Not out of the box: Recent DigiTool extensions in Bavaria

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The head office of the Bavarian Library Network is a department of the Bavarian State Library.
All libraries in the network *could* use DigiTool! These already do:
Head office:
• Nothing to digitize
• No licences
→ No objects

Challenge:
make our libraries
• produce content
• choose DigiTool
Donate some Objects, please!
How can we get Objects?

- Meet requirements in advance
- Support librarians more extensively than we ever thought
- Increase acceptance of product
Increasing acceptance

Delivery not Allowed?
This is user Udo. Udo is member of a university library.

He has access to a lot of objects, but sometimes he doesn’t even know.
From any computer within the reading room of his library Udo has access to an object A. By accident he comes third after two other concurrent users:

(restriction by law/contract - no arbitrary decision)
From the computer in the network center Udo has no access to object A, because access is limited to computers within his library reading rooms.
Some objects may be accessed by a proxy server. But Udo is not made to know this.
But since we would like to raise usage, we have decided to put more intelligence into the DeliveryNotAllowed.jsp.
From the computer in the library Udo has access to an object A. Unfortunately he is the third of two concurrent users …
From the computer in the network center Udo has no access, because access is limited to computers within his library reading rooms.

There's no access to the requested object from your IP address [193.174.96.1].

- Branding of the responsible library
- Link to homepage/Question Point of library
Some objects may be accessed by a proxy server. Now Udo is made to know this.

Dear User,

the required document is accessible from personal computers within the reading rooms of the Bavarian State Library.

If you are an authorized user of the Bavarian State Library with a valid library card you also have access from outside, limited to the metropolitan area Munich.

Please use the following link and put in your user number and OPAC-PIN. After authentication you will be returned to the requested object automatically.

https://manuscript.bib-wien.ac.at/digimageview/index.html?title=Some%20objects%20may%20be%20accessed%20by%20a%20proxy%20server.%20Now%20Udo%20is%20made%20to%20know%20this.
Unfortunately no information is passed to `DeliveryNotAllow.jsp`.

**The recipe:**

1. get PID from `userInfo` (class `PdsConnector`)
2. do again what DigiTool has done before:
   a. fetch the Digital Entity DE by PID
   b. fetch access rights from DE
3. check the access rights description
   match: display text (e.g. link to proxy) and finish
4. check access rights against user credentials
   (10 possible conditions)
   memorize the possible reasons
5. display a text appropriate to the combinations of the possible reasons and finish
- Pass the reason(s) to the script why access to the object was forbidden
- Make Digital Entity available to the script
Increasing acceptance

Where’s the object I have bookmarked?
Main entry points to our objects in DigiTool

• Bavarian Union Catalogue
• local OPACs with records replicated from the Union Catalogue
Ihre Suchanfrage all fields = Dorn Frommann 1792

Alle BVB-Datenbanken (mit Campus-Berechtigung) (1/1)

Special-Charte des Gesamten Fürstentums Coburg

Verfasser: Dorn, Sebastian; Frommann, August Bernhard
Impressum, Jahr: [Coburg]: [Rudolph August Wilhelm Uhl]; 1792: 1 Kt., 1792
Schlagworte: Albertina, Sachsen-Coburg, Coburg, Fürstentum

Link (Volltext) 2006 digitalsiert von: UB Regensburg, Exemplar der UB Coburg mit der Signatur: Kt B 1463

(Services, Fernleihe und weitere extras)

In die Merkliste
That's nice.
I will bookmark the url.
The very next day …

Hey, Udo no luck again!
Solution: offer to bookmark the object in the menu

Object:
Special Charte des gesamten Fürstentums Coburg

URL of this object:
http://bvbml.bib-bvb.de/webclient/DeliveryManager?pld=334549&custom_art_2=simple_viewer

Bookmark this object:
Click the right mouse button on the following link and choose *Lesezeichen setzen* or *Zu Favoriten hinzufügen*.

Special Charte des gesamten Fürstentums Coburg
Increasing Acceptance

As I see, I see nothing
Udo calls a METS-Object containing PDFs

What Udo is looking at in the right frame is blank.jsp - the name is adequate!
Problem

• Local Acrobat settings are responsible where PDF is shown inside viewer / outside viewer

• Very inconvenient e.g. for METS objects with one PDF per page

We were about to loose a library because of user complaints ...
Solution

Modify blank.jsp

javascript: after 5 sec display explanation

java: language support
No display?
Happy to know

I got it!
Theatrum Europaeum, Band 3, Frankfurt am Main 1670

Ansichten: [b] [Frontispiz] 66,5%

Suchen
Support librarians AND protect ourselves from trouble

In SP22 the maintainance job interface was improved. Ex Libris did a good job, however ...
I am so sorry!

Easiest way to kill your repository!
Better prevent the worst!
At least create a warning close to the Point of Decision.
By the way ...

security of checksums = reliability of repository

disabled for Admin Units
Meet requirements:

Extending Viewers

• MP3
• „Gateway objects“
• JPEG stream delivery of JP2/PDF/TIFF/PEG
Problem
Libraries want MP3 to be displayed within the single viewer

Idea
Adobe Shockwave Player most widespread Plugin for this purpose; from sourceforge.net you can get Easy Musicplayer For Flash (EMFF).
Extending Viewers 1

- DefaultViewerPreprocessor
- `/webclient/custom/bvb_audio.jsp`
  very little Java + HTML
Extending Viewers

• MP3

• Gateway Objects

• J PEG stream Delivery of JP2/PDF/TIF/J PEG
Extending Viewers

- MP3
- Gateway Objects
- JPEG stream delivery of JP2/PDF/TIFF/JPEG
Funding of digitization for libraries

Digitization can be funded e.g. by DFG (German Research Foundation). Then

- the digitized objects can be presented in any repository
- but must also be available via the so called DFG Viewer which requires jpeg images in 3 resolutions.

To support our libraries, *we* have to generate JPEG-on-the-fly from the delivery formats our libraries prefer:

PDF, JPEG2000, JPEG, ...
Create JPEG Stream from PDF/ JPEG/ GIF

- Creation by CGI
  Perl / Imagemagick's convert

- VPP TextCGI ViewerPreProcessor
  why? 1 Parameter can be passed, fileext is passed

- Delivery to DTL's J magic-Folder - caching possible

- Parameters passed to DeliveryManager:
  ?pid=<pid>&custom_att_1=directstream&search_terms=<resolution>

The only parameter passed by TextCGIViewerPreprocessor
Die vornehmsten Merkwürdigkeiten, der Reichs-Stadt Augsburg.
Create JPEG Stream from JPEG2000

- Creation by JSP using com.aware.imageServer classes
- VPP J2KViewerPreProcessor
  - why? getting into u3_1-Java world
- Parameters passed to DeliveryManager:
  pid=<pid>&custom_att_1=directstream&res=<resolution>

One of three parameters passed by J2KViewerPreProcessor
JPEG stream from JPEG2000
(Repeat of Madrid 2008)

- Make VPP’s pass parameters from DeliveryManager Call
- At least make VPP’s pass 1 custom parameter (encoding)
- Or at least provide 1 (!) VPP passing parameters
- PLEASE!
Greetings from Bavaria herself