

Grid Interoperation on Data Movement between NAREGI and EGEE gLite

Friday 11 May 2007 10:00 (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).

GIN (Grid Interoperation Now) is an activity of OGF for interoperation among production grids. Major grid projects are participating, such as EGEE, NAREGI, UK National Grid Service, NorduGrid, OSG, PRAGMA, TeraGrid, etc.). They are trying to identify islands of the interoperation between production grids and grow those islands.

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.

We have succeeded bilateral file transfer between NAREGI Gfarm and EGEE SRM (DPM) servers.

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)

For the future plan, the bilateral retrieval of file catalog information is needed for seamless file exchange between NAREGI and EGEE gLite.

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

We have implemented a Grid interoperability system on data movement (GIN-data) between NAREGI and EGEE. We have ported the srmcp (SRM Copy) module of gLite into the beta-2 version of the NAREGI software. For the file transfer interface of the NAREGI Grid filesystem (AIST Gfarm), we have developed a GridFTP-DSI (Data Storage Interface) component for the Gfarm filesystem.

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Session Classification: Data Management

Track Classification: Data Management