

CONNECT, EMBED, INTEGRATE

LIBREOFFICE AS A BUILDING
BLOCK FOR YOUR SYSTEMS



CIB: SOLUTIONS FOR YOUR CHALLENGES



Our strength – developing document lifecycle and correspondence management solutions that integrate with *your* computing landscape.

Our building blocks:

- > **Generating and processing PDFs**
- > **Generate and process invoices the smart way**
- > **Operate LibreOffice professionally**
- > **Exchange data safely and securely**



Mobile



Security



Cloud



Open Source

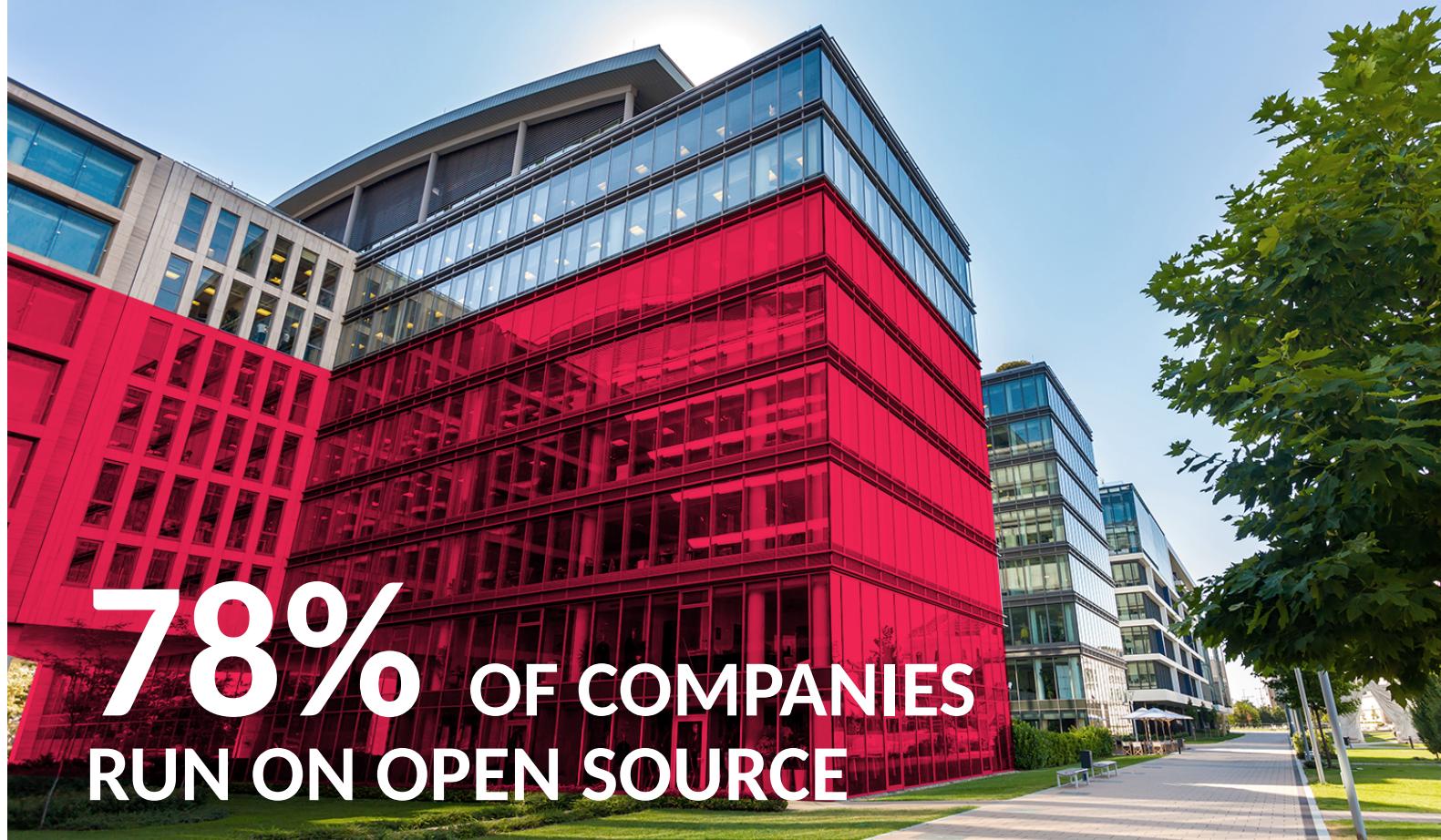


Big Data

FUTURE OF OPEN SOURCE SURVEY 2015:



Cost, Control, Time to Market & Quality



**78% OF COMPANIES
RUN ON OPEN SOURCE**

LESS THAN 3%
DON'T USE OSS IN ANY WAY

The Swiss Army Knife Metaphor



LIBREOFFICE PROGRAMMABILITY



QUESTIONS? WE'VE ANSWERS

[HTTP://LIBREOFFICE.CIB.DE/SUPPORT](http://libreoffice.cib.de/support)

LibreOffice Eclipse Plugin

- Work done during several GSoC periods by Cedric Bosdonnat (with contributions by Dan Corneanu, Oliver Specht, and Ludovic Smadja)
- Fixed & improved to work with LibreOffice by Samuel Mehrbrodt:
<https://smehrbrodt.wordpress.com/2016/01/08/libreoffice-and-eclipse-loeclipse-2-0-released/>
- Grab it here: <http://eclipse-plugins.libreoffice.org/>

LibreOffice Eclipse Plugin: Selling points

- Wizard-based extension development
- Streamlined deployment & debugging experience:
 - Deploy on press of a button, optionally into separate userdir
 - Debugging deployed extensions from inside Eclipse IDE

– DEMO –

LibreOffice Eclipse Plugin: Demo



NOA-Libre: Nice Access to Office API

- high level functions for common stuff
- Done by IOn AG, originally:
<http://ubion.ion.ag/solutions/004niceofficeaccess>
- LibreOffice version here:
<https://github.com/LibreOffice/noa-libre>



NOA-Libre: Nice Access to Office API

- lightweight UNO wrapper API for many UNO interfaces
- access to underlying UNO interfaces from wrapper objects
- Now able to use in-tree Office jars, and build against maven
- Used in production for a large OSGI-Plugin based Rich-Client Java application
- Used by e.g. by [Gnuaccounting](#), and [Thera-Pi](#)
- Here's an example:
<https://github.com/LibreOffice/noa-libre/blob/master/examples/calc/Snippet15.java>

JEXO: Java Extension Helper

- Developed by Benjamin Sponring, now at BRZ
- Available here: <http://sourceforge.net/projects/jexo/>
- Same thrust as for NOA – simplify Office API usage
- But targetted at extensions vs. embedding



Further resources

- Maven LibreOffice repo:
<http://repo1.maven.org/maven2/org/libreoffice/>
- Cedric's LOEclipse Tips & Tricks:
<http://bosdonnat.fr/tag/ooeclipse.html>
- Dmitri Popov tutorial: <http://www.linuxjournal.com/article/9412>
- LibreOffice extensions:
https://wiki.documentfoundation.org/Development/Extension_Development
- OOo ecosystem links:
 - https://wiki.openoffice.org/wiki/Extensions_development
 - <https://wiki.openoffice.org/wiki/JavaEclipseTuto>
 - And of course the Developer Guide as the ultimate compendium:
https://wiki.openoffice.org/wiki/Documentation/DevGuide/OpenOffice.org_Developers_Guide

Outlook / further work

- More statically-typed UNO API / wrappers for better IDE support
- Training materials – videos, more examples, one-stop shop for non-core developers to go to
- StarBasic – is there value in improving the developer experience, e.g. external IDE support

LIBREOFFICE INTEGRATION EXAMPLES



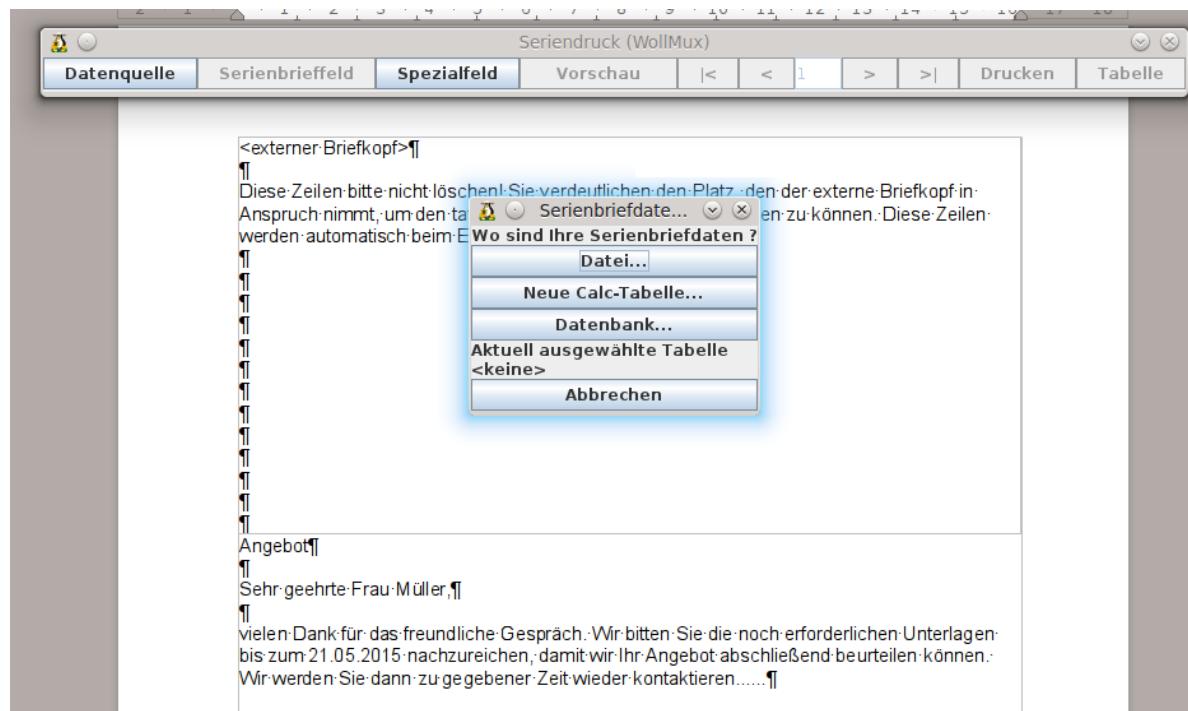
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WOLLMUX – LIBREOFFICE TEMPLATES & MAIL MERGE EXTENSION



- > WollMux - <https://github.com/WollMux/WollMux>
 - Template- and letterhead management
 - Java-based LibreOffice-Extension
 - Screenshots:

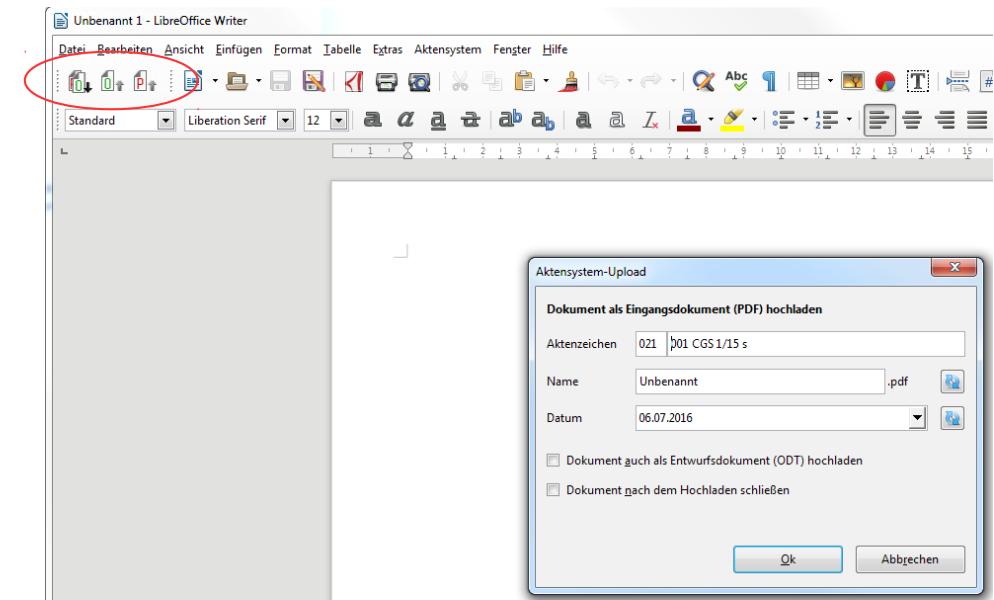
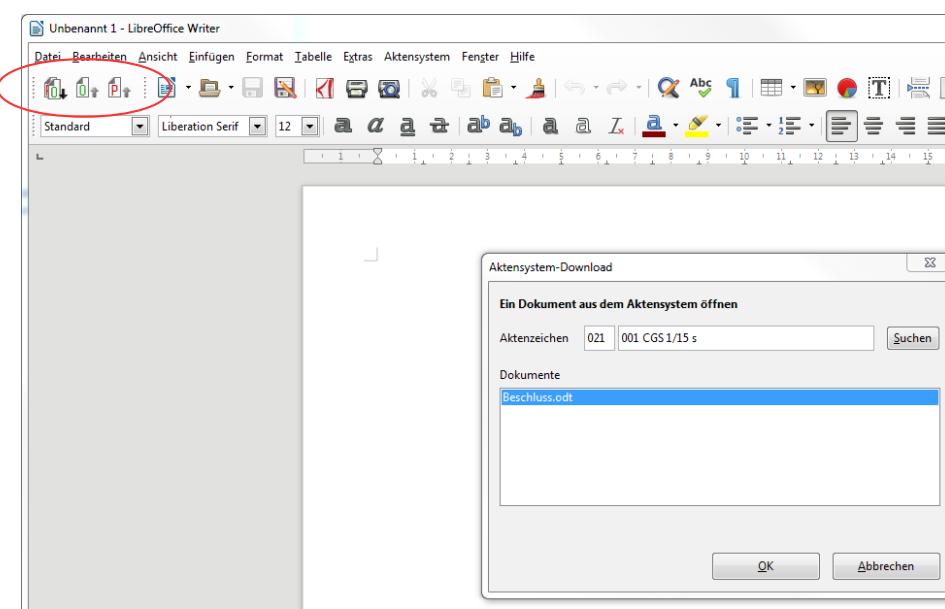


WollMux-Manual
Seriendruck

LIBREOFFICE – CONNECTING TO INTERNAL DMS



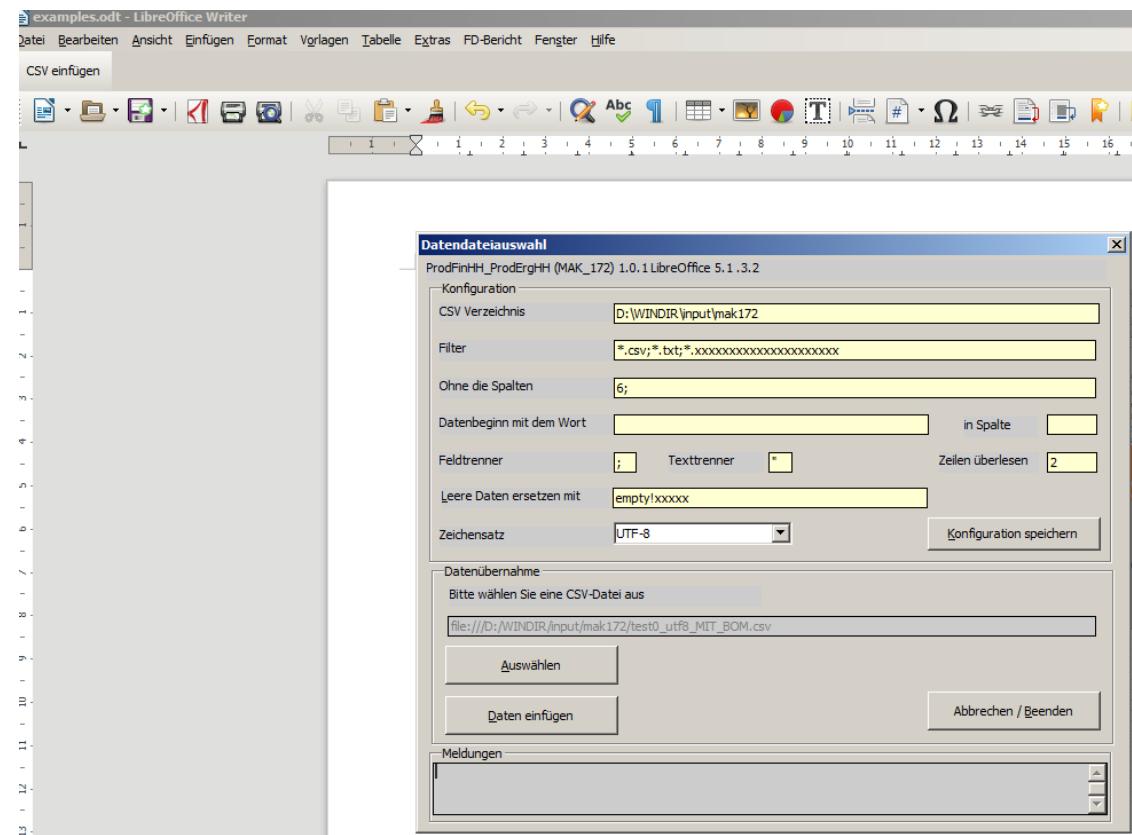
- > OfficeAktensystem
 - Connects to internal DMS
 - Round-trips metadata, plus some amount of custom UI inside LibreOffice
 - Java-based LibreOffice extension



LIBREOFFICE – MACRO-AUTOMATION



- > Macro solutions
 - Automate routine tasks
 - Have own custom UI
 - Example: insert data via CSV into Writer documents



THANK YOU!



OUR PRODUCTS:

[HTTP://LIBREOFFICE.CIB.DE/](http://libreoffice.cib.de/)

WE CAN HELP:

[HTTP://LIBREOFFICE.CIB.DE/SUPPORT](http://libreoffice.cib.de/support)

