



Group Memberships

Danny Zollner (Microsoft) and Anjali Sehgal (AWS)



Current Problems

- Group memberships are represented by multi-valued attributes that can commonly have hundreds of thousands of values.
- Pagination in SCIM only applies to responses containing multiple resources, and a single resource cannot be paginated.
- The potentially large size of groups combined with the inability to paginate membership data makes managing large group memberships impractical.



Specific Problems

- Pagination
- Tracking membership changes



Potential Solutions

- Protocol extension to introduce pagination for all multi-valued attributes
 - [draft-hunt-scim-mv-filtering-00 \(ietf.org\)](#)
- Schema extension to introduce group memberships as a resource
 - /GroupMembers or /Groups/<id>/members
- Protocol/Schema extension to introduce mechanism to represent any multi-valued attribute as a resource
 - /Groups/<id>/members
 - /Users/<id>/entitlements