Accounting Update

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Outline

- **Update to December GDB was rushed**
    - Time now for more discussion
    - December Slides
- **Accounting issues were discussed at MB on December 19th and January 9th**
    - Summary
- **Storage Accounting**
    - Repeat December info with latest news

Summary of MB Decisions – January 2007

1. **Accounting should move to automatically-generated reports as soon as possible.**
   a) The APEL repository will be the source of data
   b) The target is 1st March 2007 but sites should publish data back to 1/1/2007 if possible.
   c) Sites can send an additional manual report until the end of May
   d) If sites wish their non-Grid usage to be reported to CRRB then they should use the APEL publishing tools to add this data to the repository.

2. **Tier2 Accounting**
   1. Reports to C-RRB should include Tier2 data.
   2. The source of the data will be the APEL repository.
   3. Data will be reported from 1 April 07. All T2s should be publishing by 1 September to enable report to C-RRB in October.

3. **User Level Accounting**
   1. gLite 3.0.1u10 has encrypted DN included in UR but not published by default.
   2. Sites should install this release and configure it to publish encrypted user data. Target for T1s 1 June but everyone welcome to publish
   3. No DNs will be viewable until policy agreed.

Actions

LCG

- T1s compare recent APEL cpu data for their site with their recent manual reports

- T1s consider whether they should report their non-Grid use.

- T2s check they have been publishing into APEL reliably
  - T1s help their T2s with this.

- T1s start publishing user data
  - T2s follow suit if no problems.

- OSG T2s to pass cpu data to APEL
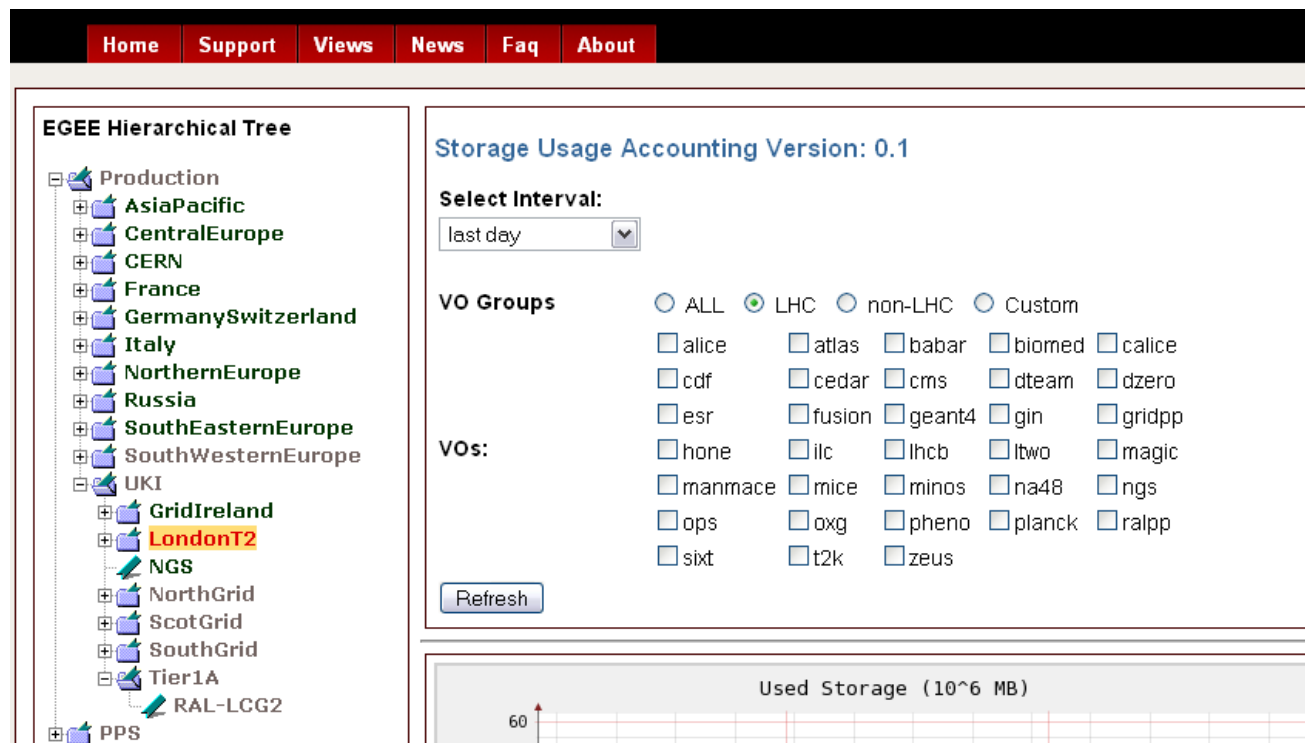
- OSG to publish user DN information

Storage Accounting

LCG

- A Storage Accounting schema has been defined

- A single storage accounting sensor at Edinburgh queries the BDII once per day to gather information on current storage usage from all EGEE sites

- This sensor populates an R-GMA archiver with the gathered information
  - StorageRecords table

- The information is aggregated per VO/Site/Month as in APEL
  - Value stored is average over the number of measurements
  - Sum(measurements)/N(measurements)

- APEL-like visualisation interface has been developed
  - Grids, countries, regions
  - Only tables for country and region implemented so far
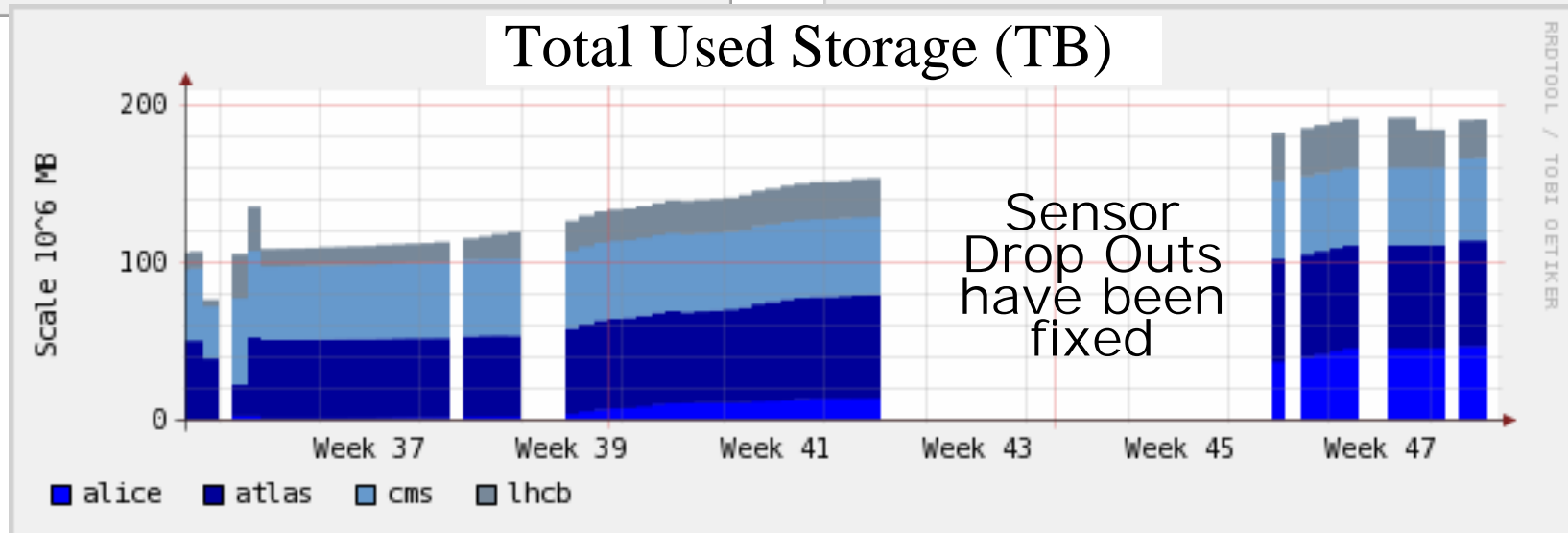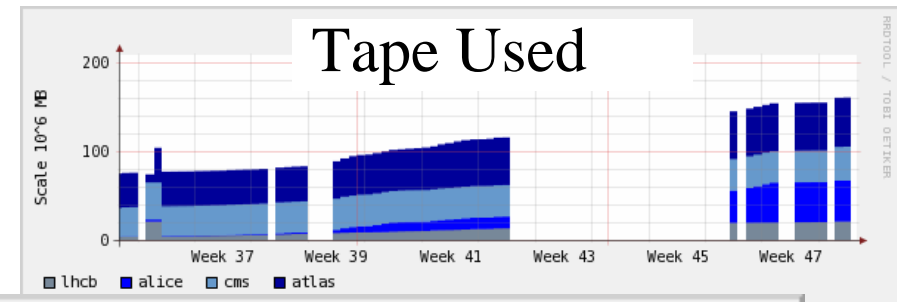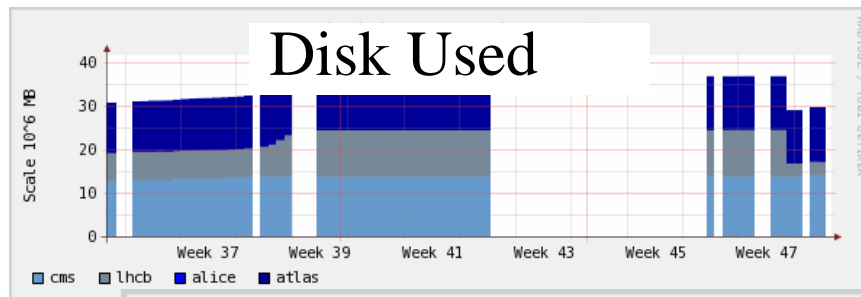 - http://goc02.grid-support.ac.uk/accountingDisplay/

Storage Accounting Display

- Visualisation of Storage Used per VO for Disk and Tape
- http://goc02.grid-support.ac.uk/accountingDisplay/view.php
  - Select Resources via a Tree
  - Select time interval (last year, last month, last week, last day)

Storage Accounting Display

- Looking at data for RAL-LCG2
- Storage units are 1TB = 10^6 MB
- Tape Used + Disk Used = Total

Disk Used

Tape Used

Total Used Storage (TB)

Sensor Drop Outs have been fixed

Issues

- Data not complete. Still only a prototype so sometimes doesn't run.

- Need to check correctness of data
  - Can T1s look at their published data and see if it makes sense?
  - Is it ready for automatic reporting?

- UK using new GIPs for DPM and dCache which report more accurate VO usage.
  - Can these be made production versions?

- More work to be done on display
  - Comments welcome