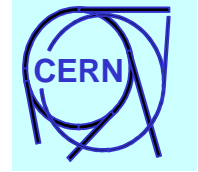 architecture/design documents

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?

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

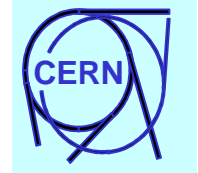*e.g. move towards common higher-level interface*

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:
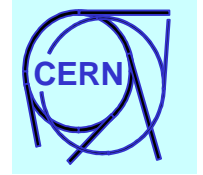
WP6

Security:

AAA

Applications:

WP8, WP9, WP10

Consultants

grid gurus and architects from related Grid projects

Total: ~15 members

- 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