Collabora

Testing import and export filters

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Exitisting test concepts

CVE tests (Caolan)

- Make sure we don't regress

- Put file in directory and import
  - pass
  - fail
  - indeterminate

- If fails it is most likely your virus scanner

Import tests

- Simple file stored in our source tree

- loadComponentFromURL or direct call

- old, stable, base of our filter testing framework

Event Name | Your Name

Export tests

- Newer

- Different concepts
  - Import → Export → Import
  - Import → Export → XPath

Event Name | Your Name

Code analyzers

Tools (not limited to filters code)

- Cppcheck

- Coverity

- Memcheck

Event Name | Your Name

Crash testing script

Concept

- Take as many documents as possible
- Import, export and validate
- Log crashes
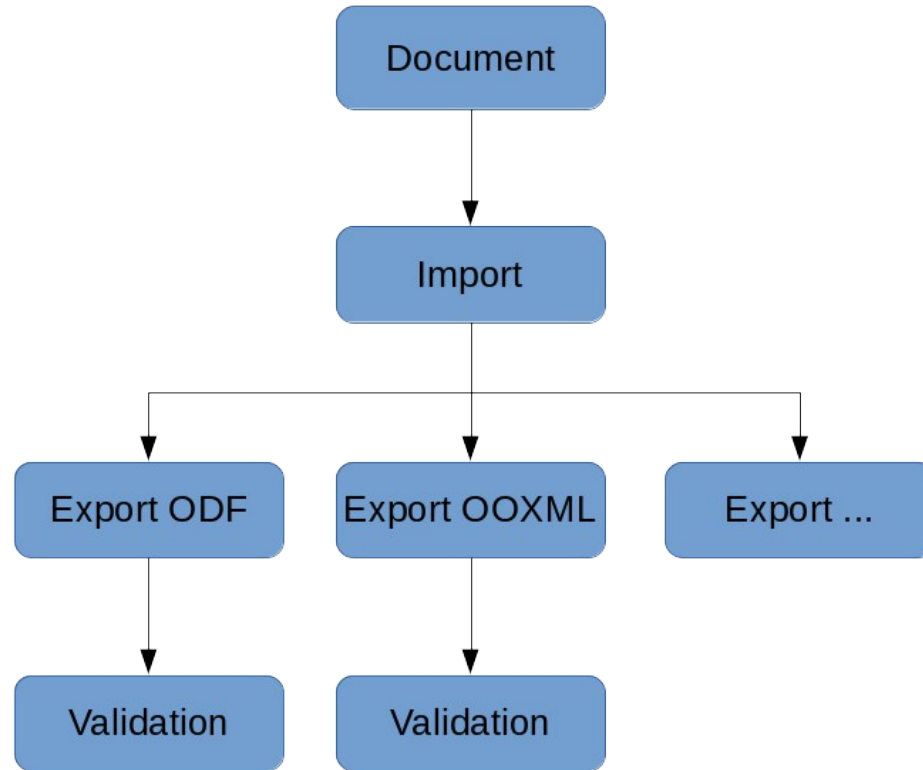- Log validation errors

First implementation

- Calc only

- Part of our unit testing framework

  - Similar to CVE tests

- A lot of manual work

- About 1 week for 5k documents

- Import only

New implementation

- Python script
  - uses pyuno
- Initial work by Joren as Easy Hack
- Now on an TDF server
- About 55k documents
- About 120k export documents
- Validate with ODF validator and officeotron

```
                    ┌──────────────┐
                    │   Document   │
                    └──────────────┘
                           │
                           ▼
                    ┌──────────────┐
                    │    Import    │
                    └──────────────┘
                           │
        ┌──────────────────┼──────────────────┐
        ▼                  ▼                  ▼
┌──────────────┐  ┌──────────────┐  ┌──────────────┐
│  Export ODF  │  │ Export OOXML │  │   Export ... │
└──────────────┘  └──────────────┘  └──────────────┘
        │                  │
        ▼                  ▼
┌──────────────┐  ┌──────────────┐
│  Validation  │  │  Validation  │
└──────────────┘  └──────────────┘
```

Todo

- Run memcheck on random sample

- Norbert working on partitioning for tinderboxes
  - Win, Mac, …

- Better reports
  - git

How to help?

- Write tests!! No bug fix without test

- Take a import/export crash and fix

- Take a validation error and fix

- Volunteer to implement one of my crazy python script ideas