

# VOMS

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HEP Sysman meeting  
27-28 April 2005

# Situation

- At the moment a user to get access to resources has to
  - Be in a VO LDAP database
  - Register at CERN after having read the LCG Usage Rules
- After this they get access to the resources through the grid-mapfile mechanism and they are mapped on local pool accounts.

# Problems

- A user cannot belong to more than one VO
- A user cannot have more than 1 role in a VO
- A VO cannot have subgroups
- A VO is not in charge of the whole registration process.
  - If the VO is an LHC experiment that's fine but other VOs struggle especially small ones

# VOMS

- Plus

- Can solve the above problems
- It is now at the stage of being deployed also by common mortals
- It is well documented
- The developers are quite responsive
  - Italians ☺

- Minus

- It is not fully integrated in the LCG software
- There are 2 distributions gLite and LCG gLite is better but probably incompatible with LCG

# Not fully integrated?

- It can be deployed in three ways:
  - Obsolete: extract the information from VOMS put it in ldap server and point mkgridmapfile.conf to the ldap server
  - Current: point the mkgridmapfile.conf directly to the VOMS server
  - Future: forget about mkgridmapfile.conf and use only VOMS through LCAS/LCMAPS
    - This is there since LCG2\_4\_0 but haven't tried yet.

# What is there now

- VOMS server has been installed in Manchester
  - Originally for the UK testzone should have supported only a gridpp VO
  - Now we have started to use it to support MICE VO
  - It still uses the current method of building the grid-mapfile directly from the VOMS because that is the easiest way of deploying at the moment.

# What is there now (2)

- It can support multiple VOs and the VO manager doesn't have to be local to the machine.
- It is not production service yet.
  - It has been demonstrated to work last week
  - The MICE and GridPP VO have been created informally and it is not an "official" VO
    - There are procedures to become an official EGEE VO
  - We still need at least an RB that inserts the VOMS entries in its grid-mapfile
- Apart from these small problems it can be used

# How to use it

- To register to a VO load your certificate in your browser go to
  - <https://voms.tier2.hep.man.ac.uk:8443/edg-voms-admin/VO-name/index.html>
    - VO-name is either mice or gridpp
  - Follow the links on the left bar side
    - Request to admin
    - Requesting VO membership
  - They'll bring you to a form that you have to fill
  - After that the VO manager (me for now) will approve or reject your request.
  - After approval you will receive an email for confirmation (like for some mailing list)



# How to use it

- UI client software is included in LCG2\_4\_0
  - *Create a file /opt/edg/etc/vomses/VO-name.voms.tier2.hep.man.ac.uk with the informations for that VO*
  - VO-name Vo-server-name VO-port VO-server-dn VO-name

# How to use it

- CE,SE,RB client software is also included and to create the gridmapfile you have to add to edg-mkgridmap.conf the following line:
  - group  
vomss://voms.tier2.hep.man.ac.uk:8443/edg-voms-admin/VO-name?/VO-name/lcg1 .VO-name

# Voms-proxy-init

- To create a proxy the command line is `voms-proxy-init`
  - Without arguments it behaves like `grid-proxy-init`
  - With arguments it allows to chose the VO and the role and the subgroup you want the proxy for.
  - Unfortunately because we are not using the full VOMS features the options are a bit useless at the moment

# Conclusions

- VOMS is a good system
- We can start to use it and play with it without having to fight with the software installation or configuration because everything is very simple and neat
- If you want to try it or if any of your users might be interested let me know.

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