NetKarma Provenance Repository

- Persistent Karma service and MySQL database hosted on GRNOC
- AMQP standards compliant RabbitMQ for ingesting notifications to Karma
- XML and RDF representations of provenance information
- Offline collection of provenance metadata from experiment log files
- No instrumentation required in GUSH to ingest provenance information to Karma DB
- Implements Open Provenance Model v.1.1

Phase 1

- Rollout provenance repository containing data from variety of experiment log files
- GENI adaptor used to process log files and push provenance into NetKarma Provenance Repository
- Provenance information can be visualized using RDF visualization tools
- Donate your GUSH logs through NetKarma website. (web side address: http://pti.iu.edu/d2i/provenance_netkarma)

Phase 2

- Provenance collection will become an option using GUSH to enable automatic provenance collection
- NetKarma services will gather information from Raven and GMOC database.
- Provenance data will be made available through web services layer to the community.

References
2. The Open Provenance Model (v1.01), http://eprints.ecs.soton.ac.uk/16148/1/opm-v1_01.pdf
3. Lifecycle of a GENI Experiment . GENI-SE-SY-UC-TC-01.2 http://groups.geni.net/geni/wiki/ExperimentLifecycleDocument