The Swiss ATLAS Grid Working Group

Members

Dr. Sigve Haug (UniBe), Dr. Szymon Gadomski (UniGe), Cyril Topfel (UniBe), Geneva Two TBC (UniGe), Dr. Peter Kunszt / Dr. Sergio Maffioletti (associates from CSCS).

General Description

The Swiss ATLAS Grid consists of three sites with four clusters. These are the Tier 2 cluster Phoenix at CSCS and the Tier 3 clusters in Geneva and Bern. In Bern there are two clusters one of which is shared with the university. The infrastructure has been productive and integrated with the World Wide ATLAS grid since 2004.

In 2008 about 450 cores and 180 TB disk space will be provided for ATLAS simulation and analysis. This for the year the first LHC beam collision data will start being recorded, which will lead to a sharp increase in data volumes and in the amount of data processing. The data will be distributed from CERN via the Tier 1 computing centre in Karlsruhe.

Despite the slowly improving matureness of the deployed grid technologies, experience shows that manual work on a daily basis is required for a smooth operation. The group will therefore need to establish a shift-like way of working, distributing the competence as broadly as possible.

Since this working group represents one of the largest and most experienced grids in Switzerland, it has its natural position under the SwiNG umbrella. The numerous synergies don't need explicit statements.

Group Goals for 2008 - Brief

1. Monitor, account and manage the ATLAS data transfer in Switzerland, i.e. the T1-T2 and the T2-T3s transfers. Ensure dataset completeness, sufficient rates, LFC-dCache consistency. It includes work with ATLAS' DQ2 system, FTS, LFC, SRM, GridFTP and dCache. Communication with T1, T2 and among T3s is required.

2. Monitor and account the ATLAS jobs on the Swiss ATLAS Grid. It includes work with the batch systems, ARC front-end, LCG/gLite CE and deployment of ATLAS releases. Communication as for goal 1.

3. Support local users, i.e. Geneva and Bern physicists, in issues related to 1 and 2.

4. Enable 5% of the Tier 3 CPU resources to at least one "SwiNG application". Access will be given via the Advanced Resource Connector of the NorduGrid collaboration.

5. Apart from uncoordinated group communitcation, the group meets virtually monthly, preferably the same day as the ATLAS FZK T1 meeting.

6. The group will reconsider its existence in the latest 2008 report to the SwiNG executive board.