



Contribution ID: 21

Type: **Parallel Talk**

Dedicated Services to Support Data Replication over GRID using ATLAS Distributed Data Management System.

Monday, 3 November 2008 14:25 (25 minutes)

There is ATLAS wide policy how different types of data is distributed between centers of different level (T0/T1/Tn) it is well defined and centrally operated activity (uses Atlas Central Services which include Catalogue services, Sites services, T0 services, Panda Services and etc). At the same ATLAS Operations Group designed user oriented services to allow ATLAS physicists to place data replication request and using Distributed Data Management (DDM) as a low level distribute data between more than 70 sites.

The DDM System consists of a bookkeeping system (dataset-based) and a set of local site services to handle data transfers, building upon Grid technologies. The software stack is called DQ2 [1].

So replication methods for physicist's requests include DQ2 service, DQ2 End-User tools [2], Web-based interface for user's requests (which is using internally DQ2 service) [3] and for replication control uses DDM/DQ2 data transfer monitoring. These methods supplement each other, because all of them are having some restrictions and policies, which are defined by ATLAS Operations Group or corresponding cloud coordinators.

[1] <https://twiki.cern.ch/twiki/bin/view/Atlas/DistributedDataManagement>

[2] <https://twiki.cern.ch/twiki/bin/view/Atlas/DDMEndUserTutorial>

[3] <http://panda.atlascomp.org?mode=reqsubs0>

Primary author: TITOV, Mikhail (Moscow Physical Engineering Inst. (MePhI))

Co-author: KLIMENTOV, Alexei (Brookhaven National Laboratory (BNL))

Presenter: TITOV, Mikhail (Moscow Physical Engineering Inst. (MePhI))

Session Classification: Computing Technology for Physics Research

Track Classification: 1. Computing Technology