

# GEC 11 Software Track Outbrief

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**[www.geni.net](http://www.geni.net)**

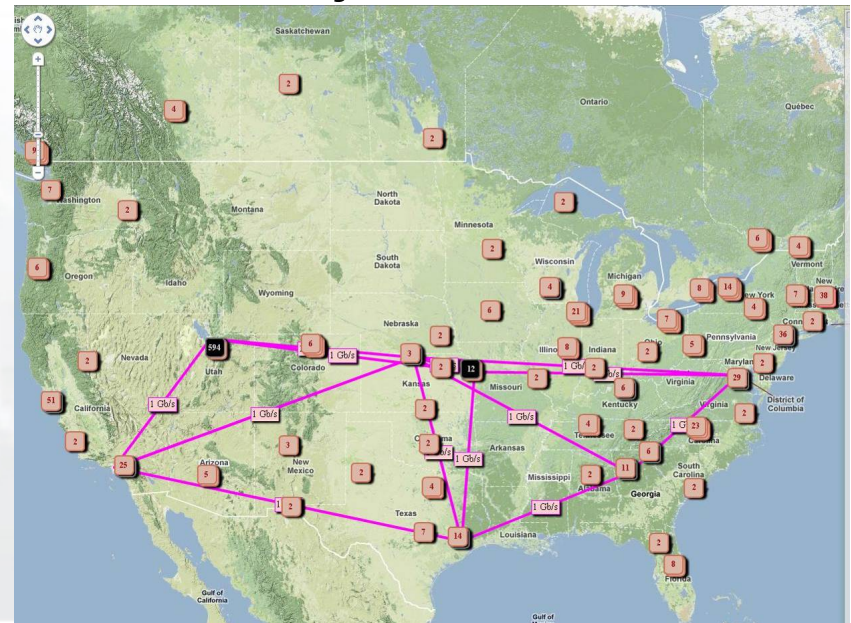


- Attribute-Based Access Control (ABAC) trial
- Demonstrated prototype integration with ProtoGENI Aggregate Manager and Slice Authority
- Jeff Chase
  - Described ORCA integration of ABAC
  - Trust structure
- Next Steps
  - Possible integration an experimenter tool (ie. Flack)
  - Develop vocabulary of GENI authorization
  - Continue ProtoGENI and ORCA integration

- GENI Project Office is now a member of InCommon
- Demonstrated prototype GENI identity portal
  - Uses external identity providers (Shibboleth)
  - Generates GENI certificate and credentials
- Ken Klingenstein
  - State of Identity Management
  - User-managed release of attributes
  - Gotchas that GENI should watch out for
- Next steps
  - Integrate identity portal with a few InCommon identity providers
  - Flesh out and tease apart capabilities of identity portal

- Described the structure of the GENI federation
  - the federation benefits resource providers and experimenters
  - requirements ensure all members benefit equally, manage risk
- Listed key players and the policies/agreements that will bind players together
- Outlined the motivations, benefits
- Substantive discussion on seriously evaluating the risks to the federation from bad or careless actors, particularly evaluating the need for federation wide resource limits

- Reviewed deployment of GENI RSpecs: ProtoGENI and PlanetLab support, ORCA is very close, OpenFlow is coming
- Compute Ontology published at <http://groups.geni.net/geni/wiki/GEC11RSpec>
- Discussed wireless, storage resource object models / ontologies
- Next steps
  - Evolve ontologies
  - Develop other ontologies
  - Complete GENI RSpec roll-out



- Outlined the schema based on OSCARS for sharing data about how aggregates are connected
- Demonstrated cross aggregate / CF dynamic stitching (PG – ION – MAX) using VLANs
- Discussion
  - Need to add negotiation of VLAN ids, tunnel support
  - Multipoint topologies not supported by OSCARS. Must do multiple point-to-points
  - This doesn't solve other node dependencies (e.g. Hadoop master/slave)
- Next steps
  - Prototype APIs, negotiation, chain mode, investigate making ION aggregate sustainable

