



Requirements to report WLCG Accounting information

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Date: 4/21/2009

Version: 3

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Purpose of this document

This document records the requirements for LHC Tier-1 and Tier-2 sites to report accounting information used by the four WLCG experiments.

The goal is to define the requirements for LHC Tier-1 and Tier-2 sites to report accounting usage by the four WLCG VOs. The WLCG MOUs Current Pledge and Resources table defines the pledges of resources from Tier-1 and Tier-2 sites to meet the needs of the LHC experiments. Both this table and the needs of the experiments are updated annually. The management and oversight bodies are charged with assessing whether the agreed upon set of resources are effectively used. The experiments also need to understand the profile of usage as well as the actual individuals using the pledged resources.

Requirements

The requirement is to provide the WLCG management with a monthly view of the tape, disk and CPU usage of a site for all 4 LHC experiments. This includes resources that are not part of the pledged resources but are allocated or available to the LHC experiments. These should be as close to 100% accurate as possible. This is measured at the end of each month.

For tape and disk the accounting is for TeraBytes used.

For CPU usage the Wall clock time, the CPU time and the calculated efficiency of CPU usage should all be included in the WLCG reports. The CPUs will be normalized according to HepSpec06 No distinction will be made in the report between Grid and Non-grid submitted work¹.

Institutions may clearly have computing resources that are earmarked for purposes unrelated to the WLCG and are not pledged to LHC Experiments as Computing Resource Levels. These resources

¹ APEL has a proposal for how to implement accounting of local use but not implemented.

are neither monitored centrally by the management of the WLCG Collaboration nor accounted as contributions to LHC computing. Any such resources that are nevertheless subsequently made available to the LHC Experiments (and used by them) will be accounted in the normal way as contributions to LHC computing.

The monthly accounting report will be prepared by the LCG project office and linked from the LCG Planning Page. The data for the Accounting Report for CERN and the Tier-1 sites is compiled using the data present on the first work day on or after the 7th day of the following month. The report for the month partially filled as above is sent by the LCG Office to each site. The site must respond within 10 days verifying the cpu data and providing storage usage data.

For each Institution, the Computing Resource used by each of the LHC Experiments are monitored centrally by the management of the WLCG Collaboration, and are reported for the previous year to the C-RRB at its spring meeting.

The WLCG Interim Policy Document on User Level Accounting is found at http://www.jspg.org/wiki/Grid_Policy_on_the_Handling_of_User-Level_Job_Accounting_Data

