Provenance of Dewey numbers

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Outline

• Intellectual assignment vs. alternative sources of Dewey numbers
• Documenting provenance
  – MARC field 883 Metadata provenance
• Real-world implementations
  – Deutsche Nationalbibliothek
  – Library of Congress
Intellectual assignment

• “One at a time”
• Aiming for a perfect fit
• Based on WebDewey or print edition
• Assumed mode of assignment in standard bibliographic metadata (in MARC: 082, 083 fields)
• Batch-oriented
• Aiming for volume
• Based on “mediated” sources
  – some automated process
  – existing bibliographic data
• Difficult to document in bibliographic metadata
Machine-assisted

• “A few at a time”
• Aiming for a varying degree of precision
• Based on applications / web services
  – Classify
  – AutoDewey
  – WebDewey number building assistant
• No visibility of provenance in bibliographic metadata
Documenting provenance
Extending MARC

• 883 – Machine-generated Metadata Provenance
• Developed jointly with Deutsche Nationalbibliothek and Library of Congress
• Widened to include every MARC datafield
• Informed by larger context of provenance standardization by W3C / Semantic Web communities
### 883 - Machine-generated Metadata Provenance (R)

**First Indicator**

*Method of machine assignment*

- # - No information provided/not applicable
- 0 - Fully machine-generated
- 1 - Partially machine-generated

**Subfield Codes**

- `$a` - Generation point
- `$c` - Confidence weight
- `$d` - Generation date
- `$q` - Generation authority
- `$x` - Validity end
- `$u` - Uniform Resource Identifier (NR)
- `$w` - Bibliographic record control number (R)
- `$0` - Authority record control number or standard number (R)
- `$8` - Field link and sequence number (R)
Real-world examples
Part of data deliveries since January 15

Initially intended to flag automatically generated subject indexing generated in the Petrus project
083 7# $8 3\p $a 620 $q DE-101 $2 23sdnb
883 1# $8 3\p $a Übernahme aus paralleler Ausgabe
   $d 20140305 $q DE-101
082 74 $8 1\p $a 370 $q DE-101 $2 23sdnb
883 0# $8 1\p $a maschinell gebildet $c 0,939
   $d 20131201 $q DE-101
082 74 $8 1\p $a 620 $q DE-101 $2 23sdnb
883 1# $8 1\p $a Ablieferung Webformular
   $d 20140716 $q DE-101
• Intended to be generated by AutoDewey

AutoDewey is a software program developed at LC that provides assistance in assigning Dewey numbers in those places where LCC and DDC are similar enough to facilitate mapping from LCC to DDC