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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.

Primary author: Mr MANIERI, Andrea (Engineering Ingegneria Informatica s.p.a.)

Presenter: Mr MANIERI, Andrea (Engineering Ingegneria Informatica s.p.a.)

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

Track Classification: Workflow