



Enabling Grids for E-science

VOMS-Admin developments

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Information Society
and Media



- **Voms-Admin 2.0.4 is now in certification**
 - oracle oci driver support
 - minor fixes for compatibility with glite configuration scripts
 - fixes for cli client on python 2.3

- **Should go in production quite soon**
 - Strong requests from the VOs

- **JSPG compliance**
- **Multiple certificates support**

- **Planned for**
 - VOMS-Admin 2.5
 - VOMS 1.8.0

- **ETA: October 2007**

- **Joint upgrade of core and admin is required to get the new features**

- **JSPG rules compliant registration service means**
 - Multiple certificates support
 - Support for suspension/expiration of VO users
 - Support for management and versioning of VO Acceptable Usage Policy (AUP)
 - Support for users requests for
 - Group membership
 - Role assignment
 - Generic attributes assignment

- **VOMS currently has a 1-to-1 coupling between VO members and certificates**
 - each (DN,CA) couple represents a member
 - attributes are mapped to each (DN, CA) couple

- **However**
 - We need to handle user's certificate expiration more gracefully
 - Allow for aliases (multiple identities) for the same VO membership

- **Users, once registered, can request the addition of other certificates to their membership**
 - This operation needs the VO-Admin authorization
- **The identities/aliases share the VOMS attributes info**
 - Groups
 - Roles
 - Generic Attributes
- **VOMS keeps track of certificate validity**
 - warn users when certificates are about to expire:
 - via email
 - at voms-proxy-init time

- **Currently not supported in VOMS/VOMS-Admin**
 - but required for JSPG compliance
- **Needed to:**
 - Suspend users if they have not agreed to the more recent version of the VO Acceptable Usage Policy (AUP)
 - Suspend users after a security incident
 - Suspend users after a given period of time
- **Suspension will be implemented at the certificate level**
 - If you want to completely suspend a membership, suspend all the associated certificates
- **Users will be informed of suspension**
 - via email
 - at voms-proxy-init time

- **Existing APIs will continue to work as expected**
 - however distinct certificates will appear to VOMS as distinct VO members (exactly as today)
- **New APIs will be provided to manage**
 - user certificates
 - suspension

- All Operations on the VOMS DB are authorized via ACL
- **ACLs are (Context, Principal, Permission) triples**
 - The Context is a FQAN
 - The Principal is either
 - a (DN, CA) couple
 - a FQAN
 - ANY_AUTHENTICATED_USER
 - The Permission states what the principal can do in the Context
 - List/Add members to a Group/Role
 - Create subgroups
 - Manage attributes
 - Manage requests/subscriptions pertaining groups/roles

voms admin

for VO: omieurope

Current user: Andrea Ceccanti

[VO management](#) [Subscriptions](#)

[Other VO's on this server](#)

Manage

- [Users](#)
- [Groups](#)
- [Roles](#)
- [Attributes](#)

ACL management for group /omieurope

Access control list:

Admin DN & CA	Container	Membership	ACL	Attributes	Requests	Add entry	
/omieurope/Role=VO-Admin VOMS Role	rw	rw	rwd	rw	rw	edit	delete
Any Authenticated User Dummy Certificate Authority	r	r	r	r		edit	delete
omii001.cnaf.infn.it INFN CA	rw	rw	rwd	rw	rw	edit	delete
Valerio Venturi INFN Certification Authority	rw	rw	rwd	rw	rw	edit	delete

Default Access control list:

Default acl not defined for this group.

[Add entry](#)

Membership details for group /omieurope

Generic attributes management for group /omieurope

- **It's impossible to group administrators without using FQANs**
 - However most administration tasks could have nothing to do with VO Membership and VOMS attributes
 - e.g., VO-Manager or Insitute Representatives JSPG “roles”
- **It is difficoult to create a hierarchy of administrators in order to delegate administration tasks**

- **Very simple framework to organize administration activities on the VOMS DB**
- **Tags are basically labels that may be assigned to VO admins/users**
 - group together admins with the same permissions/responsibilities
 - used only for authorization purposes on VOMS-Admin
 - do not represent information that will end in users' voms proxies
- **Tasks are VOMS administrative operation that can be assigned to Tags (i.e., to group of admins/users)**
 - e.g., Approve group membership, Accept VO AUP,...

- **Simple notification service**
 - VO managers can send email messages to group members, members with a specific role,...
- **The core functionality is already implemented and used in the current simple registration service**
 - Will be augmented to incorporate Tags support
- **Need to work on a usable WEB UI**