

## From DigiTool to Aleph and Back Again:

## Metadata Synchronization

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2nd IGeLU Conference, Brno





- The Bavarian Library Network: Who we are
- Metadata Synchronization: ... What?
- ... Why?
- ... How?



# The Bavarian Library Network

- Regional library network for Bavaria, Germany
- Head Office is department of Bavarian State
   Library
- Network Catalog (Aleph 500):
  - cooperative cataloging,
  - copy cataloging from common data pool,
  - authority files (persons, corporate bodies, subject headings)
- Local library systems get bibliographic records autmoatically (Z39.50-based; new records, updates, deletions)



The Bavarian Library Network

- 2005: Decision for DigiTool as a common repository
- important: connection from catalog to repository (end user navigation; making digitization visible)
- DigiTool installation will be open to all network libraries (reduces administrative overhead)
- since 2006: implementation, pilot projects with Bavarian State Library (project for long-term preservation of digital objects) and University Library Regensburg

#### BVB BibliotheksVerbund Bayern

What?

Aleph

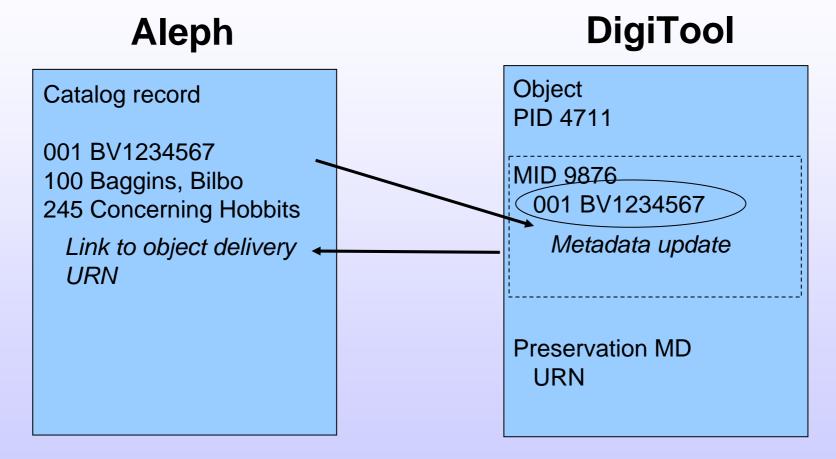


(Images from Wikipedia)

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# BVB<sup>BibliotheksVerbund</sup> What? (slightly more technical)



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### *What? End user perspective*

7

BVB Bibliot BVB Bayern Ihre Suche: Verbund-IDN Satz 1 von 1 Ressource Titel	Suche im BVB	Suche weltweit	Ben Trefferübersicht Gastnutzer	utzer anmelden   Abi Trefferliste	Suchhi		a defunde
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1680\_BSB\_A.lat.a. 2179-2\_288\_289

⊕ JPG



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#### ARGUMENTUM.

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rant : metri cauffa , vel ratione claufit- Alcinoi uxori. Germanis. haum. Neceft, ut quidam dicunt, dua- Conrienere. Hic Liber, qui anore His addidit. Poteranvenim fimul quidam, gufle à Poëra recirati finnt. narratque fed non omnes, tacere. Servius.

Tom. 11.

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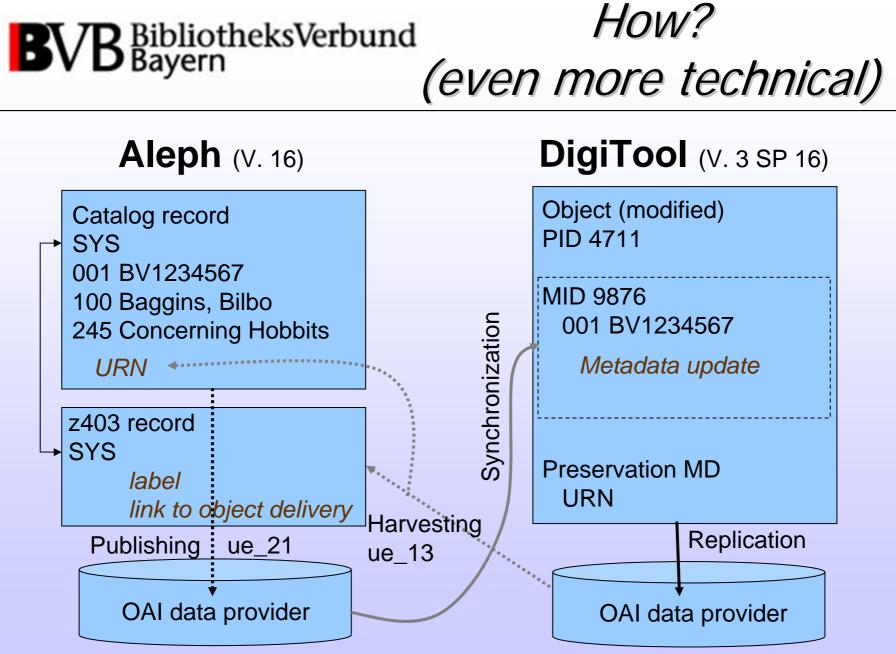
lis numerus : qui apud Latinos nun- defcribit , exiis eft, qui pracipuam palquam penitus invenitur. Et bene onanes mam meteri judicati, atque iph Au-

Agellius, l. 2. c. 3. hunc librum viginti. Conticuere. ] Quia dixerat : Fir frepi- aureis emptum effe. Caterum dicendi aus telles : &, cylbara crinitus lopas genera, quos gaoger tipae Graci vo-Perfonat aurata. Be, ingeminant plaufu cant, cum tria fint probabilia ; Ubers. Tyrii. Conticuere partim, propter ejus five generofum : Gravile, five Subrile 5 honorificentiam : partim, quia mens & Mediane, five Mediocre; hie Liber hominum cupida est audiendi novas in Summo genere scriptus eft. Referent Tes, & regina indizerat filentium. Dinal. autem ad locum communem , guo omnes



Why?

- using existing bibliographic records = saving of labor (→ digitization projects)
- Aleph is and will at least for some time stay the primary cataloging environment (authority files).
   If "low quality" is sufficient, it is also possible to have metadata only in DigiTool.
- updates of bib. records are replicated to DigiTool
- Access to digital objects from the catalog (on multiple levels: network / library / worldwide)



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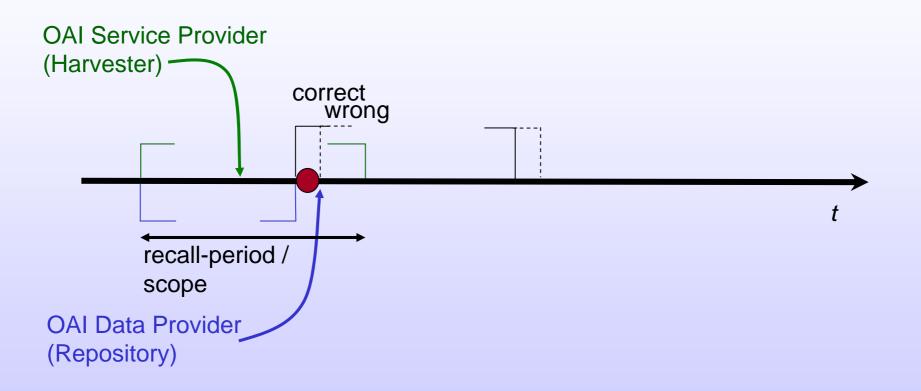




	DigiTool	Aleph
Updating OAI data provider (Repository)	Replication	Publishing ue_21
OAI service provider	Synchronization	Harvesting ue_13



tempus fugit





*Configuration experience* 1

Aleph side:

- recall-period 20 minutes, wait time 10 minutes (applies when the last request produced no results – otherwise next request immediately → adaptive harvesting strategy)
- after error situation: recall-period 90 minutes, wait time 10 sec. ("catch-up")
- Important: choose recall-period > wait time (to avoid degeneration)
- Publishing is triggered by indexing process otherwise constraints for publishing can't be evaluated!



*Configuration experience 2* 

### DigiTool side:

- Synchronization: every 10 minutes (not adaptive), recall-period 4 hours (relic, but still works)
  - This interval mustn't be too short, otherwise the former synchronization process may not have finished
- Replication: every 10 minutes
- change of parameters → jboss restart!



# Exciting things 1

- 1. Deleting an object in DigiTool
  - deletion is communicated to Aleph
  - z403 record is deleted
  - *but* URN remains in bib. record
- 2. Changing the label in DigiTool
  - is communicated to, but *not processed* by Aleph
  - Aleph-Fix announced



Exciting things 2

- 3. Linking 1 bib. record with a second object
  - when Aleph is going to publish the bib. record, it may note that there was no change to it (new link is no part of publishing format) and ignore it
  - Aleph-Fix announced
  - Recommendation: use shared MD record in DT
- 4. Linking 1 object with 2 bib. records
  - not possible due to uniqueness of PID in Aleph index z403\_id1 (which avoids infinite DTL-Aleph-Sync loop...)

- whenever you want to do such a thing: rethink your data model...



Exciting things 3

- 5. correcting wrong 001 number in DT
  - Metadata update may succeed (cf. 3.)
  - Aleph notes that there is already a z403 record for this PID and is satisfied...
  - ...but you are probably not. You can
  - -- remove "wrong" z403 record (ADAMenabled version of Aleph GUI client) before correction
  - -- delete and recreate object in DT

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Frustrating things

- When you have digital objects like tables of contents, reviews, errata etc. which can be used to enrich the catalog
- you want to have a link from the bib. record
- but when these objects have an URN in DigiTool, it is transported into the bib. record → this should only happen for "full" representations of an item
- DigiTool stores URN with no relation to MD records
- so the short-term "solution" is: no URNs (:-[)
- It has been quite a long quest: implementation, test, frustration, re-implementation... but now it works for most scenarios (:-})

Thank you very much for your attention!

The road goes ever on and on...

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