
VALIDATE ME! SAFEGUARDING STANDARDS-CONFORMANCE FOR LIBREOFFICE

CIB SOFTWARE GMBH
LIBREOFFICE CONFERENCE BRNO
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THE STORY BEHIND



- > Moggi added ODF and OOXML validation in March 2014 to our unit test infrastructure
- > And also for the crashtesting setup – see <https://mmohrhard.wordpress.com/2014/03/24/update-about-our-importexport-crash-testing/>
- > The ESC subsequently decided to fund making this even better in 2015:
<https://blog.documentfoundation.org/blog/2015/12/16/tender-to-implement-improved-format-validity-checks-201512-07/>
- > With CIB's Vasily Melenchuk starting to implement in June





The Goals

- make export validation the default for ~all formats
 - improve developer experience
 - improve ODF TC and libreoffice development cooperation
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Make export validation the default

- ODF
- OOXML
- MS binary

Improve developer experience

- no extra steps during setup
- better error reporting
- instant feedback for format problems
- true bisectability



Improve ODF TC and LibreOffice dev cooperation



- what's the set of ODF extensions?
 - easy TC upstreaming of format changes
 - provide most recent schemas to libreoffice developers
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Setup

- `./autogen.sh && make`
- hah! :)



Setup (for BFFValidator)

- **install wine**
 - `apt-get install wine`
 - `zypper in wine`
 - `yum install -y wine`
 - `wget https://www.microsoft.com/en-in/download/details.aspx?id=26794`
 - `wine BFFValidator-x86.exe /extract:..`
 - `msiexec /i bffvalidator.msi /qn`
 - **program then ends up in** `drive_c/Program\ Files ...`
 - **run configure via:** `--with-bffvalidator=~/.wine/drive_c/Program\ Files\
(x86\)/Microsoft\
Office/BFFValidator/BFFValidator`
 - **chart and writer binary export validation unfortunately is disabled**
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Current status

- export validation enabled by default
 - both odf as well as ooxml-validator integrated;
downloaded from dev-www.libreoffice.org
 - baseline requirements cleaned up & consolidated to be
>= 1.6
 - better error reporting added
 - odf toolkit project forked, for ~immediate turnaround
 - OOXML error reporting improvements are still
outstanding
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Demo



Further work & ideas

- integrate with crash test
 - various tightening up, e.g. strict validation
 - even better debuggability - [binschema](#)
 - use RNG include feature to overload schema files
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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)

