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Federal Department of Home Affairs FDHA
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Swiss National Library SNL

Access to e-Helvetica

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Requirements

- Integration of all type of digital material
- Web based user interface
 - Layout predefined through the government
 - Adaptation for the needs of disabled people
- Detailed and scalable access management
- Multilingualism (German, French, Italian, English)
- Simple full text search
- Advanced full text search in combination with metadata filtering

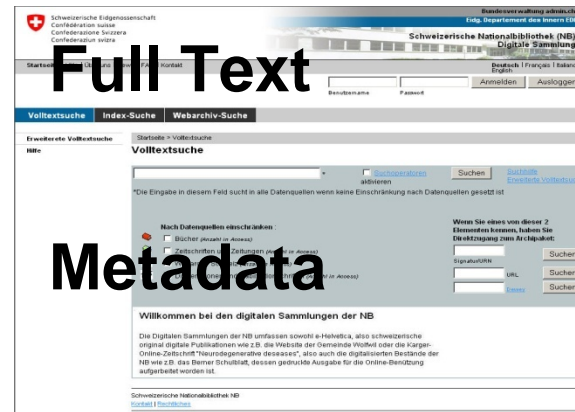


Requirements

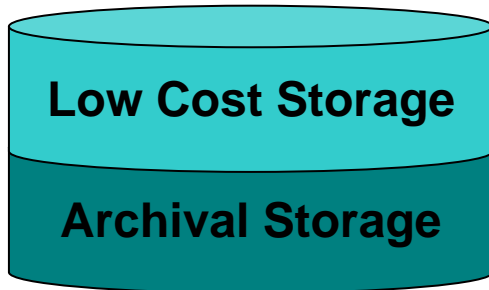
- Wayback Machine as viewer for websites
- Existing environment (metadata structure, database, storage, AIP structure)



Use Case

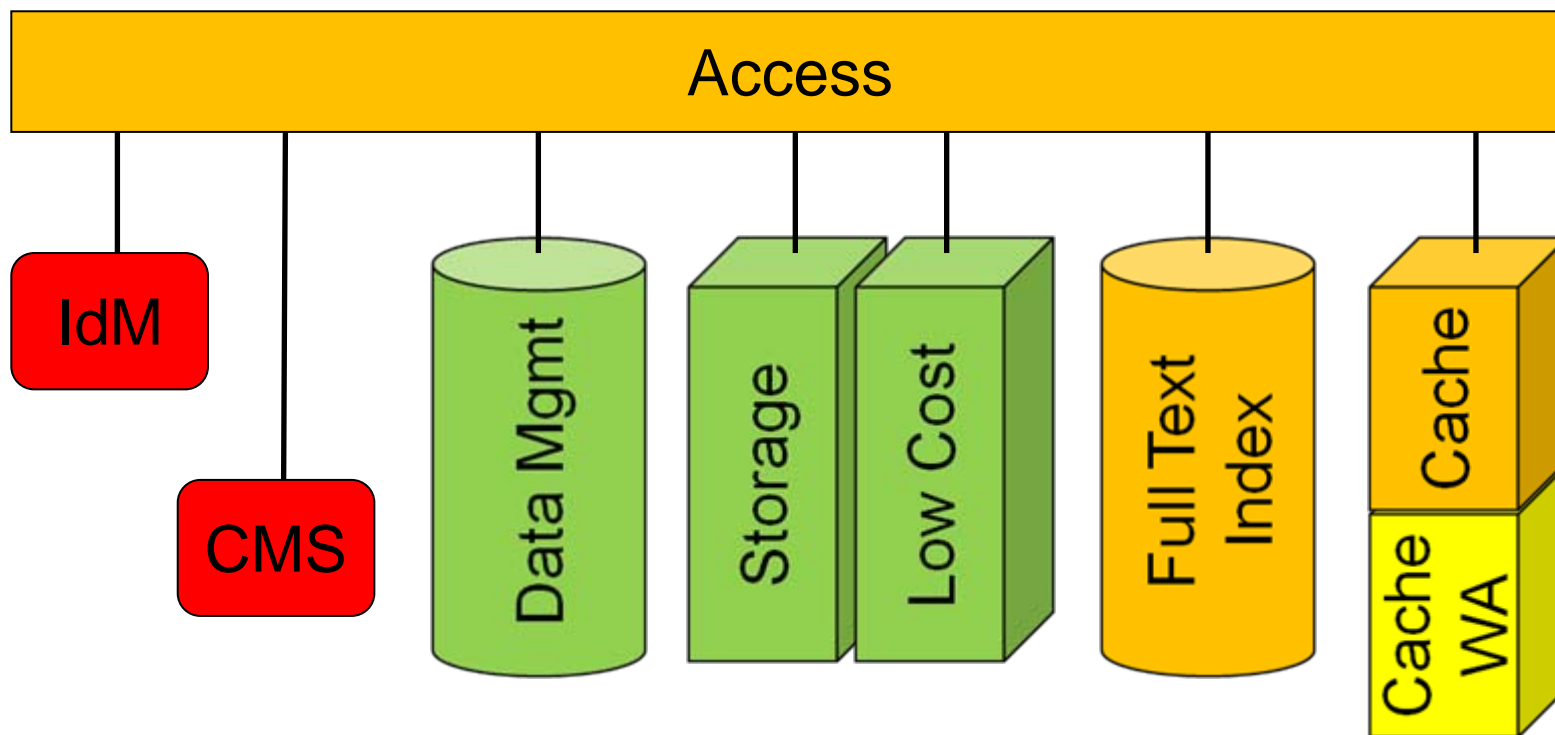


Check
Access Rights





Architecture





Solutions: Development

- Development through Office of Information Technology, Systems and Telecommunication (part of the Swiss administration)
- Technology
 - Java
 - ICEfaces
 - Oracle Weblogic Server
 - Oracle database
 - Solr/Lucene
 - Linux (Suse Linux Enterprise)

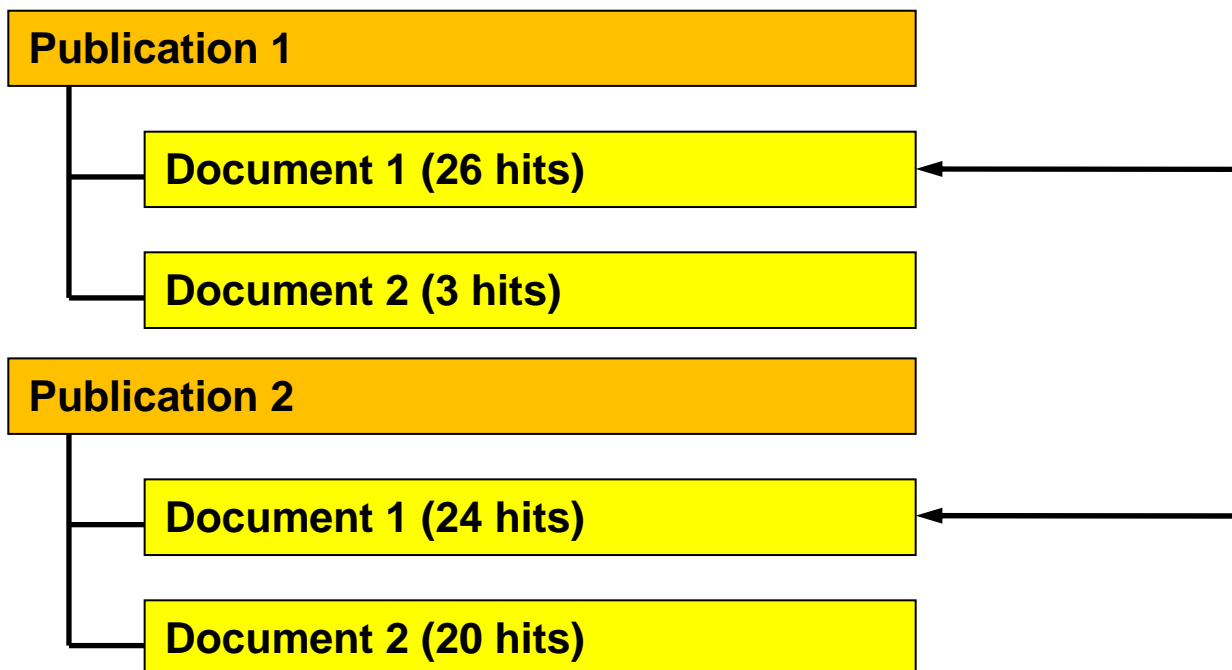


Solutions: Full Text Indexation

- Multilingualism = Challenge
 - Language of a document should be known before full text indexation starts
 - Default language for multilingual documents
- Hit list with two levels
 - First level: Publication
 - Second level: Documents with hits



Solutions: Full Text Indexation





Solutions: Full Text Indexation

- Parameterisation
 - Example: compound expressions

Hausbau -> haus | aus | bau

Other occurrences: Ausbau, Bauhaus



Solutions: Metadata

- Bibliographic metadata
- Access information
- Size of the documents (download)
- Facets (publication place, publication type, language, publication year)



Solutions: Access Rights

- Central identity management system (first step to single sign on)
- Users -> Roles → Access Rights
- Info stations with a cookie for more rights
 - Reading room SNL
 - Reading rooms in partner libraries
 - Abuse of the cookie is registered
- Web Archive as a whole is accessible or not



Conclusion

- Access as a mix of existing tools (Wayback Machine, Solr/Lucene, IdM) and new development (user interface, administration of the access rights)
- Access is part of the quality assurance
- Strengths:
 - Web archive integrated in the general digital collection
 - Full text indexing in of the whole collection in combination with filtering based on metadata
 - Access management
- Link to e-Helvetica: <http://www.e-helvetica.nb.admin.ch>