



Ich bringe Ihr Modell in Form!
Interaktive Formulare zur **Laufzeit generieren**
Vom Modell direkt zum GUI (JavaSwing, HTML)
100% Java, einfach integrier-/erweiterbar

```
<?xml version="1.0" encoding="UTF-8"?>
<?jaxfront version="1.60,time="2005-03-24 16:29
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<country>S</country>
</shipTo>
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<name>Pur
<street>Mu
<city>Zurich
<zip>8057</zip>
<country>S</country>
</billTo>
<cash>
```



JAXFRONT

<http://www.jaxfront.com>

Agenda

1. Overview
2. Scenarios
3. Architecture
4. XUI Editor – a Visual Designer
5. Integration
6. Reference Projects

What is it all about?

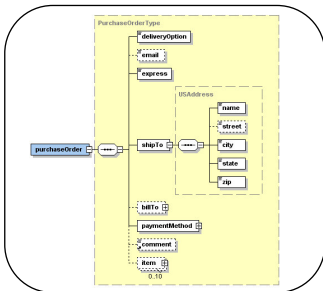
- JAXFront: **Java** Enabled **XML Frontends**
 - Rendering Technology
 - Generate smart & dynamic front ends
 - Based on W3C XML Schema
 - Java/XML Application Framework
- ↳ „Building complex forms & behaviour for interactive graphical user interfaces based on XML meta data.“

Overview

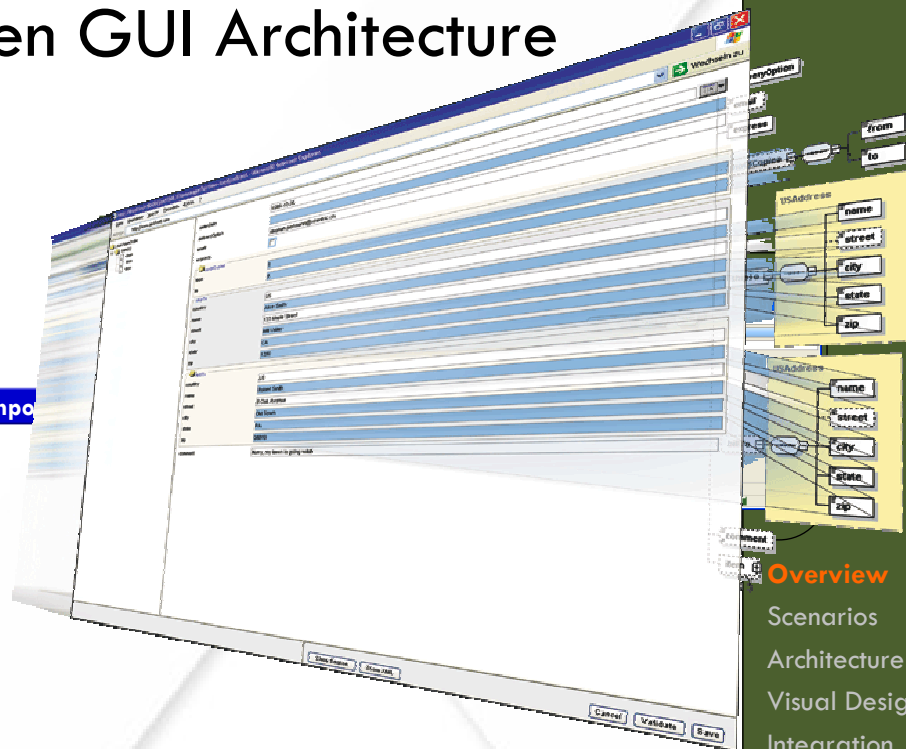
Scenarios
Architecture
Visual Designer
Integration
Reference Projects

Model Driven GUI Architecture

Business Model



import



Overview

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Rendering Advantages

■ Flexibility

- Declarative GUI composition
- WYSIWYG GUI editor
- model driven

■ Simplicity

- easy to handle
- easy to maintain & deploy
- common look & feel

■ Portability

- platform independent
(multiple UI channels)

■ Cost conscious

- shorten development cycle
- concentrate on main IT issues

■ „Busibility“

- business driven development
- frontend managed by business

Overview

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What can JAXFront be used for?

- Model driven GUI development
- GUI Builder/ GUI Factory Framework
- Handling dynamic frontends
- Rapid Prototyping
- XML Editor/Configuration UI
- Rule Engine
- Generic PDF Engine

Overview

Scenarios

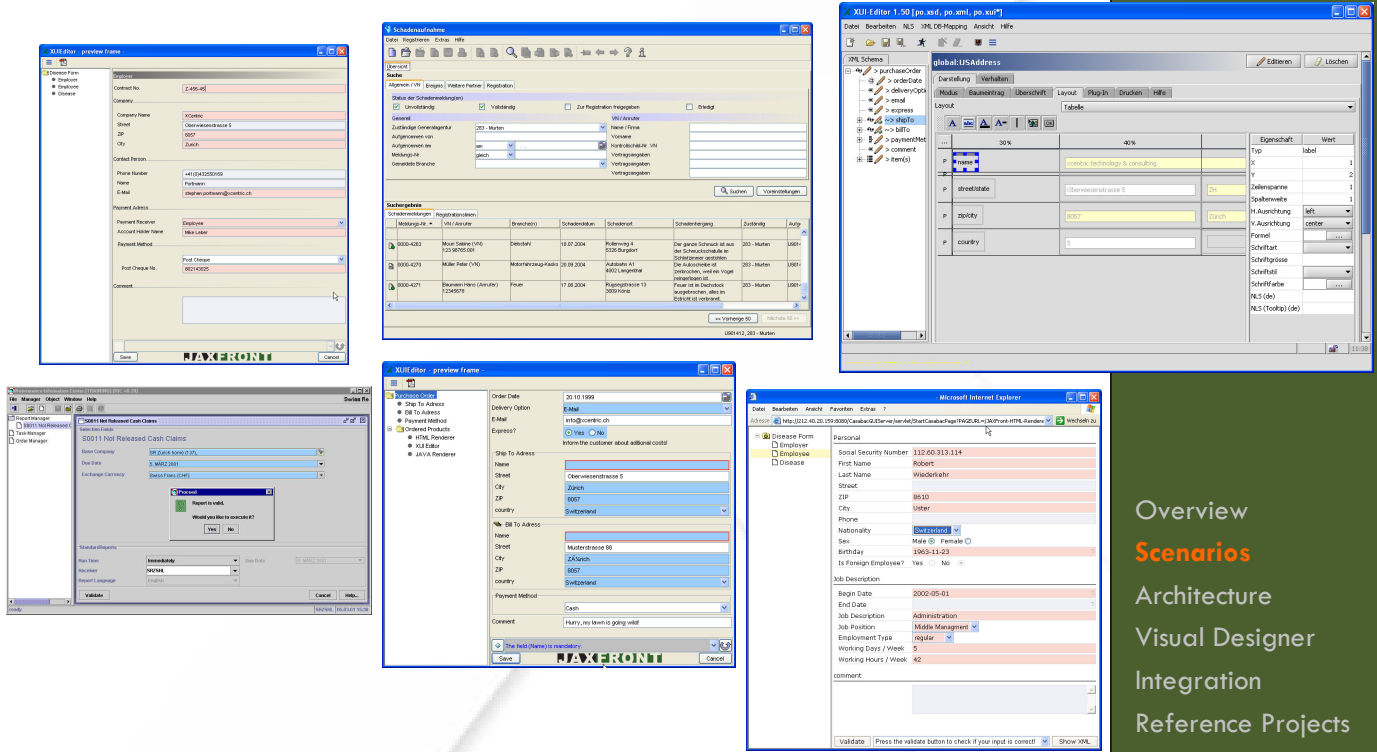
Architecture

Visual Designer

Integration

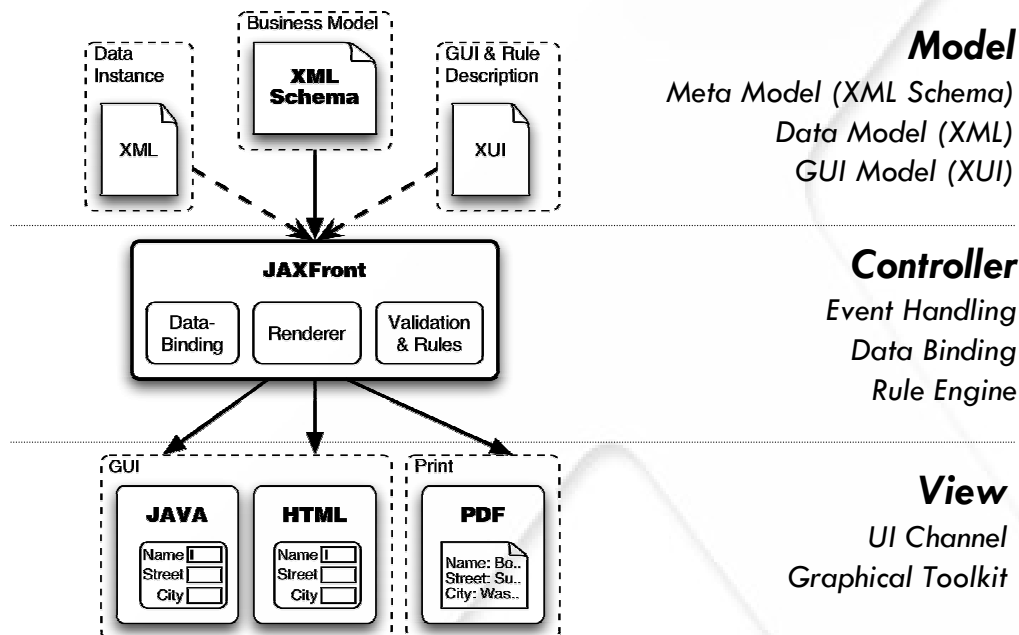
Reference Projects

What can JAXFront be used for?



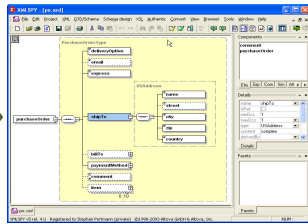
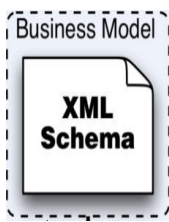
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Model Driven GUI Development



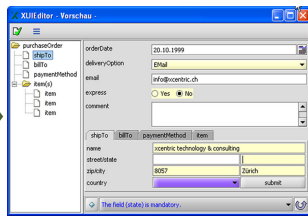
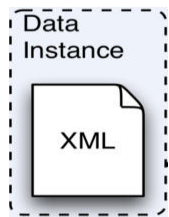
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Development Roles



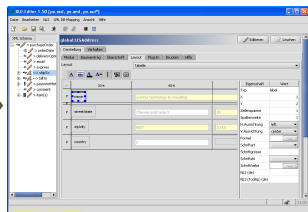
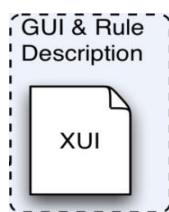
Business Analyst
XML Schema Editor

i.e. XMLSpy, Stylus Studio, Oxygen, ...



End User
JAXFront Renderer

i.e. JavaSwing, HTML, PDF, ...



**Business Analyst/
Programmer**
XUI Editor

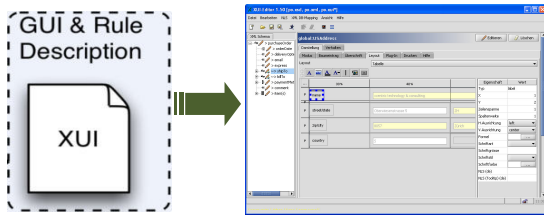
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Benefits

- ✓ following standardized modeling techniques (XML Schema)
- ✓ defines a common language for business & IT
- ✓ common look & feel across applications/UI channels
- ✓ business requests realized by business people
- ✓ less dependence on IT, less IT know how needed
- ✓ shortens development cycles

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XUI Editor

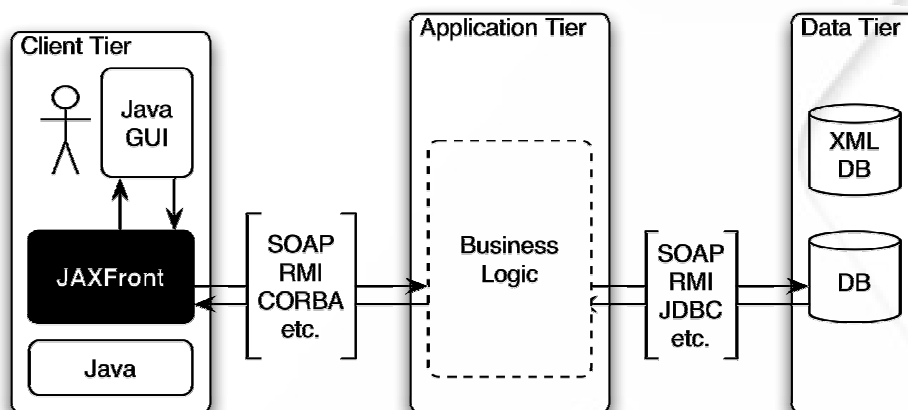


**Business Analyst/
Programmer**
XUI Editor

- Customize your individual GUIs
- Define style & behaviour of visual components
- Drag & Drop Support for GUI composition
- National Language Support
- Help System Support
- Manage your plugins, functions & actions

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Java - Smart Client



- Deploy JAXFront with your Java Application
- Footprint ~1MB
- JDK 1.4

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Java – Code Example

```

1 //Building a JAXFront DOM
2 Document dom =
3 DOMBuilder.getInstance().build(xsdURL,xmlURL,xuiURL, „root");

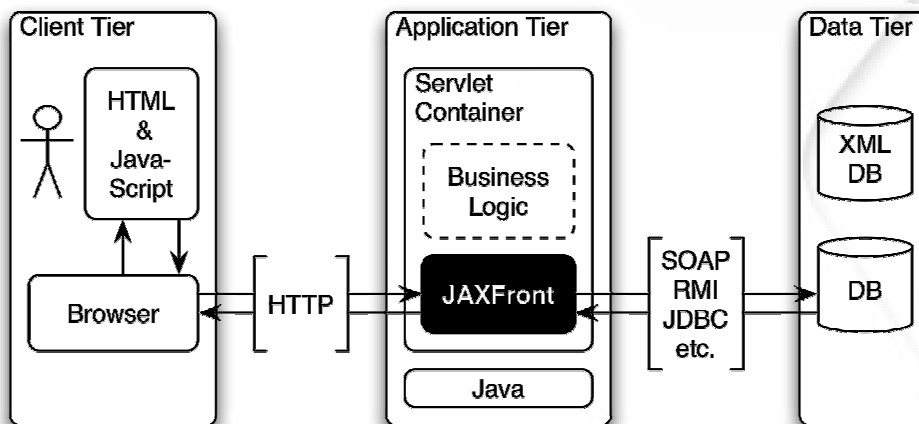
4 //Building a visualizer for the root type
5 EditorPanel panel = new EditorPanel(dom.getRootType(), this);

6 //Building a visualizer for any type
7 JComponent component = (JComponent)
8 TypeVisualizerFactory.getInstance().getVisualizer(dom.getChild(„email"));

9 //Adding a visualizer to a container
10 JFrame frame = new JFrame("JAXFront API Example");
11 frame.getContentPane().setLayout(new BorderLayout());
12 frame.getContentPane().add(panel, BorderLayout.CENTER);
13 frame.setVisible(true);
    
```

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HTML – Web Based



- JAXFront runs on the application tier within your Servlet Container
- JDK 1.4

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Reference Projects



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Reinsurance

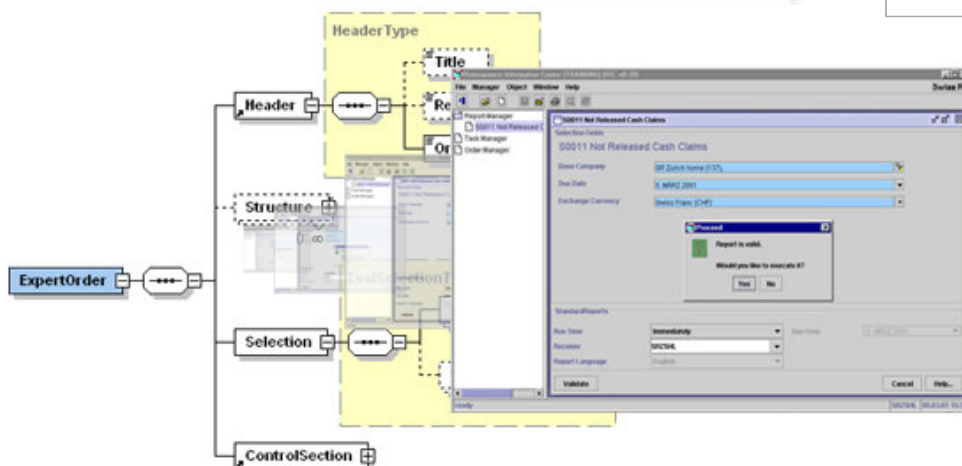
Reporting System for Finance Division

Dynamic rendering of report order forms (~200 screens)

Swiss Re



| | |
|----------------|--------------------------|
| Scope | 06.2001 – 04-2002 |
| Status | productive/worldwide |
| Release | 2.20 |
| Env. | WindowsNT/XP Java 1.3 |



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Reporting System

Project Benefits

- ✓ No deployment if a new report type is needed
- ✓ Common look and feel
- ✓ Common language between the business & the IT (XMLSchema)
- ✓ Business analysts are able to realize their requests on their own
- ✓ Less dependency on the IT team
- ✓ The whole development cycle could be reduced by 40%
- ✓ Launch new report types/make them available within seconds

Scope
Status
Release
Env.

06.2001 – 01-2005
productive/worldwide
2.20
WindowsNT/XP
Java 1.3

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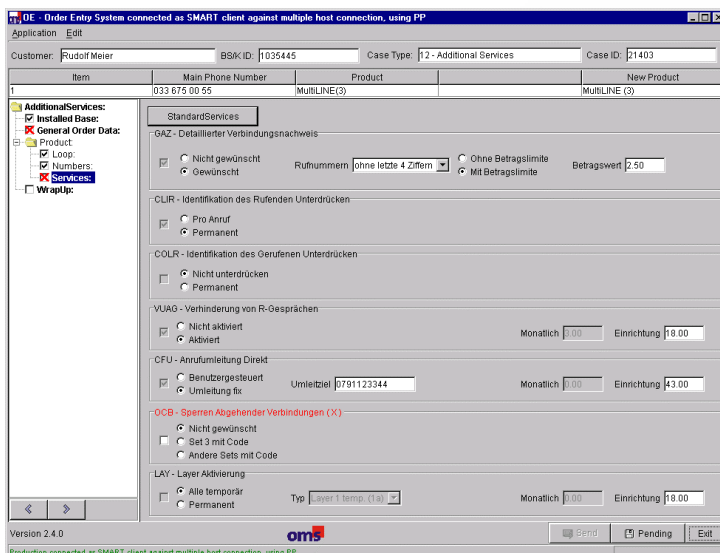
Telecommunication

Order Management System for Shops

Frontend Generator for Swisscom FixNet products

Scope
Status
Release
Env.

12.2001 – 05-2002
productive/national
1.2
WindowsNT/XP
Java 1.2/4



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Order Management System



Project Benefits

- ✓ *No deployment* if a new FixNet product is needed
- ✓ *Quality of Service* reduces traffic/bandwidth

- ✓ *Less dependency* on the IT team
- ✓ The whole development cycle could be *reduced by 40%*
- ✓ Launch new FixNet products/make them available within hours

| | |
|----------------|----------------------------|
| Scope | 12.2001 – 05-2002 |
| Status | productive/national |
| Release | 1.2 |
| Env. | WindowsNT/XP Java 1.2/4 |

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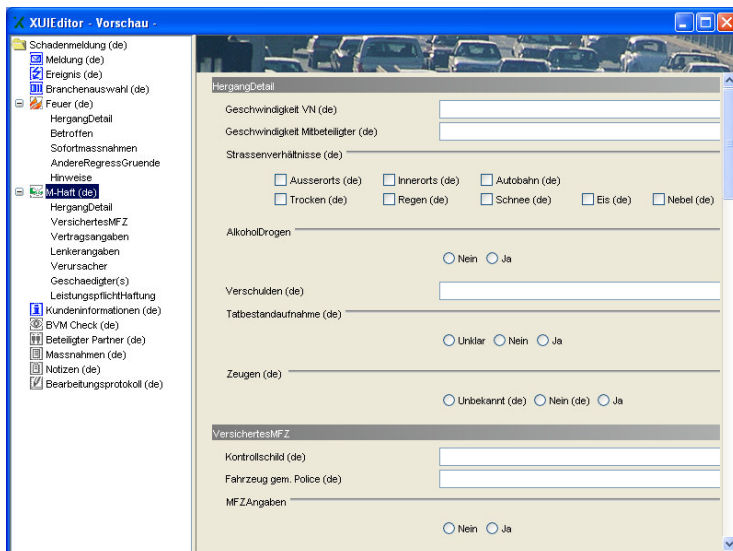
Insurance



New Claim Advice System 2004

Claim advice form generator for all 30 insurance branches.

| | |
|----------------|------------------------|
| Scope | 05.2003 – 10.11.2004 |
| Status | Productive/swisswide |
| Release | 1.0 |
| Env. | Windows XP Java 1.4 |



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Claim Advice System

Die Mobiliar
Versicherungen & Vorsorge

Project Benefits

- ✓ No deployment if a new claim branch is needed
- ✓ Quality of Service reduces traffic/bandwidth
- ✓ Less dependency on the IT team
- ✓ Almost the whole frontend (90%) was generated
- ✓ Launch new claim branches within hours

| | |
|----------------|------------------------|
| Scope | 05.2003 – 10.11.2004 |
| Status | Productive/swisswide |
| Release | 1.0 |
| Env. | Windows XP Java 1.4 |

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<?jaxfront version="1.00" time="2005-03-24 15:29" /?>
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</billTo>
<cash>
```

JAXFRONT

...try it out today!