Summary of the Process for Reporting Site Capacity and Usage Data for CERN and the Tier-1 Centres

This note summarises recent agreements in the MB on how installed capacity and resource usage data is reported by the sites and by the project. The note covers only CERN and the Tier-1 sites.

1. Definitions

Megatable

The table that specifies relationships between Tier-1 and Tier-2 centres, giving for each experiment inter-site data rates, sizing and utilisation of storage classes, etc. for the 2008 run. The current version is linked to the LCG Planning Page.

Regional Centre Resource Table

The table linked to the LCG Planning Page that defines the current status of the resources pledged or planned by funding agencies, organised by regional centre. This includes the current status of Annexes 6.1, 6.2, 6.3 and 6.4 of the MoU.

Harry's Table

The tables that show the experiment requirements at each Tier-1 site for computing and storage at the beginning of the current and following (1-3) quarters. The table also shows the installed (current quarter) or planned (future quarters) capacity at the site. These tables, one for each quarter, are linked to the Service Challenge wiki ($\rightarrow$ SC4 Site + Experiment Plans).

Current tables: 1Q07   2Q07

Accounting Report

The monthly accounting report prepared by the LCG project office and linked from the LCG Planning Page.

2. Installed Capacity

The installed capacity is reported by sites to Harry Renshall during the weekly operations meeting or at any other time. Planning targets should be reported for future quarters, actual capacity for the current quarter. The actual numbers should be updated whenever they change. The numbers reported should be the gross (theoretically usable) capacity installed. Harry's table will show this and also the practically usable capacity obtained by applying the standard efficiency factor (85% for Tier-0/-1 cpu, 70% for disk, 100% for tape).

The value in Harry's Table for the current quarter will be used in the generation of the monthly Accounting Report, and in the generation of the quarterly status and progress report. The value used will be that present in the table at the end of the first week following the end of the month or quarter.

3. CPU Usage

The CPU Usage and Wallclock time at Tier-1 sites will be reported by sites to the APEL Repository from the first of March. The Accounting Report for March and subsequent months will use the numbers for the month extracted from the APEL Repository at the end of the first week of the following month. No distinction will be made in the report between Grid and Non-grid submitted work.

4. Disk and Tape Usage

Disk and Tape usage will continue to be reported manually by sites (see section 7) until experience has been gained through the storage accounting pilot and the MB has decided to move to automated reporting of storage usage.

5. MoU Pledges

Changes to MoU pledges are normally reported by the funding agencies to the LCG Project Office (Chris Eck or Fabienne Baud-Lavigne). The Project Office will each year request new planning figures, but changes may be reported at any time. The pledges for the coming year are formally committed by the funding agencies during the October meeting of the C-RRB. MoU pledges are expressed in gross capacity units (without applying efficiency factors). The current values of the pledges are published in the Regional Centre Resource Table.

6. Megatable Maintenance

The Megatable is maintained by a committee formed by the LCG Resource Coordinator (Chris Eck, chair) and one person appointed by each experiment. Updates are posted on the web labelled with the date of the update, and linked to the Planning page.

7. Accounting Report

The data for the Accounting Report for CERN and the Tier-1 sites is compiled as follows.

- The MoU pledge data is taken from the current version of the Regional Centre Resource Table.
- The current installed capacity (cpu, disk, tape) is taken from Harry's Table (see section 2).
- The cpu and wallclock usage is taken from the APEL repository (March 2007 onwards) – see section 3.
- The report for the month partially filled as above is sent by the LCG Office (Fabienne Baud-Lavigne) to each site. The site must respond within 10 days providing storage allocation and usage data.
- As a temporary measure, until May 2007, the site may also correct data taken from other sources.