

FRBR Models

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Outline

- ❖ **FRBR/MARC analysis**
- ❖ **Clarify difference between exchange record and enterprise records (internal to a system)**
- ❖ **Examine exchange record models**
- ❖ **Discuss format accommodations**
- ❖ **Questions?**

MARC 21/FRBR element mapping

- ❖ *Functional Analysis of the MARC 21 Bibliographic and Holdings Formats* (www.loc.gov/marc)
 - **Classifies every MARC element – field, indicator, subfield, fixed position - as a FRBR *entity***
 - **Indicates FRBR *attributes and relationships***
 - ***Extends* the FRBR model to accommodate MARC 21 data that did not fit the original IFLA study**
 - **Maps elements to *user tasks* related to resource discovery, use, and management**

Why relate FRBR and MARC?

- ❖ **Uses for MARC/FRBR analysis**
 - **FRBR experimentation and analysis**
 - **Use to guide changes to MARC**
 - logical boundaries between types of data
 - logical clusters of elements
 - areas in need of development
 - **Guide changes to actual cataloging practices**
 - **Sorting out possible RDA-in-MARC changes**

What we found

- ❖ **Most content data fit the model**
 - 68% of the MARC data elements were for **bibliographic content**, of which
 - 5/6 mapped directly to the FRBR model
 - 1/6 required model extensions to map
- ❖ **Record markup and processing elements did not map – not surprising**
 - 32% of MARC elements were **record processing** elements (tags, subfield codes, leader info, etc.)
- ❖ **A few elements were difficult to classify**

Exchange records and enterprise records

Exchange vs. enterprise

- ❖ **Basic MARC premise -- an imported or exported record is:**
 - An independent record
 - Provides a full bibliographic description by itself
 - Not dependent or part of a collection of records
 - But it may have record number links to other records in addition to data content from linked records

- ❖ **Enterprise/internal record storage is not usually MARC:**
 - Data for a record must be available for conversion to MARC in event of interchange
 - Record data should be easily available to any enterprise software installed which may want MARC or MARC-like

Exchange vs. enterprise

❖ Realities and practicalities

- Many systems have only bibliographic records
- We have developed systems and librarian interfaces that look a lot like MARC, even though internal record may not
- There are over a billion MARC21 records in thousands of systems
- FRBR entity boundaries are not “hard coded”

Possible models

MARC 21 record models

❖ Bibliographic record

- Describes all facets of the resource
- Stand alone, can represent an item

❖ Authority record

- Assists in maintaining consistency across bibliographic records
- Provides reference structure that helps catalog users
- But not essential for exchange of bibliographic description since bibliographic records can stand alone

❖ Holdings record

- Detail on physical location, holdings, and condition
- Can be partially embedded in bibliographic record

Exchange record usage

❖ For end user displays:

- Independent manifestation records (bibliographic)
- Independent Work/Expression records (authority)
- Dependent holdings record (holdings)

❖ For file building (e.g., cataloging):

- Independent bibliographic records
- Independent authority records

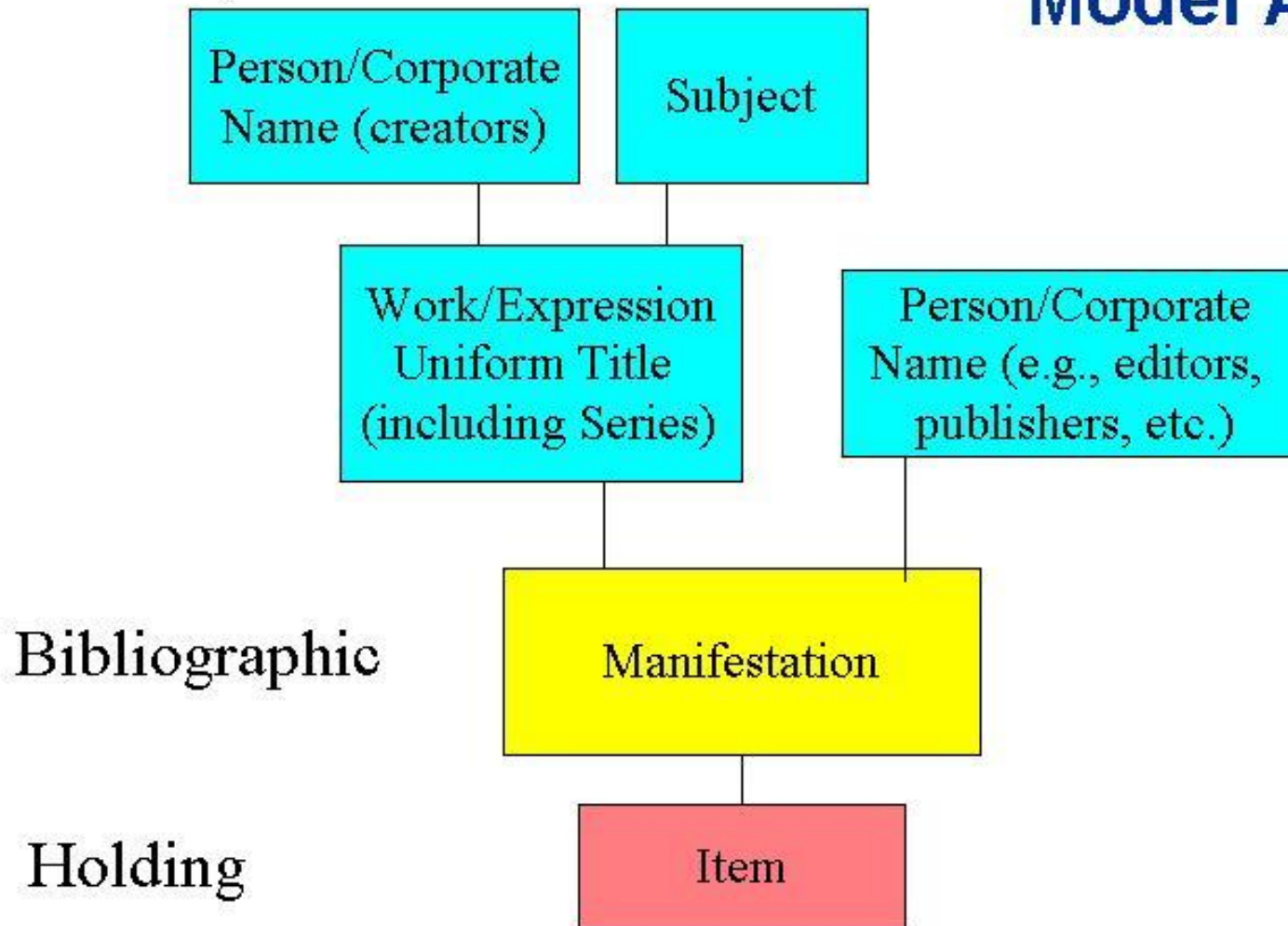
Exchange record models

❖ Two models for FRBR Work/Expression using MARC 21

- Model A – Work/expression records treated as Authority records
- Model B – Work/Expression records treated as Bibliographic records

Authority

Model A



Bibliographic

Holding

Manifestation

Item

What is needed for Model A?

❖ Alternate titles for Work title

- Use 4XX see from references

❖ Larger Work titles

- Use 5XX see also from references
- **New \$w/0 relationships needed?**

❖ Component Work titles

- Use 5XX see also from references
- **New \$w/0 relationships needed?**

Authority Model A (continued)

❖ Subjects – names and topics

- New set of 11 or more subject fields equivalent to bibliographic 600-658 fields?

❖ Work date

- New 1XX field?

❖ Indicate record is for Work

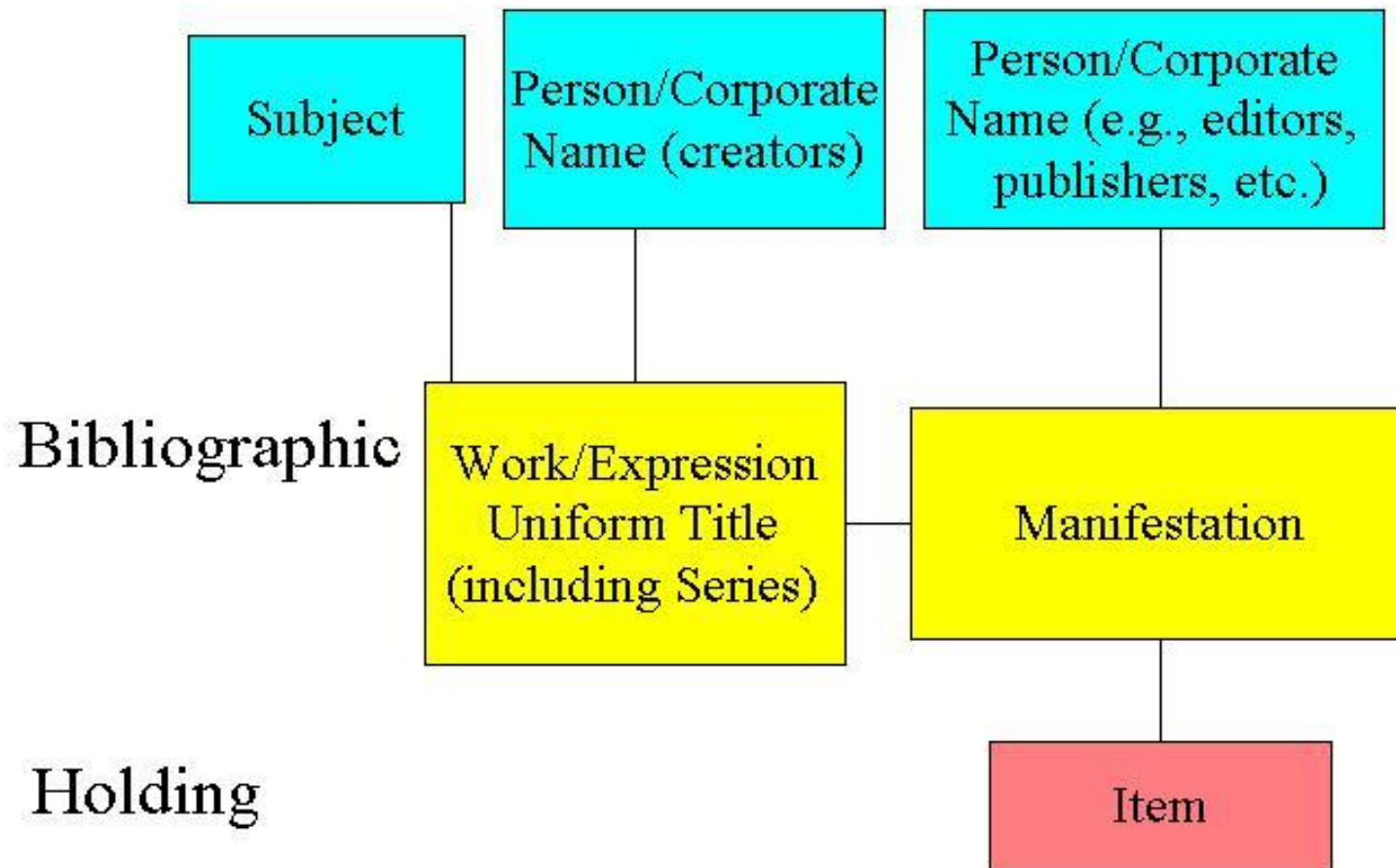
- 100-111 with \$t subfield or 130 in record
- Or, create Leader/06 value or define Leader/08?

❖ Link Manifestation record to Work record

- Work record number in bibliographic 240 (Uniform title) \$0

Authority

Model B



What is needed for Model B?

❖ **Alternate titles for Work title**

- 246 varying form of title

❖ **Larger Work titles**

- 8XX set entry
- Or, 773 host item entry

❖ **Component Work titles**

- 7XX, Ind2=2 analytical entry
- Or, 774 constituent unit entry

Bibliographic Model B (continued)

- ❖ **Names and topics as subjects**
 - 600-658 subject access fields
- ❖ **Work date**
 - 017\$d copyright date? 008 Date 1?
- ❖ **Indicate record is for Work**
 - Add values to Leader/08 (Type of control)? New field?
- ❖ **Link Manifestation record to Work record**
 - Use 787\$w in Manifestation record
 - New \$w in 240 field?

Trade-offs

❖ Bibliographic record

- **Pro: Work record indicator and link are main change issues**
- **Con: Cataloging orientation has favored authority records for “Author/title records” – tens of thousands of records in thousands of systems have those records**
- **Series authority records (which are Work records) also have a series treatment component that might need to be moved to bibliographic records**
- **Systems are built to validate uniform titles via the authority file**

Trade-offs

❖ Authority records

- **Several changes appear to be needed to the authority record**
- **Pro: Existing Author/Title records and Series records are authority records**
- **Pro: Generally compatible with current systems**
- **Con: Author/Title and Series records are currently unnecessary for many catalog operations**
- **Con: Subjects in Work Authority records would have various effects on systems depending on a system's architecture**

No conclusion yet

- ❖ Exchange of *independent* bibliographic record is still required
- ❖ No matter which way the communications format supports Work records, enterprise/internal systems will determine their own architecture as long as they know what they are expected to output to the communications environment.

❖ **Questions?**