

LHCb GA usage.

VOMS GAs are planned to be used by LHCb for holding "nicknames" (based on CERN AFS login name if it exist) meant to be immutable and uniquely associated to physical members of the VO. This nickname is entered by hand by the VOadmin.

LFC will be the first EGEE service that will have somehow to use the concept of GAs inside. We asked indeed for modifying the *CMS usertable* on LFC to grab further metadata information. These lasts will be filled up by VO Managers using the information contained on the VOMS DB and "ad hoc" LFC administrative commands.

The main reason of having GA is mainly for **cosmetic purposes** (displaying information of directories and files) and for creating user directories on the LFC namespace reflecting the same structure and the same friendly view as user is habit on AFS. The same will be applied to the SE namespace.

LFC will not use of course the GAs for authorization/mapping purposes nor for managing ACL. DNs changing are still mapped to different local accounts (virtual ID) even exposing the same GA values.

It will be up to the VO to keep the information contained on GAs consistent and meaningful; none of the grid "vomsified" services has to check for their contents and more in general we do not ask for grid service understanding GAs.

VOMS GAs will also be used inside DIRAC framework for managing **the uniqueness of LHCb grid users** (in this case irrespectively of their DN changing). The VOMS DB will be directly accessed (via voms-admin clients) by DIRAC services for retrieving the GAs of all VO users. Then the LHCb authentication and authorization service using voms-proxy-info client will cross check for the identification of the user.

In this same context the GAs will also be used for other activities within DIRAC like assigning priorities and computing users fair shares based on the immutable nickname.

It is worth to emphasize once again that we do not require any Grid service understanding really GAs. We will manage our selves the information contained and we will be responsible on their correctness and consistency.

Expressed aims for this discussion:

1. an interface to VOMRS to fill up these values at registration time
2. GAs are then shipped with voms proxies (VOMRS/VOMS sync)
3. a way to display them for each users
4. a way to retrieve them from VOMS via voms admin commands