# g-Eclipse - Access the power of the Grid

Wednesday 9 May 2007 19:30 (20 minutes)

## Describe the scientific/technical community and the scientific/technical activity using (planning to use) the EGEE infrastructure. A high-level description is needed (neither a detailed specialist report nor a list of references).

The g-Eclipse project aims to build an integrated workbench framework to access the power of existing Grid infrastructures. The framework will be built on top of the reliable eco-system of the Eclipse community to enable a sustainable development. The framework will provide tools to customize Grid users' applications, to manage Grid resources and to support the development cycle of new Grid applications.

In the first your of the project, the gLite middleware support will be implemented.

#### Report on the experience (or the proposed activity). It would be very important to mention key services which are essential for the success of your activity on the EGEE infrastructure.

The features of the g-Eclipse framework will be demonstrated as a live demo by accessing EGEE Grid infrastructure. The demo will show the setup and configuration of the g-Eclipse framework as well as the "Frist Grid application cycle". This includes the generation of a VO-specific Grid project, the inclusion of remote Grid file systems, the generation of Grid job specifications with wizards and the submission of job. The demo will prove that the migration of a local application to a Grid infrastructure will be much easier with the toolbox of the g-Eclipse framework. Additionally the integrated features to the GGUS system and VOMS management system will be demonstrated.

### With a forward look to future evolution, discuss the issues you have encountered (or that you expect) in using the EGEE infrastructure. Wherever possible, point out the experience limitations (both in terms of existing services or missing functionality)

At the end of the demo, we will high-light problems in terms of currently missing Java API or webservice specifications for the gLite central services.

# Describe the added value of the Grid for the scientific/technical activity you (plan to) do on the Grid. This should include the scale of the activity and of the potential user community and the relevance for other scientific or business applications

As the g-Eclipse framework aims for middleware independence, the emerging eco system has the potential to be the reliable graphical user interface to access the power of grids in the future. The framework will be open to integrate existing and new tools. The g-Eclipse project will address three major groups in the Grid domain: Grid users will benefit from the Desktop-like access to Grid resources; Grid operators and resource providers will be able to reduce the time-to-service by the Grid management and Grid site configuration tools; and Grid application developers will reduce the time-to-market for new Grid applications by accelerating the development and deployment cycle. The g-Eclipse project addressed sustainability from the very beginning. The g-Eclipse project is now accepted as an offical technology project of the Eclipse Foundation (www.eclipse.org/geclipse).

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