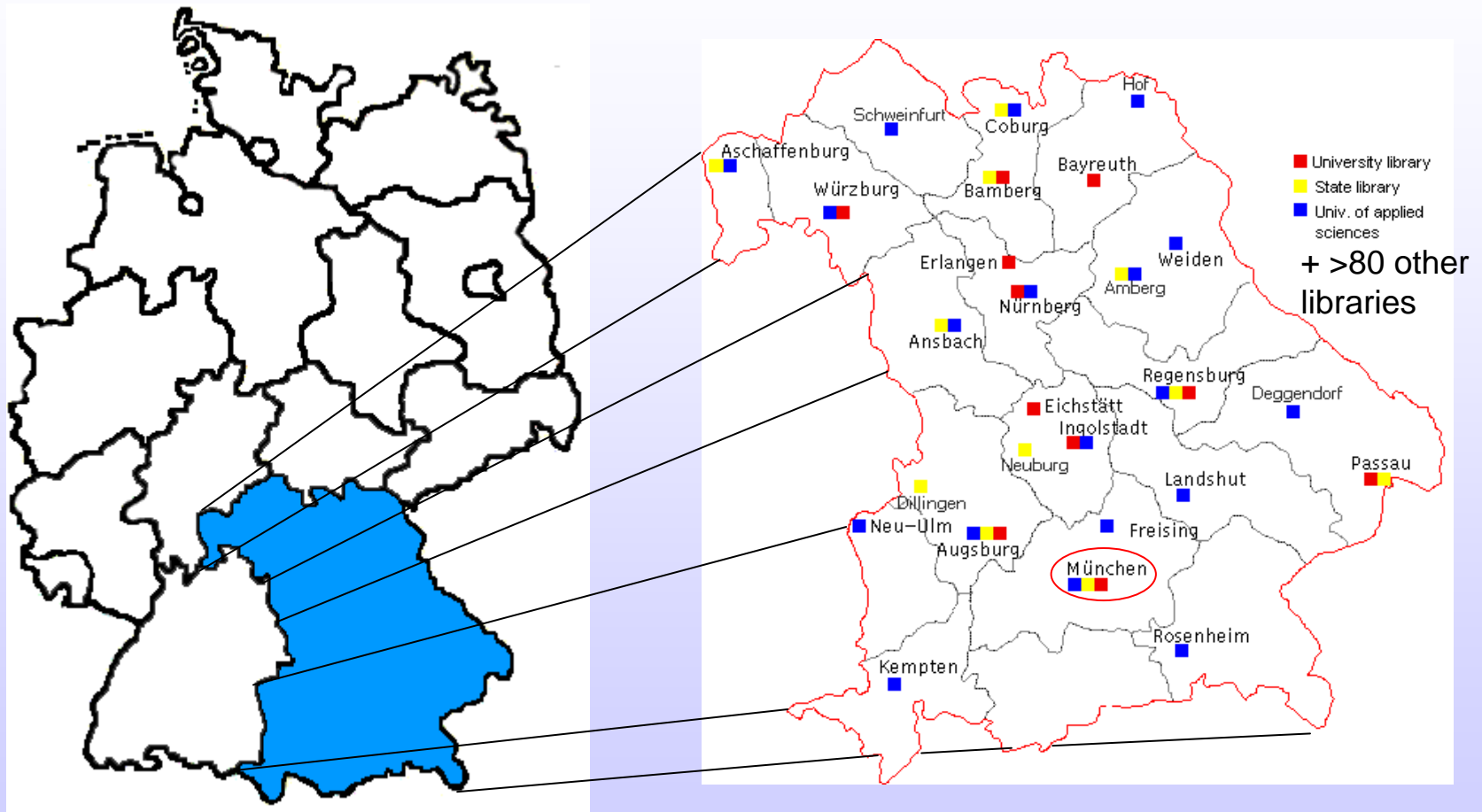


Not out of the box: Recent DigiTool extensions in Bavaria



Matthias Gross (Bavarian Library Network)

The Bavarian Library Network



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.

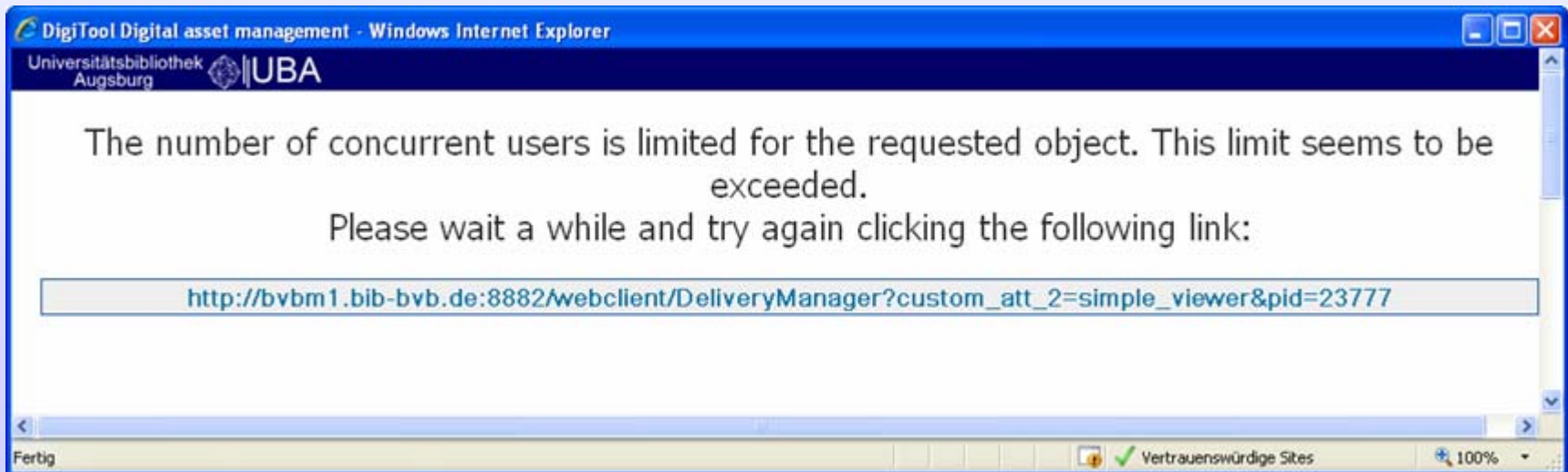


Some objects may be accessed by a proxy server. But Udo is not made to know this.

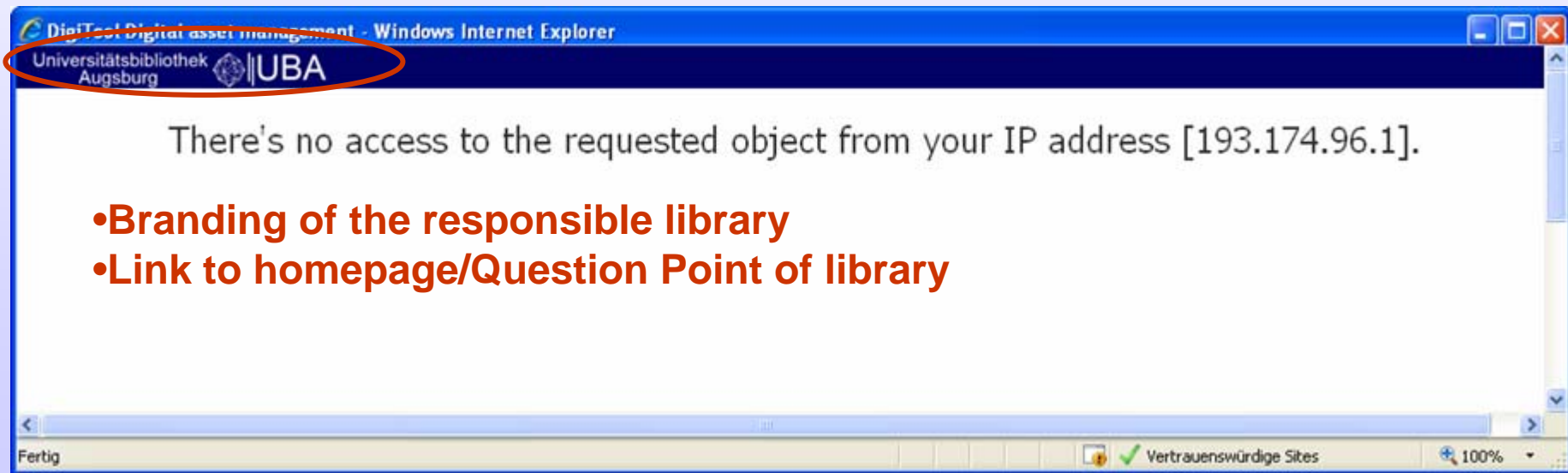


But since we would like to raise usage, we have decided to put more intelligence into the *DeliveryNotAllowed.jsp*

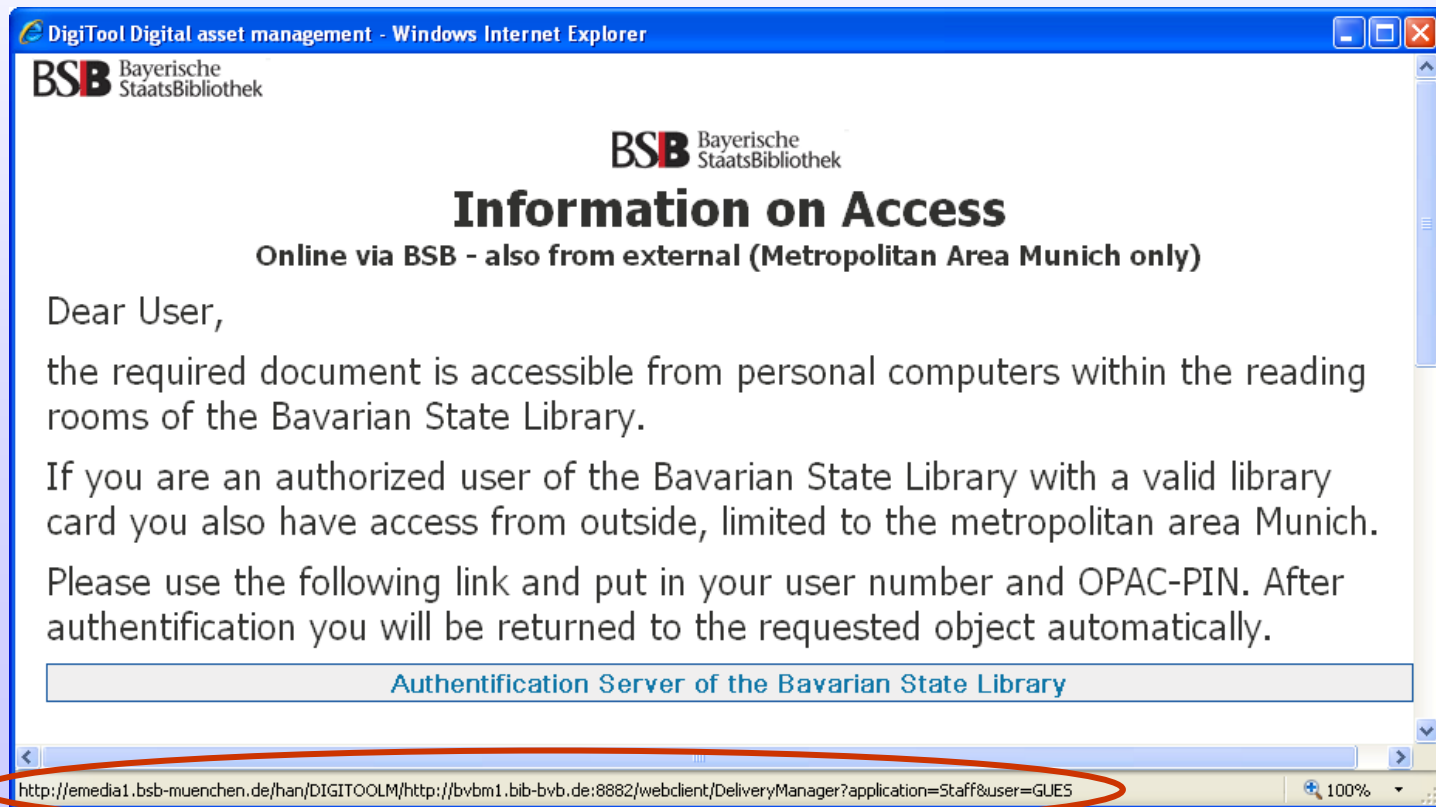
From the computer in the library Udo has access to an object A. Unfortunately he is the third of two concurrent users ...



From the computer in the network center Udo has no access, because access is limited to computers within his library reading rooms.



Some objects may be accessed by a proxy server. Now Udo is made to know this.



The screenshot shows a web browser window titled "DigiTool Digital asset management - Windows Internet Explorer". The page content includes the BSB Bayerische Staatsbibliothek logo and the heading "Information on Access". Below the heading, it states "Online via BSB - also from external (Metropolitan Area Munich only)". The main text reads: "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." A blue button labeled "Authentication Server of the Bavarian State Library" is visible. At the bottom, the address bar contains the URL: <http://emedi1.bsb-muenchen.de/han/DIGITOOLM/http://bvbm1.bib-bvb.de:8882/webclient/DeliveryManager?application=Staff&user=GUES>, which is circled in red.

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

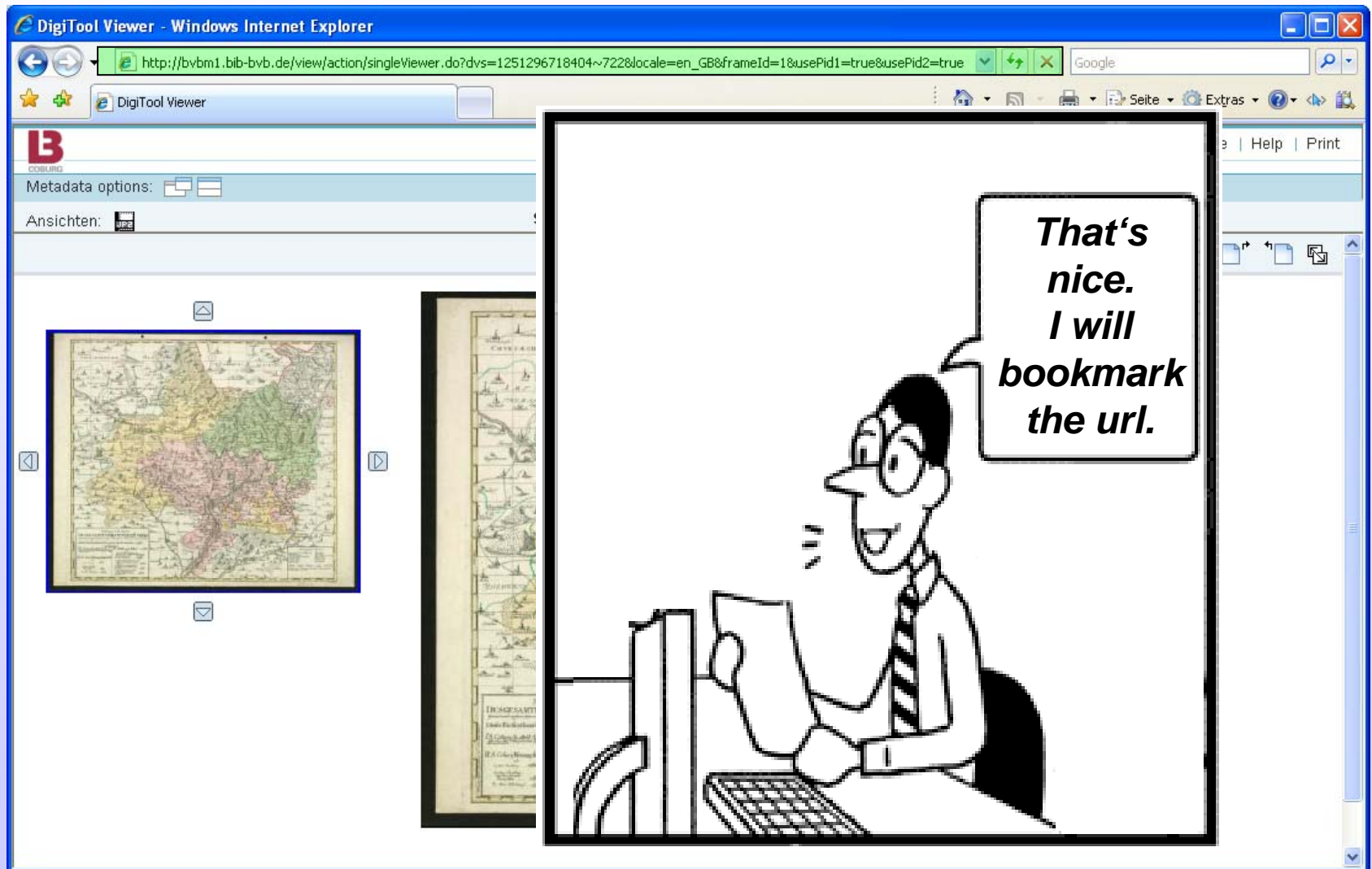
Increasing acceptance II

Where's the object I have
bookmarked ?

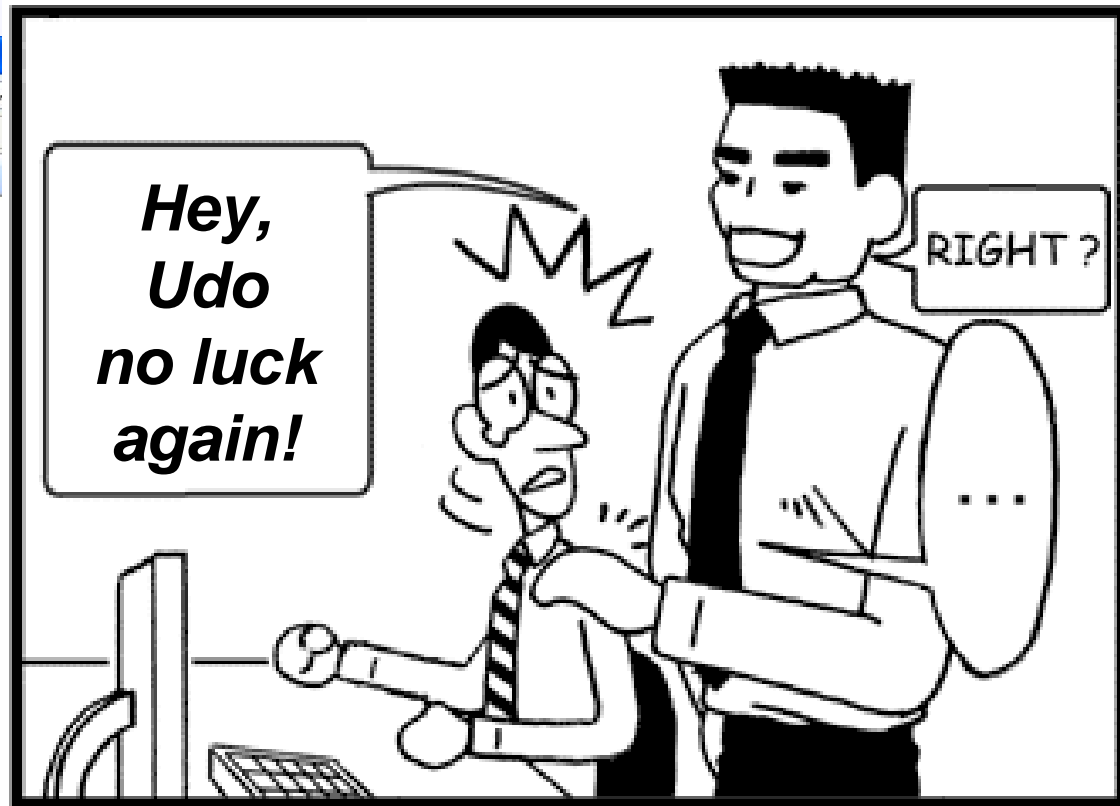
Main entry points to our objects in DigiTool

- Bavarian Union Catalogue
- local OPACs with records replicated from the Union Catalogue

The screenshot shows a Windows Internet Explorer browser window with the address bar containing the URL: <http://opac.bib-bvb.de:8080/InfoGuideClient.fasttestsis/refineSearch.do?methodToCall=spellcheckQuery>. The page title is "Bibliotheksverbund Bayern - Windows Internet Explorer". The search results are displayed on the "Gateway Bayern" website. The search query is "Ihre Suchanfrage all fields = Dorn frommann 1792". The results show one entry: "Special-Charte Des Gesamten Fürstenthums Coburg|Special Charte des gesamten Fürstenthums Coburg". The author is listed as "Verfasser: [Dorn, Sebastian](#) ; [Frommann, August Bernhard](#)". The publication information is "Impressum, Jahr: [Coburg]: [Rudolph August Wilhelm Uhl]: 1792: 1 Kt., 1792". The keywords are "Schlagworte: [Altkarte](#) , [Sachsen-Coburg](#) , [Coburg <Fürstentum>](#)". A link is provided: "Link (Volltext // 2008 digitalisiert von: UB Regensburg, Exemplar der LB Coburg mit der Signatur: Kt B 1469)". There is also a logo for "S-F-X" (Services, Fernleihe und weitere eXtras) and a link "in die Merkliste".



The very next day ...



Solution: offer to bookmark the object in the menu

The image shows two overlapping Internet Explorer browser windows. The top window, titled 'DigiTool Viewer - Windows Internet Explorer', displays a URL from 'bvbm1.bib-bvb.de' and has a 'Bookmark' button circled in red in its menu bar. The bottom window, titled 'DigiTool Digital asset management - Windows Internet Explorer', shows a map thumbnail on the left and the following text:

Object:
Special Charte des gesamten Fürstenthums Coburg

URL of this object:
http://bvbm1.bib-bvb.de/webclient/DeliveryManager?pid=334548&custom_att_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 Fürstenthums Coburg](#)

At the bottom of the page, there are logos for 'BVB BibliotheksVerbund Bayern' and the text 'ein service of the team of the BVB-Multimediaserver'.

Increasing Acceptance III

As I see, I see nothing

Udo calls a METS-Object containing PDFs

The screenshot shows a web browser window titled 'Mets Viewer - Windows Internet Explorer'. The page is from the 'Universitätsbibliothek Augsburg' (UBA). The current view is 'Inhaltsverzeichnis(logical)' for 'Theatri E'. The main content area shows a table of contents for 'Theatrum Europaeum, Band 3, Frankfurt am Main 1670'. The table of contents includes items like 'Titel[e]', 'Verzeichnis der Kupferstiche', 'Widmung', 'Vorrede', 'Tafeln / Karten', and a list of years from 1633 to 1638. The right pane is blank. A cartoon overlay shows a woman saying 'Strange product!' and a man replying 'Sorry, Miss, just a TOC!'.

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

The screenshot shows a Windows Internet Explorer browser window titled "Mets Viewer - Windows Internet Explorer". The address bar displays "Universitätsbibliothek Augsburg UBA". The current view is set to "Inhaltsverzeichnis(logical)" for the document "Theatri Europaei Continuatio III". The page content is titled ">> Theatrum Europaeum, Band 3, Frankfurt am Main 1670".

On the left side, there is a table of contents with expandable items:

- [\[Titel\]](#)
- [\[Verzeichnis der Kupferstiche\]](#)
- [\[Widmung\]](#)
- [\[Vorrede\]](#)
- [\[Tafeln / Karten\]](#)
- [1633](#)
- [1634](#)
- [1635](#)
- [1636](#)
- [1637](#)
- [1638](#)
- [\[Register\]](#)

The main content area is currently displaying a PDF view of the "Frontispiz" (title page). The view is labeled "Ansichten: [PDF] [b] [Frontispiz]". The content area is mostly blank, suggesting a display issue.

The status bar at the bottom shows a security warning: "Vertrauenswürdige Sites" with a green checkmark, and a zoom level of "100%".



Mets Viewer - Windows Internet Explorer

Universitätsbibliothek Augsburg UBA

Current View: Inhaltsverzeichnis(logical) Theatri Europaei Continuatio III


>> Theatrum Europaeum, Band 3, Frankfurt am Main 1670

Theatrum Europaeum, Band 3, Frankfurt am...

- [Titel]
- [Verzeichnis der Kupferstiche]
- [Widmung]
- [Vorrede]
- [Tafeln / Karten]
- 1633
- 1634
- 1635
- 1636
- 1637
- 1638
- [Register]

Ansichten: [b] [Frontispiz]

Suchen



Fertig

Vertrauenswürdige Sites

100%

***Support librarians
AND
protect ourselves from trouble***

In SP22 the maintenance job interface was improved. Ex Libris did a good job, however ...



Repository | Delivery | Deposit | Common | **Maintenance** | R

Submit a new job | Jobs List | Monitor

Job population: Delete Digital Entities

Admin Unit: BAY01

Find:

All

contains

[+ Add Condition](#)

Search

Windows Internet Explorer



You did not perform a search. All digital entities will be included.

OK

Abbrechen

! Easiest way to kill your repository !

Job population: Delete Digital

**! Better prevent
the worst !**

Admin Unit: BAY01

Find:

All

contains

+ Add Condition

Search

Windows Internet Explorer



You have not performed any search. You cannot continue!

OK

⏪ < > ⏩

Back

Next



Repository | Delivery | Deposit | Commons | **Metadata** | Reports

Submit

Windows Internet Explorer



You have a fair amount of hits. Are you sure you want to perform the job 'Delete Digital Entities' for 1011 objects?

OK

Abbrechen

Job p

Adm

Find:

Katalogisierer

contains

SCHROEDERP

and

All

contains

DE-384

Display: 1 - 10 of 1011

#	Delivery	Metadata	PID	Label
...	1		219839	...
...	2			creator: SCHROEDEI
...	3			image/gif creator: SCHROEDEI
...	4			image/gif creator: SCHROEDEI
...	5			THUMBNAI image/gif creator: SCHROEDEI
...	6			THUMBNAI image/gif creator: SCHROEDEI
...	7			THUMBNAI image/gif creator: SCHROEDEI

Back

Next

**At least create a warning
close to the
Point of Decision**

By the way ...

security of checksums
=
reliability of repository

The screenshot shows the BVB BibliotheksVerbund Bayern website. At the top left is the logo. Below it are navigation links: Repository | Delivery | Deposit | Common | IV. A red button labeled 'Submit a new job' is followed by 'Jobs List' and 'Monitor'. A progress bar at the top right shows steps 1, 2, 3, and 4, with step 3 highlighted. The main heading is 'Job additional details' followed by 'Technical Metadata Extractor', which is circled in red. Below this is a green box for 'Scheduling:' with a clock icon and 'Start ASAP'. Underneath, 'Technical Metadata Extractor' is listed. The 'Parallel Processes:' dropdown is set to '1'. A checkbox labeled 'Overwrite MD if already exists' is circled in red and is unchecked. To the right of this checkbox, the text 'disabled for Admin Units' is written in red.

Meet requirements: Extending Viewers

- MP3
- „Gateway objects“
- JPEG stream delivery of JP2/PDF/TIF/JPEG

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).

The screenshot shows a Windows Internet Explorer window titled "Mets Viewer - Windows Internet Explorer". The address bar shows the URL "Hochschule für Musik und Theater München". The page content includes a navigation menu on the left with items like "Startseite", "Unterrichtsheft", "Kommentarheft", "Bilder", and "Sound". The "Sound" folder is expanded, showing a list of MP3 files, with "04_mozart_kv543-1.mp3" selected. The main content area displays "04_mozart_kv543-1.mp3" and a "BVB Audio-Viewer" interface with a play button, a progress bar, and a volume control slider.

➤ DefaultViewerPreprocessor

➤ /webclient/custom/bvb_audio.jsp?
very little Java + HTML

Extending Viewers

- MP3
- Gateway Objects
- JPEG stream Delivery of JP2/PDF/TIF/JPEG

Extending Viewers

- MP3
- Gateway Objects
- JPEG stream delivery of JP2/PDF/TIF/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 TextCGIViewerPreProcessor
why? 1 Parameter can be passed, fileext is passed
- Delivery to DTL's Jmagic-Folder – caching possible
- Parameters passed to DeliveryManager:
`?pid=<pid>&custom_att_1=directstream&search_terms=<resolution>`

The only parameter passed by TextCGIViewerPreprocessor

The screenshot displays the BVB DFGviewer web interface. On the left, a sidebar lists the current view as 'Demonstrationsobjekt DFG-Viewer (ourmets)' and provides a list of files:

- Demonstrationsobjekt DFG-Viewer (ourmets)
- PDF (Basis Grayscale-TIFF) mit DigiFooter
- PDF (Basis TIFF-G-4) mit DigiFooter
- JPEG2000 mit Footer (3513 x 4781 Pixel)
- Seite 3 aus Bindeeinheit 1, Teil 1

The main viewer area shows the title page of a document:

BVB Verbundzentrale: BVB Verbundzentrale: Demonstration JPEG-on-the-fly für den DFG-Viewer

- 1.Seite: PDF (Basis Grayscale-TIFF)
- 2.Seite: PDF (Basis TIFF-G-4)
- 3.Seite: JPG2000
- 4.Seite: JPG Bavaria (2009)

aktuelle Seite: [1] - Bsp. 1

Die vornehmsten Merkwürdigkeiten, der Reichs - Stadt Augsburg.

At the bottom of the page, there is a small illustration of a printing press mechanism.

The interface includes a search bar, navigation controls, and a footer with the IUBA logo and the URL urn:nbn:de:bvb:384-uba000211-0001-1.

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

Current View: Demonstrationsobjekt... Demonstration JPEG-on-the-fly

>> Demonstrationsobjekt DFG-Viewer (ourmets) > JPEG2000 mit Footer (3513 x 4781 Pixel)

DFGviewer



Deutsche Forschungsgemeinschaft DFG

Mehr zum DFG-Viewer: Informationen | FAQs | Kontakt |  

BVB Verbundzentrale: BVB Verbundzentrale: Demonstration JPEG-on-the-fly für den DFG-Viewer

1. Seite: PDF (Basis Grayscale-TIFF)
2. Seite: PDF (Basis TIFF-G-4)
3. Seite: JPG2000
4. Seite: JPG Bavaria (2009)

aktuelle Seite: **3** - Bsp. 3

Ansichten:  

RE. Tab. LXVIII

September 8 2009



(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