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AGIS: Evolution of Distributed Computing information system for ATLAS

The variety of the ATLAS Computing Infrastructure requires a central information system to define the topology of computing resources and to store the different parameters and configuration data which are needed by the various ATLAS software components.

The ATLAS Grid Information System (AGIS) is the system designed to integrate configuration and status information about resources, services and topology of the computing infrastructure used by ATLAS Distributed Computing applications and services. Being an intermediate middleware system between clients and external information sources (like central BDII, GOCDB, MyOSG), AGIS defines the relations between experiment specific used resources and physical distributed computing capabilities.

We describe the evolution and the recent developments of AGIS functionalities, including new bulk update implementation for user interfaces. The improvements of information model are also shown, in particular the consolidation of computing resources definition for the ATLAS workload management system (PanDA). We will explain how the AGIS flexibility and scalability allow the transparent definition of virtual resources like Cloud and HPC capabilities recently become widely used by ATLAS.

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