



# WLCG Accounting Task Force Update

Julia Andreeva CERN

WG meeting  
14.07.2016

# Data validation for CMS

- Substantial difference in CPU/wall clock metrics in case of CMS are being investigated
- One of the reasons of the discrepancy is the problem which has been introduced in the WMAgent code which performs reporting to Dashboard. Only production jobs were affected. However, unless the fix is applied to all production workflows, Dashboard accounting data can not be used for comparison
- Working with CMS in order to use an alternative information source which might become available this month
- Either with an alternative information source which will also provide pilot consumption or using Dashboard when all production flows are again reporting correctly, the CMS comparison exercise needs to be performed on the new statistics

# Accounting @ CERN

- New accounting system is being tested at CERN
  - Uses Apache Spark to process LSF, HTCondor, Openstack and external (public) cloud records.
  - It generates summary records, not individual job records.
  - Currently testing sending job summaries to APEL (SSM).
  - Will move to production once tests are completed (for July data?).

*Slide prepared by Miguel Coelho dos Santos*

# Experiment needs for scrutiny report preparation

Based on input from ATLAS and CMS

- The following metrics are required both by ATLAS and CMS : for T1 and T2 sites normalized wall clock multiplied by number of cores and normalized CPU. They are taken either from the portal or from the monthly accounting reports. ATLAS would like to have these metrics also with daily granularity
- For T0 ATLAS needs normalized wall clock multiplied by number of cores and normalized CPU. CMS for T0, CAF and HLT farm currently uses Dashboard
- For 'Total used' disk and tape info, ATLAS uses Dashboard. CMS on the contrary takes this information from the monthly accounting reports
- Pledges are taken from REBUS
- ATLAS requires as reliable as possible average HS06/core slot at the level of the site, which is also taken from REBUS

# Other things we need to think about

- Integration of cloud usage (site resources provided through cloud interfaces) in the accounting portal
  - Topology description
  - Cloud resources use a different schema, they don't support CPU time and normalization yet, only wall times.
- Generation of the accounting reports (REBUS or EGI portal). Understand better effort required and what is possible
- CMS is using disk and tape space usage from the accounting reports. Validation?
- Normalization. Summarize how it is done now. Suggest improved scenario for the future