

Mercury 1.0.0 roadmap

Mercury is still in it's 1.0.0-alpha-1-SNAPSHOT diapers, but I think it's important to communicate where it is going to. For Version 1.0.0 I plan to incorporate the following features:

- **New Jetty-client based transport layer**
 - multi-threaded deployment and retrieval, transport client throws a set of Bindings (1 file request), and transport processes them in parallel
 - support for http, https, dav
 - support for authenticated proxy
 - only name/password authentication, certificates possibly, but most probably in the next release
 - support for pluggable StreamVerifiers
 - comes with SHA1 and OpenPGP implementations
- **New abstraction for Repository, split into Repository, RepositoryReader, RepositoryWriter**
 - 3 GAV-based methods as a contract for RepositoryReader
 - 1 GAV-based method as a contract for RepositoryWriter
 - implementations for local and remote M2 repositories
 - Repository Metadata
 - preserve/populate existing maven-metadata.xml files
 - provide utility to create/repair those files
 - store local repo metadata in a lucene-based database
 - provide tools to create/repair/query this database
- **Version range processing standardization**
 - OSGi based range definitions
 - attribute-based queries (to be documented)
- **SAT based dependency conflict resolver**
- client APIs for
 - Artifact retrieval/deployment
 - Dependency tree builder
 - Dependency tree resolver
- Mercury could be used as a standalone library
 - I will try to create ant tasks for
 - dependency fetching
 - dependency resolution
 - ... please suggest
 - file signing/verification could be used standalone