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

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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/