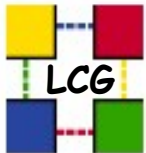




LCG

User Registration & VO management

Spring HEPiX
Edinburgh



Presentation Outline



- Why is LCG Registration worth talking about.
- How do we register users today.
- What needs to be changed according to the new LCG User Registration Requirements document.
- How do we go about meeting these requirements; Activities of the dedicated Task Force.



Why is Registration worth talking about



Because “getting on the LCG Grid” means being:

- Authenticated (by means of a personal digital certificate),
- Registered with a Virtual Organisation (VO),
- Authorised to use LCG resources in order to, finally:
- Submit a job to the Grid!

Steps explained in the [User Introductory page](#)



How do we register users today



Users must read the 5-page long LCG Usage Rules, governing the use of Grid resources. If they agree to adhere to these rules, then they:

1. Obtain a valid X.509 personal digital certificate from their Certification Authority (CA).
2. Load that certificate onto their browser to provide their DistinguishedName (DN).
3. Fill the LCG Registration Form to:
 - Confirm their adherence to the LCG Usage Rules.
 - Select the VO they are affiliated with.



Getting in the Registration database



Registration data:

- Family Name
- Given Name
- Institute
- Email Address
- Telephone Number

The user's Email Address is checked via an automatic message containing a URL which the user must open to complete the registration process.



What happens behind the scenes



- Successful registrations are added in one common directory for Registration data and separate VO management directories for each VO.
- The Registration and the DTEAM VO directories are physically at CERN, the experiments' VOs are hosted at NIKHEF.
- Successful registration completion results in an automatic email request to the relevant VO manager, signed by the registration server's certificate, to include the user in their VO.



Getting in the VO database



- The VO manager checks with the Institute Representative whether the user should be accepted and whether his/her data are correct.
- (S)he uses a set of EDG scripts and/or the LDAP commands and browser to add the new member to the VO.
- (S)he notifies the user and all site contacts about the admission of a new member in the VO for addition to local registration databases.



What Authorization means



What we saw so far shows that there are 2 parts of the process:

1. The Usage Rules' acceptance.
2. The LCG Resource usage permission, which entirely depends on the VO.

At this point the user gets included in the grid-map file that authorises him/her to use sites' resources. (S)he can generate a proxy certificate and submit jobs to the Grid.



New LCG User Registration Requirements



- A new document, presented at the 18 May 2004 Grid Deployment Board (GDB), includes:
- The requirement to avoid duplication of data and procedures by using existing reliable information sources of membership data.
 - Introduction of a "User Registration Date" and a "User Participation-End Date" to facilitate regular checks of user data validity.
 - Introduction of a "suspended status" for users associated with security incidents, giving a light-weight mechanism to temporarily ban users at the level of the VO.



Task Force to meet these requirements



- Its creation was mandated after the March 8th 2004 GDB.
- **Basic goals:**
 - 1) Meet the robust registration process as now proposed in the Requirements document.
 - 2) Investigate the use of existing sources of information.
 - 3) Achieve all possible compatibility between the requirements and existing proposed solutions.
- **Members:**
 - Maria Dimou (LCG Registrar and DTeam VO manager),
 - Joni Hahkala (VOMS admin. development Leader),
 - David Kelsey (LCG Security Group Leader),
 - Tanya Levshina (VOX Project leader),
 - Ian Neilson (TF coordinator, LCG Security Officer).



Task Force's actions and plans



- Looked at LHC Experiments' Registration procedures.
- Evaluating CERN HR database as an information source for LCG membership data.
- Started investigation of existing tools' (VOMS and VOMRS) compatibility with each other and with the requirements.
- Aiming at forming a proposal for the GDB of July 13th 2004.

• Thank you!