# LibreOffice

## The Document Foundation

# LibreOffice configuration management

## tools, approaches & best practices

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# What, Why, How

- Customize LibreOffice – repeatably
- Makes your life easier, happier & more secure
  - Large-scale deployments
  - Improved user experience
  - Lockdown / policy / compliance
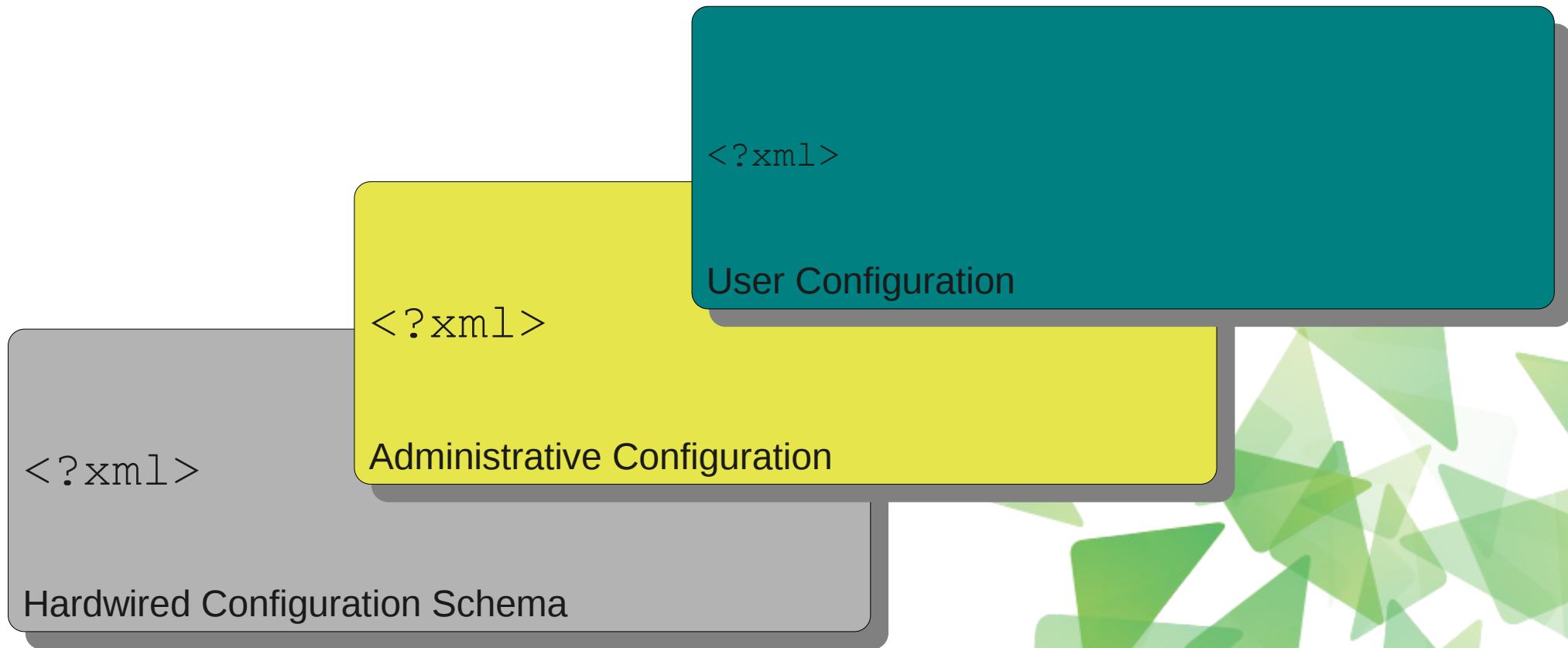- LibreOffice can do (most) of that out-of-the box!

# The LibreOffice config subsystem

# Architecture

`<?xml>`

User Configuration

`<?xml>`

Administrative Configuration

`<?xml>`
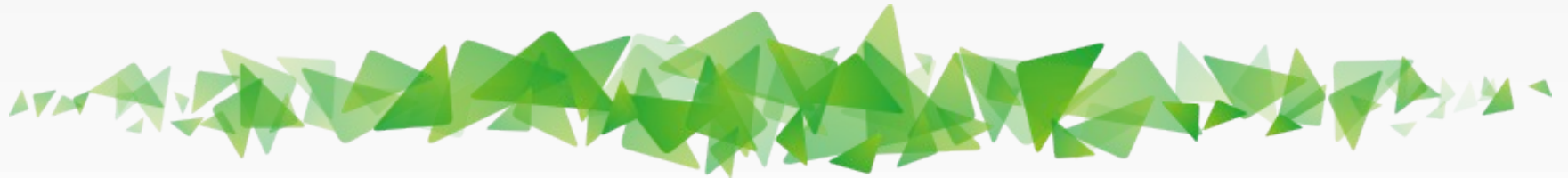
Hardwired Configuration Schema

# Schema Layer

```
<oor:component-schema>
 <group oor:name="MyGroup">
  <prop oor:name="MyItem" oor:type="xs:string">
   <value>A Sample</value>
  </prop>
 </group>
</oor:component-schema>
```

DTD Link

Hardwired Configuration Schema

# Admin Layer

```
<oor:component-data>
 <node oor:name="MyGroup">
  <prop oor:name="MyItem" oor:type="xs:string">
   <value>A Modified Sample</value>
  </prop>
 </node>
</oor:component-data>
```

In a read-only location for plain users, e.g.

```
/usr/lib64/libreoffice/basis3.5/share/registry/main.xcd
```

Administrative Configuration

# User Layer

```
<oor:component-data>
 <node oor:name="MyGroup">
  <prop oor:name="MyItem" oor:type="xs:string">
   <value>An even more modified Sample</value>
  </prop>
 </node>
</oor:component-data>
```
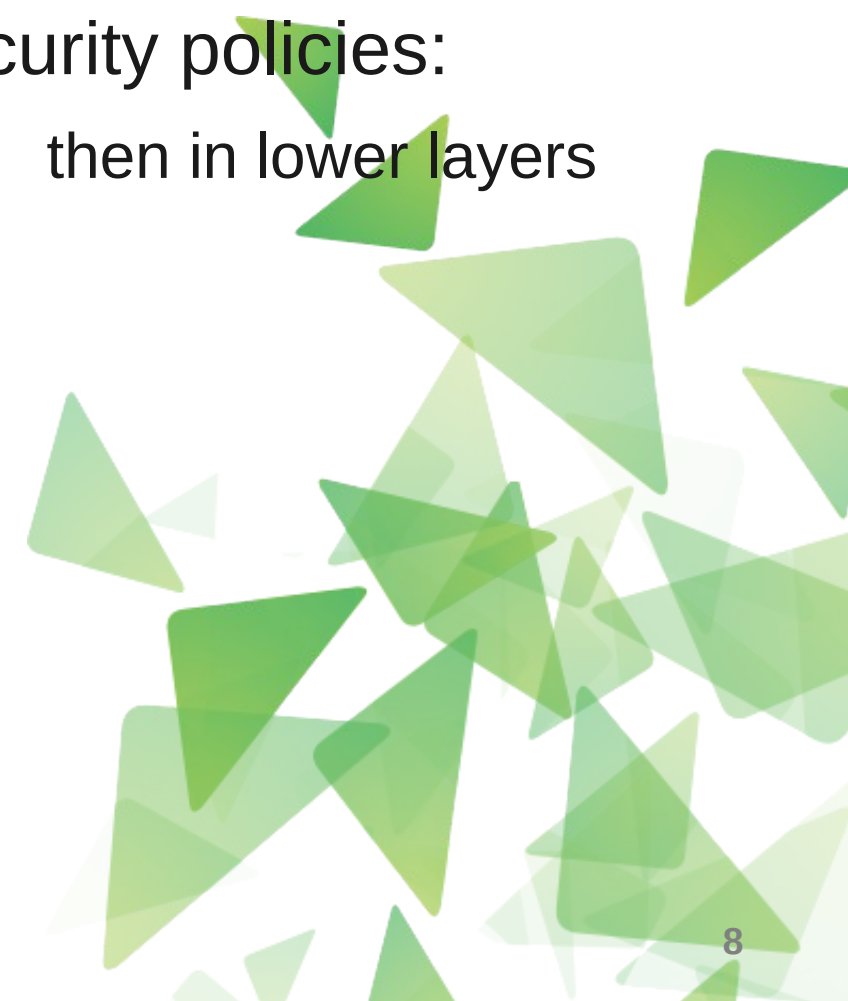
▾ Few more sub-layers:          DTD Link

  – Tools->Options

  – Extensions

  – ...

**User Configuration**

# Layer priorities

- Normally, upper layers win
  - Admin config overrides schema defaults
  - User config overrides admin value
- Not helpful for lock-down / security policies:
  - Use `oor:finalized="true"` then in lower layers

# How to customize LibreOffice

# Clean install approach

▸ Hint: start with a completely new, clean user

▸ Configure LibreOffice via Tools->Options

▸ Extract changed config items:

- `~/.config/libreoffice/3/user/registrymodifications.xcu`

- `~/Application Support/LibreOffice/3/user/registrymodifications.xcu`

- `%AppData%\LibreOffice\3\user\registrymodifications .xcu`
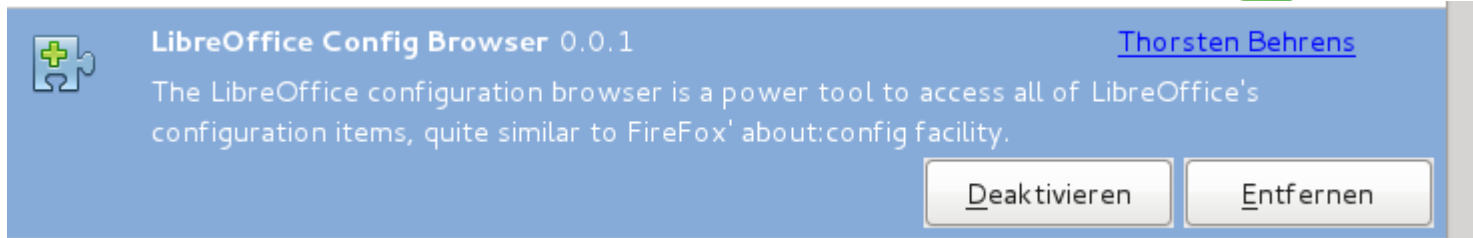
# Grok `<?xml>` Approach

- Digest schema files from
  http://cgit.freedesktop.org/libreoffice/core/tree/officecfg/

- Type up / amend your `registrymodifications.xcu`

- Just kidding -

# Install OOConfig extension

- http://users.freedesktop.org/~thorsten/extensions/ooconfig.c
- Tweak config, including hidden config items

LibreOffice Config Browser 0.0.1                    Thorsten Behrens

The LibreOffice configuration browser is a power tool to access all of LibreOffice's
configuration items, quite similar to FireFox' about:config facility.

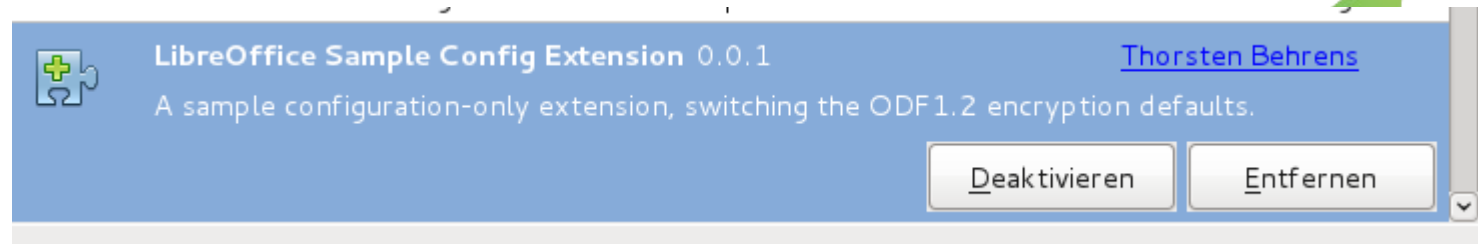Deaktivieren    Entfernen

- DEMO -

(also note my package in OBS)

# How to deploy customizations
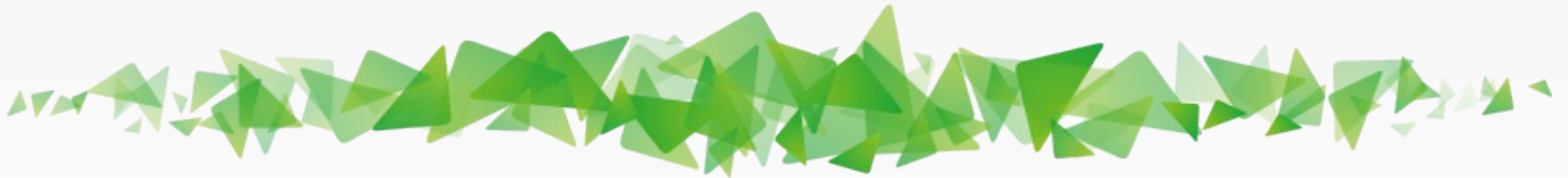
# Create a customization extension

- Contains just .xcu file as payload
- Example here:
http://users.freedesktop.org/~thorsten/extensions/config

LibreOffice Sample Config Extension 0.0.1        Thorsten Behrens
A sample configuration-only extension, switching the ODF1.2 encryption defaults.

Deaktivieren    Entfernen

# Administrative extension install

- To prevent your users from changing your setup:

- Perform an administrative installation

  - `/usr/lib64/libreoffice/program/unopkg --suppress-license --shared add path/to/config_only_sample.oxt`

  - `"%PROGRAMFILES%\LibreOffice 3.5\program\unopkg" add  --suppress-license --shared path\to\config_only_sample.oxt`

# A Sample Deployable RPM

- If you have an RPM-based deployment:
  - Here's a sample package in the opensuse buildservice
  - Grab the src rpm and tweak the contained oxt for your setup
  - Do your own rpmbuild, or branch the package on OBS

# Further information

- LDAP sample config
  - Plain LDAP
  - Active Directory-based
- Articles / Blogs
  - Configuration details (German)
  - Deployment & Migration

# Helpful links

## Contacting us

- Development: libreoffice@lists.freedesktop.org
- IRC: #libreoffice on freenode.net

## Useful links

- Extensions: http://extensions.libreoffice.org/
- Wiki: http://wiki.documentfoundation.org