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Towards a Global Service Registry for the World-wide LHC Computing Grid

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The WLCG information system is just one of the many information sources that are required to populate a VO configuration database. Other sources include central portals such as the GOCDB and the OIM from EGI and OSG respectively. Providing a coherent view of all this information that has been synchronized from many different sources is a challenging activity and has been duplicated to various extents by each of the LHC experiments.

The WLCG Global Service Registry address these issues by aggregating information from multiple information sources and presenting a consolidated view of both pledged and available resources. It aims to help the LHC experiments populate their own VO configuration databases, used for job submission and storage management, by providing them with a single point for obtaining information on WLCG resources. In addition, in-depth validation checks are incorporated into a wider system-wide strategy to ensure the information is of the highest quality.

It is hoped that this service will decouple the LHC experiments from the underlying blocks of the WLCG information system, making it easier to evolve the system in future. This paper presents the WLCG Global Service Registry architecture, its advantages compared to the current approach and how can be used to populate a VO configuration database.

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