



VOMRS/VOMS-Admin 2.0.x 2.5.x comparison

Overview

- Converging on a Common VO Membership Registration Solution
- VOMRS / VOMS-Admin features/requirements comparison

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Converging on a Common VO Membership Registration Solution

- We have a small community and 2 user registration solutions: VOMRS and VOMS-admin
- VOMS-admin is emerging as a valuable alternative to VOMRS, but there are VOMRS requirements not addressed in VOMS-admin (see later)
- We encourage a path where we converge on a single comprehensive solution for our community
- We are committed to supporting all fundamental VOMRS requirements of our stakeholders

Implementation Details

Name	Persistence layer based on	Technologies	Web services
VOMRS	oracle/mysql drivers	Java Java servlet Javascript CSS	Provides WSDL interface to its functions
VOMS-ADMIN 2.x.x	hibernate	Java Java servlet Javascript CSS Struts	Provides WSDL interface to its functions

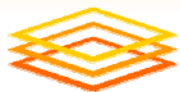
VOMRS/VOMS features comparison (I)

VOMRS	VOMS		Comments
	2.0	2.5	
Member's status	No	No	In voms 2.5 member's status is defined by status of member certificates. It is required more work for VO Admin in order to suspend a member, also it is unclear from the certificate status why it has Expired status. It could be due to certificate expiration date or because vo membership is expired. Initial requirements for VOMRS.
Multiple certificates per member	No	Yes	Initial requirements for VOMRS.
Member's certificate status	No	Yes	VOMS 2.5 will also dynamically update certificate expiration data and notify user
Member institutional expiration	No	No	VOMRS could extract institutional expiration from third-party application, when configured to talk to third-party directory. Requested by CERN.
VO membership expiration (bound to AUP version)	No	Yes	Requested by GDB
Member's ability to request approval for a new certificate	No	Yes	Requested by 4 major experiments (CMS, Atlas, Alice, Lhcb)
Member's ability to request membership in a group	No	Yes	Requested by 4 major experiments
Member's ability to request assignment of group role	No	Yes	Requested by 4 major experiments
Member's VOMS GA	Yes	Yes	Requested by 4 major experiments
Group membership access (Open/Restricted)	No	No	Requested by 4 major experiments

VOMRS/VOMS features comparison (II)

VOMRS	VOMS		Comments
	2.0	2.5	
Group definition	No	No	Requested by 4 major experiments
Group role membership access (Open/Restricted)	No	No	Requested by 4 major experiments
Group role definition	No	No	Requested by 4 major experiments
Ability to attach group role to group	No	No	Requested by 4 major experiments
Dynamic list of collected personal information	No	No	Initial requirements for VOMRS. VOMS-Admin collects predefined information: Email Institute Phone number But voms-admin 2.5 could embed shibboleth attributes inside VOMS ACs
Event subscription	No	No	Initial requirements for vomrs.
Interfacing third-party directory during registration	No	No	VOMRS -> CERN HR DB: checks CERN registration and membership in a particular experiment. Requested by CERN.
Interfacing third-party directory during membership validation	No	No	VOMRS -> CERN HR DB: checks cern registration expiration, cern email. Requested by CERN.
Sending subscription events to a third-party	No	No	Sending relevant information to SAM DH system (DZero VO). Requested by Fermilab.
AUP management and versioning	No	Yes	Requested by GDB

VOMRS/VOMS features comparison (III)



Open Science Grid

VOMRS	VOMS		Comments
	2.0	2.5	
Various VO administrators with well defined responsibilities and rights (defined by administrative roles and permission to execute service)	The permission is set via ACL (Context, Principal, Permission)	Yes, will be implemented via tags and tasks	Initial requirements for VOMRS
Registration workflow	Partially	Unclear	Initial requirements for VOMRS. In VOMS 2.0 only VO Admin can approve member. Based on introduction of admin roles in VOMS 2.5 it will probably be implemented
Configurable online help in web ui	No	No	On todo list for voms 2.5
Access to AUP (embedded into web page or url)	No	URL only	AUP url access is requested by Fermilab , locally stored AUP is requested by GDB
Web UI: Sortable output, selectable output information	No, but pagination is implemented	No, but pagination is implemented	Initial requirements for VOMRS
Ability to execute actions for multiple user simultaneously	No	No	Requested by multiple VO administrators
Authorization-aware web ui	Yes	Yes	Initial requirements for VOMRS