Operational ADL Tasks

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1. Hardware

Goal: A server with sufficient processing and storage capabilities to support the anticipated load of an operational system.

- [Larry] Buy it.

2. Bucket99 schema & database

Goal: An efficient, easy-to-populate, bucket-oriented schema that can accommodate all ADL collections.

- [Qi] Test and report on the performance of Bucket99.

3. XML-based metadata reports

Goal: A system of metadata reports characterized by the use of XML, automatic production from collection-specific ingest databases, and direct delivery to clients.

- [Greg] Incorporate the latest suggestions into the access report DTD.
- [Mary] For Geodex, define the structure and contents of the full and access reports.
- [Catherine] For Geodex, develop scripts to automatically produce the full and access reports from the Geodex ingest database.
- [Greg] Develop an efficient storage and delivery mechanism for reports.
- [Nathan] Develop a viewer for full reports.
- [Nathan] Develop the software necessary to view access reports (XML-to-HTML conversion, linkage to user's browser, etc.).

4. Thesauri

Goal: Use of the new Catalog and Gazetteer thesauri in all ADL collections; integration of JIGI and thesaurus-browsing software.

- [Linda] Present a vision of what the integration can and should look like.

5. Metadata content standards

Goal: Generic support for at least one metadata content standard (i.e., a mapping from the metadata content standard to Bucket99, generic ingest and report production scripts, etc.).

- [Mary, Linda] Pick a standard.

6. Servlet-based middleware

Goal: A portable, object-oriented middleware server based on Java and servlets, with a public middleware–server API.

- [Kevin] Publish the architecture and interfaces of the new middleware for review by alex-imp.

7. Query refinement

Goal: Support for query refinement by treating query result sets as searchable entities.

- [Nathan] Explore options for implementing this capability in JIGI, and determine what types of support JIGI will need from the middleware and other software.

8. Hierarchical collections

Goal: Support for collection aggregation and partitioning.

- [Kevin] Incorporate this functionality into the new middleware.
- [Nathan] Incorporate this functionality into JIGI.

9. SDSC

Goal: An operational relationship and usable connection to SDSC that supports easy and reliable transfer of files to SDSC and seamless and reliable retrieval of files.

- [Greg] Set up new tape transfer protocols, HPSS/SRB load scripts, etc.
- [Greg] Keep hammering on SDSC to reload & verify first batch of tapes.

10. Evaluation logging

Goal: Correct and complete logging to a stable platform to support all foreseeable evaluation analyses.

- [Greg] Draft a detailed requirements specification.

11. Fault tolerance & scalability

Goal: Support multiple servers; automatic fallback in the event of server failure

- [Nathan] Add support for multiple middleware servers and automatic fallback in JIGI

12. Z39.50

Goal: Support for Z39.50.

- [Greg] Create a new ISITE/SAPI driver that supports specification of the maximum number of hits and the desired format of return records.
- [Greg] Test Z39.50 gateway against Blue Angel's client software.

13. ADL on a CD-ROM

Goal: Package all ADL software onto a CD-ROM in such a way that other parties can set up their own ADL servers.