



Mapping from RDA to BIBFRAME

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Facts

- 1263 elements of the Official RDA mapped to (official) BIBFRAME properties
 - Includes all the elements of RDA WEMI entities, except relationship elements from WEMI to RDA Collective Agent or RDA Agent
 - Includes some elements of RDA Nomen entity (e.g. status of identification):
 - useful as administrative metadata
 - match to equivalent properties in BIBFRAME or in MARC 21
- See the [mapping spreadsheet](#)
 - in English, free access, possibility to make comments
- [Mapping](#) (from RDA to BIBFRAME) of the University of Washington of great help but missing
 - Matching relationships telling how close RDA element is to BIBFRAME property
 - The newest elements of Official RDA

Facts (2)

- Columns of the mapping spreadsheet:
 - RDA specifications, matching relationship, BIBFRAME specifications and mapping to the Finnish BIBFRAME
- Each RDA element on its own row, except when one RDA element is related to two BIBFRAME element:
 - E.g. RDA element *has coverage of content* is related to BIBFRAME properties *bf:temporalCoverage* and *bf:geographicCoverage*
- Matching relationships by SKOS between RDA and BIBFRAME
 - broadMatch: means RDA element is more precise than BIBFRAME property
 - narrowMatch: means RDA element is less precise than BIBFRAME property
 - closeMatch: means RDA element is semantically close to BIBFRAME property
 - exactMatch: means RDA element is equivalent to BIBFRAME property

Observations

- The numbers of matching relationships:
 - broadMatch: 76,9 % (971 / 1263)
 - narrowMatch: 0,5 % (6 / 1263)
 - closeMatch: 4,4 % (55 / 1263)
 - exactMatch: 16,7 % (211 / 1263)
 - no match: 1,6 % (20 / 1263)
- Not a good match but not hopeless, either
- Upsides of BIBFRAME:
 - Administrative metadata has its own class (bf:AdminMetadata):
 - In RDA, Metadata Work is a difficult concept, and the same element of Work entity (e.g. *related work of work*) is used when describing a resource and recording admin metadata (= string encoding scheme)
 - Some properties are more precise than parallel RDA elements:
 - E.g. RDA element *has location of item* is related to BIBFRAME properties *bf:physicalLocation* and *bf:electronicLocation*

Observations (2)

- Downsides of BIBFRAME:
 - Some essential RDA elements don't match to any property of BIBFRAME
 - E.g. *variant access point for work* (of RDA Work entity)
 - The Finnish BIBFRAME includes an element *bfffi:variantAccessPoint* based on RDA
 - Too many RDA elements are mapped to very general BIBFRAME property *bf:note*
 - E.g. *has interactivity mode* (of RDA Expression entity) or *has modification of item* (of RDA Item entity)
 - The Finnish BIBFRAME needs a vocabulary of different note types based on RDA

Solutions

- The Finnish BIBFRAME version combines RDA based specifications with BIBFRAME
 - In broadMatch cases, we create more specific terms based on RDA elements
 - E.g. RDA element *has editor person* is mapped to BIBFRAME property *bf:contribution* which is specified by the term *editor person* from the Finnish Metadata Vocabulary
 - Most of the RDA attribute elements of the Nomen entity is included even though Nomen entity is not
 - E.g. *has scheme of nomen, has script of nomen, has language of nomen, has context of use*

Solutions (2)

- Aim of the Finnish BIBFRAME version is to enable RDA based cataloguing with BIBFRAME based data model
 - Mapping from RDA to BIBFRAME supports the aim
- Work in progress with broadMatch cases
 - Special RDA elements of diachronic work or aggregate are missing from BIBFRAME
 - E.g. *has extension plan* (of RDA Work entity) or *is aggregated by* (of RDA Expression entity)
 - Diachronic work or aggregate doesn't exist in BIBFRAME
 - Instead, BIBFRAME has MARC 21 based subclasses of Work, like bf:Serial, bf:Multimedia, bf:MixMaterial

Necessities

- Mapping between RDA and BIBFRAME is laborious because of differences in the structures of the data models:
 - RDA has only a few classes, lots of properties -> flexible, easy to enhance with new properties, too big
 - BIBFRAME is economical with only a few properties that can be used with many classes, lots of classes -> complex hierarchy of classes inflexible with changes
- Official BIBFRAME data model should be aligned and integrated better with Official RDA data model, in the future
 - BIBFRAME needs RDA: BIBFRAME=skeleton, RDA=muscles
 - But does RDA need BIBFRAME?
 - RDA based cataloguing interfaces are emerging..

Necessities (2)

- “Authorized” mapping from Official RDA to official BIBFRAME would be very welcome
 - More international data model solutions, instead of national solutions
- We aim to keep our mapping up-to-date
- Please, take advantage of our work!
 - <https://docs.google.com/spreadsheets/d/16JWdhQcFMybVQtEsWV1RliOh2URI1JT0/edit?usp=sharing&ouid=107462956795239912593&rtpof=true&sd=true>

Thanks!

Any comments / questions?

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