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Towards GLUE 2: Evolution of the Computing Element Information Model

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A key advantage of Grid systems is the capability of sharing heterogeneous resources and services across traditional administrative and organizational domains. This capability enables the creation of virtual pools of resources that can be assigned to groups of users. One of the problems that the utilization of such pools presents is the awareness of the resources, i.e., the fact that users or user agents need to have knowledge of the existence and state of the resources. This awareness requires the presence of a description of the services and resources typically defined via a community-agreed information model. One of the most popular information models is the GLUE Schema that is providing a common language to describe Grid resources for a number of Grid infrastructures. Other approaches exist undertaking different modeling strategies. The presence of different flavors of information models for Grid resources is a problem for enabling inter-Grid interoperability. In order to solve this problem, the GLUE Working Group in the context of the Open Grid Forum was started. The purpose of the group is a major redesign of the GLUE Schema that should consider: the successful modeling choices and flaws which have emerged from practical experience; use cases and modeling choices of other information modeling initiatives. In this paper, we present the status of the new model for describing computing resources as the first outcome of the working group. The purpose is to disseminate the result and solicit feedback from the community.

Primary authors: Dr KONYA, Balazs (Lund University);   Mr FIELD, Laurence (CERN);   Dr ANDREOZZI, Sergio (INFN-CNAF);   Dr BURKE, Stephen (RAL)

Presenter: Dr ANDREOZZI, Sergio (INFN-CNAF)

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