

New format: **BIBFRAME** in an European perspective – what would be the impact and perspective of **BIBFRAME**?

Danish RDA-dag

Leif Andresen – Royal Danish Library
Chair Danish Bibliographic Committee

DBC – 23 May 2018



**DET KGL.
BIBLIOTEK**

Royal Danish Library


What is BIBFRAME ?

- Perspective: successor of MARC
- Perspective is GLOBAL, not European
- Need: Internationalization of BIBFRAME – now Library of Congress...
- Perspective: move from copycataloging of MARC records to dynamic reuse of entities



Introduction to BIBFRAME

Workshop 2017

- Over the last years, there have been several Linked Open Data projects in libraries.
 - The library community needs one international standard for interchange of bibliographic metadata based on modern technology.
 - BIBFRAME shall - according to the intentions of the Library of Congress - replace MARC.
 - BIBFRAME has the potential to become more global than MARC21.
 - It is important to prepare the implementation of BIBFRAME in Europe. Some countries have taken the lead and other countries are more awaiting. In any case: we need more visibility of BIBFRAME and  to start a process making BIBFRAME more international.
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Aims of the European BIBFRAME Workshop 2017

- forum for dialogue between representatives from library community in Europe about implementation of BIBFRAME
- forum for sharing knowledge and experience between European libraries
- forum for dialogue between Library of Congress and representatives from library community in Europe.

26 and 27 September 2017: Germany National Library, Frankfurt
Initiative by *The Nordic Network Group on bibliographic and infrastructure topics (NNG)*



Organisation behind

Organizer Group:

- Anna Berggren and Miriam Säfström, National Library of Sweden
- Nina Hyvönen, National Library of Finland
- Leif Andresen, Royal Danish Library
- Reinhold Heuvelmann, German National Library

NNG

Members of Nordic Network Group on bibliographic and infrastructure topics

- Denmark: DBC + Royal Danish Library
- Finland: The National Library of Finland
- Iceland: Consortium of Icelandic Libraries + National and University Library of Iceland
- Norway: National Library of Norway + BIBSYS
- Sweden: National Library of Sweden



European BIBFRAME Workshop

- Presentations from Library of Congress about development of BIBFRAME
 - Sally H. McCallum: The focus for BIBFRAME
 - Jodi Williamschen: BIBFRAME: Recent developments, future steps and their planned timeframe
- Presentation of LD4P/LD4L projects
- Presentation of *SHARE Virtual Discovery Environment in Linked Data*
- 14 presentations of ongoing and planned projects with BIBFRAME.
- Round table about how to integrate entities for Person and Corporate Body entities in implementation of BIBFRAME.



Participation BIBFRAME Workshop 2017

- 16 European Countries and US
- 24 libraries and institutions
- 41 participants
- URL: <https://wiki.dnb.de/display/EBW/EUBFWS2017>



European BIBFRAME Workshop and vendors

- Vendors of Integrated Library Systems (ILS) were invited to present their BIBFRAME visions at the project website:
 - Ex Libris (Alma)
 - Index Data (FOLIO)
 - Qulto
 - OCLC
- See <https://wiki.dnb.de/display/EBW/Documents+and+Results> under *Vendor information*.



European BIBFRAME projects

- Now a quick look at 5 of the 18 presentations / lightning talks
- (selected implementations in Europe)
- All are visible at
<https://wiki.dnb.de/display/EBW/Documents+and+Results>



European BIBFRAME projects

- Adrian Pohl: **BIBFRAME at hbz**
- Presentation of the lobid projects
- This project combine properties and classes from several ontologies
- 12 properties and 3 classes from BIBFRAME
- View of lobid on BIBFRAME:
 - One of many vocabularies to use, brings some benefits
 - Vocab aren't the central work, the hard work is to derive decent LD from catalogue data
 - We're watching bf development sporadically giving input
 - ...and will be ready to serve bf data



European BIBFRAME projects

- Niklas Lindström: **LIBRIS XL BIBFRAME project**
- National Library of Sweden is preparing to implement a new cataloguing system – to effectivize library data usage, by means of integration, sharing and reusing, through modernized foundations and tooling.
- Use BIBFRAME (version 2) with supplements from DC and sche,a.org
- See more information at: <https://id.kb.se/doc/model>
- For technicians; see GitHub: <https://github.com/libris/>



European BIBFRAME projects

- Miklós Lendvay: **MOKKA UP project**
- Conversion of the common Hungarian catalogue into the BIBFRAME/FRBR structure
- Automated Reconciliation and Enrichment
- Describe **Authify** – a cluster search service
- Conversion from MARC to BIBFRAME



European BIBFRAME projects

- Christina Hoppermann: **BIBFRAME at Springer Nature**
- Springer Nature have implemented BIBFRAME
- Have still internal core ontology and map to BIBFRAME
- Hoping for a widely-adopted standard
- Current implementations often too MARCish
- Springer Nature provide BIBFRAME without having MARC



European BIBFRAME projects

- Clément Oury: **ISSN Register as Linked Data**
- Using Bibframe for Serials and Other Continuing Resources
- ISSN Linked Data Application profile:
 - schema.org to foster usage by search engines
 - Bibframe to describe the specificities of the bibliographic universe: title and identifier types, relationships between resources...
 - Other ontologies when needed: DC, PROV-O, MARC21.info...



Round table: integrate entities for Person and Corporate Body

- No details in BIBFRAME for FRBR Group 2 entities
- Participants in Roundtable:
 - Jodi Williamschen
 - Niklas Lindström
 - Jana Hentschke: The Integrated Authority File (GND) and Linked Data
- Different solutions – need for knowledge exchange



BIBFRAME as international standard

- We see BIBFRAME as the only Linked Data format for libraries with the potential to become the global solution
- Just so global as MARC has been and still is
- BIBFRAME have the potential to become more global – we still have, several variations of MARC: MARC21, UNIMARC and national MARC formats
- More important: "the only game in the town" to be THE common interchange format for libraries



Barriers to implementation (1)

- Missing knowledge and documentation
 - More BIBFRAME focused workshops and other events
 - More accessible documentation – proposal: use *bibframe.org*
- Missing stable community / communities
 - The European Workshop is a first step – more is needed
- Need for information sharing
 - More BIBFRAME focused workshops and other events
 - International community platform: proposal: *bibframe.org*



Barriers to implementation (2)

- Poor vendor support
 - Pressure on vendors – present them a template for declaration (see later slide about *BIBFRAME expectations for ILS tender*)
- For developers: hard to understand the need for something library specific – why don't use general solutions?
- For librarians: hard to understand the need for something new – something to succeed MARC



Limitations of BIBFRAME

- Still too few implementations
- Must be more international, e.g. mirror sites for ontology and documentation
- Openness of ontology – Great News: with Sally H. McCallum (Library of Congress) on BIBFRAME mailing list 19 April 2018 about adjustments via Github.com



European vision of a BIBFRAME community

- We have taken the first step with the 2017 workshop
- Not yet a formal organization like EURIG for RDA
- May be another outcome of the 2018 workshop
- The need is not a European Community isolated
- The need is an International Community for global knowledge sharing – and European events



Follow up 2017 Workshop

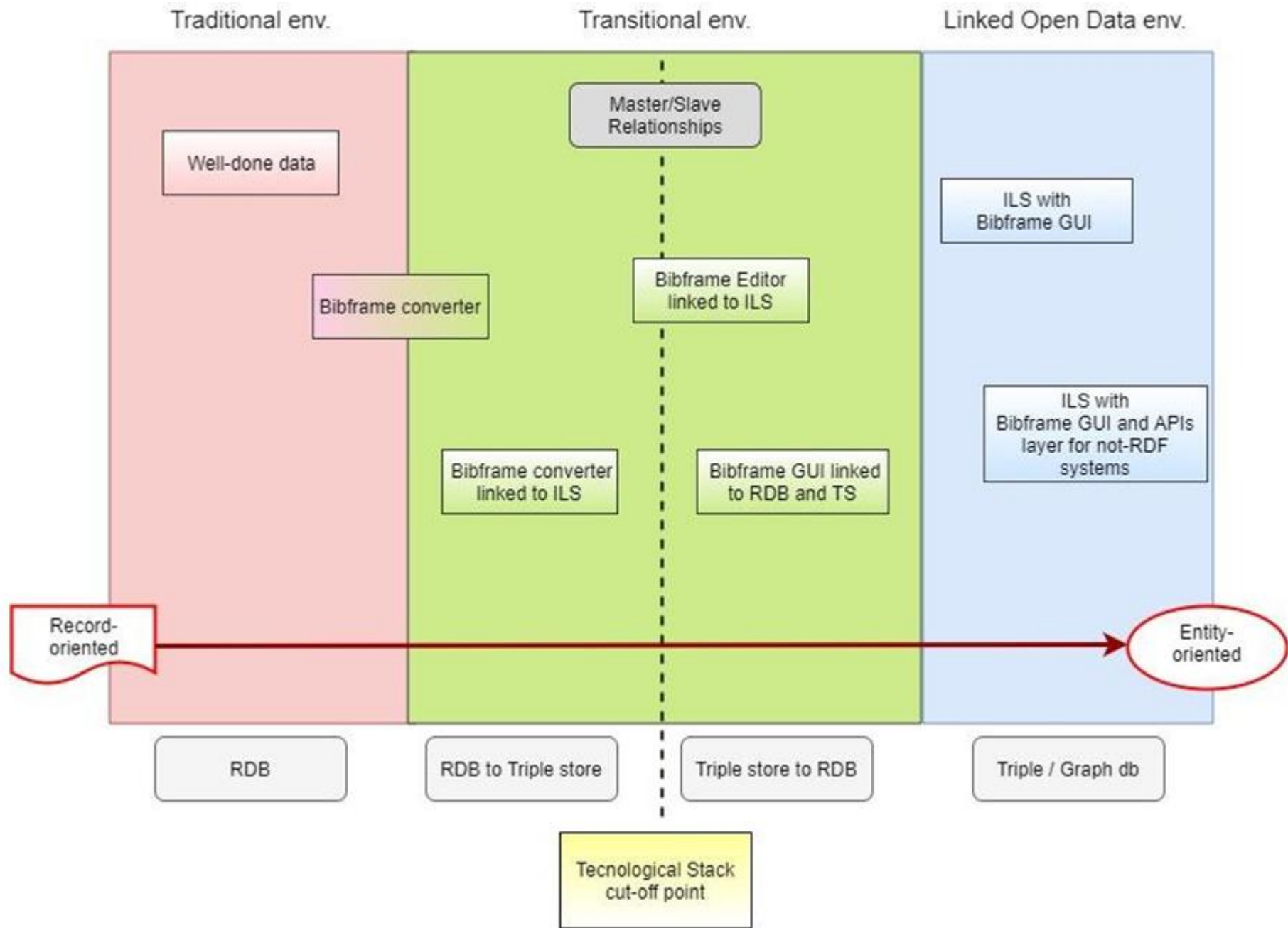
- Satellite event at SWIB 2017 in December
- BIBFRAME requirements for ILS tender (next slide)
- Dialogue with EURIG - presentation at EURIG-meeting May 2018
- European BIBFRAME Tutorial 2018
- European BIBFRAME Workshop 2018



BIBFRAME Expectations for ILS tenders

- One outcome of the 2017 European BIBFRAME Workshop is a specification for an ILS that supports BIBFRAME.
- The specification is intended to be used as a basis for evaluating vendor systems and working with vendors to develop ideal ILS components for a linked data production environment.
- The specification describe 10 levels of BIBFRAME implementation.
- Download from: <https://wiki.dnb.de/display/EBW/Documents+and+Results>





BIBFRAME Expectations for ILS tenders – used / referred

- Used by Consortium of Icelandic Libraries in call for tenders
- Will be used by Royal Danish Library in call for tenders
- Referred by Canadian Linked Data Initiative
- Library Technology Guides <https://librarytechnology.org/pr/23233>



European BIBFRAME Workshop and Tutorial 2018

- European BIBFRAME Workshop 2018: Production, Practice and Planning imPlementation - 18+19.9.2018
- European BIBFRAME Tutorial 2018 - 17.9.2018

- European University Institute, Fiesole (Florence), Italy
- Teaser BIBFRAME list 12.4.2018
- Announcements last week
- Acknowledgement to *Casalini Libri* for hosting

- See more: <http://www.casalini.it/EBW2018/>



European BIBFRAME Tutorial 2018

17.9.2018 – Firenze, Italy

- The Aim of the European BIBFRAME Tutorial 2018 is to introduce the BIBFRAME data model and the current status of BIBFRAME implementations.
- The tutorial will include practical example conversion and presentation of BIBFRAME editors.
- Participants are expected to have knowledge about Linked Data and RDF technologies. The tutorial will not include introduction to Linked Data / Semantic Web or to RDF.
- The tutorial participants have to meet the expectations.



European BIBFRAME Workshop 2018 18+19.9.2018 – Firenze, Italy

- The aim of the European BIBFRAME Workshop 2018 is to be a forum for sharing knowledge about practice of, production with and planning of BIBFRAME implementation.
- We want to bring together people working with the transition from MARC to Linked Data using the BIBFRAME model and related tools.
- This workshop is not a theoretical Linked Data / Semantic Web event; we are strongly focused on practical implementation of BIBFRAME.
- The workshop participants have to meet the expectations: working with production, practice and/or planning implementation.



European BIBFRAME Workshop 2018 and Tutorial 2018

— Organizer Group:

- Leif Andresen, Royal Danish Library
- Michele Casalini, Casalini Libri
- Reinhold Heuvelmann, German National Library
- Sally H. McCallum, Library of Congress
- Philip E. Schreur, Stanford University. Green Library
- Osma Suominen, National Library of Finland



Danish perspective BIBFRAME

- This morning Line Jung Lindhard presented the four step work plan for implementation of new data model I National Union Catalogue
- BIBFRAME as step 4 in implementation of RDA as new rules, new data model and new format



Bibliotekernes data som linked data,
integreret og forankret i www

Katalogisering i RDA

BIBFRAME format

FRBR datamodel

NAR + NARsystem med integration til VIAF

Udveksling af entiteter / ID'er for:

▫ Værker (bf:work)

▫ Udtryk (bf:work)

▫ Personer (bf:person)

▫ Korporationer (bf:organization)

-andre mulige

Formatkonverteringsmodul

▫ DanMARC2 til BIBFRAME

▫ MARC21 til BIBFRAME

Modellerings- og matchmodul med

relationsgenerator

▫ Legacy data

▫ Flade RDA-poster

Eksporteringsmodul

▫ Linked Data

▫ Sammenskrevne poster

Søgning og præsentation baseret på
entiteter og relationer



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Links

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- *European BIBFRAME workshops:*
 - 2017 workshop:
<https://wiki.dnb.de/display/EBW/EUBFWS2017>
 - 2017 workshop presentations and *BIBFRAME Expectations for ILS tenders:*
<https://wiki.dnb.de/display/EBW/Documents+and+Results>
 - 2018 workshop: <http://www.casalini.it/EBW2018/>

