**From:** K Bos
**To:** atlas-tier1-coordination (Coordination of ATLAS Tier-1 sites);
**Subject:** permanent testing
**Date:** Friday, June 27, 2008 12:14:32

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All,

sorry for the dip in information over the last few days, it's slowly getting into vacation time. We are running continuous tests for two weeks now and getting more and more things automated. These tests start with a generator in the T0. It has been tuned as to keep data flowing at about 10% of our nominal rate. The files are of the normal size but there are only 3 files per dataset. We generate and export RAW, AOD and ESD's from the T0 to all T1's according to the computing model. We changed the model a bit for the ESD's because we only send one ESD copy to each T1 but then ship that copy from that T1 to all other T1's including CERN. So we also test the full T1-T1 mesh. Moreover we export AOD's to the T1's and from there to all the T2's (excluding the few that are still on SRMv1). All these data go to DATATAPE and DATADISK and represent of the order of 8 TB per week to disk for a 10% T1.

We are still using the ccrc08 project name but have added a field with the week number. At midnight on Sunday the generator is stopped automatically for 12 hours and the week-number is increased by one. We let the system export the data that is still in the queues and take a few measurements of dataset completions. Then on Monday at noon the new generator starts and the test goes on. On Tuesday morning we discuss the results of the tests of the past week and create a small report on the web. After that meeting, so on Tuesday at noon all the files from the week before are deleted from all sites. We are working on a page that automatically displays the ongoing tests with the successes and problems and the results of the tests of the previous week.

We also send a small amount of data to the 4 muon calibration T2 sites (and to NIKHEF for the trigger farm) directly from the T0. These streams are of the order of 2 TB/week.

So far this has shown to be very useful because we keep using all sites and keep fixing problems of which we have some every day. We have one person on shift during the daytime and on call during the evening and night and submit tickets and write emails to the sites

that show problems. We very much appreciate your collaboration and prompt reaction to most of those messages. We will further automate this system and plan to keep it running all the time.

There are real datataking periods foreseen for every weekend. Sometimes these are cosmic ray data (with project name data08_cos) and sometimes detector commissioning data (with project name data08_idcomm or _larcomm for example). The "plug-in" for the export of the cosmics data is always running, so when those data are registered, they will be exported according to the Computing Model (no AOD's for cosmics though). We do not export automatically commissioning data but only on request from sites. These exports and the tests descibed above run together.

Bon weekend,
Kors