

Group Management APIs and Resources Sub-group

Results and Deliverables

- [COmanage / Entity Registry Gap Analysis](#)
- [Copy of COmanage / Enterprise Registry Gap Analysis](#)
- [IAM Functional Model and IAM Glossary](#)
- [IAM Glossary of Terms](#)
- [Instrumenting and Monitoring TIER Components--First Steps in a Long Journey](#)
- [Minimal/Thin Entity Registry](#)
- [TIER API Basic Group Management Operations](#)
- [TIER API: Basic Person Management Operations](#)
- [TIER SoR-Registry Core Schema](#)
- [TIER Standards and Guidelines](#)

Current Tasks

I. Draft API specifications for the most commonly used group management functions using [Swagger 2.0](#)

- Our initial assumption was that the three most basic group management calls were:
 - Is this person a member of this group?
 - List the members of a group
 - List all the groups for which a given person is a member
- Assumption check: [U of Washington Group Service Statistics, Jan, 2016](#)

U Dub's eight most heavily used Group ops	Chris Hyzer's top three group operations
1) isMember (or hasMember)	1) isMember (or hasMember)
2) getMembers (of a group)	2) getMembers (of a group)
7) get/search Groups (of a member)	3) getGroups (of a member)
3) getGroup	
4) putGroup	
5) getAllMembers (of a group)	
6) putAllMembers (of a group)	
8) put/delete member to/from Group	

II. Draft the data schema for the group entity itself

III. Define APIs needed to support a RESTful subject source for use by Grouper

Prior Work on Group Management APIs

- [Grouper](#): See the REST-style versions linked from the linked page. For example, to find out if a person is a member of a given group,
 - See hasMemberLite at <https://spaces.at.internet2.edu/display/Grouper/Has+Member>
 - [Example](#)
 - [RESTful Subject Source for Grouper to Complement the LDAP and SQL Protocols Already Supported](#)
- [VOOT2](#) protocol from SURFnet
 - Maarten Kremers confirmed that VOOT2 is only about GETs.

- VOOT2 protocol expressed as valid swagger2. See [VOOT2 swagger yaml](#) used for input into editor.swagger.io (to obtain resulting swagger API documentation)
- University of Washington [Group Service](#), Jim Fox
- [SCIM](#): See both the Protocol Specification [RFC7644](#) and Core Schema Specification [RFC7643](#). Marlena Erdos comment: Quite rich group operations for read (and search) and write, quite fully documented -- and quite low level. Applies to a client contacting a server (natch, but this in contrast to Grouper)
- [CIFER](#): See the page [Authorization Standard API](#).
- FYI, Group Mgt used in some research communities:
 - [VOMS](#) - Virtual Organization Management Service. Used by the international Grid and Open Science Grid communities. Uses X.509 attribute certificates.

Resources

- <https://openapis.org/>
- <http://swagger.io/>
- <http://raml.org/>