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g-Eclipse - a integrated workbench for Grid users, Grid operators and Grid developers based on the Eclipse platform

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The simplification of the access to powerful Grid infrastructures with the help of an integrated Grid workbench tool is the goal of the g-Eclipse project. The project started on July 1, 2006 and is partially funded by the European Commission. The integrated Grid environment will address all needs of possible Grid activities and Grid actors. The current lack of an uniform Grid workbench toolbox, which will be an entry point to the Grid resources, will be removed with the g-Eclipse framework. The project plans to deliver the future workbench, bringing together new users, applications and Grid resource providers. The main goal for g-Eclipse project is to prepare integrated Grid environment for all grid activities. The idea is, that the same toolbox can be use for utilizing grids in applications, for operating and managing the grid infrastructure, and for developing grid applications. g-Eclipse will be based on Eclipse, probably the most successful IDEs nowadays. Eclipse was developed by IBM in 2001 and then turned to the nonprofit Eclipse Foundation (www.eclipse.org), to be managed as an open-source platform. The architecture of the g-Eclipse framework will be made for reuse and extension to allow for easy adaptation by new Grid applications. The g-Eclipse project will address three major groups in the Grid domain: Grid users will benefit from the Windows-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 aims for general support for different Grid middleware systems, but in the first year the g-Eclipse framework will include exemplary support for the gLite middleware. The project itself, the main ideas and the requirements to an EGEE infrastructure will be presented. First integrated tools as prototypes will be presented. The poster should help to get in touch with potential users of the framework, the gLite middleware developers as well as with other applications developers.

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