



Procedures for introducing new Virtual Organisations to EGEE

NA4 Open Meeting
Catania

Maria Dimou



Presentation Outline



Steps to integrate a new VO into LCG/EGEE:

1. A site has to run the VO server and Registration Service,
2. A site (same or different) has to run the Replica Location Service (RLS) and
3. Several sites have to agree to support this new VO, i.e. to provide CPU and storage resources in the service of the VO members.

Maria Dimou



Step 1: Registration & VO server options



1. Use the LCG LDAP server, appoint your VO manager, use the LCG registration service.
2. Set-up your LDAP server, appoint your VO manager, use the LCG registration service.
3. Set-up your LDAP server, appoint your VO manager, set-up your registration service.
4. No LDAP server, appoint your VO manager, set-up a new registration service.

Maria Dimou



More on Step 1 Option 1



LCG LDAP server, your VO manager, LCG registration service:

- Appropriate for initial tests that will involve a limited number of users, on the order of 10, and will use only a limited amount of data and CPU.
- Ask your community to register with NA4test, an 'umbrella' LDAP-based VO, configured at CERN, that will host EGEE VOs at the beginning.
- The advantage is that, if you are responsible for such a VO, you have nothing to set-up.
- Make sure your NA4 ROC manager is informed about your choice.
- NA4test VO managers contactable via project-egee-vo-na4test-admin@cern.ch.
- Other VOs handled according to this model: DTEAM and SixT.

Maria Dimou



More on Step 1 Option 2



Your LDAP server, your VO manager, LCG registration service:

- We offer instructions for setting up your LDAP server in <http://cern.ch/grid-deployment/cgi-bin/index.cgi?var=gis/vo-setup>
- You communicate to us the email of your VO manager.
- We (LCG) configure the prompt for your users to register in <https://lcg-registrar.cern.ch>
- VOs handled according to this model: The four LHC experiments, the (non-LHC) experiments H1, Zeus, BaBar, D0 and the EGEE biomedical VO.

Maria Dimou



What the LCG Registration looks like 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.

Maria Dimou



More on Step 1 Option 3



Your LDAP server, your VO manager, your registration service:

- Use the LDAP set-up instructions <http://cern.ch/grid-deployment/cgi-bin/index.cgi?var=gis/vo-setup>.
- Take the LCG-Registrar scripts for processing the user requests from CVS location: http://lcgdeploy.cvs.cern.ch/cgi-bin/lcgdeploy.cgi/www_lcg_registrar/cgi-bin/register/
- We offer an example on how to use these scripts in the [DTEAM VO update procedure](http://cern.ch/grid-deployment/cgi-bin/index.cgi?var=gis/dteam-update) <http://cern.ch/grid-deployment/cgi-bin/index.cgi?var=gis/dteam-update>.
- VOs handled according to this model: None (?)

Maria Dimou



More on Step 1 Option 4



No LDAP server, your VO manager, a new registration service:

- Using VOMS/VOMRS instead of LDAP is our aim because:
 - CN name clashes are not allowed in the LDAP model.
 - One can only belong to a single VO.
 - LDAP doesn't contain the user's "Role" in the VO.
- LCG operates a test VOMS server populated with the 4 LHC experiments' and the DTEAM VO members.
- VOMS-admin bug-fixing work is going on in the LCG Deployment Team.
- There is a need to coordinate better EGEE and LCG evaluation and testing efforts in this area.

Maria Dimou



Propagating a new VO to the Grid



As soon as a VO is configured the following lines will be added in the grid-map configuration file of each Computing Element (CE), Resource Broker (RB) and Storage Element (SE):

For LDAP VOs:

```
group ldap://your-ldap-server-fully-qualified-hostname/ou=group-in-your-vo,o=your-vo,dc=lcg,dc=org .<name of the userids'pool>
```

Or for VOMS VOs:

```
group vomss://your-voms-server-fully-qualified-hostname:8443/edg-voms-admin/your-vo .<name of the userids'pool>
```

A valid user entry in *your-vo* will automatically appear in the grid-map file as:

```
"/C=CH/O=CERN/OU=GRID/CN=Firstname Familyname" .your-vo
```

Maria Dimou



VO integration Step 2: RLS



- This step is optional.
- If you wish your VO to appear in the Replica Location Service (RLS) either:
 - You have to identify a site that agrees to run the RLS for you. project-lcg-vo-sites@cern.ch contains all the site administrators.
 - If you decide to set-up your own RLS, please search for the relevant instructions in <http://goc.grid.sinica.edu.tw/gocwiki/AdministrationFaq> contact the deployment team at CERN : support-lcg-deployment@cern.ch

Maria Dimou



VO integration Step 3: support from sites



- Several sites have to agree to support your new VO, i.e. to provide CPU and storage resources in the service of the VO members.
- You should get in contact with sites that agree to host these services and grant access to their resources. project-lcg-vo-sites@cern.ch contains all the site administrators.
- Markus Schulz will explain site integration into EGEE.
- Ian Bird (Ian.bird@cern.ch) should be contacted if you decide to deploy an new VO. He will pass the information to us in the Deployment Team for action.

Thank you!

Maria Dimou