

A workflow engine for grid-oriented applications

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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).

Two industrial grid projects are planning to use the EGEE infrastructure in addition to their own regional infrastructure based on Globus Toolkit 2 and 4. These projects provide hardware resources and software services for small and medium enterprises (SME) in the scope of bio-informatics (RUGBI) and of simulation of polymer injection (OpenPlast).

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.

Job submission, file transfer and storage. No need for special services, but the core services have to be secure and efficient.

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)

The main issue is security, especially privacy. Indeed, for SME, confidentiality is a concern not only for data, but also for any information that would give some hints to guess what the enterprise is working on and what its strategy is. Even log messages may contain sensitive information for example. Other important issues are the cost of deployment and operation of grid components on SME sites, and their capability to integrate with site local policies and software.

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

These activities require a huge amount of computing power and expensive

software. The associated investment is not always made beneficial for such enterprises, because these activities often occur in the context of intermittent short-term projects. The grid enables SME to improve the accuracy of their computations and simulations with a reasonable cost, by sharing hardware and software resources.

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