

SC4 Weekly Report and upcoming activities      30 October 2006.

Information from the weekly CERN group reports to internal meetings and individual IT/experiment meetings including the experiment coordination meeting of today. For detailed experiment service challenge plans and their implications on individual sites see <https://twiki.cern.ch/twiki/bin/view/LCG/SC4ExperimentPlans>

The ALICE requirements for the whole of 2007 have been added. ATLAS Monte-Carlo plans for the first half of next year are still to be added in after which a new comparison of site requirements against known resources will be made. On Tuesday the ATLAS CASTOR stager will be upgraded followed by those of ALICE and LHCb on Wednesday.

Issues raised here that have longer term implications will be added to the SC4 Combined Action list at <https://twiki.cern.ch/twiki/bin/view/LCG/SCActionList>

Both ALICE and CMS express strong interest in exploring issues of contention when multiple VOs are exercising data export from CERN. They have data sets and effort available to launch such tests any time and would like to do so as soon as possible. We will attempt to coordinate such tests with the other experiments and with selected sites.

#### ALICE:

Better data rates out of CERN but still seeing CERN and Tier 1 instabilities. CERN FTS web services are periodically suffering resource exhaustion hitting both main users ALICE and CMS.

#### ATLAS:

Several problems with different Storage Elements slowed down Monte Carlo production in the last week. They intend to produce 20 million events by the end of this year and will launch 5 million events this week. Next year they plan to increase to 20 million events per month. Reconstruction needs a new software and they do not expect to run digitisation and reconstruction in the same process so will need an extra 40TB disk over the reconstruction sites for some weeks. The Data Export exercise from Tier0 to Tier1s has stopped for now while ATLAS are performing functionality tests of Tier 1 to and from Tier 2 data transfers.

An Analysis Model workshop is reviewing the current Analysis Model of ATLAS and trying to identify shortcomings in the current situation. Its scope includes Streaming, Data Management, Metadata, Event Model, Analysis Tools and Distributed Analysis.

ATLAS want a long term solution for the problem of needing to use personal grid certificates for FTS activities.

#### CMS:

Are tuning the gLite WMS configuration with realistic loads. Job submission for CSA06 will start soon (today/tomorrow) when data

placement activities are completed. Instabilities in Tier 0 to Tier 1 data transfers are being followed up in depth on a case by case basis.

LHCb:

Have completed the test and integration of the gLite WMS with the LHCb computing framework and submitted a new production with a new version of their GAUSS application . The LHCb central Read-Write LHC File Catalog will be down for several hours on Thursday while replication to CNAF is deployed.