



Bibliothèque nationale de Luxembourg

Enhancing Digitool with a new METS/ALTO viewer

Ghent 1.9.2010

## [www.eluxemburgensia.lu](http://www.eluxemburgensia.lu)

- **Historic Newspapers**
  - 120 000 pages digitized, more will follow
- **Data format : METS**
  - Container format for TIFF, ALTO, PDF of pages
  - Layout information of articles, used to build a table of contents
- **Data format : ALTO**
  - OCR of full text
  - Coordinates of individual words

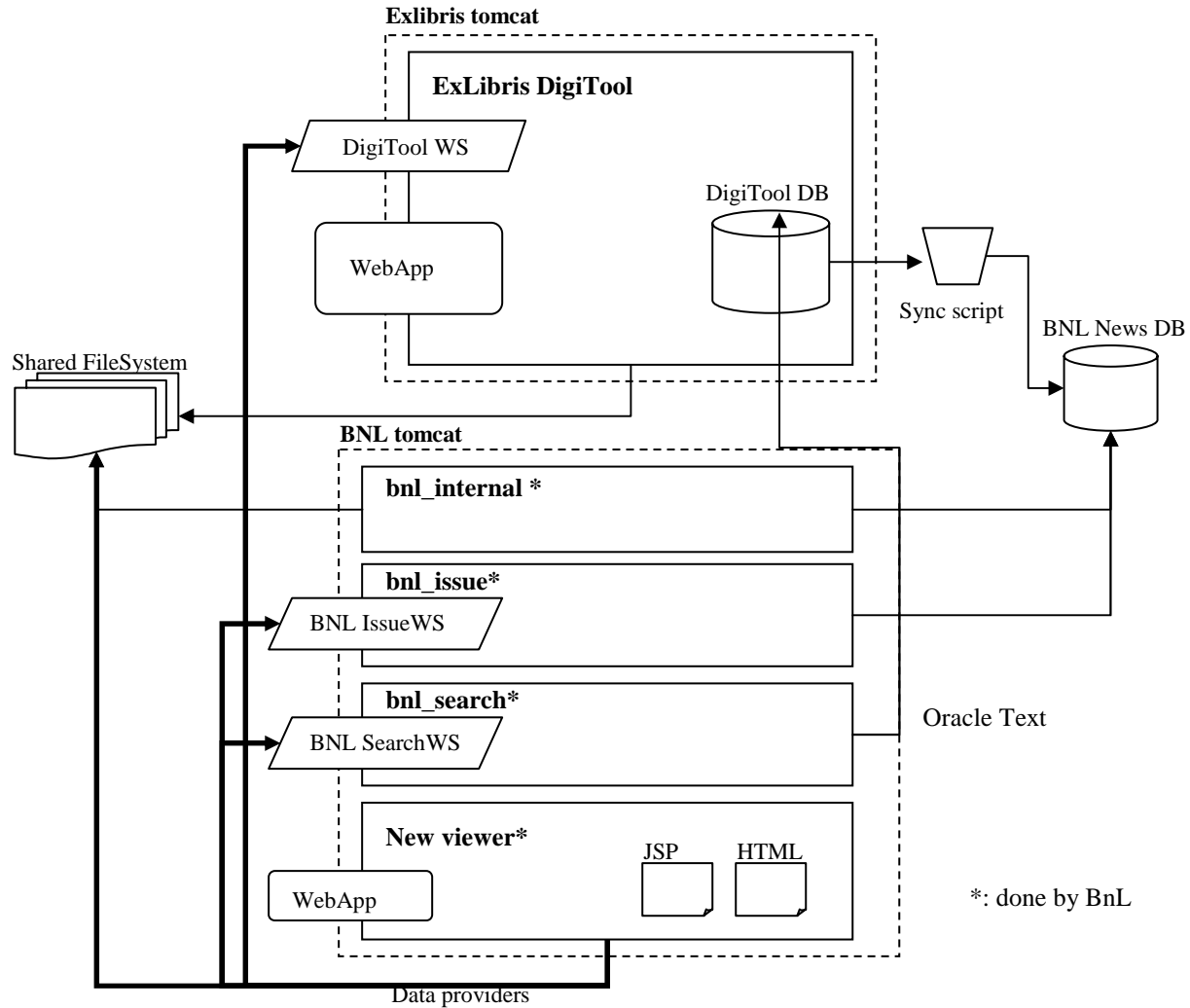
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- **Went live in May 2009**
  - With Digitool's out of the box METS/ALTO viewer
  - Since then: feedback of users about shortcomings

- **From user feedback**
  - More intuitive interface needed!
  - Make navigation as easy as on comparable Internet sites
  - Need translation into French + German
  - Table of contents + navigation by page at the same time
  - Directly jump to a certain page
- **Ideas from library staff**
  - Direct link to page / article
  - Zoom / drag using the mouse
  - Navigation between issues
  - Keyboard shortcuts for reading articles
- **Additional ideas during development**
  - On-the-fly translation of OCR text

**Live demo of viewer**

**<http://www.eluxemburgensia.lu>**

- **Development by National Library**
  - 7 months, 1 programmer from project start to finish
  - Java, Javascript, ExtJS, C++, Oracle
- **Analysis phase**
  - Choice to use Digtol Webservices
  - Integration into Digtol viewer architecture
  - Need to develop own search (oracle text + alto parser)
  - Difficulty passing additional parameters to viewer
- **Programming phase**
  - Server side caching (images, structural data)
  - 6 different webservices (search, issue, article, page, calendar, toc)
  - 2 local C++ programs (search, image conversion)



- **Will be released under open source license**
  - At the end of October probably
  
- **Downloadable on EI Commons**
  
- **Future enhancements:**
  - Display license status for each object
  - Support for mobile devices (iPad etc.)
  - Adaptation to display digitized books

**Questions?**



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**[Yves.maurer@bni.etat.lu](mailto:Yves.maurer@bni.etat.lu)**