EXTENDING ODF-FIELDS FOR SMART DOCUMENT PROCESSING

CIB.de

Aarhus 2015
CONFERENCE
23rd-25th September

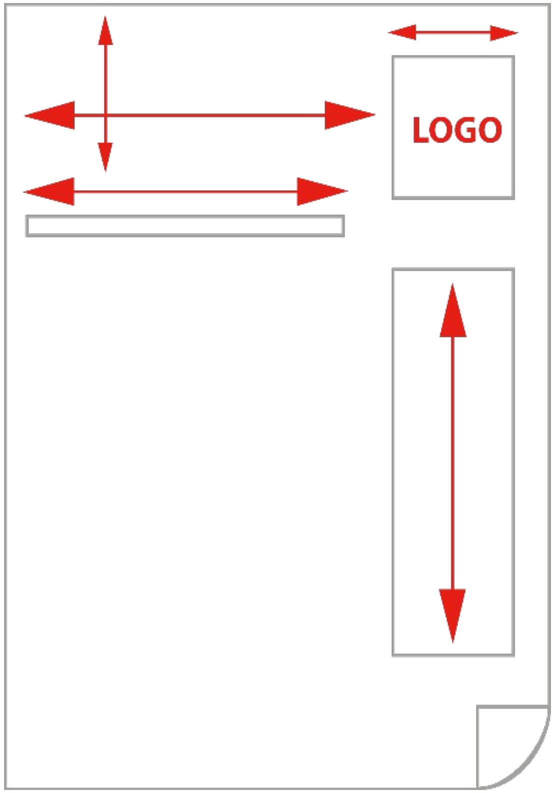
WHAT ARE WE DOING?

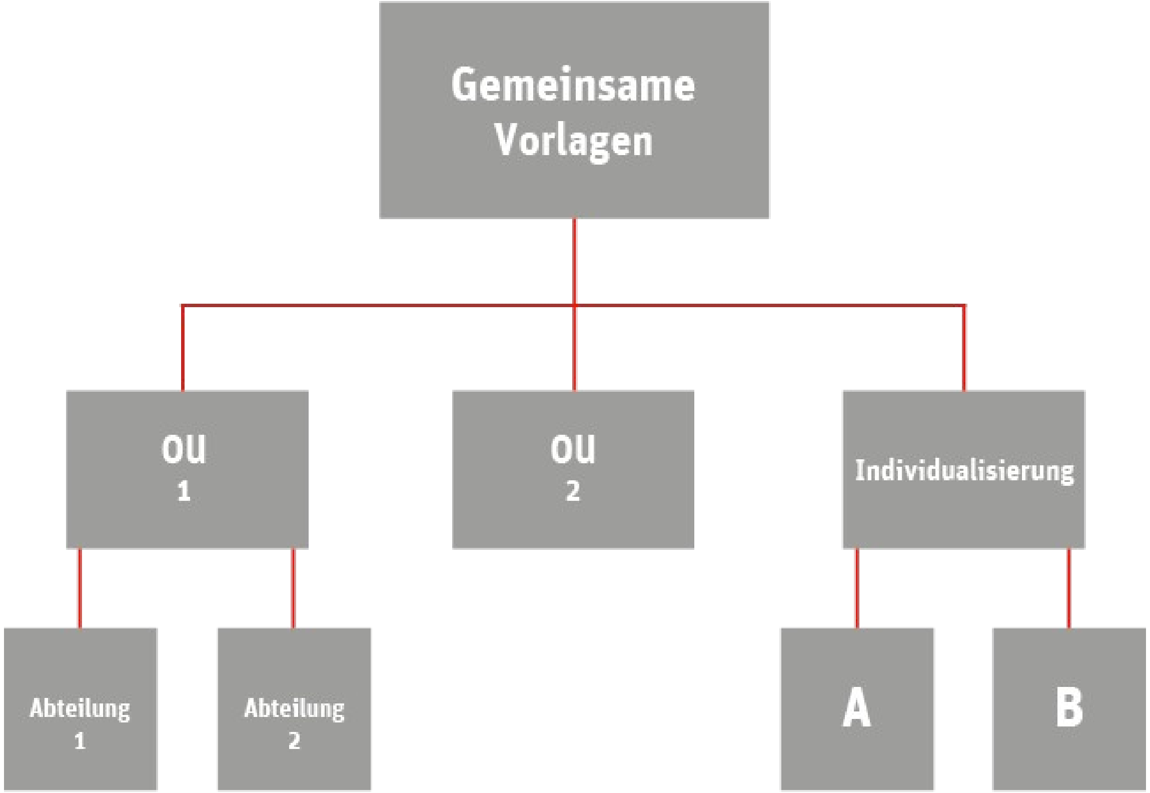
For over 25 years CIB has been successfully providing Document Lifecycle Management solutions.

- CIB software aids in all phases of the document lifecycle
- Consulting, PDF and RTF technology
- 160 employees, HQ in Munich, with offices in Karlsruhe, Hamburg, Münster, Minsk and Las Palmas
- Customers in Europe throughout the Middle East — more than 300 large and medium-sized businesses
- More than 160,000 private customers
- More than 2 million licenses in use world-wide, strong presence in the German financial/insurance/banking sector
- CIB technology is helping our customers to produce more than 500 million documents per year

REQUIREMENTS ON PROFESSIONAL DOCUMENT GENERATION

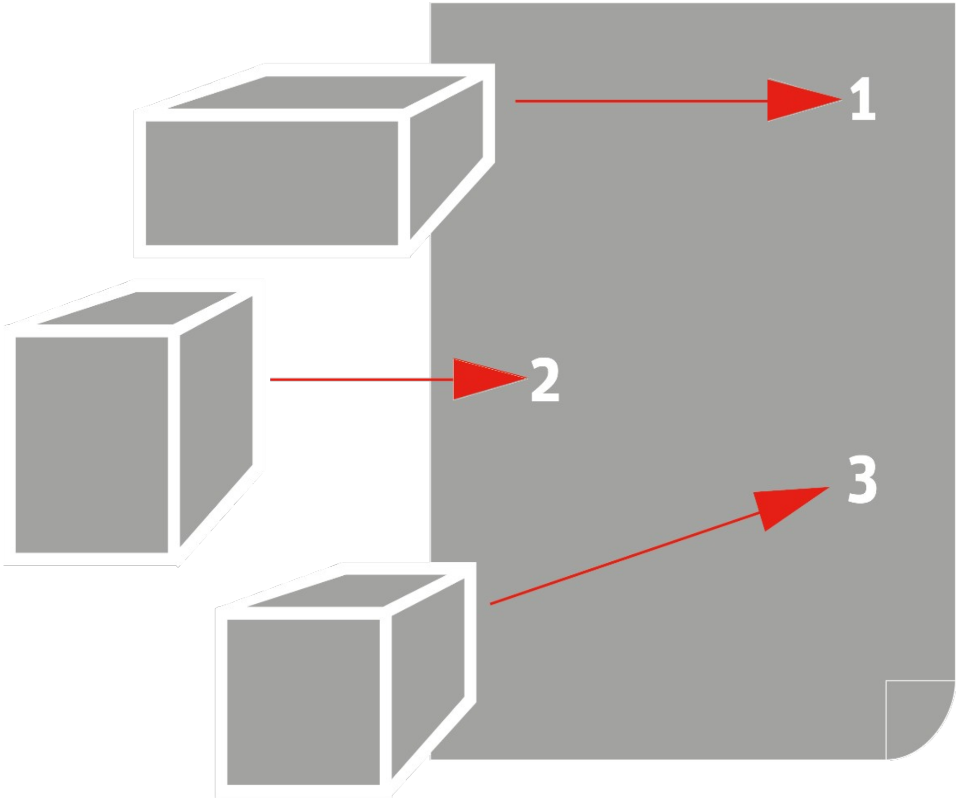
BUSINESS LETTER IN CORPORATE IDENTITY, OPTIONALLY INDIVIDUALIZED





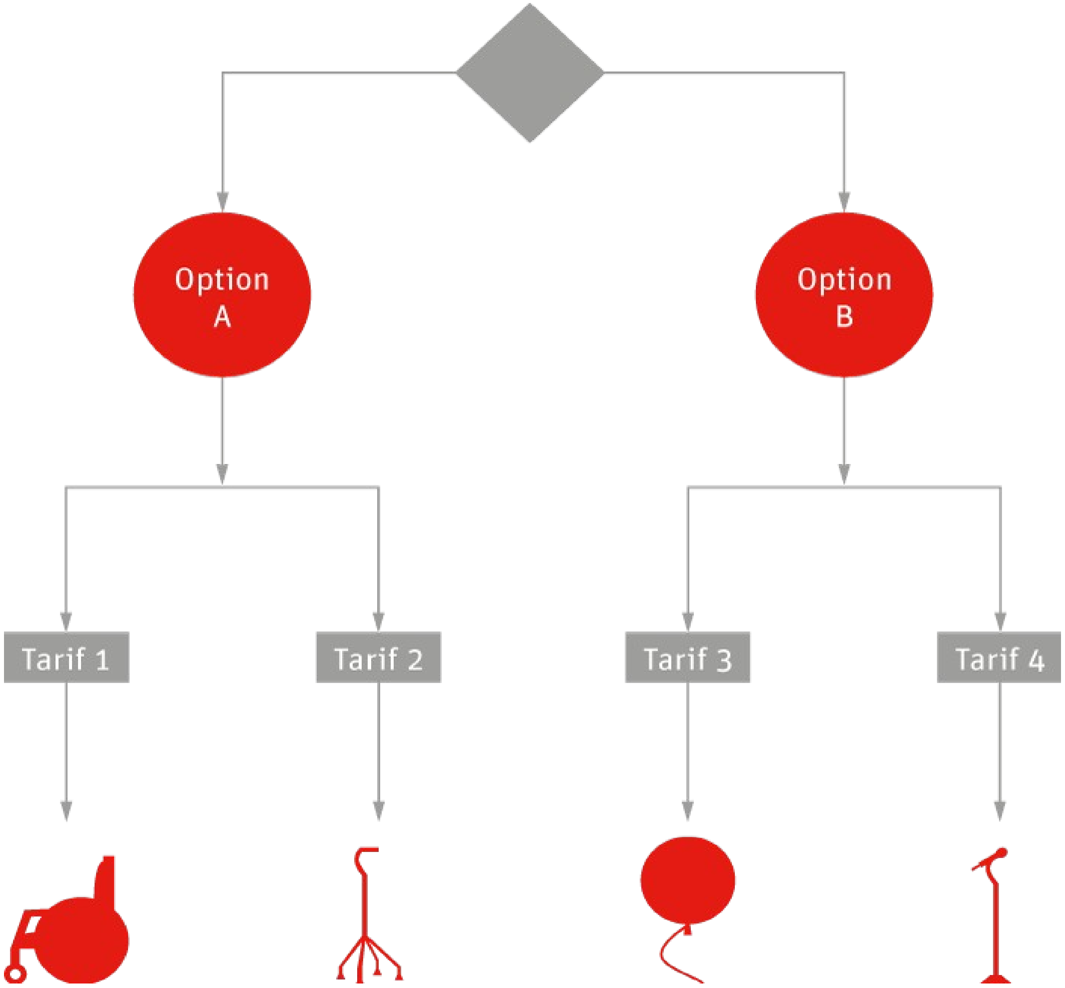
REQUIREMENTS ON PROFESSIONAL DOCUMENT GENERATION

SEPARATE TEMPLATES OUT INTO BUILDING BLOCKS (INCLUDE FEATURE)



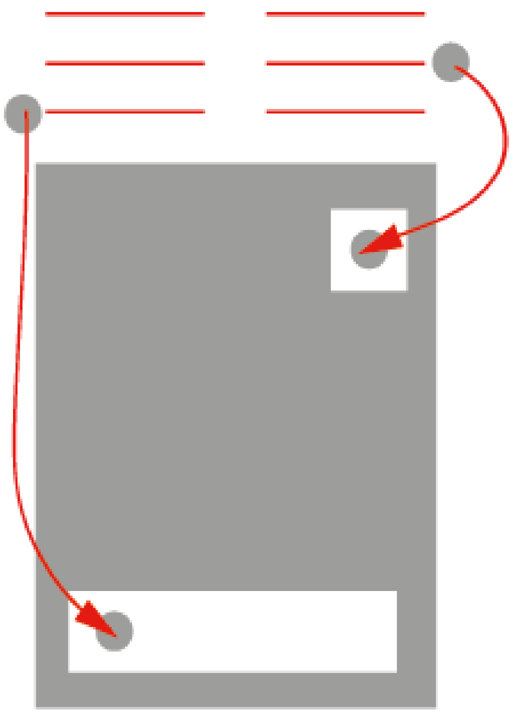
REQUIREMENTS ON PROFESSIONAL DOCUMENT GENERATION

IMPLEMENTATION OF COMPLEX LOGIC

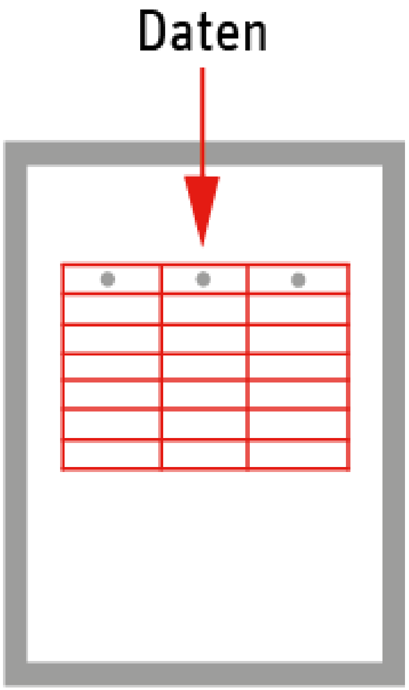


REQUIREMENTS ON PROFESSIONAL DOCUMENT GENERATION

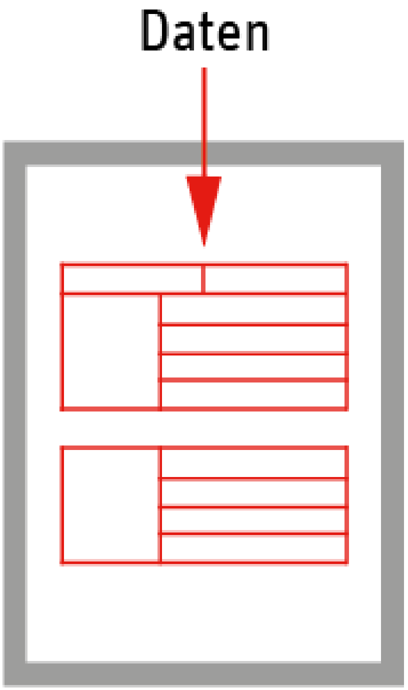
FILL RESULTING DOCUMENT FROM DATABASE



Simple key-value pairs



Lists



Complex reports: Lists of lists

WHAT'S MISSING IN ODF FIELDS?

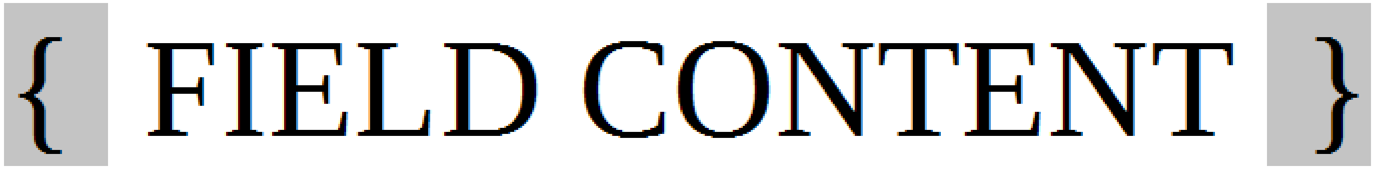
- Include statements
- Ability to do complex text formatting within fields
- Loops, and conditions
- Arbitrary code, e.g. for custom number formatting, and other processing of database content
- Dynamic content, e.g. tables or list of lists

REMEDY, ROUND ONE

In content.xml:

```
<text:p text:style-name="P1">
    <text:user-field-get text:name="cibBlockStart">{ </text:user-field-get>
    <text:span text:style-name="T2">  FIELD CONTENT  </text:span>
    <text:user-field-get text:name="cibBlockEnd"> }</text:user-field-get>
</text:p>
```

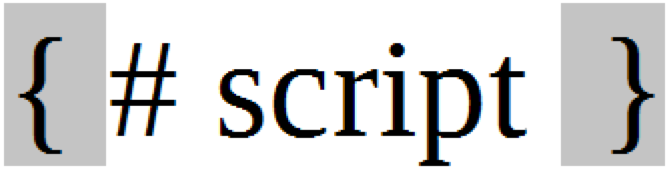
Visual appearance:



{ FIELD CONTENT }

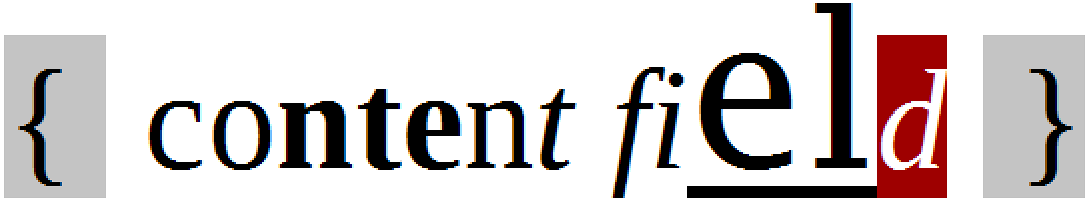
JSMERGE FIELD TYPES

Script fields:

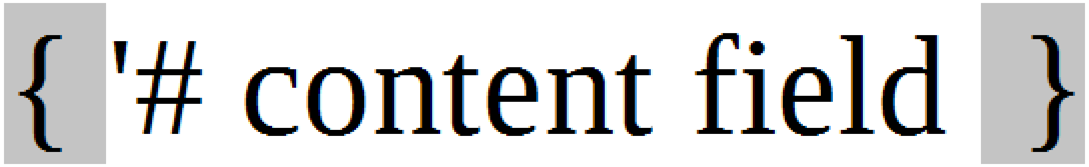


{ # script }

Content fields:



{ content field }



{ '# content field }

JSMERGE API FUNCTIONS

- text()

  {# text("Hello World!"); }

- include()

  {# include("header.odt"); }

- getProperty() / setProperty()
- Database control functions:

  getData(), setData(), mergeRec(), nextRec(), resetRec()

DEMO

WHY WOULD WE?

- **Flexibility**
    - Free to extend by new programming languages
    - Free to use different template programming concepts

- **Simplicity**
    - Minimal amount of hardcoded functions
    - Usage of a known language

- **Universality**
    - Supported roundtrips in alien formats
    - No fundamental problems to support other formats

REMEDY, ROUND TWO

Conceivable ODF markup extension:

In content.xml:

```
<text:p text:style-name="P1">
    <text:field-begin field:type="script|content|complex"/>
    <text:span text:style-name="T2"> FIELD CONTENT </text:span>
    <text:field-end/>
</text:p>
```

Plus a few pre-defined operators, like e.g. include

THANK YOU!

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