

DILIGENT - from document into computers to content across infrastructures

Friday 11 May 2007 09:00 (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).

DILIGENT aims at develop a service layer on top of grid infrastructure enabling several and different communities to share and manage content. Two case history will be provided one from environmental science, coordinated by the European Space Agency) and one from cultural heritage, coordinated by Scuola Normale Superiore di Pisa. The service layers has been developed in compliance with WSRF references and is based on gLite 3.0

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.

Currently (Jan '07) DILIGENT is about to publish the alpha version of the system whose code that for obvious reasons of confidentiality will keep private to the consortium. Nevertheless the two scenarios have implemented two different public portals to show the initial features of the system, try it and provide initial feedbacks to the development teams. Further services will be added in the next months and will be accessible to any other communities interested in see tangible results of the project.

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)

All technical problems met have been already reported trough the different mailing list and working groups and almost all have been promptly solved. Some issues remain open as the performance of some core services, the policies for short term job submission, the adoption of de-facto standards for developing grid-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

DILIGENT results will be of paramount relevance for the grid community as well as the Digital Library community. Concerning the first one, the problem of managing and share contents (thus including any type of data in this broad concept) is common to any scientific community. Other than the two communities included in the project proposal, a third one will be targeted in the next months. In particular the Exploitation team will analyze the potential impact of the usage on DILIGENT services in specific experiments of the BioMed community. Moreover DILIGENT is one of the first example of usage of the grid technology in conformity of WSRF references, the full exploitation of grid-services supplied by gLite and the extension of AuthN&AuthZ mechanism to provide a more-fine-grained access to single items.

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Session Classification: Users in the wider Grid community - from science to business

Track Classification: Workflow