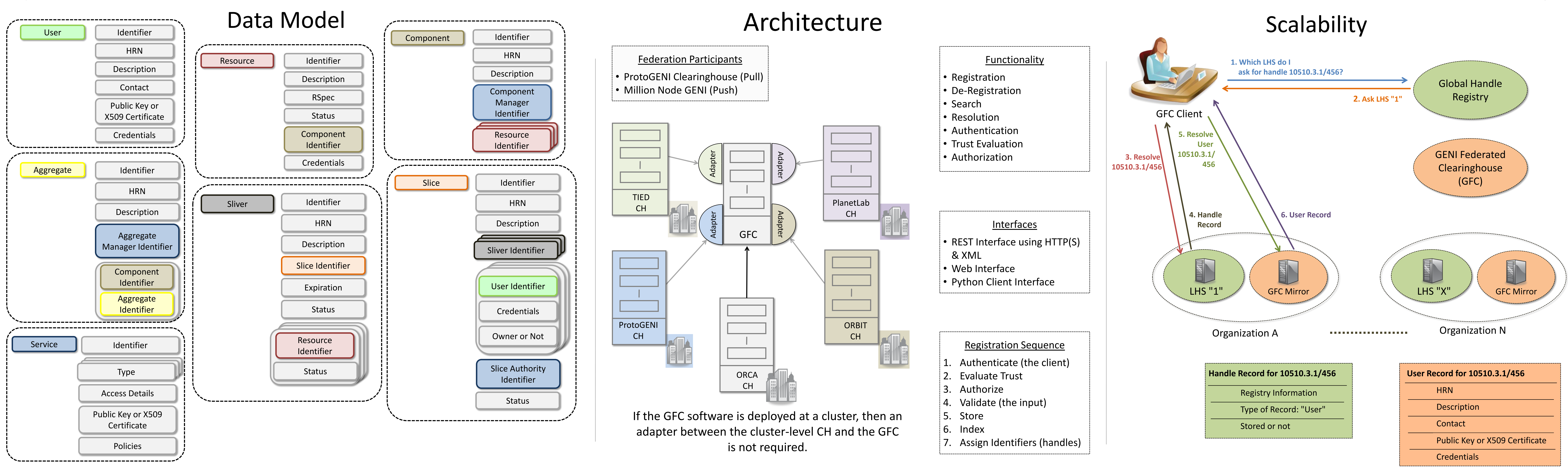


Digital Object Architecture

Corporation for National Research Initiatives

GENI Federated Clearinghouse

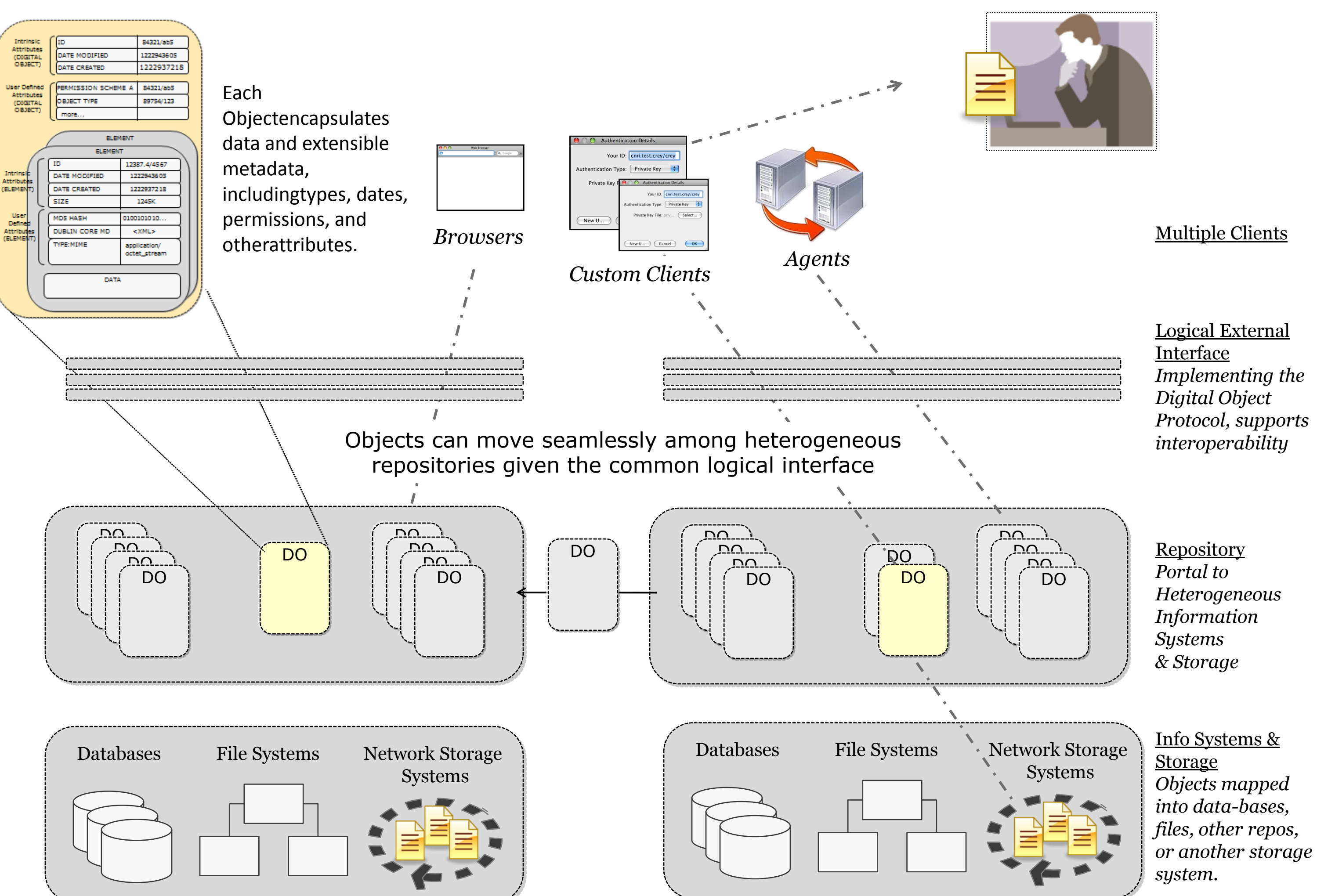


GENI Experiment Repository

Proposed Security Model

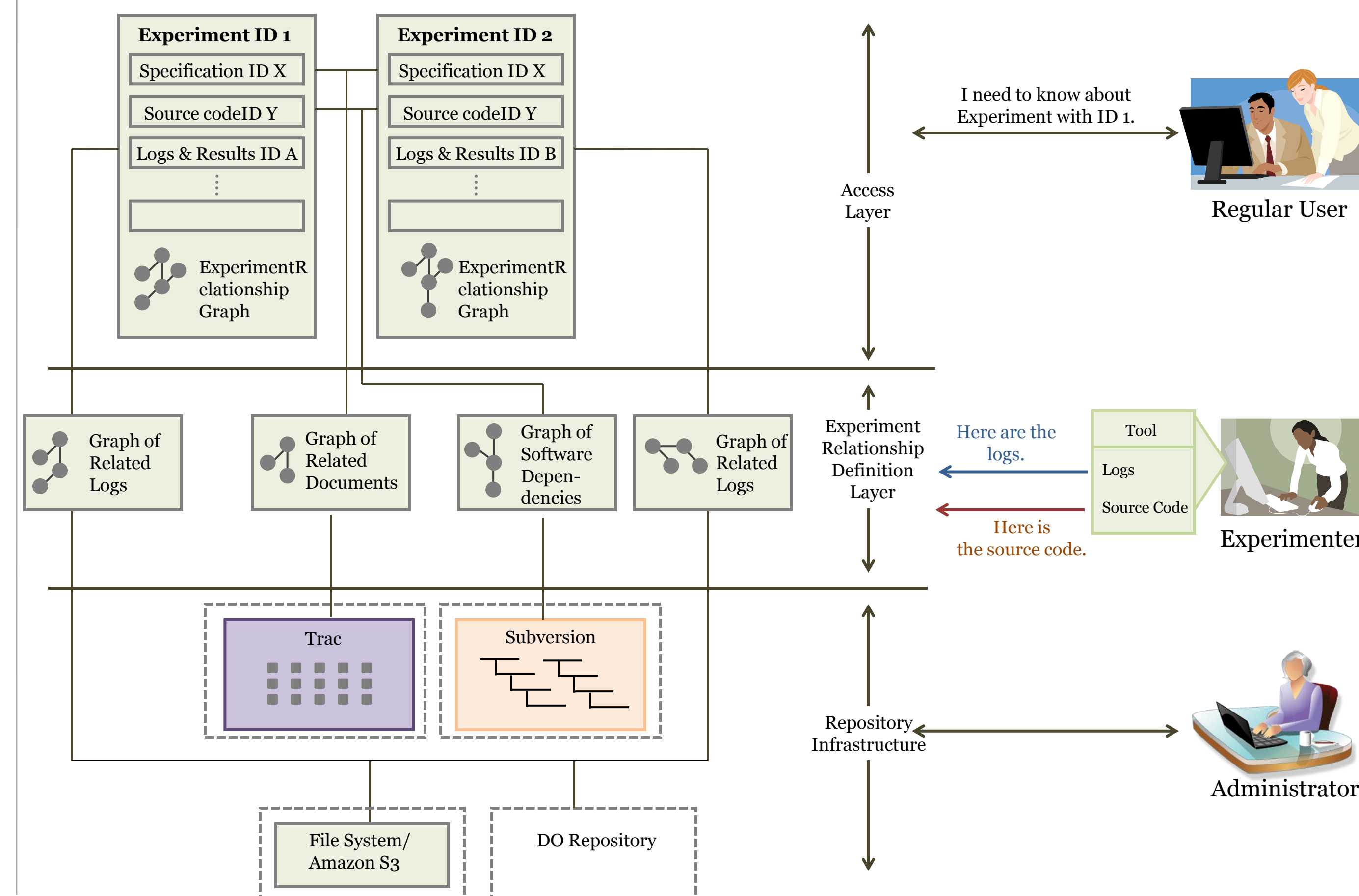
Repositories & Digital Objects

A repository provides secure access and management for a set of digital objects. Digital objects are identified entities that can contain any kind of typed resources.

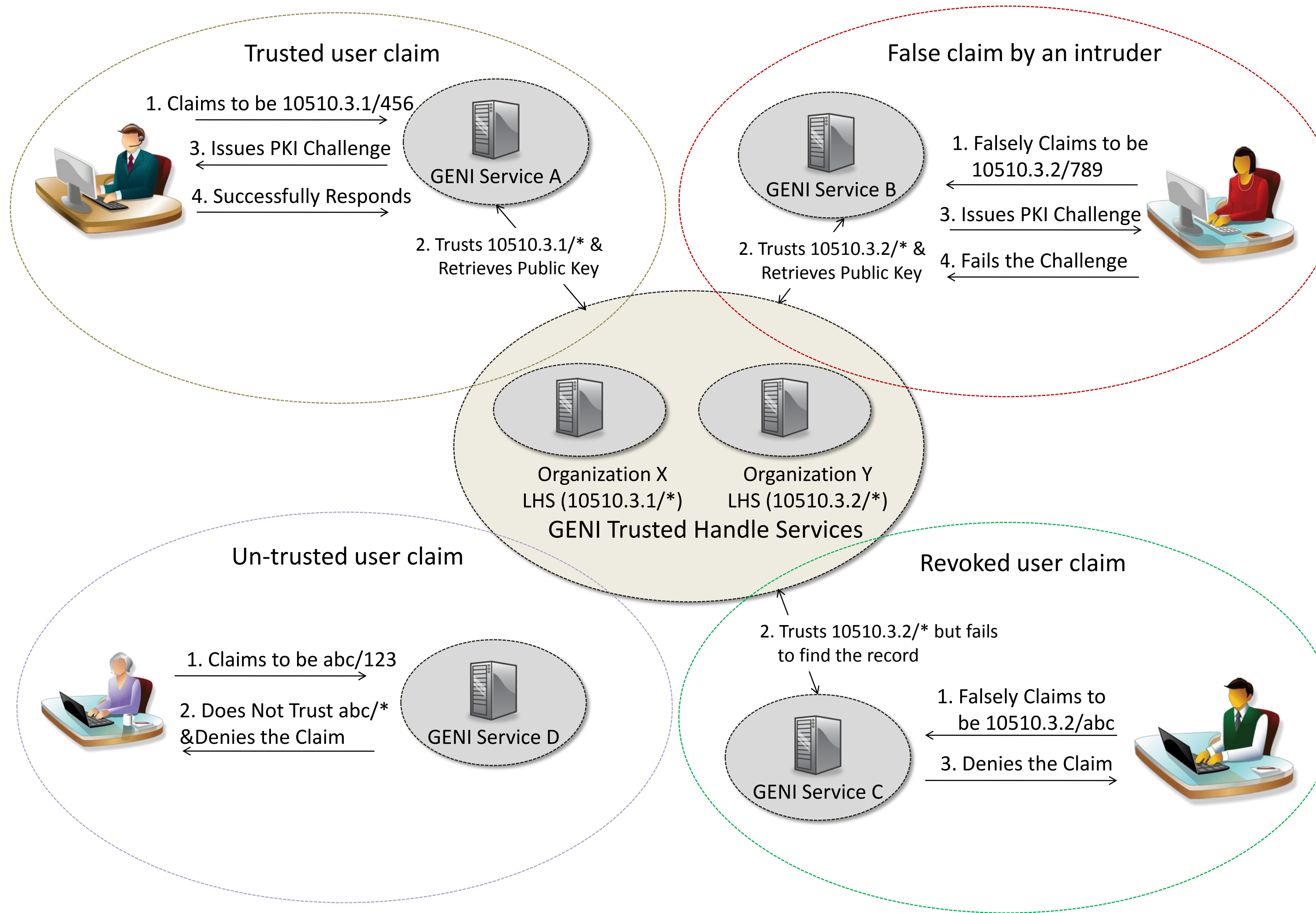


Experiment Repository Usage Model

Experiment related resources and their dependencies are logically packaged in Digital Objects, but physically are disparate and administered on their own. This approach provides a way to manage and share experiments easily bypassing the need to understand the heterogeneous environments in which those experiments are conducted.



Authentication & Trust Approach



- Advantages**
- (1) Services don't have to maintain trust stores.
 - (2) Certificates' management and revocation are performed in real time through the Handle System. That is, "Freedom from CRLs".
 - (3) Proposed solution is integrated into SSL.