

## Notes from Accounting Workshop 1 at EGI Technical Forum 2011

*Lyon, 22nd September 2011*

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This workshop, timetabled as a tutorial, was to publicise the changes planned in the APEL production infrastructure, to confirm the engagement of the other infrastructures that currently publish to it, and to discuss any emerging issues. The agenda and slides are available here

<http://www.egi.eu/indico/sessionDisplay.py?sessionId=71&confId=452#20110922>

Alison Packer from STFC gave an overview of the APEL architecture and the plans for the next year. This involved a migration to a new method of publishing (SSM) which uses the production EGI Messaging Infrastructure. Before the existing database etc can be migrated, all the systems which currently insert directly to the database will need to migrate to using SSM to publish. The window for this is planned to be December 11 to February 12.

Will Rogers introduced the Secure Stomp Messenger (SSM) which transfers files in a secure and reliable manner between sites. SSM acts as a producer and consumer, taking files from a source directory at the publishing site, signing them, encrypting them, and sending them as messages to the receiving site where they are unencrypted and placed in a target directory. The necessary handshaking is also done by messaging to confirm the delivery. By taking and placing files in a filesystem, SSM is disconnected from the system producing the accounting records so there are no issues around language, operating system, release synchronisation, etc

SSM has been deployed as a test system at RAL and a record loader deployed to read the received messages and ingest the records into a database. The code had been circulated to all interested parties - existing and potential new publishers of accounting records.

In the workshop, OSG, DGAS, CERN, and NIKHEF all confirmed that they were actively looking at the code and had started testing. In addition, SGAS, Gridsafe, the Polish Unicore accounting developers, and an ARC developer in Hungary had all said previously that they too were engaged.

### Actions:

1. STFC to release test SSM infrastructure - Done
2. Others: test publishing against the test SSM - Now
3. STFC release production SSM endpoint ready to receive production accounting - December 2011
4. Others migrate their existing publishing systems to SSM - February 12.
5. New systems can test and migrate but there is no time constraint.

### Issues:

- a) SSM uses SMIME to encrypt using the host certificate. Some CAs don't issue the SMIME attribute for host certificates. A way to get round this was suggested in the meeting.
- b) APEL currently manages ACLs itself using the host certificates defined in GOCDDB for the glide-APEL service. Earlier in the TF it was announced that the messaging infrastructure would in future implement access control itself. APEL will evaluate this in time before deciding whether they should be in addition to or in place of APEL ACLs.