## The Cornell Federation Dr. Shepard at Ithaca Campus Using Shibboleth and Grouper to Integrate Separate Identity Management Systems at Cornell University Shibboleth Identity Providers Directories Grouper Shibboleth provides a standards-based Creates group link between existing intra- or cu:vet:lymecollab Med School-NYC inter-campus Authentication Adds members uid=dsmith, ou=people, dc=med, dc=cornell, dc=edu Med School-NYC systems and resource providers, edupersonprincipalname=dsmith@med.cornell.edu isMemberOf:cn=cu:vet:lymecollab,ou=groups,dc=med,dc=cornell,dc=edu e.g. a restricted web site. Dr. Shepard in the Vet School on the Ithaca campus is setting up a restricted website for some collaborative work between the Vet Grouper helps campuses manage information college and CUMC on diagnosing and associated with AuthZ, e.g. group treating Lyme disease in dogs and memberships. Grouper understands people. Dr. Shepard creates a the concept of multiple sources of Grouper group in the Vet school stem NetIDs-Ithaca identities. Grouper will replace Cornell's called "cu:vet:lymecollab" and adds Dr. Thani at Permit Server in June 2007. uid=jms67, ou=people, o=cornell university, c=us his collaborators to the group. NetIDs-Ithaca edupersonprincipalname=mps22@cornell.edu The Grouper LDAP Provisioning sMemberOf:cn=cu:vet:lymecollab,ou=groups,o=cornell university,c=us Qatar Campus Connector automatically populates the appropriate has Member and Dr. Thani has some data ready to post isMemberOf attributes in the Ithaca, to the collaborative research project CUMC and Qatar directories. website. Dr. Thani goes to the Dr. Shepard then creates a Shibboleth https://lymecollab.vet.cornell.edu Service Provider (SP) for his https://lymecollab.vet.cornell.edu website with her browser and is GuestIDs-Ithaca redirected to the Cornell Shibboleth website and tells the Shibboleth SP WAYF. She selects Qatar as her Attribute Acceptance Policy to uid=jdoe, ou=people, dc=guests, dc=cornell, dc=edu GuestIDs-Ithaca edupersonprincipalname=jdoe@guest.cornell.edu Shibboleth Identity Provider, and logs require the "isMemberOf: sMemberOf:cn=cu:vet:lymecollab,ou=groups,dc=guests,dc=cornell,dc=edu in with her UserID. The Identity cu:vet:lymecollab" attribute value Provider checks her Attribute Release for this site. Policy and contacts the Qatar LDAP 77 70 -00 Directories reside and are managed directory for the attributes, including on the local campuses. The Grouper Lyme Research "isMemberOf". The Shibboleth Service LDAP Provisioning Connector will Thani is a member. cu:vet:lymecollab group and allows bar access to the websit Collaboration populate the directories with Attribute Acceptance Policy group membership information. isMemberOf=cu:vet:lymecollab Med School-Qatar Website uid=mst222, ou=people, dc=qatar, dc=cornell, dc=edu Med School-Qatar 6 Attributes sent edupersonprincipalname=mst222@qatar.cornell.edu sMemberOf:cn=cu:vet:lymecollab,ou=groups,dc=qatar,dc=cornell,dc=edu thentication request The Shibboleth Service Provider checks authorization for the Authentication and attributes Lyme Research Collaboration website based on group membership information in the user's directory of origin. 1 Dr. Thani requests website access

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