Contribution ID: **61** Type: **poster**

Integration of the ATLAS VOMS system with the ATLAS Metadata Interface

Wednesday, September 5, 2007 8:00 AM (20 minutes)

AMI is an application which stores and allows access to dataset metadata for the ATLAS experiment. It provides a set of generic tools for managing database applications. It has a
three-tier architecture with a core that supports a connection to any RDBMS using JDBC and
SQL. The middle layer assumes that the databases have an AMI compliant self-describing structure. It provides a generic web interface and a generic command line interface.
A Virtual Organisation Membership Service (VOMS) is an authorisation system for Virtual Organisations (VO's). The ATLAS VO has a VOMS system which contains its own authorisation information.

This presentation provides an account of the development of a Java based solution to integrate
the ATLAS VOMS system to the ATLAS Metadata Interface (AMI). The prerequisites authentication and authorisation demand on grid architecture are explained. The current workings of a VOMS system and the resulting requirements this has on a client of this system
are discussed. We explore possible solutions to these requirements before detailing the mechanism behind the chosen solution and how it was integrated with the AMI framework.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

ATLAS and GridPP

Summary

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the ATLAS VOMS system to the ATLAS Metadata Interface (AMI). The prerequisites authentication and authorisation demand on grid architecture are explained. The current workings of a VOMS system and the resulting requirements this has on a client of this system
are discussed. We explore possible solutions to these requirements before detailing the mechanism behind the chosen solution and how it was integrated with the AMI framework.

It is an ATLAS Offline Computing abstract and a GridPP abstract

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Session Classification: Poster 2

Track Classification: Grid middleware and tools