



Contribution ID: 36

Type: **Oral Presentation**

## **An EMI Proposal for Storage Catalogue Consistency**

*Monday, 11 April 2011 17:00 (30 minutes)*

### **Impact**

Within the EMI project, giving a way for Storage Elements and catalogues to interact in real time in order to keep their metadata synchronized will give a higher degree of robustness to the data infrastructure. The deployment of such a common synchronization subsystem will help the overall data management systems in giving a better service to the users.

### **Overview**

This talk describes the current status of the Catalogue Consistency activity, which aims at giving to Grid Storage Elements and Central Catalogues ways to interact in order to keep their metadata synchronized.

### **Description of the work**

The previous milestone produced a prototype system, built on standard messaging tools, that was successfully integrated with LFC and DPM, and that was used as a proof of concept to show that the objective can be achieved and extended to the other Storage Element implementations in EMI. Now the activity of the working group is headed towards developing a more comprehensive specification of the messages that are needed to fulfill the objective, and towards starting to address the aspects related to security and deployment. We also highlight the fact that, given the experience of the previous milestone, some newer ideas may be applied, that may give a higher degree of integration to the whole distributed storage infrastructure.

### **Conclusions**

The EMI data group has proposed a draft specification and a prototype system built on standard building blocks with the goal of making Storage Elements interact with metadata synchronization purposes. The ideas behind these steps will be presented, together with some possible enhancements and directions.

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**Session Classification:** EMI: Software for Distributed Computing Infrastructures

**Track Classification:** Data Management - Technology