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
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
Setup

- ./autogen.sh && make
- hah!:)
Setup (for BFFValidator)

- install wine
  - apt-get install wine
  - zypper in wine
  - yum install -y wine
- 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
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
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
THANK YOU!

OUR PRODUCTS:

HTTP://LIBREOFFICE.CIB.DE/

WE CAN HELP:

HTTP://LIBREOFFICE.CIB.DE/SUPPORT