



# Middleware Development Plan

*Current*

**MW1**

bucket  
searching

- Bucket and field-level searching over distributed collections
- Collection formation via database mapping
- Ranking
- Access control

*May 2003*

**MW2**

metadata  
views

- Arbitrary views per item
- New standard ADL views: bucket, browse, access
- Metadata validation
- Query translation paradigm interface and library

*Summer 2003*

**MW3**

ingest  
support

- Management services: create/replace/delete collections and items
- Integrated database
- Universal schema
- Integrated collection statistics

*Fall 2003*

**MW4**

collection  
discovery

- Collection registry, polling
- Discovery/ranking over collection statistics
- Euler histograms
- Collection hierarchies
- Integration with thesaurus servers



# Additional functionality

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- Additional functionality that is desperately needed and/or has been promised to NSDL, DLESE, others...
  
- Harvesting
  - make ADL collections OAI-harvestable
    - **also supports collection browsing**
  - automatically form ADL collections from OAI providers
  
- Metadata mapping
  - framework for formally registering and invoking programmatic metadata mappers
    - **map known content standards to standard ADL views**
    - **fully or semi-automatic, not sure at this point**
  
- Spatial similarity ranking



## Future ideas

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- No shortage of ideas...
- Lightweight collection driver
  - immediately form collection from directory of image files
  - gradually increase per-item metadata
- Native text search support via SIRE algorithm
- Better support for hierarchies
  - series of items
  - aerial photograph flights and frames
- SRB integration
  - fully support personal collection building