FRBR and Union Catalogues

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Evolution of Union Catalogues – Bigger

- OCLC 49 million records
- OCLC PICA 30+ million records (PiCarta 70 million)
- Pan European Catalogue
  - EUCAT
- WorldCat
  - Multiples nodes
    - Dublin, Ohio, U.S.A.
    - Leiden, Netherlands
    - Other
Evolution of Union Catalogues – Broader

- Links with
  - Full text databases
  - Local Library Systems
  - Bookshops, library suppliers and publishers
  - Other databases – Level of work
    - Abstracts
    - Citations
    - Reviews
  - Other databases – Level of manifestation+
    - Covers, tables of contents
  - Other databases – Level of Creator
    - Biographies, photographs, bibliographies
Needs of a Large Index

- Discover only that which is relevant = Precision
- Discover all that is relevant = Recall
- Display large result sets in an elegant and efficient way
- Allow navigation internally within the index and externally = surfing
  - Changing role of the library
    - Before focussed on the local collection
    - Now focussed on access
The Hopes

- Optimise discovery
- Improve cataloguing
- Optimise delivery
Optimise Discovery

- Search
- Browse
- Navigation
- Manipulation of results

- Clustering into works
- Work - works
- Work - expressions
- Expression – expressions
- Expression – manifestations
- Authorities
- URL, openURL

- Changing the filing
- Personalising the grouping, especially at expression level
Improve Cataloguing

- Cataloguing at 3 or 4 levels
  - Eventually copying at 3 levels
  - Faster (search faster; less keying)
  - More precision in relation to version

- Authorities
  - Multiple versions – languages – links among them
  - Links to bibliographic records at 3 levels
  - External links – biographies, etc.
Optimise Delivery

- Rights management
  - Author – Work
  - Publisher – Manifestation
  - Importance of the work
  - Importance of authorities
- Selection of the most appropriate copy
  - Loan, ILL or
  - Access to full text
Experiences

- ‘Work’ helps discovery
  - De-duplication effect – improves browsing

- ‘Expression’ – difficult, except language
  - Criteria different depending on form / format
    - Books, serials, music etc.

- It is necessary to work with existing MARC records where it is very difficult to extract expressions
Display of the second level

- Choice of the user
  - Dynamic and capable of being modified
  - Sometimes, this level should be masked
  - Possibility to mix elements of expression and of manifestation
  - Choice of re-filing or of limiting by
    - Form, format, date, language, relevance, availability of copies, location, other
Statistics

- Differences among domains
  - The classics of literature against
  - Scientific studies

- Some examples
  - DBC – Stephen King
    - 102 works, 231 manifestations, 362 MARC records
  - OCLC – Shakespeare, Hamlet
    - 1 work, 2696 manifestations
  - OCLC – Rowling, J.K.
    - 28 works, 300 manifestations
  - OCLC – average = 1 work / 1.5 manifestations
OCLC – George Harrison, If I needed someone

- **E1** Original version Beatles 1965
  - M1 Rubber Soul 1965
  - M2 Yesterday and Today 1966
  - M3 Best of George Harrison 1976
- **E2** Cover by the Hollies 1965
  - M1 1965
  - M2 Hollies 1977
- **E3** Version ‘live’ by George Harrison 1991
  - M1 ‘Live in Japan’ 1992
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<tr>
<th>Periodical</th>
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<th>URL, openURL</th>
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<td>Metadata</td>
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<tr>
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<td>Expr. or Manif.</td>
<td>Work / Manif.</td>
</tr>
<tr>
<td>Item</td>
<td></td>
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Serials

- **Work**
  - A periodical title is a work
  - Each part of enumeration represents a work, e.g. an issue, a volume
  - Each article is also a work

- **Expression / Manifestation**
  - Form / Format – CDROM / paper
  - Publication pattern is closely linked
Problems

- How to make interfaces among new systems and the legacy systems?
  - Load records at 3/4 levels into a legacy database
  - Load traditional records into a new database at 3/4 levels
  - Muti-target searching where the databases are not homogeneous
- The 2nd level - expression?
Standards

- **How to search?**
  - New attributes
  - New schemas

- **How to navigate?**
  - New identifiers
    - Work and expression
    - Exist now for manifestation (ISBN etc.)

- **How to exchange records?**
  - New identifiers
  - New record schemas
Normalisation - Format

- XML/RDF schemas for
  - Work
  - Work + Expression/s
  - Work + Expression/s + Manifestation/s
Standards - Searching

- Z39.50
- ZING SRU

- Bath profile
  - Bibliographic
  - Holdings
  - Authorities
  - Cross domain

- Counts at 3 levels
- Search attributes
- Records schemas