Harvesting the Crop - Voyager and OAI-PMH

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Agenda

- Background
- OAI-PMH
- · How does the script work
- Features
- · Compared to Z39.50 or SRU
- How we use it
- · Technical stuff

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Background

- Voyager 6 ("repository")
- MetaLib portal with MetaIndex service ("harvester")
- · Collection Map project
- · Need to highlight collections in library catalogs
- Finding the corresponding records too slow or impossible with search protocols

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OAI-PMH

- Open Archives Initiative Protocol for Metadata Harvesting
- A fairly simple protocol for harvesting metadata via HTTP
- · Request in URL
- · Response in XML
- · Supports multiple metadata formats
 - Commonly Dublin Core and MARC-XML

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How Does the Script Work

- · Alongside WebVoyáge on the server
- · Connects directly to Oracle
- · Queries the database
- · Converts results into Dublin Core or MARCXML
- http://server/cgi-bin/oai-pmh.cgi?verb=Identify
- http://server/cgi-bin/oai-pmh.cgi?verb=ListSets
- http://server/cgi-bin/oai-pmh.cgi
 ?verb=ListRecords&set=intermezzo&metadataPrefix=ma

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Features

- Complete support for OAI-PMH 2.0
- Set definitions based on
 - Record format
 - Location
 - Call number
 - Publication place
 - Language
 - Keyword search
- Custom filter function
 Handling of deletions
- Bibliographic and authority recordsAccess Control via IP address list

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Technical Stuff

- Written in Perl
- · Passes protocol conformance tests
- · Can access keyword server directly
- · Supports seconds granularity and time zones properly
- Filter function in Perl to create custom rules for filtering records
- · No perceivable impact on the server
 - The masses are elsewhere
- · Keep-alive for slow fetches
- OAI-PMH:

http://www.openarchives.org/OAI/openarchivesprotocol.html

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ibrany Motwork Convices

Compared to Z39.50 or SRU

- Not a search protocol
- · Can be slow
- Results must be processed further in a way or another
- Data can be harvested from multiple sources into one collection

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How We Use It

- To harvest collections to our MetaLib Portal (Nelli)
- E-theses (single and combined)
- Music collections (combined from multiple libraries)
- · Subject collections
- · Collection Map
- Separating (geographically) distinct organizational units in a library catalog
- Could be used to replace periodical exports in some cases

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Thank You!

http://www.nationallibrary.fi/libraries/linnea/resources.html

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