Contribution ID: **123** Type: **poster**

SAMGrid Web Services

Monday 13 February 2006 11:00 (20 minutes)

SAMGrid is a distributed (CORBA-based) HEP data handling system presently used by three running experiments at Fermilab: D0, CDF and MINOS. User access to the SAMGrid services is provided via Python and C++ client APIs, which handle the low-level CORBA calls. Although the use of SAMGrid API's is fairly straightforward and very well documented, in practice SAMGrid users are facing numerous installation and configuration issues.

SAMGrid Web Services have been designed to allow easy access to the system by using standard web service technologies and protocols (SOAP/XML, HTTP). In addition to hiding from users complexity of the system, these services eliminate the need for the proprietary CORBA-based clients, and also significantly simplify client installation and configuration.

We present here the arhitecture and design of the SAMGrid Web Services, and describe the functionality that they currently offer. In particular, we discuss various dataset and cataloging services, as well as cover in more details the techniques used for delivering data files to end users. We also discuss service testing and performance measurements, deployment plans, as well as plans for future development.

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Session Classification: Poster

Track Classification: Grid middleware and e-Infrastructure operation