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ATLAS Grid Information System

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The ATLAS Distributed Computing system provides a set of tools and libraries enabling data movement, processing and analysis on a grid environment. While reaching a state of maturity high enough for real data taking, it became clear that one component was missing exposing consistent information regarding site topology, service and resource information from all three distinct ATLAS grids (EGEE, OSG, NDGF).

In this paper we describe the ATLAS Grid Information System (AGIS), its architecture, implementation choices, security requirements and the static and semi-static data it exposes. We discuss the different information collectors, in many cases specific to a single grid flavour, and the multiple options for remotely accessing the service, along with the available libraries and output formats. Performance results show that the final component is able to serve more than the expected load coming from services and end users.

Author: PEZOA RIVERA, Raquel (Univ. Tecnica Federico Santa Maria (UTFSM))

Co-authors: GAIDIOZ, Benjamin (CERN); POULARD, Gilbert (CERN); SALINAS, Luis (Center for Technological Innovation on High Performance Computing, UTFSM); ROCHA, Ricardo (CERN); CAMPANA, Simone (CERN)

Presenter: PEZOA RIVERA, Raquel (Univ. Tecnica Federico Santa Maria (UTFSM))

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