BVB BibliotheksVerbund Bayern

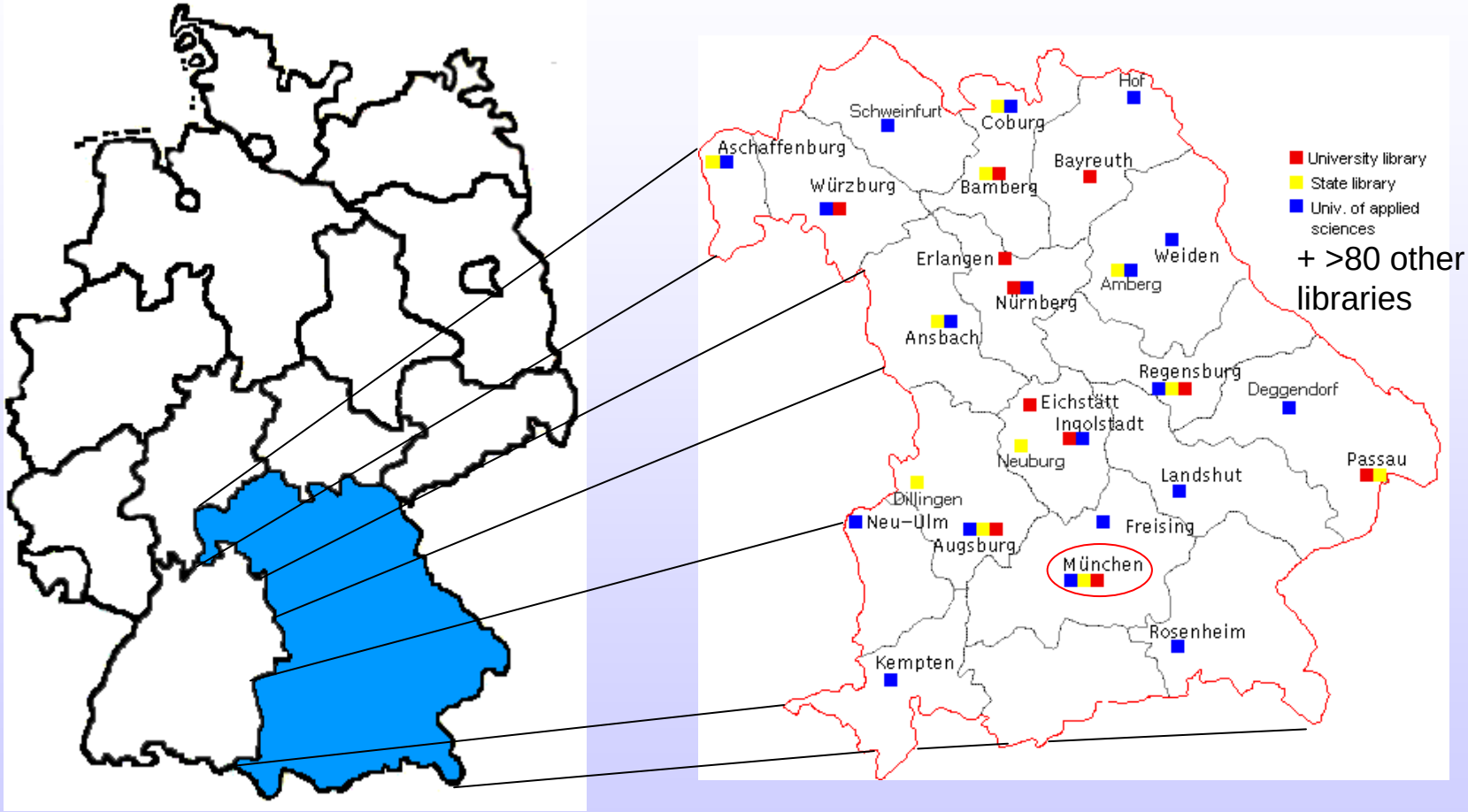
DigiTool DIGITAL ASSET MANAGEMENT

Not out of the box: Recent DigiTool extensions in Bavaria

Matthias Gross (Bavarian Library Network)

BVB BibliotheksVerbund Bayern

The Bavarian Library Network



The head office of the Bavarian Library Network is a department of the Bavarian State Library.

BVB BibliotheksVerbund Bayern

DigiTool users in Bavaria

All libraries in the network *could* use DigiTool! These already do:

BVB BibliotheksVerbund Bayern

The dark side

Head office:

- Nothing to digitize
- No licences

→ No objects

Challenge:

make our libraries

- produce content
- choose DigiTool

BVB BibliotheksVerbund Bayern

How we feel ...

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

I

Delivery not Allowed ?

Delivery not allowed?

This is **u**ser **U**do.

Udo is member of a university library.

He has access to a lot of objects, but sometimes he doesn‘t even know.

BVB BibliotheksVerbund Bayern

Delivery not allowed?

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)

Delivery not allowed?

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.

Delivery not allowed?

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

BVB BibliotheksVerbund Bayern

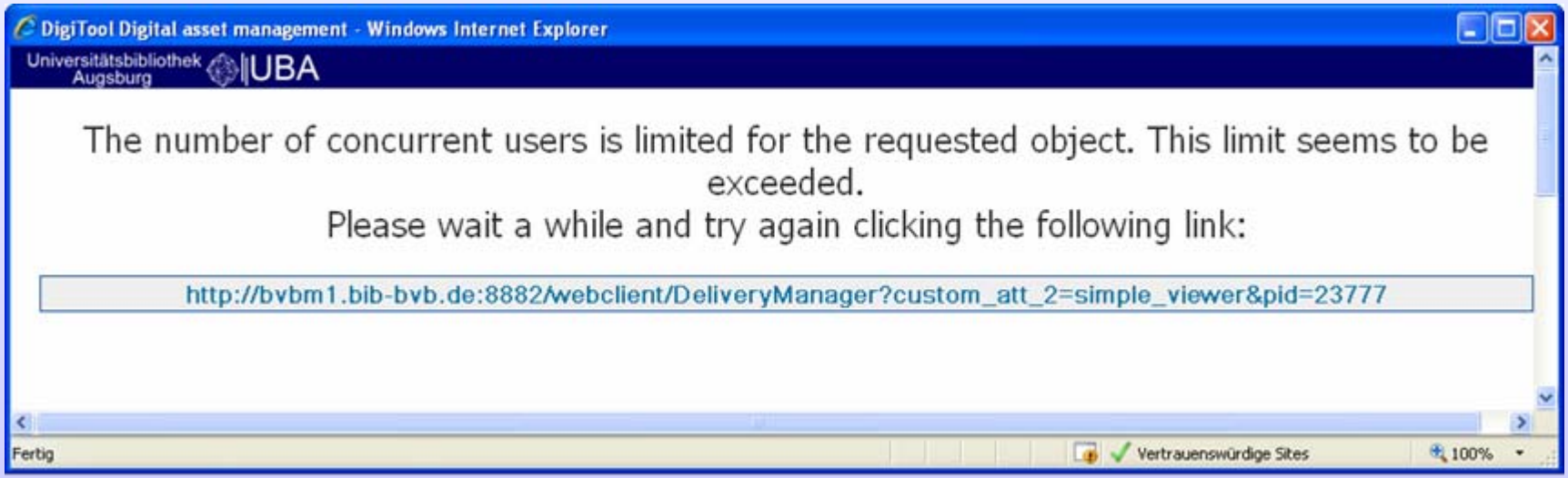
Delivery not allowed?

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

BVB BibliotheksVerbund Bayern

Delivery not allowed?

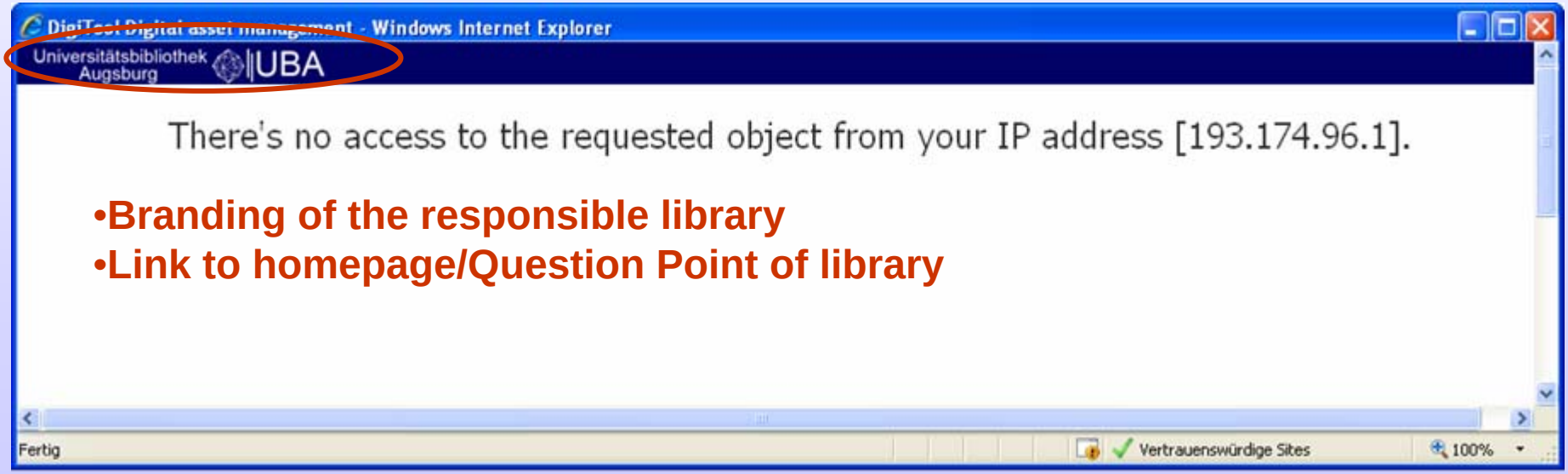
From the computer in the library Udo has access to an object A. Unfortunately he is the third of two concurrent users ...



BVB BibliotheksVerbund Bayern

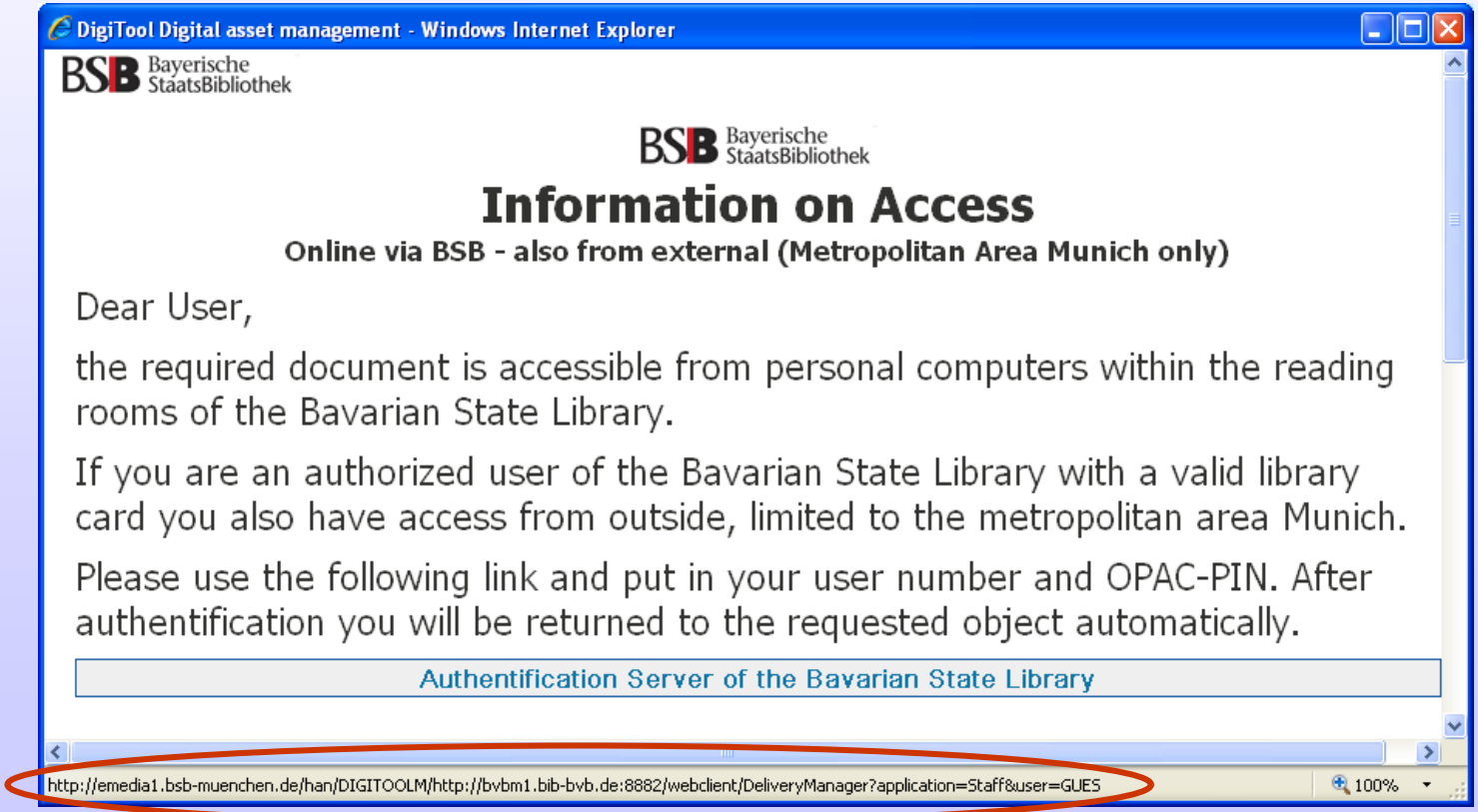
Delivery not allowed?

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



Delivery not allowed?

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



BVB BibliotheksVerbund Bayern

Delivery not allowed?

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

BVB BibliotheksVerbund Bayern

Increasing acceptance II

Where‘s the object I have bookmarked ?

BVB BibliotheksVerbund Bayern

Bookmark?

Main entry points to our objects in DigiTool

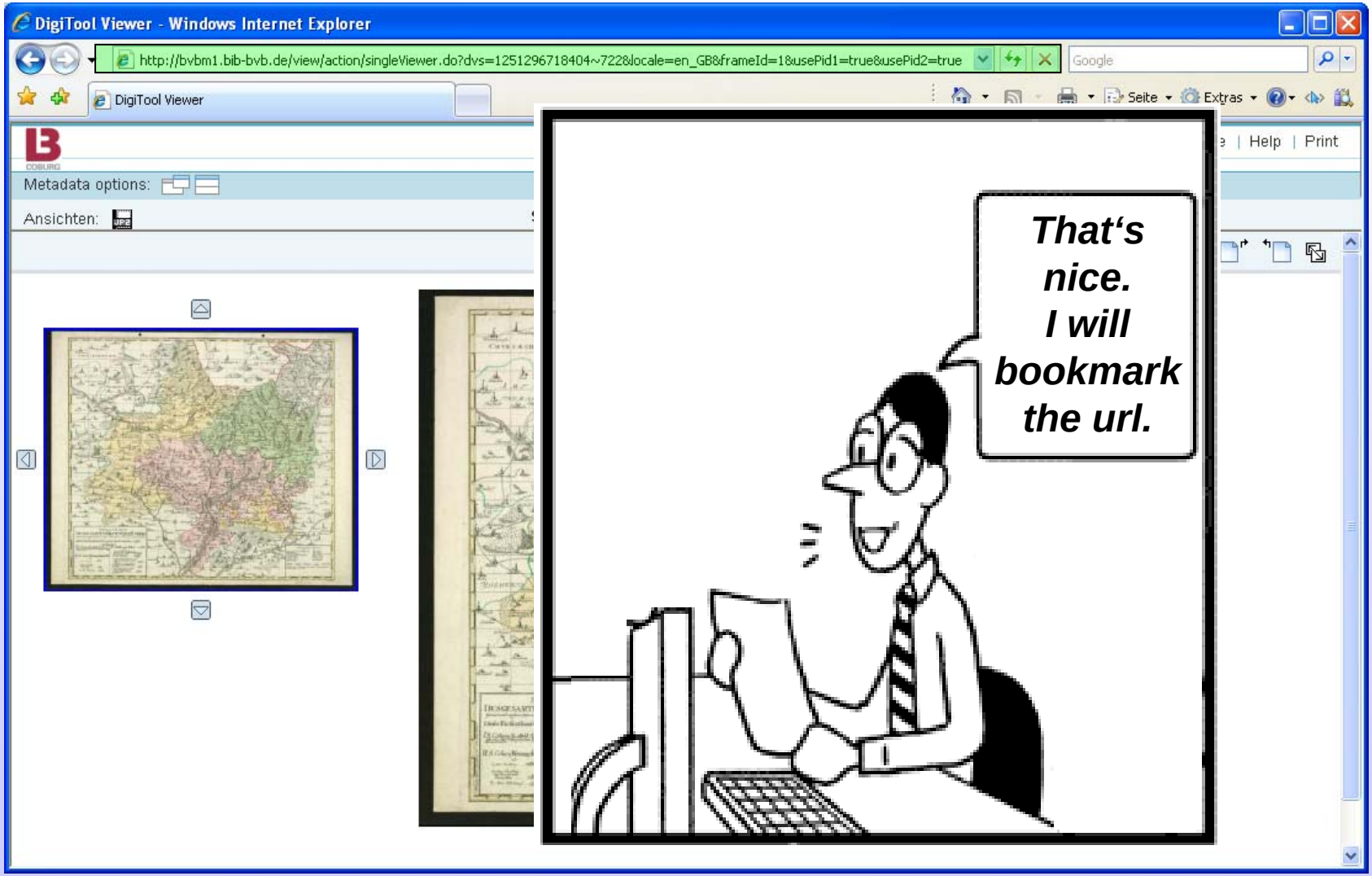
- Bavarian Union Catalogue
- local OPACs with records replicated from the Union Catalogue

BVB BibliotheksVerbund Bayern

Bookmark?

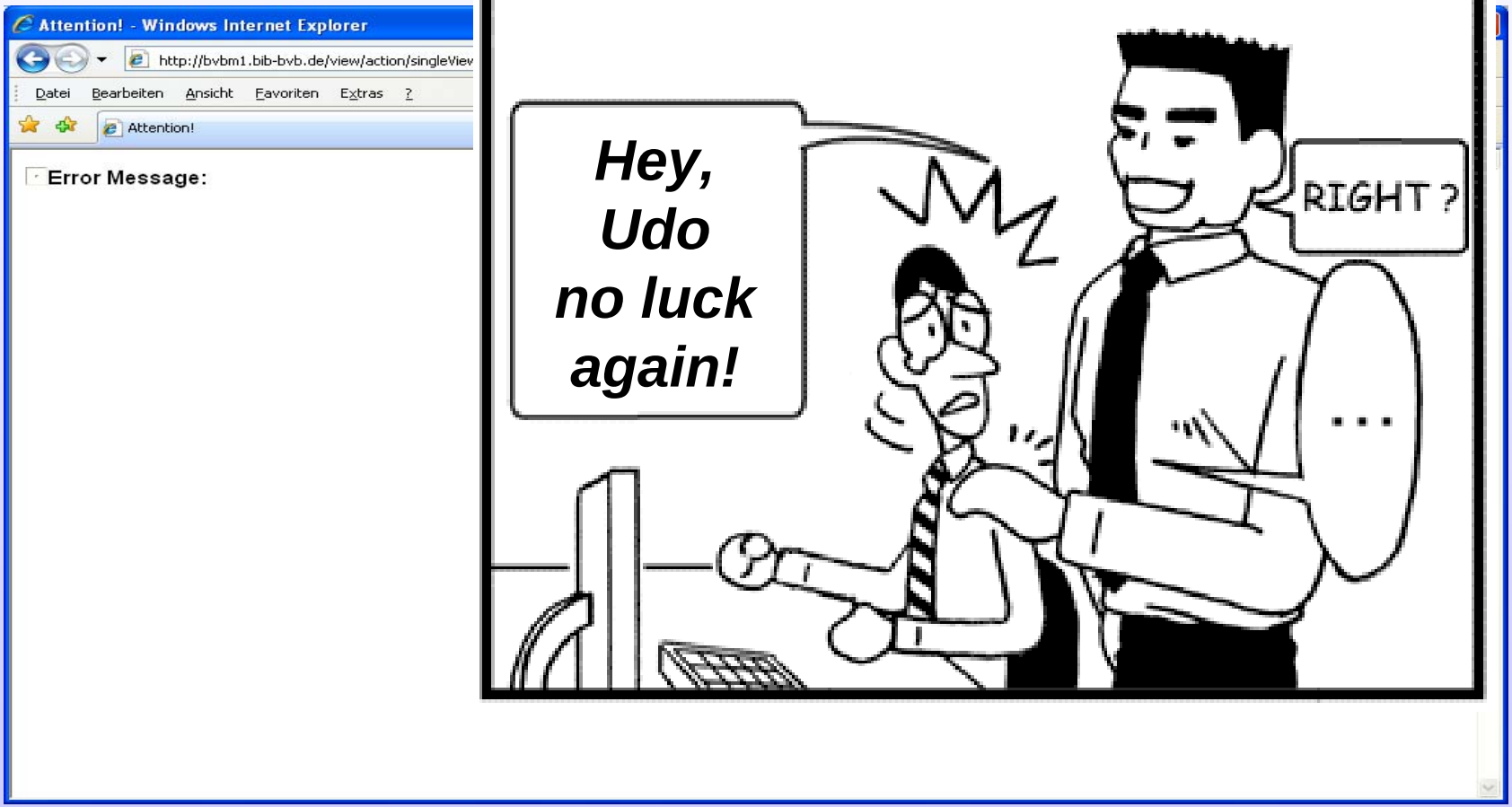
BVB BibliotheksVerbund Bayern

Bookmark?

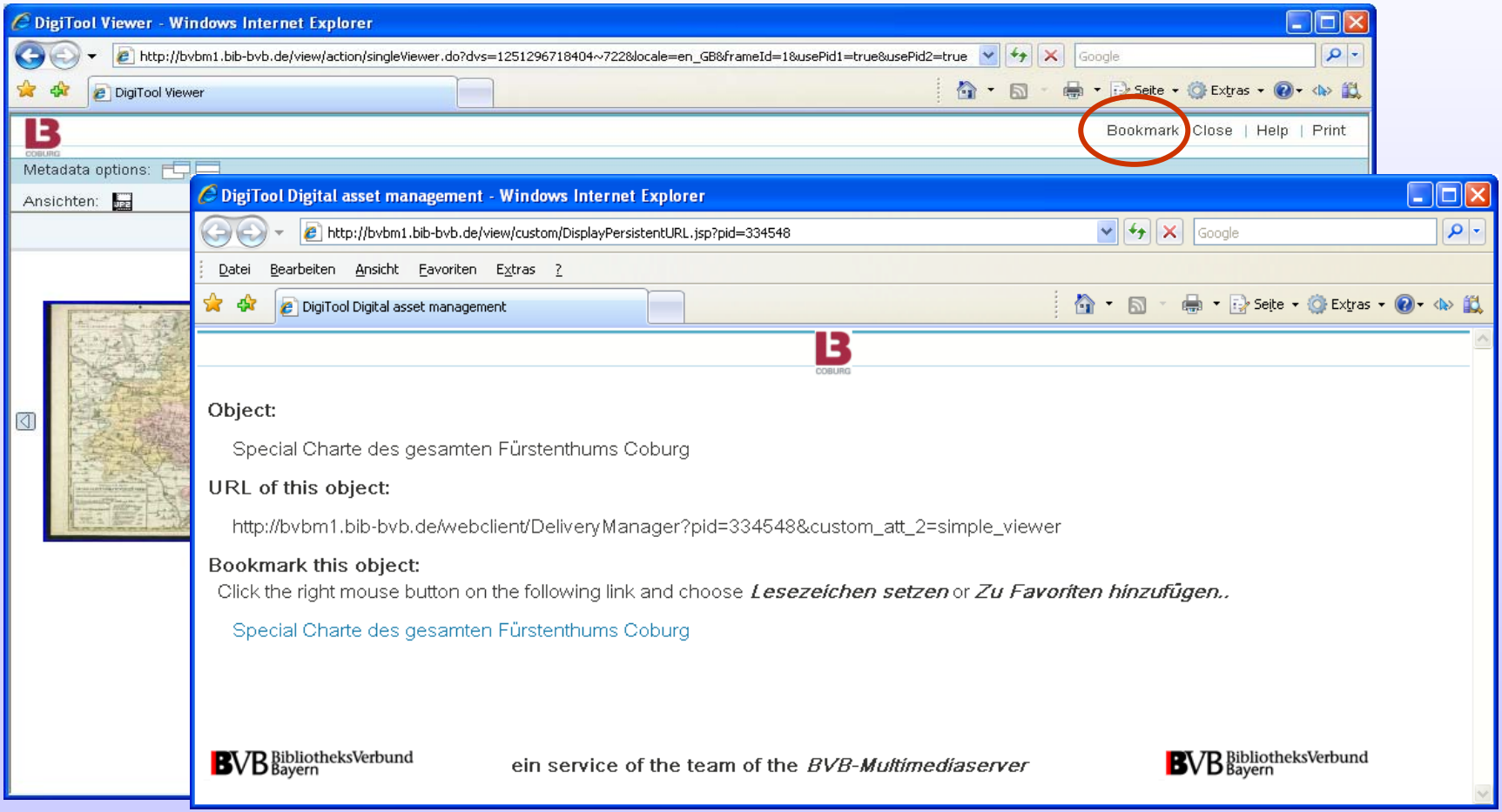


Bookmark?

The very next day ...



Solution: offer to bookmark the object in the menu



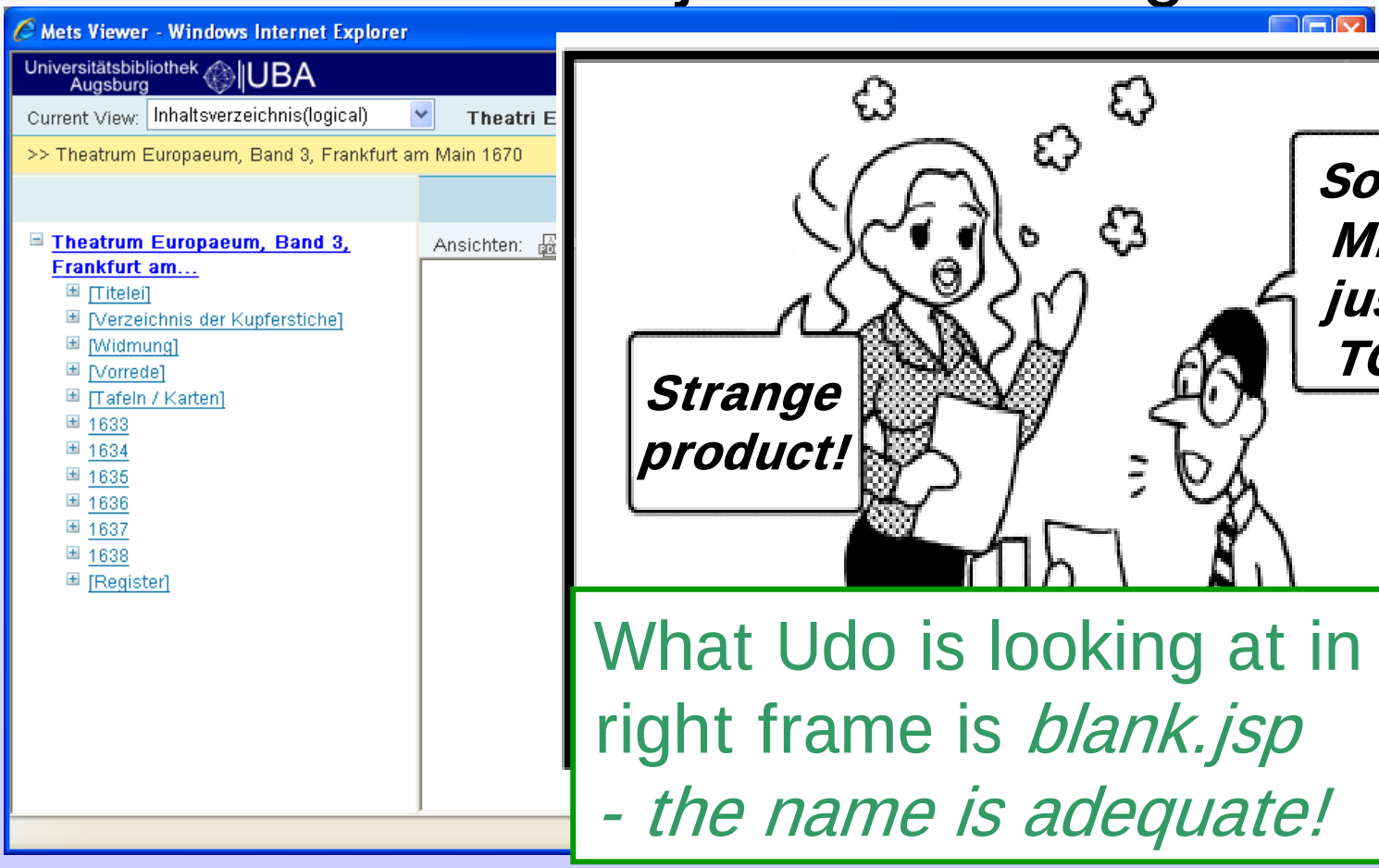
BVB BibliotheksVerbund Bayern

Increasing Acceptance III

As I see, I see nothing

No display?

Udo calls a METS-Object containing PDFs



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

No display?

Problem

- Local Acrobat settings are responsible where PDF is shown
  inside viewer / outside viewer
- Very unconvenient e.g. for METS objects with one PDF per page

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

No display?

Solution

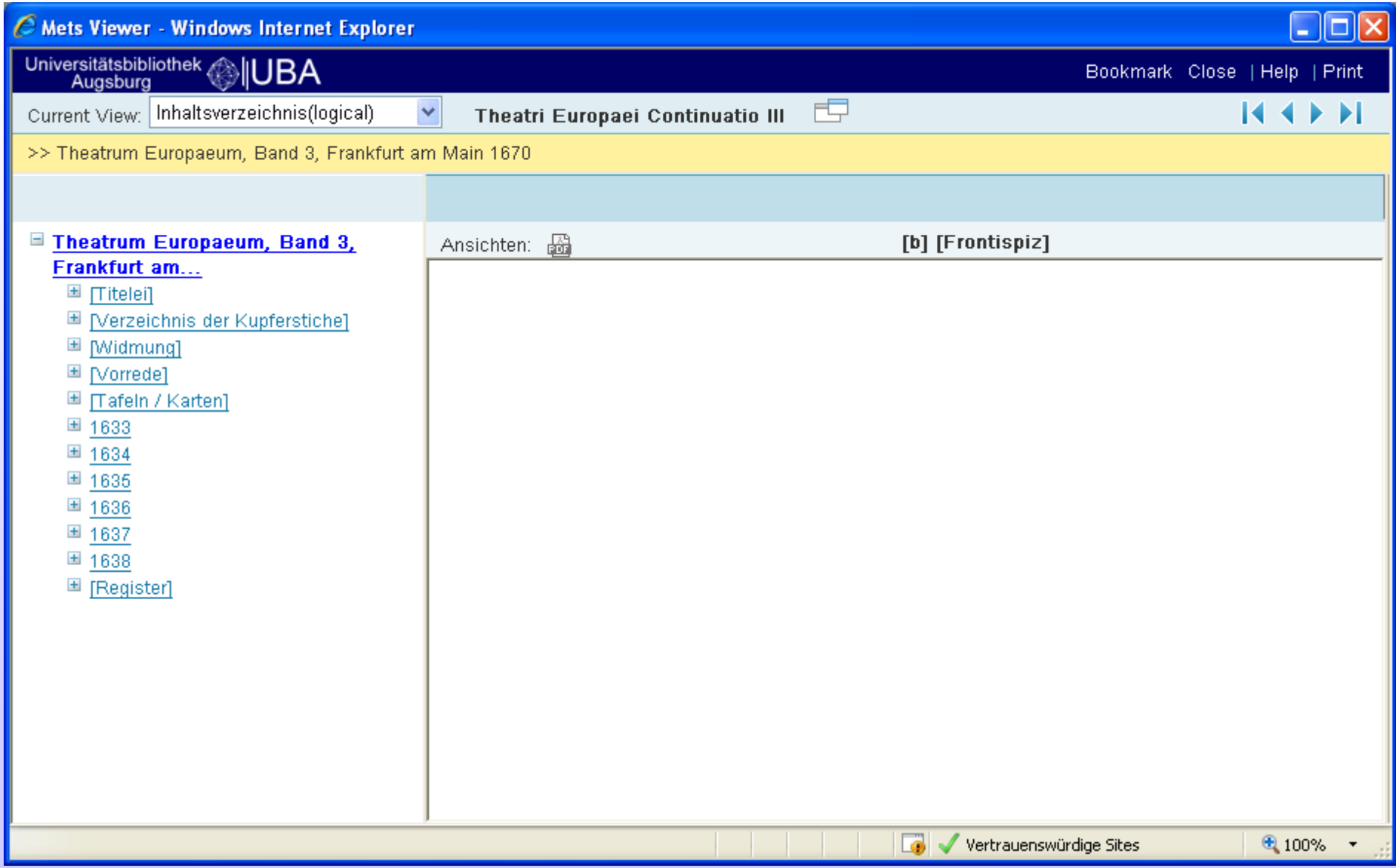
Modify blank.jsp

javascript: after 5 sec display explanation

java: language support

BVB BibliotheksVerbund Bayern

No display?

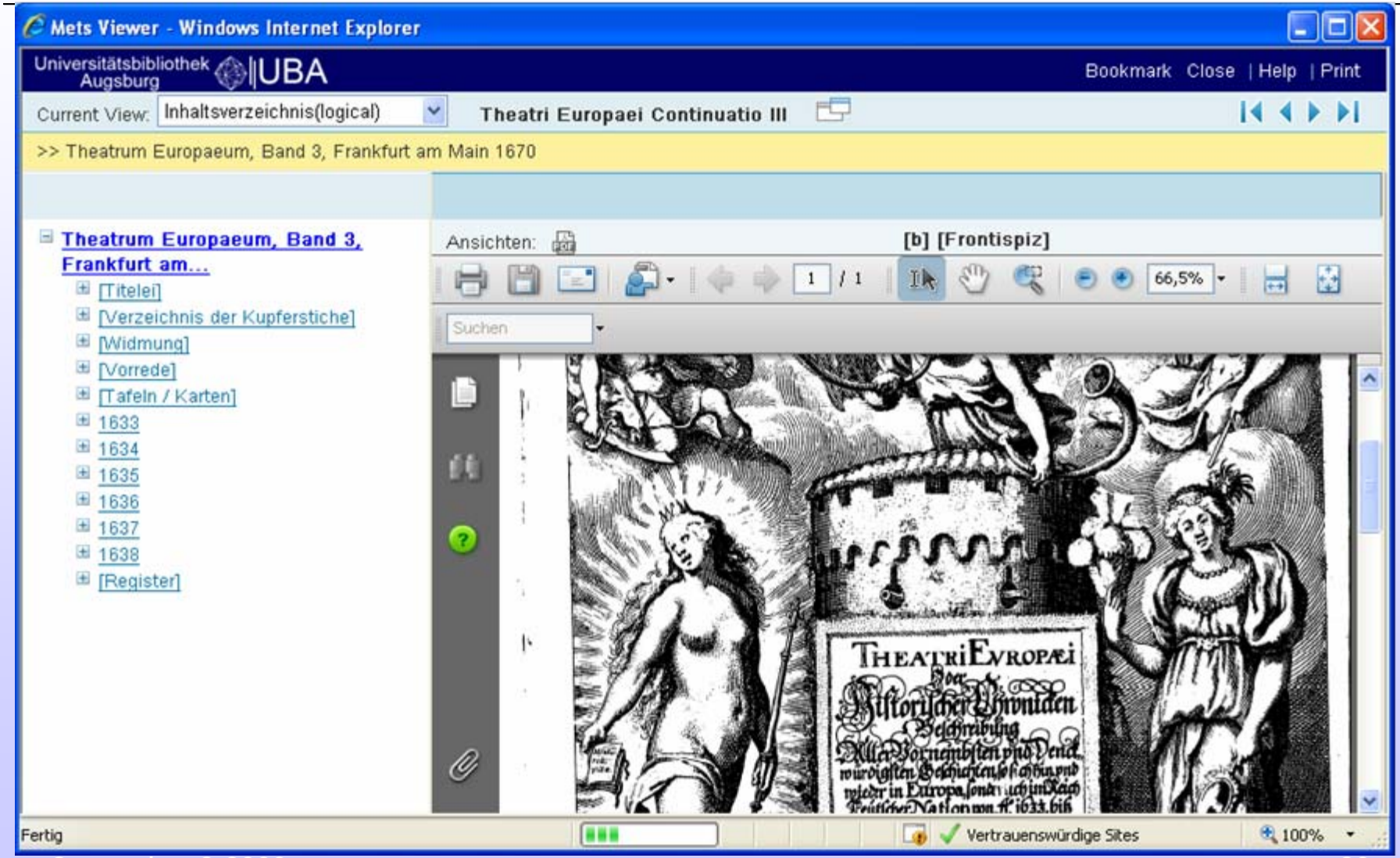


BVB BibliotheksVerbund Bayern

Display!

BVB BibliotheksVerbund Bayern

Display!



BVB BibliotheksVerbund Bayern

Support librarians
AND
protect ourselves from trouble

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

BVB BibliotheksVerbund Bayern

BVB BibliotheksVerbund Bayern

Repository | Delivery | Deposit | Common | Maintenance | R

Submit a new job | Jobs List | Monitor

timediapool

yerischer Multimediapool

1 2 3 4

Job population: Delete Digital Entities

Admin Unit: BAY01

Find: All contains + Add Condition Search

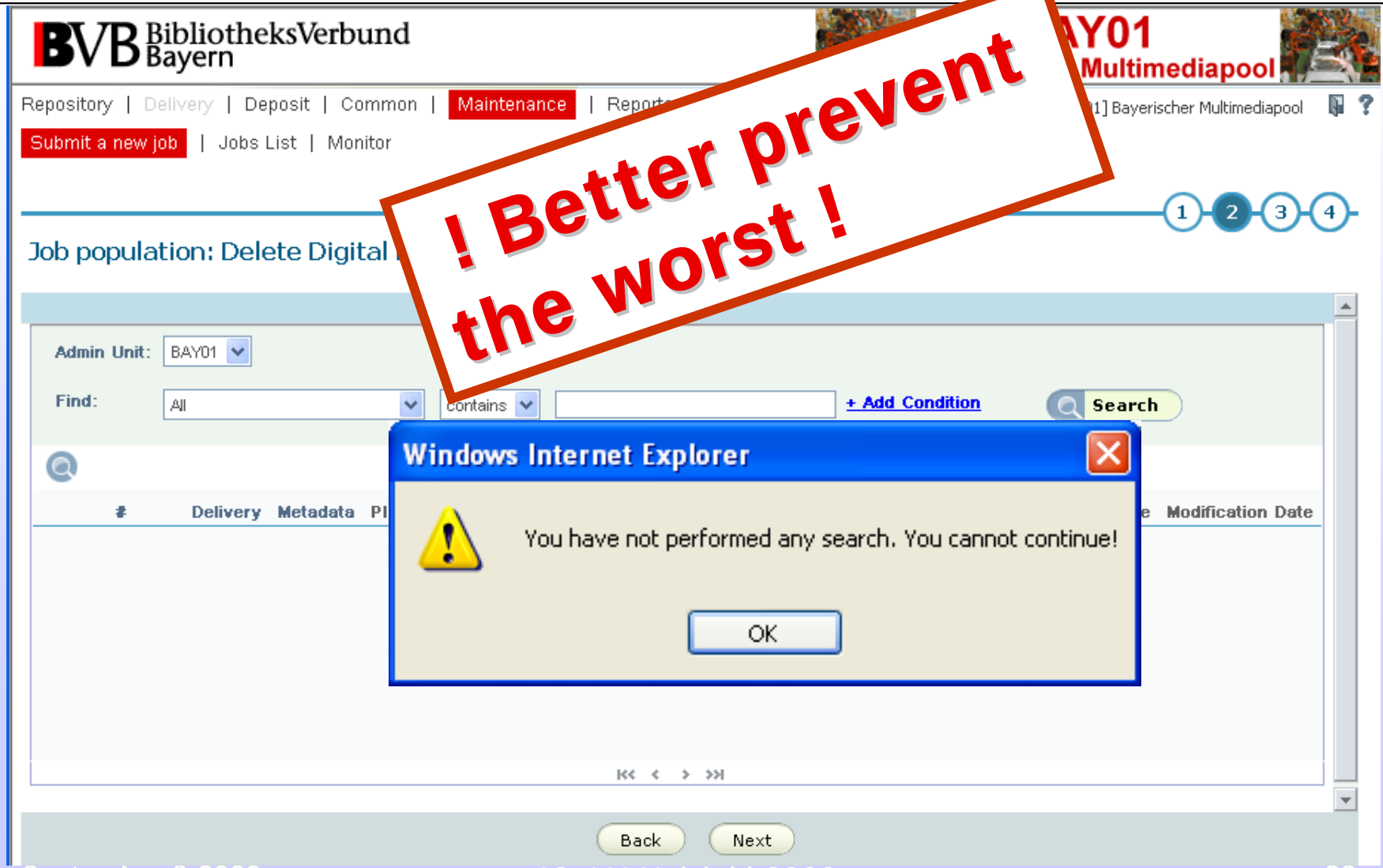
Windows Internet Explorer

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

OK Abbrechen

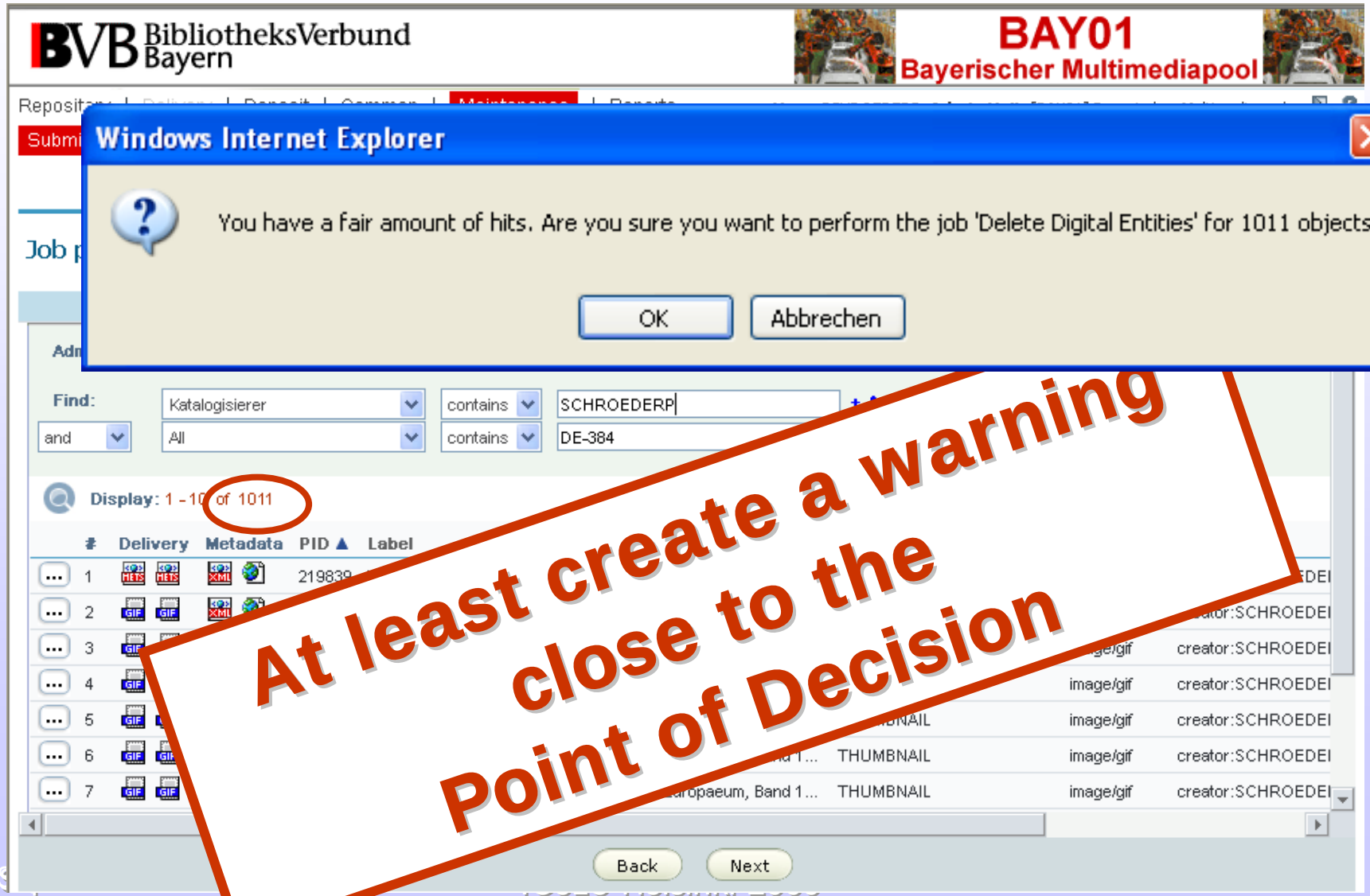
Mime Type Created By

! Easiest way to kill your repository !



! Better prevent the worst !

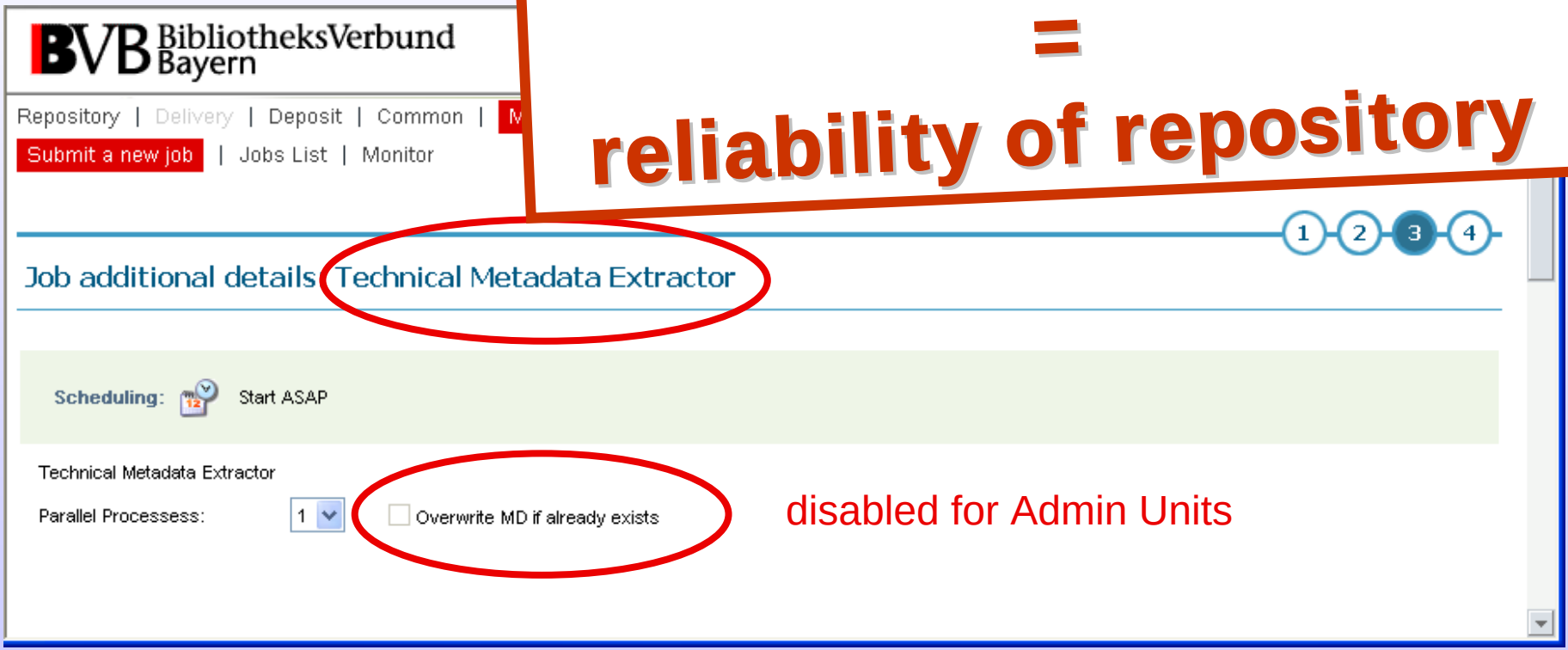
BVB BibliotheksVerbund Bayern



BVB BibliotheksVerbund Bayern

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/TIF/JPEG

Extending Viewers 1

Problem

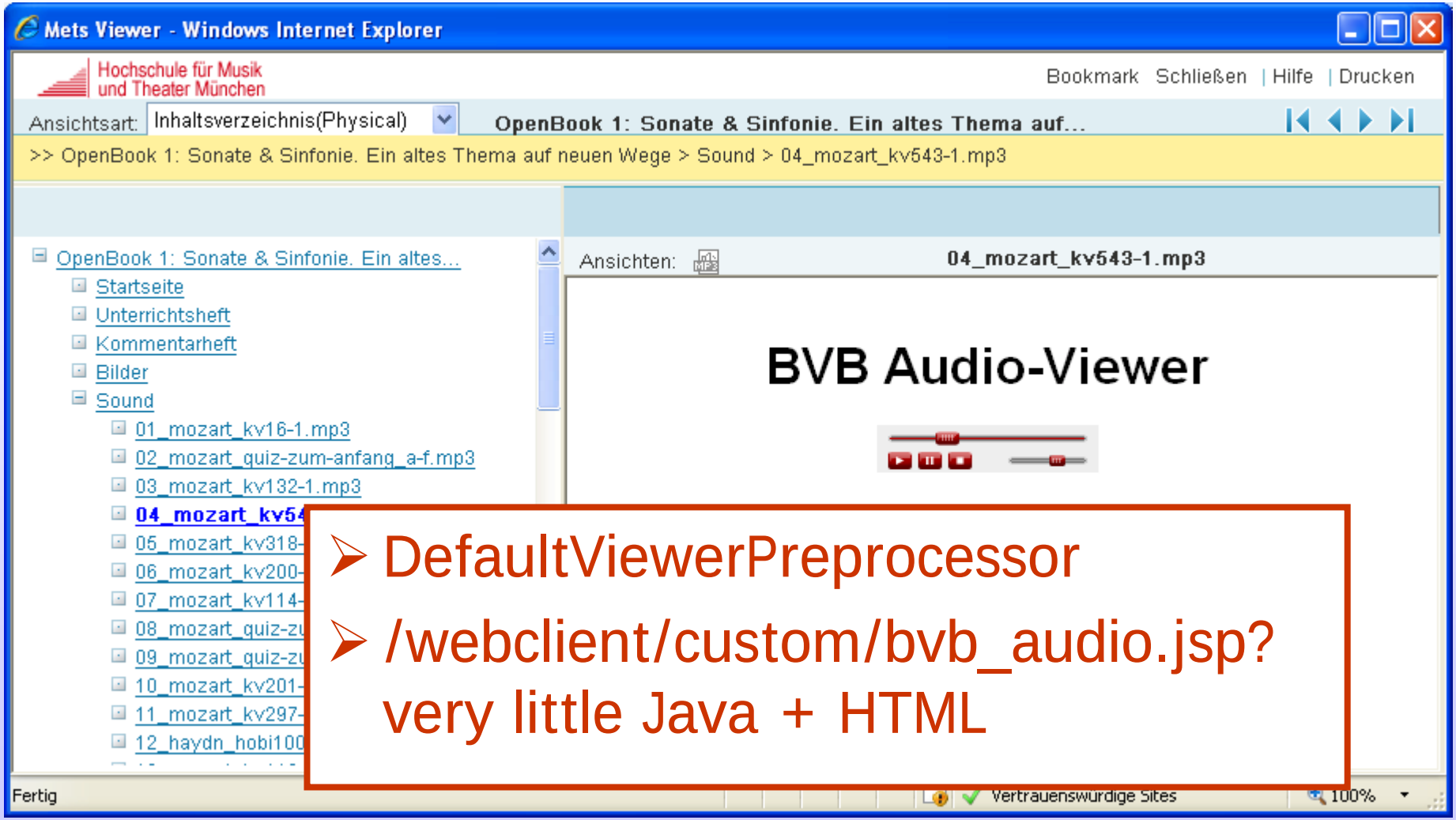
Libraries want MP3 to be displayed within the single viewer

Idea

Adobe Shockwave Player most wide-spread Plugin for this purpose;
from *sourceforge.net* you can get *Easy Musicplayer For Flash (* EMFF).

BVB BibliotheksVerbund Bayern

Extending Viewers 1



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

BVB BibliotheksVerbund Bayern

Extending Viewers

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

BVB BibliotheksVerbund Bayern

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 repositiory
- 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

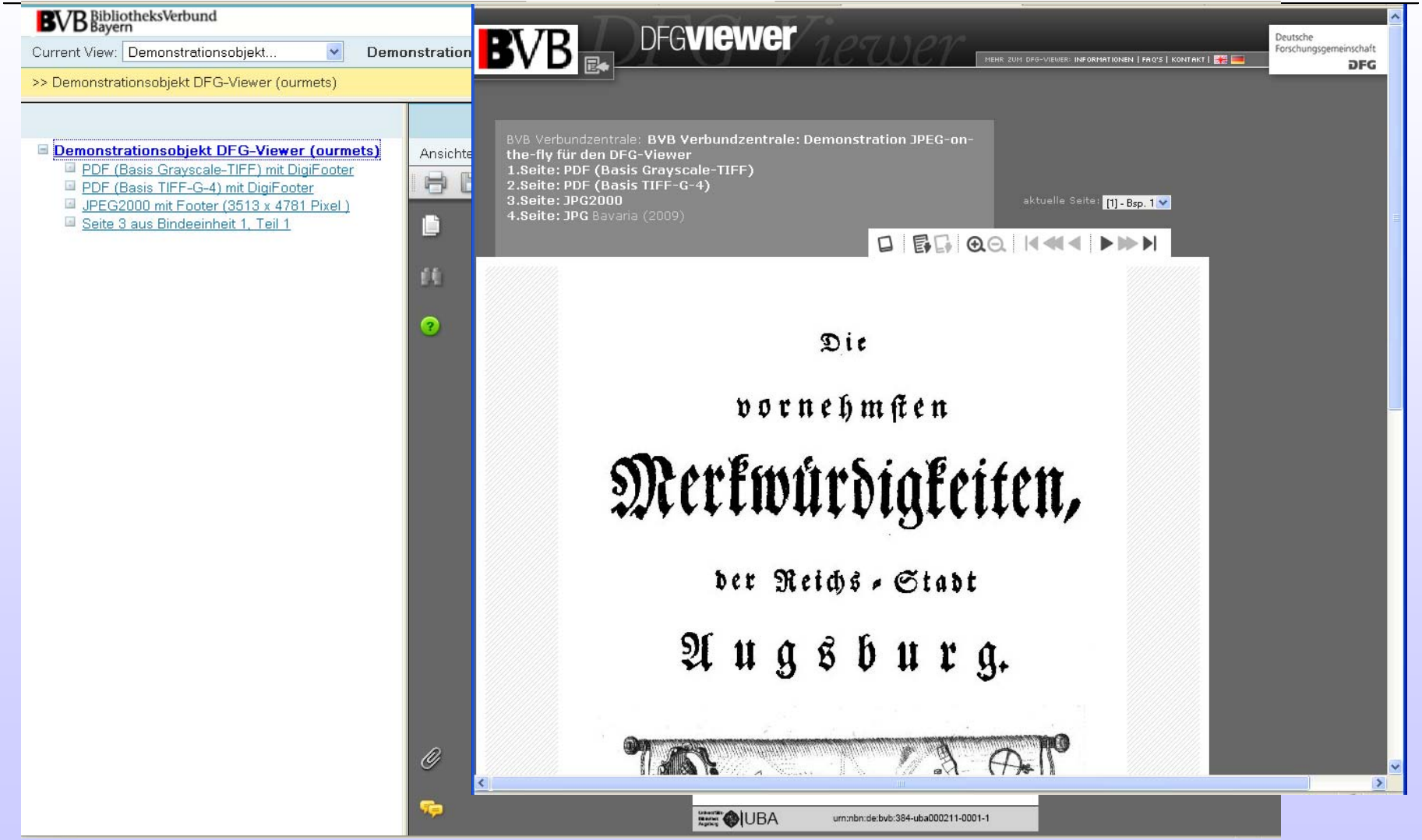
- Creation by CGI
  Perl / Imagemagick‘s convert
- VPP TextCGIViewerPreProcessor
  why? 1 Parameter can be passed, fileext is passed
- Delivery to DTL‘s Jmagic-Folder – caching possible
- Parameters passed to DeliveryManager:

?pid=<pid>&custom_att_1=directstream&search_terms=<resolution>

The only parameter passed by TextCGIViewerPreprocessor

BVB BibliotheksVerbund Bayern

JPEG stream from PDF



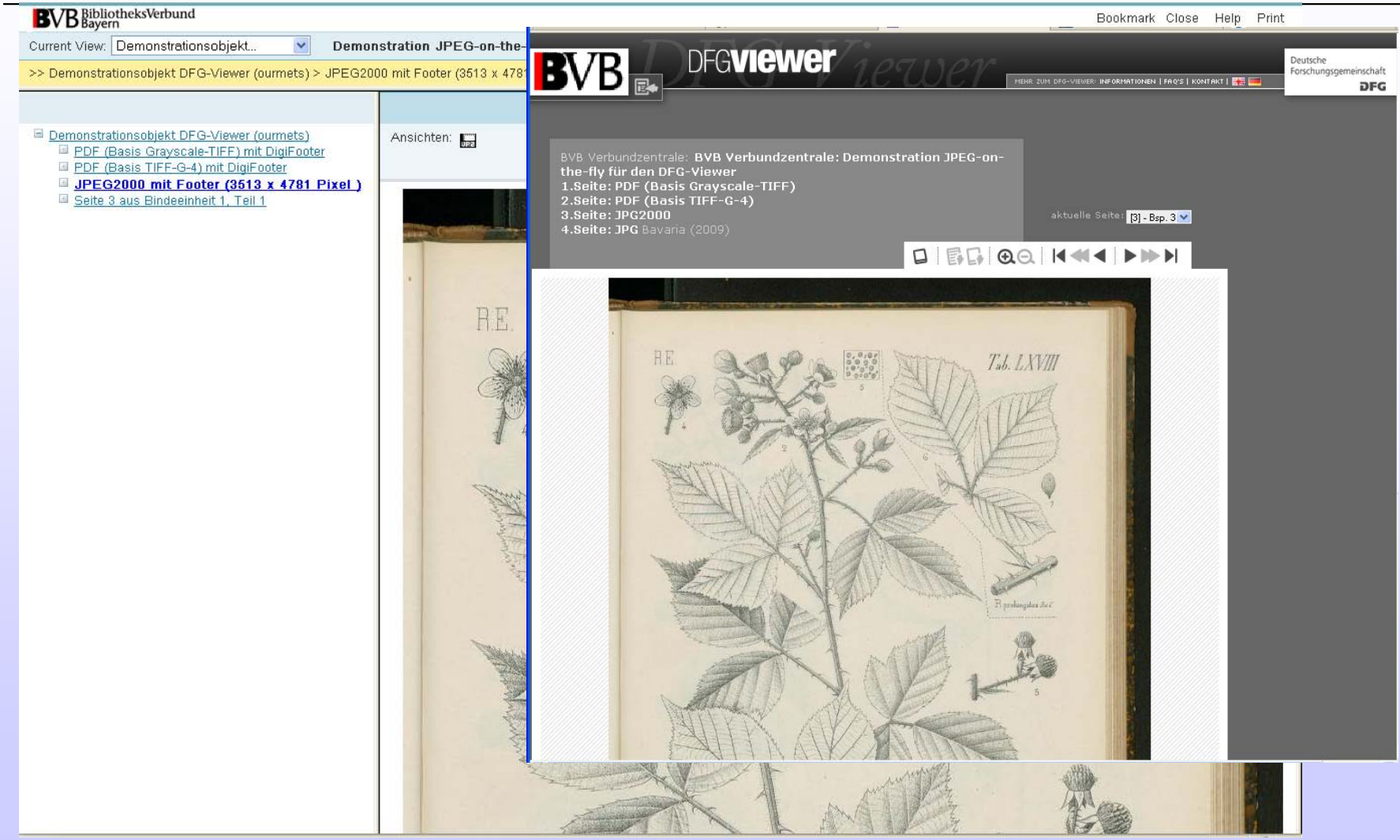
Create JPEG Stream from JPEG2000

- 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

BVB BibliotheksVerbund Bayern

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