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The Evolution of the Information System in EGI/WLCG

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In a distributed system it's necessary to be able to get information about the available services and resources. This includes the existence and properties of Grid services and details about their current state. The information is structured according to a schema, which needs to be flexible enough to represent the variety of services in the Grid but simple enough to be usable. It is collected by information providers running on the services, transported and aggregated to provide a Grid-wide view, and accessed via queries from client tools. An information system comprises all these aspects.

The general structure of the information system used in the EGI/WLCG Grid was defined more than a decade ago. The representation of the information uses the so-called "GLUE schema", implemented using the LDAP technology, and information is aggregated in LDAP servers providing a view of the entire Grid. This system has been stable for some years, but is currently evolving in various ways. In this talk I will discuss the structure of the system as it is now, the changes which are currently under way, and possible directions in the near future.

Author: Dr BURKE, Stephen (European Grid Infrastructure (EGI))

Presenter: Dr BURKE, Stephen (European Grid Infrastructure (EGI))

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