

Subject: Further Steps on the Tier-1/Tier-2 tables
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Dear LCG Management Board Member

The following is my proposal for how to proceed now with the T1/T2 tables, following the advice from the Overview Board and the discussion in last week's MB. Please give me feedback, with a view to finalising this at next week's MB (19 September).

Regards, Les

(Apologies for sending you the draft - this is the final version)

Proposed process for reviewing and improving the T1/T2 relationship tables.

1. Each experiment should review with each of their Tier-1s the current version of the tables, in order to get early feedback on difficulties that the Tier-1s see in working with specific Tier-2s or with the aggregate load that they will have to support.
2. The current version of the tables should also be looked at by the OPN group to identify any networking issues that may require the attribution of Tier-2s to Tier-1s to be changed.
3. At each Tier-1 the size of the disk cache required for storage class Tape1-Disk0 must be estimated by the experiment, taking account of the expected usage of the data. If this is used only as an archive, with no re-use of the data in the cache a rule of thumb is that the disk cache should be sufficient to hold 24 hours of data. Thus about 100 GBytes of storage is needed for each MByte per second sustained data rate.
4. The OB decided that new capacity estimates using the revised startup scenario should be provided by the four experiments by the end of September (6 October in the case of ATLAS). When these numbers are available the tables should be updated, using 2009 as the reference year, and assuming that the current pledges will be maintained (http://lcg.web.cern.ch/LCG/planning/phase2_resources/P2PRCcaps300606.pdf), unless a site indicates otherwise. As the pledges are assigned to specific experiments only for 2008, for the first iteration the same relative split should be assumed for 2009, unless a site indicates otherwise.
5. When this has been done a further iteration should be made with the Tier-1 sites, taking account if possible of any change foreseen in the probable level of resource pledges. At this time all efforts should be made by the Tier-1s to adjust the balance of the resources to fit better the experiment needs.
6. Once the tables have stabilised they should be distributed for review also to the Tier-2 centres.
7. In parallel with the above steps, each Tier-1 should develop a plan to undertake a comprehensive set of tests to validate the FTS services that they will have to run to related Tier-2s and Tier-1s.
8. A target date to complete this series of points is end November, including implementation of the test programme.