

WLCG policy on *pilot jobs* submitting work on behalf of third parties

The topic of pilot jobs has been discussed several times in the GDB, and in particular at the last two meetings. At the October meeting it was agreed to make a proposal to the MB to adopt a policy requiring that sites support pilot jobs submitting work on behalf of third parties.

A [summary note](#) was prepared by J.Gordon (17/10/07) and presented to the MB on 23 October. This identified a number of issues and made recommendations for a pilot job policy. After discussion the following policy statement proposed and endorsed by the MB meeting on 6 November. Minor changes to the text were made following the discussion in the GDB on 7 November.

WLCG sites must allow job submission by the LHC VOs using *pilot jobs* that submit work on behalf of other users. It is mandatory that the experiments' pilot job frameworks use the approved identity-changing mechanism in order to change the job identity to that of the real user, and it is mandatory that the site actually causes the identity to be changed whenever the mechanism is invoked in a valid way. These two requirements are made in order to avoid the security exposure of a job submitted by one user running under the credentials of the pilot job user.

Implementation of this policy is subject to the following pre-requisites:

1. The identity change and sub-job management must be executed by a commonly agreed mechanism that has been reviewed by a recognized group of security experts. At present the only candidate is *glexec*, and a positive review by the security teams of each of the grid infrastructures (OSG, EGEE) would be sufficient.
2. All experiments wishing to use this service must publish a description of their pilot job frameworks. A positive recommendation to the MB on the security aspects of the framework by a team of experts with representatives of OSG and EGEE is required. The frameworks should be compatible with the draft JSPG *Grid Multi-User Pilot Jobs Policy* document.
3. *glexec* testing: *glexec* must be integrated and successfully tested with the commonly used batch systems (BQS, PBS, PBS pro, Condor, LSF, SGE).
4. *LCAS/LCMAPS*: the server version of *LCAS/LCMAPS* must be completed, certified and deployed.

The policy will come into effect when the MB agrees that all of the above pre-requisites have been met.