



Other services during STEP'09 *or afterwards*

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Other services

- LCG-CE
 - See next pages
- CREAM
 - Tomcat restart needed at RAL
 - File system full at CERN
 - <https://savannah.cern.ch/bugs/?48144>
- Shared SW area
 - Problems at NL-T1, GridKa, CNAF
 - Does not scale?
 - ALICE: BitTorrent!
- APEL
 - Tomcat problems
- WMS, MyProxy, glexec, WN, BDII
 - Concerns, prospects



LCG-CE (1)

- Globus-gma problems at RAL, DESY, CERN, ...
- Zombies left behind for batch system queries that time out
 - Fixed by <https://savannah.cern.ch/patch/index.php?2749>
 - In production since June 16
- Timeouts can make LCG-CE unusable for anyone
 - WMS/Condor-G jobs fail with Globus error 10
 - “data transfer to the server failed”
 - Workaround: skip jobs whose queries time out!
 - We may need to improve the algorithm
 - Patch <https://savannah.cern.ch/patch/index.php?3041>
 - Certified
- Why do queries time out?
 - Too many jobs sent to a single account!
 - See next page



LCG-CE (2)

- Too many concurrent jobs submitted to a single local account
 - Seen at RAL, DESY, CERN, ...
- Each job needs a subdirectory under `~user/.globus/job/host`
 - An ext2/ext3 directory can have at most 32000 links
- Why would anyone need to submit 32k concurrent jobs to a single account on a single CE?
 - This would not be a good idea for CREAM either
 - Even after fixing
<https://savannah.cern.ch/bugs/index.php?43830>
 - Check `#waiting jobs`, `ERT` etc. before submitting more
 - Submit evenly to all the CEs at a site
 - And ensure that all of them are checked

- YAIM bug: gatekeeper is started without globus-gma support
 - <https://savannah.cern.ch/bugs/?48588>
 - Fix certified
 - Workaround: restart gatekeeper after running YAIM
- Mapping problems at PIC, LIP, ...
 - User proxies may have primary FQANs that are not explicitly supported by the CE
 - Typically national groups within experiment VO
 - Fallback on classic grid-mapfile may give unwanted mapping
 - User jobs may unexpectedly run e.g. under “sgm” account
 - Fix 1: add wildcard catch-all rules to YAIM groups.conf
 - Fix 2: use VO_<vo>_UNPRIVILEGED_MKGRIDMAP

- WMS 3.2 for gLite 3.1 on PPS, to go to production soon
 - Can again submit to CREAM
- MyProxy
 - Single point of failure for various scenarios
- Glexec/SCAS
 - Just released to production, we need to gain experience
- WN
 - Efficiency of matching job requirements to WN properties
 - <https://twiki.cern.ch/twiki/bin/view/EGEE/WNWorkingGroup>
- BDII
 - Version 5 should be more robust
 - GFAL failover will skip “empty” BDIIs (“No entries for host”)
 - LCG_GFAL_INFOSYS should have ordered list of BDIIs
 - Some tools cannot handle that yet