Open Archives Work at Virginia Tech

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**OAi - Related Projects**

- Computer Science Teaching Center
- Web Characterization Repository
- VT-ETD
- USMARC XML-DTD
- NDLTD / MARIAN
- Repository Explorer
- Perl/Java Dienst subset implementation
Organizational Issues

- No specific responsibilities for sections of OAi
- No public forum
- Inconsistency in versions of specifications
- Proposal:
  - More well-defined management of the OAi may avoid many organizational/technical problems
Technical Issues - 1

- Partition Specifications
  - all nodes in partition name?
  - two separators?
  - overlapping?

- Updates / Deletions
  - re-send updates?
  - how do we handle deletions?
Technical Issues - II

• Namespaces
  – oams vs OAMS
  – <oams:author> vs <author>
  – duplicates with different ids ?

• Versioning
  – simpler version numbers for protocol ?
  – internal metadata version number ?
Technical Issues - III

• Listings
  – to-date ?
  – count of records ?
  – lack of locking mechanism ?

• Character Sets / Markup
  – SGML character sets in XML ?
  – ISO 8879 vs Unicode ?
  – HTML for abstract formatting ?
**Technical Issues - IV**

- Special Collections
  - WCR, CSTC, VTETD - is OAMS appropriate?
  - name/value pairs for metadata?
  - bibliographies?

- Dienst
  - fixed vs named parameters?
  - entities in some URLs
  - Verb to get info. on archive eg. separator
**Technical Issues - V**

- Data Cleaning
  - how much?
  - whitespace in generated XML