

## SC2 report to mPOB, September 24, 2003

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### Organizational matters

- The result of the LCG re-costing of Phase 2 was presented in a seminar, the document [CERN-LCG-PEB-2003-016](#) is ratified by the SC2.
- The proposal to change the PEB reporting timeline approved: the reports start at Q-2 weeks and are sent to the SC2 at Q+2 weeks; this way the SC2 and mPOB schedules are unchanged, but there are 4 weeks for the PEB to create and edit the report.
- LCG internal review consists of 2 parts: the internal Application Area review is scheduled for October 22-22 (chair J.J.Blaising), the review of the services part is planned for Nov. 17-19. It will be a 2 and ½ day review, starting with a closed session with assignments and 3 half days of presentations and conclusion in the last half day. The review team will consist of people from experiments and external people.
- The SC2 agrees that the EGEE HEP application resources will be organized in collaboration with the LHC experiments and the LCG project, which will agree on the work plan, as it is written in the published document CERN-LCG-PEB-2003-017, version 8. September 2003.

### RTAGs

An interim report of the ARDA RTAG (An Architectural Roadmap towards Distributed Analysis) was presented. ARDA is in the process to select concepts, technologies, approaches that would be the starting point for a possible project on distributed analysis (e.g. Web Services, OGSi, Authentication techniques, use of Dbase proxy, creation of an API service to encapsulate user/experiment features etc...).

- ARDA has identified a services oriented architecture and an initial decomposition of services required for distributed analysis
- ARDA has recognized a central role for a Grid API which provides a factory of user interfaces for experiment frameworks, applications, portals, etc
- An ARDA Prototype would provide an distributed physics analysis environment of distributed experimental data

The draft report is scheduled for October the 3<sup>rd</sup> in oral form (and in written form in the weeks just after). The SC2 recommend to look for feedback from major Grid communities like Globus, Griphyn, and EDG and to involve F. Hemmer (EGEE Middleware manager) in ARDA.

### Projects and area reports:

A **Fabric Area** report was presented to the SC2. No major consequences of a few delayed milestones are expected (LXBATCH in LCG-1, Alice DC5 300 MB/sec). The overall activity is well on track and the whole process under control. 440 CPU nodes and 60 disk servers will be delivered and installed in November (on the 2004 budget) and the hardware will be ready in January for the next round of data challenges.

The status of the **CASTOR** project was presented. The project is monitored by the Fabric Area, there is a good communication with GDA. Currently a new version is prepared to

provide shared tape/disk resources. The new CASTOR version will be deployed in a progressive way starting late Spring 04, without changing the support model. The CASTOR team is split into a deployment and a development team (2 and 5 FTEs respectively). The CASTOR project seems to be on track and well able to provide the mass storage solution for the CERN T0 centre. The idea to provide CASTOR for external sites is feasible, but asking for some investment from the remote sites to balance the higher support load on the CERN teams. This topic is addressed by the HEPCCC.

A **Grid Deployment Area** report was presented in August. An update was also given at the LHCC referees meeting on Monday, 22.9.2003. By now LCG-1 is deployed at 10 sites, three more are in the process of installing the software and several others are ready to join. The tests show reasonable stability under heavy load. A User Support Centre is starting to operate in Karlsruhe, a Grid Operations Centre at RAL. Both services have user interfaces linked to the LCG web pages. The next release LCG-2 is planned for end of 2003 and will be used for the DC's in 2004. The deadline for LCG-2 components is Nov. 20, 2003. Experiments are starting to use LCG-1.

The LCG uses a **risk analysis tool** (developed in GridPP) to assess, mitigate and track the evolution of the main risk sources (weighting the risk with the likelihood to happen). The tool is available under <http://cern.ch/LCG/peb/risk>. The SC2 appreciates the tool and the preparation work and suggested making it public. The information will be part of quarterly reports.