APEL Accounting Summary

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Certification

LCG

- **Certification Status**
  - APEL Patch #1164 in certification (Maria Alandes Pradillo)
  - Multiple CE support added,
  - FQAN full tree extracted
  - User-DN encryption fix
  - Some enhancements to YAIM are required
    - to allow different CEs to write to the APEL database https://savannah.cern.ch/bugs/index.php?26840
    - to configure APEL to parse the accounting mapping file which is located in different places according to the flavour of CE. https://savannah.cern.ch/bugs/index.php?26837
  - Deployed at CERN and provides a much better estimate of grid-usage across multiple CEs.

Offline Processing of Accounting Data

- **User and VOMS Accounting**
  - Already seen CESGA portal and its implementation of the "Five Actors" model to provide restricted access to accounting summaries using ACLs.
  - In order to deliver User-level and VOMS-level summaries, GOC must process accounting records after they have been published by the site
    - Extract from RGMA archiver, store in offline SSL secure database
    - decrypt User-DN
    - extract Group/Role from FQAN
    - Aggregate
  - Status: Offline processor near completion, in testing.

SAM Tests

- ## SAM Tests
  - Determine which sites have NOT synchronised their accounting data with the GOC.
  - Compares the data in the site's APEL database, to the data in the GOC's database
  - Tests cannot tell us about sites that do not use APEL.
 - Tests available as RSS feeds and ready to be published into SAM.

SAM Tests

- **Two tests available as RSS feeds and described in ApelFaq pages on GocWiki**

- **ApelSyncHist Test**
  - Sites which have a significant GAP are in an ALERT state

- **ApelLastPub Test**
  - Sites which have not published accounting data in the
    - last 7 days are in WARNING state
    - Last 31 days are in ALERT state

SAM Tests

- ApelSyncHist
  - High-level summation across all VOs, similar to a checksum
- Status : to be published into SAM

RAL-LCG2				
RecordStart	RecordEnd	Record Count In Your Database	Record Count What You Published	Synchronisation Status
2007-06-01	2007-06-28	108569	108569	OK
2007-05-01	2007-05-31	122110	122109	WARN (missing data detected)
2007-04-01	2007-04-30	54236	54236	OK
2007-03-01	2007-03-31	78427	78427	OK
2007-02-01	2007-02-28	104508	104508	OK
2007-01-01	2007-01-31	68471	68471	OK
2006-12-01	2006-12-31	66713	66713	OK
2006-11-01	2006-11-30	72925	72925	OK
2006-10-01	2006-10-31	54315	54315	OK
2006-09-01	2006-09-30	55625	55625	OK
2006-08-01	2006-08-31	51020	51020	OK
2006-07-01	2006-07-31	61746	61746	OK
2006-06-01	2006-06-30	51574	51574	OK
2006-05-01	2006-05-31	44120	44120	OK
2006-04-01	2006-04-30	40256	40256	OK
2006-03-01	2006-03-31	55105	55105	OK
2006-02-01	2006-02-28	98178	98178	OK
2006-01-01	2006-01-31	91719	91719	OK
2005-12-01	2005-12-31	72680	72680	OK
2005-11-01	2005-11-30	62767	55435	FAIL (missing data detected)
2005-10-01	2005-10-31	41449	28637	FAIL (missing data detected)
2005-09-01	2005-09-30	60212	36636	FAIL (missing data detected)
2005-08-01	2005-08-31	52918	50133	FAIL (missing data detected)
2005-07-01	2005-07-31	83317	83317	OK
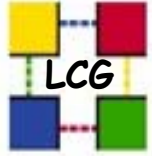
Miscellaneous

- **ETICS**
  - Patch #1164 has been ported to ETICS for gLite3.1.
  - Status: Clean remote build
- **MSA1.9**
  - Milestone describing the process of accounting: data collection (sensors), transmission to GOC and the Portal.
  - Status: Ready for comment

Summary

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- **Certification Status**
  - APEL Patch #1164 in certification.
  - Multiple CE support, FQAN, UserDN encryption.
  - Some enhancements to YAIM required
    - to allow different CEs to write to the APEL database.
    - to configure APEL to parse the accounting mapping file which is located in different places according to the flavour of CE.
  - No problems seen in certification, waiting for the YAIM enhancements …
  - Deployed at CERN and provides a much better estimate of grid-usage across multiple CEs.
- **User and VOMS Accounting**
  - GOC to process accounting records after publishing
    - decrypt UserDN
    - extract Group/Role from FQAN
    - Aggregate
  - Offline processor near completion.
- **SAM Tests**
  - Determine which sites have NOT synchronised their accounting data with the GOC.
  - Compares the data in the site's APEL database, to the data in the GOC's database
  - Tests cannot tell us about sites that do not use APEL.
  - Tests available as RSS feeds and ready to be published into SAM.
- **Porting APEL to ETICS**
  - Patch #1164 has been ported to ETICS and builds cleanly
- **MSA1.9 Status**
  - Document describing the Accounting portal and the collection of accounting data from more than one sensor is ready for comment.