RIENA

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Eclipse Application Developer Day - July 2009

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Riena Goals

- **Client / Server Apps (Distributed Components)**
- Based on OSGi / Equinox
- Built on top of RCP
- „Enterprise ready“
- **Enduser focused Navigation Concept**
- Service Oriented

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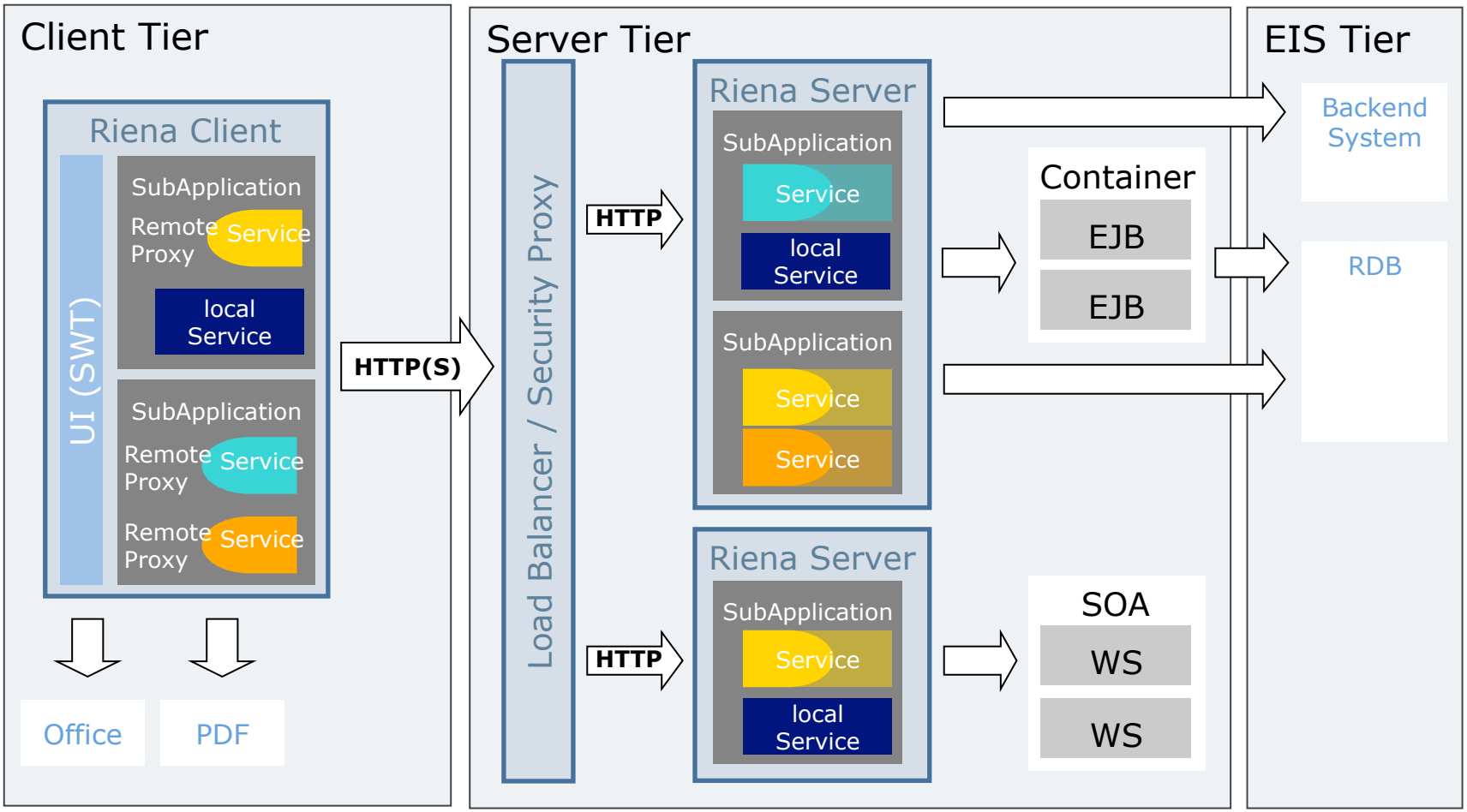
Riena Architecture



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Riena Features

- **Distributed Enterprise Applications**
  - Remote OSGi Service based on Webservice model
- **Enhanced UI Model based on RCP**
  - Based on RCP but with a different look and navigation model (enduser focused)
  - Separation between controller/view using Ridget API
  - Validator, Converters, Markers
  - UI Filters
- **Riena Core**
  - Injector for services and extensions
- **Security**
  - Using equinox security
  - supports authentication and authorization (client and server)
- **Object Transaction**
  - follows object net modifications in a distributed environment
- **Client Monitoring**
  - transfer logs, statistics etc from client to server

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Riena UI - Goals

- **Reuse** Eclipse Technology
  - Workbench
  - Views
  - JFace
- Riena‘s **Navigation Model** on top of Eclipse RCP
- **Separate** Controller and View using Ridgets
- Advanced UI Functions for Business Apps

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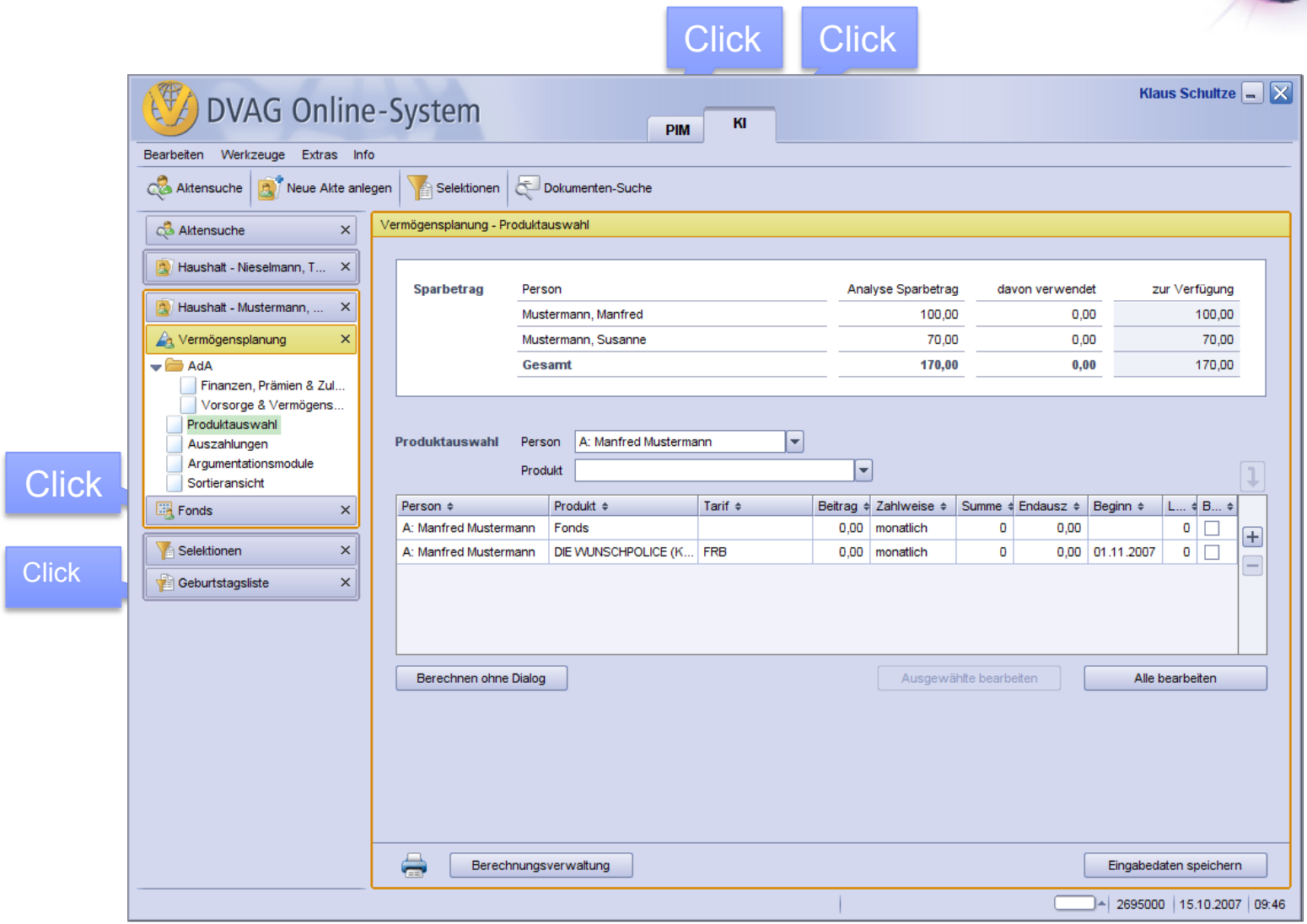
Riena UI - Vision



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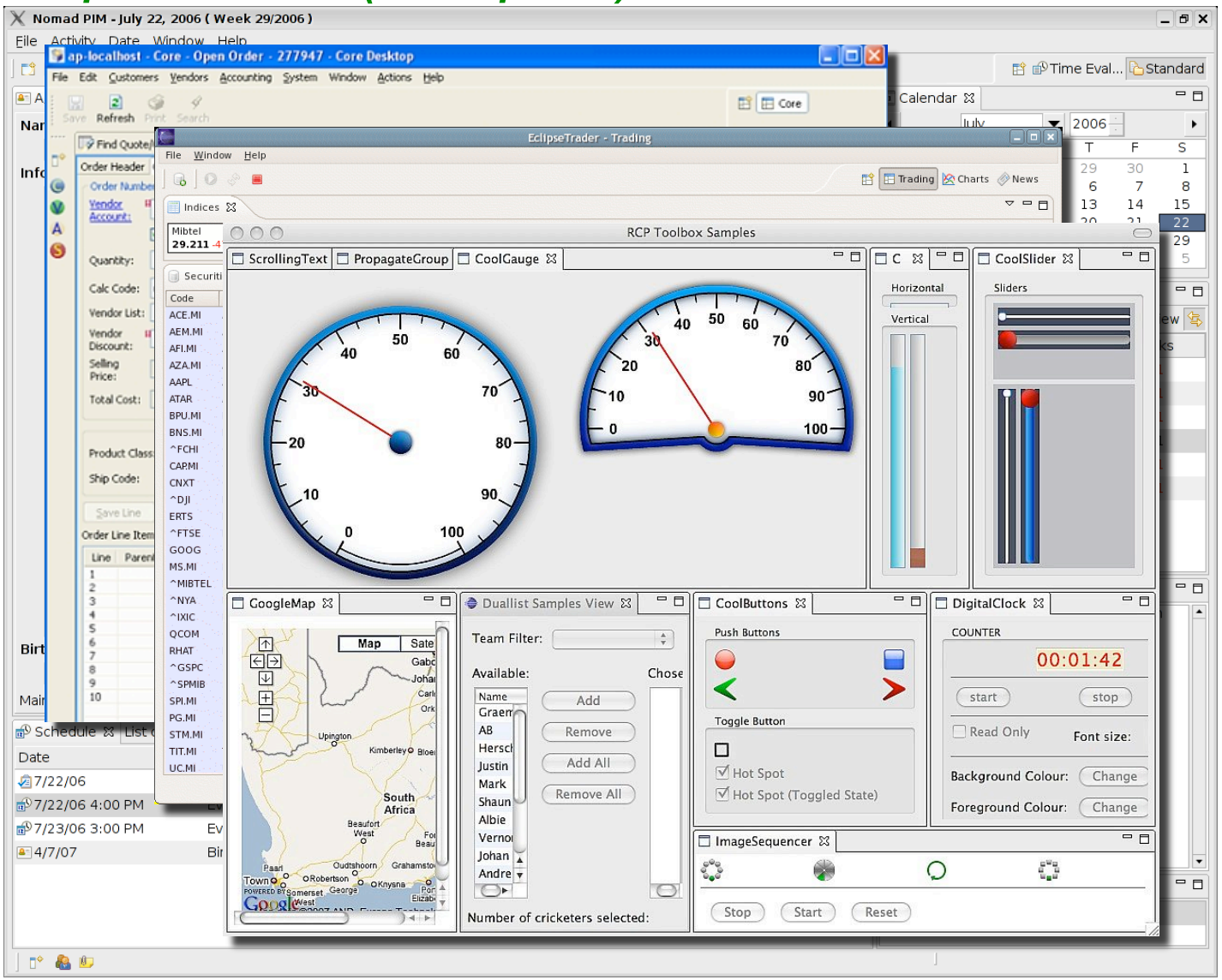
Eclipse RCP (samples)



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Riena Navigation Model/Processor

- **Tree based** Model
- **Building blocks** are at runtime
  - extensions („assemblies“)
  - nodeBuilders (java code)
- **Multiple instances** per building block possible (i.e. multiple customer records)
- **Navigate from any give node** in the tree to any other node using a simple id
- **Pass parameter**, supply feedback with changelisteners
- **Generic Processor** included to manage the tree

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Riena Navigation Model

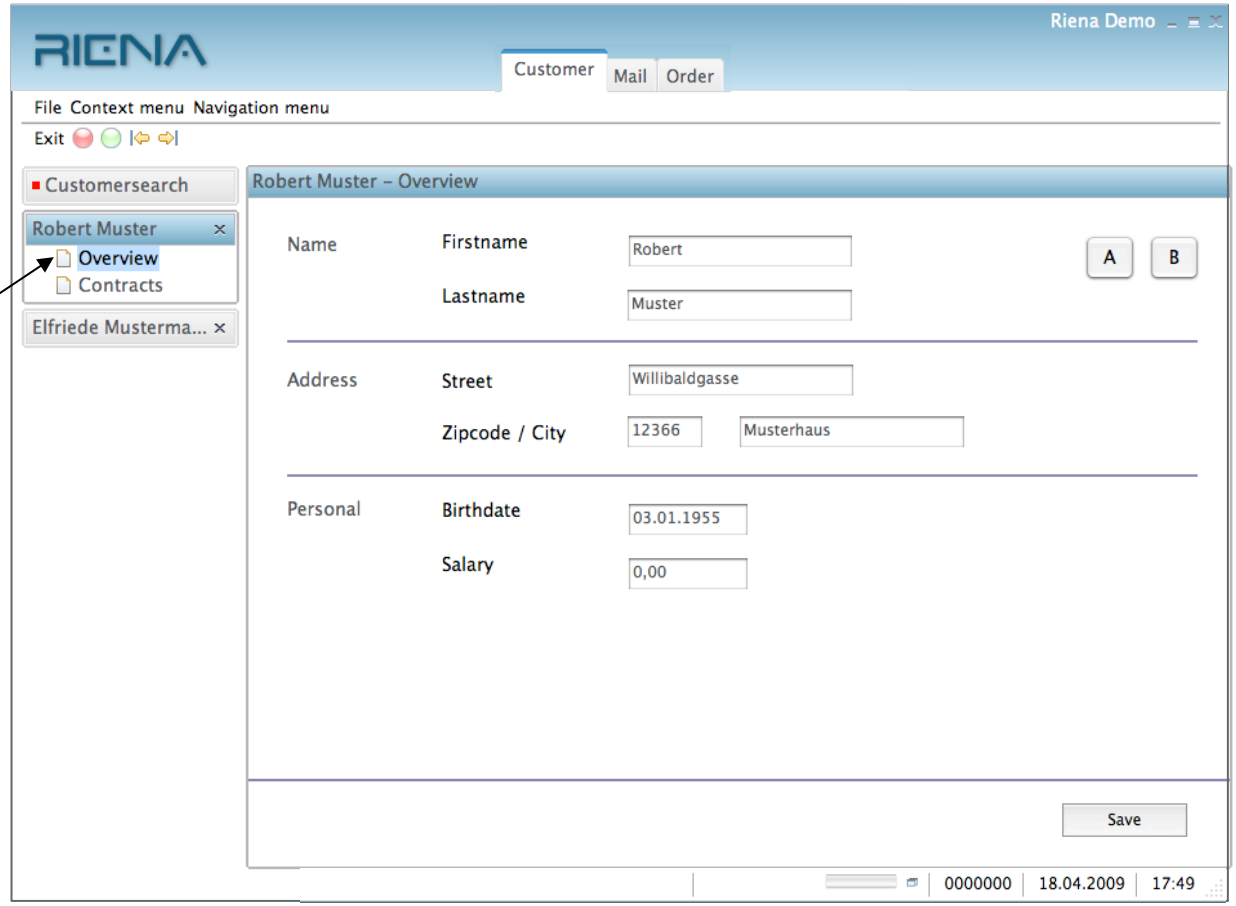
Application

Subapplication …

Modulegroup ...

Module ...

Submodule ...



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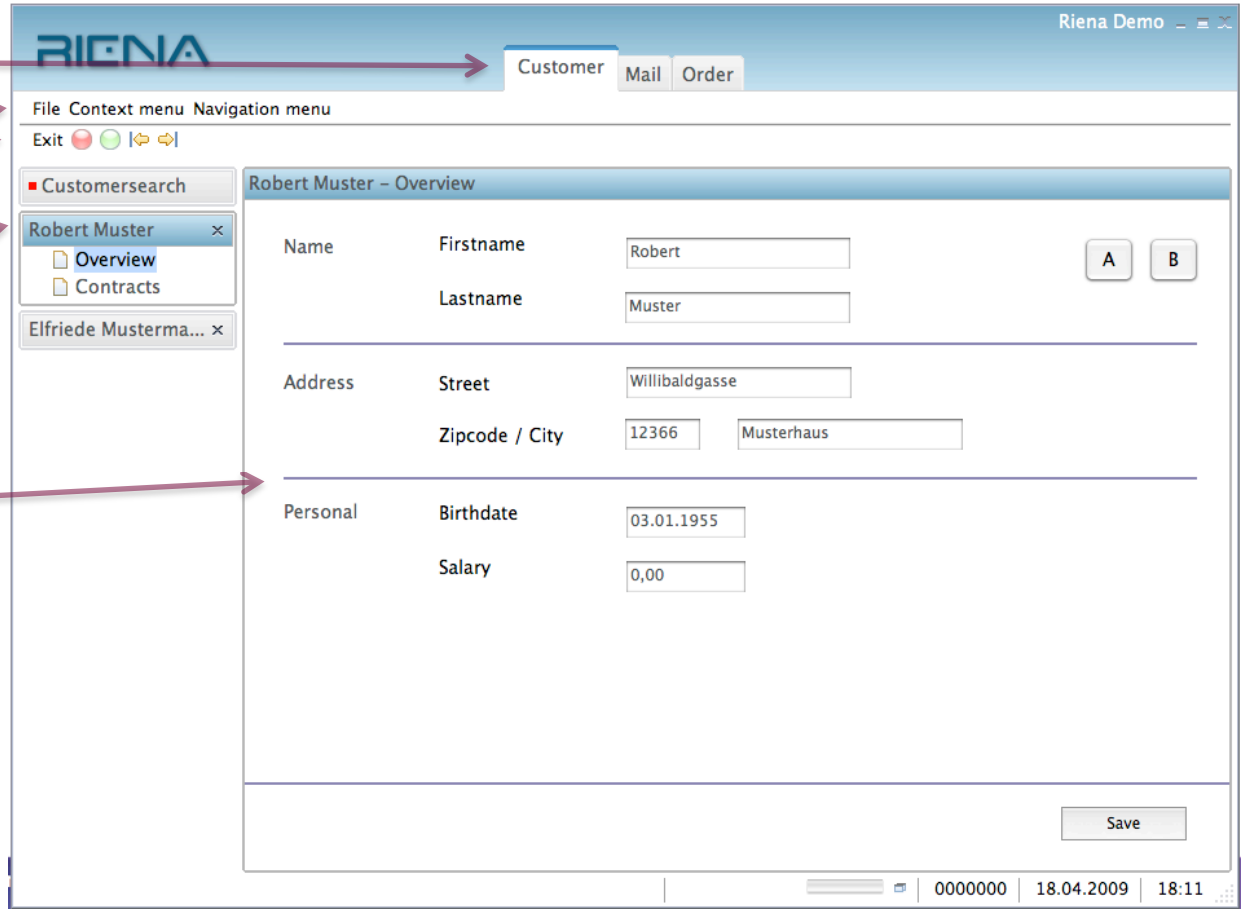
Riena with „RCP Glasses“

- Perspective
- Coolbars
- RCP View owned

By Riena, driven by

the Navigation Model

- RCP Views



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Demo

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Model • View • Controller

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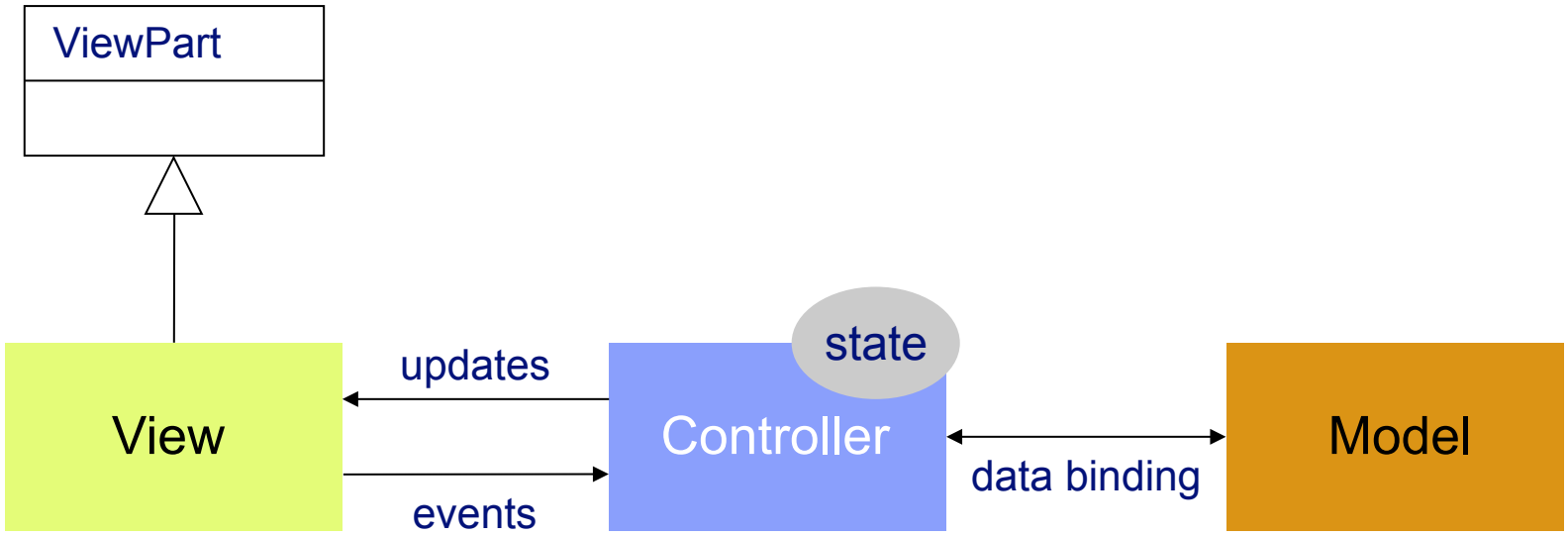
Separation of View and Controller



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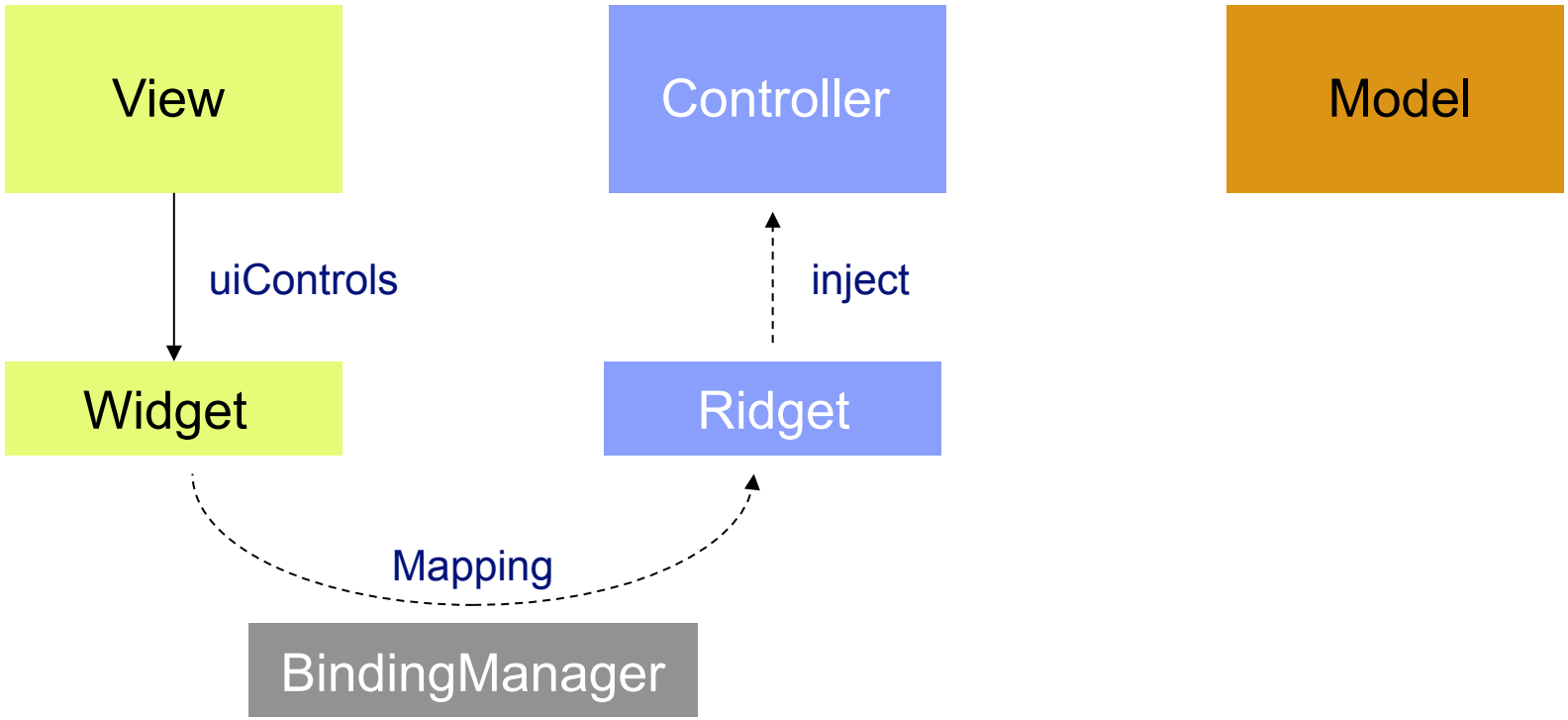
Riena - Ridgets



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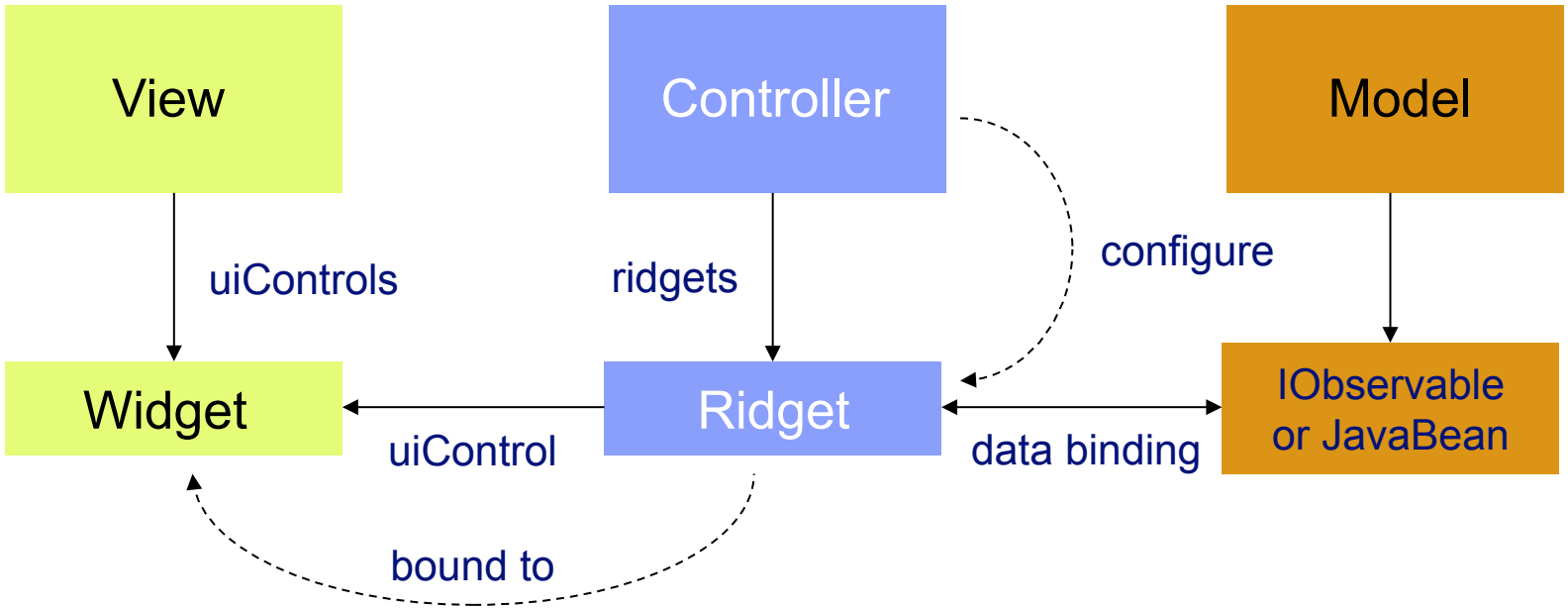
Riena - Ridgets



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UI Filters

- **Restrict**
  - Ridgets
  - Navigation
  - Validation
- **undoable**
- **accumulate-able**
- **Driven by** (application specific)
  - Permissions
  - Workflow
  - Businessrules

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Demo

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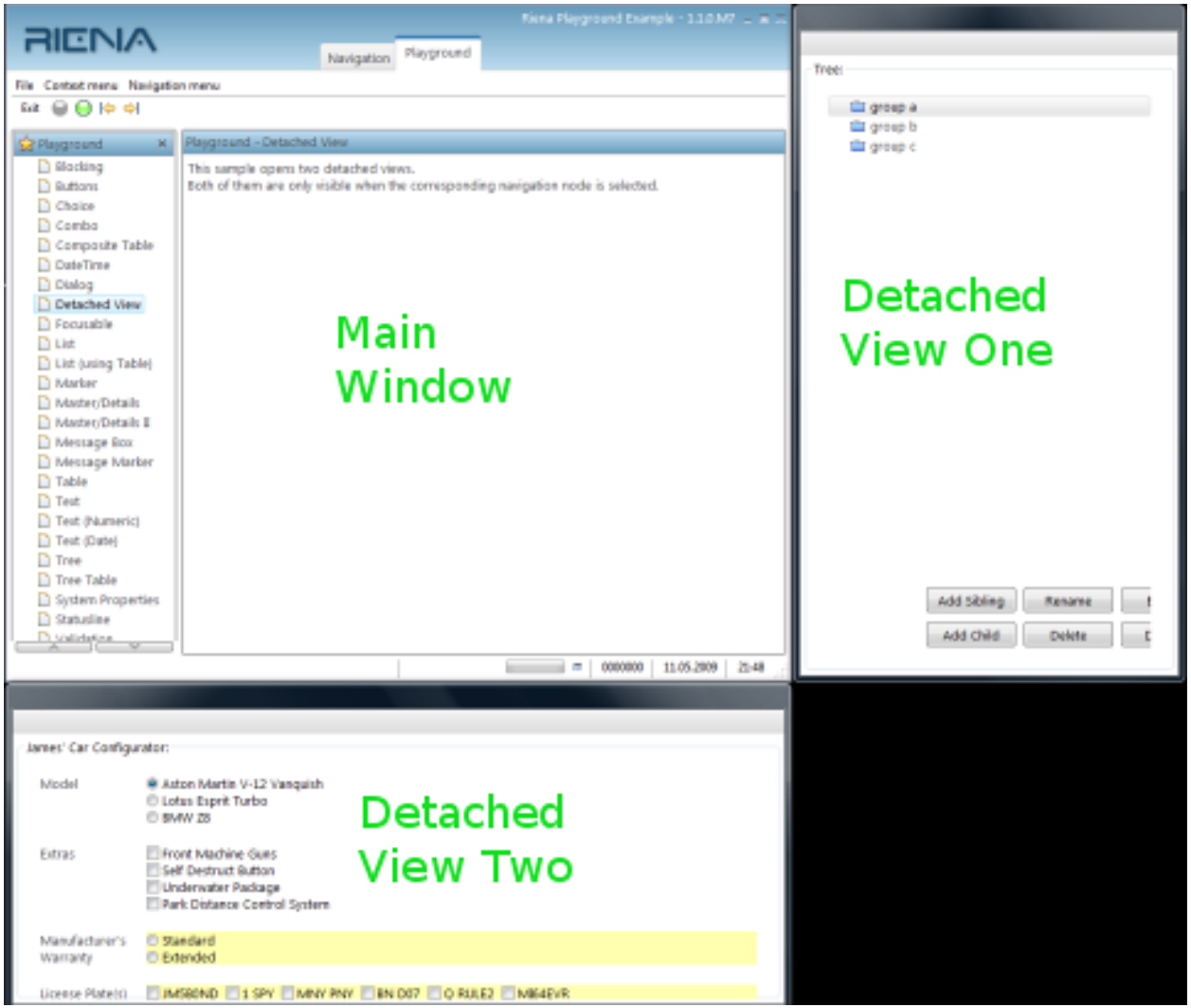
UI – Detached Views



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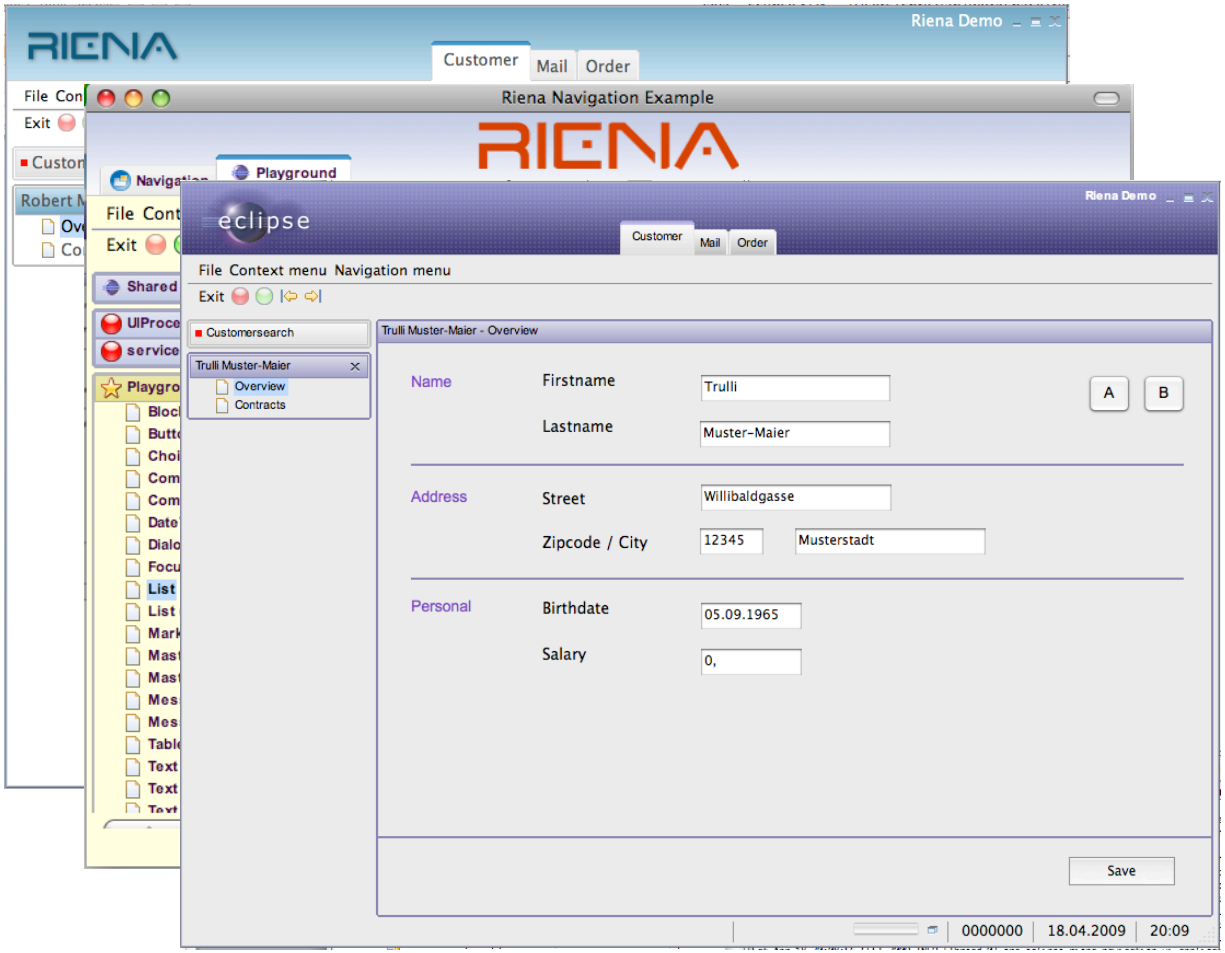
Riena L&F and Theming



- Colors, Fonts
- Renders for Navigation
- Icons, Logos

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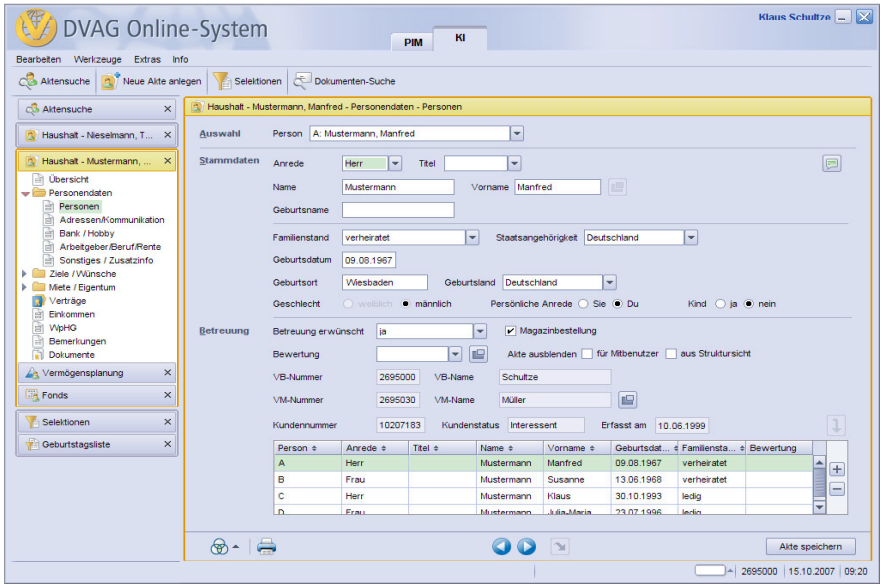
Riena UI – Vision - statusquo



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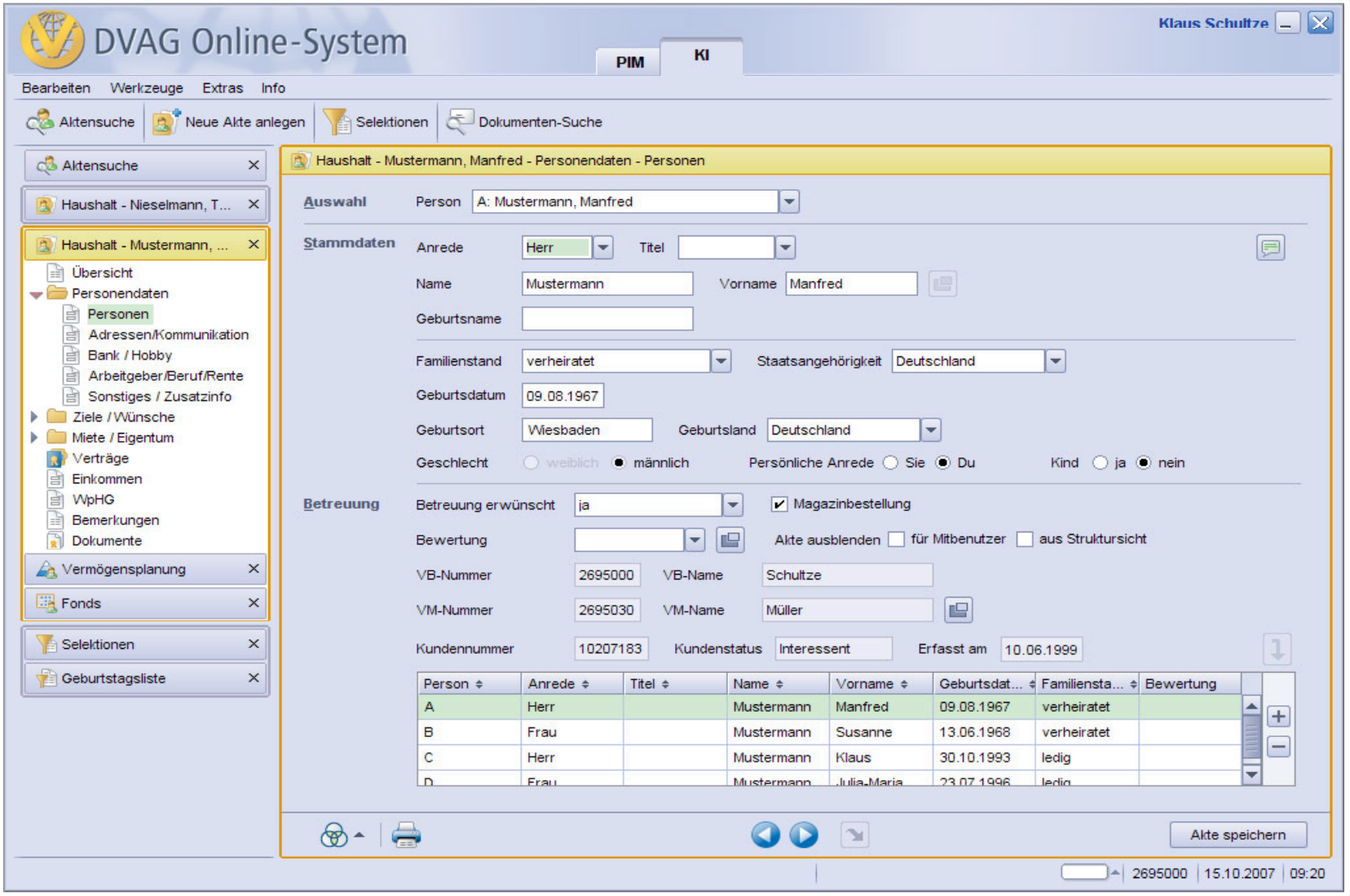

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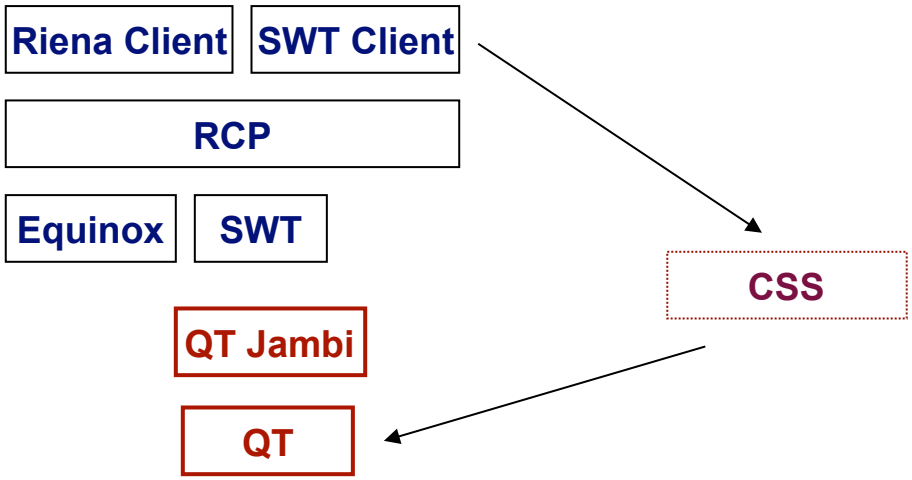
Experiment – SWT Platform on QT




```
QPushButton {
border: 1px solid #8993b2;
border-radius: 3px;
background-color: qlineargradient(x1 : 0, y1 : 0, x2 : 0, y2 : 1, stop : 1 #c5cae6, stop :0 #fcfcfe);
min-width: 80px;
height: 20 px;
}
```

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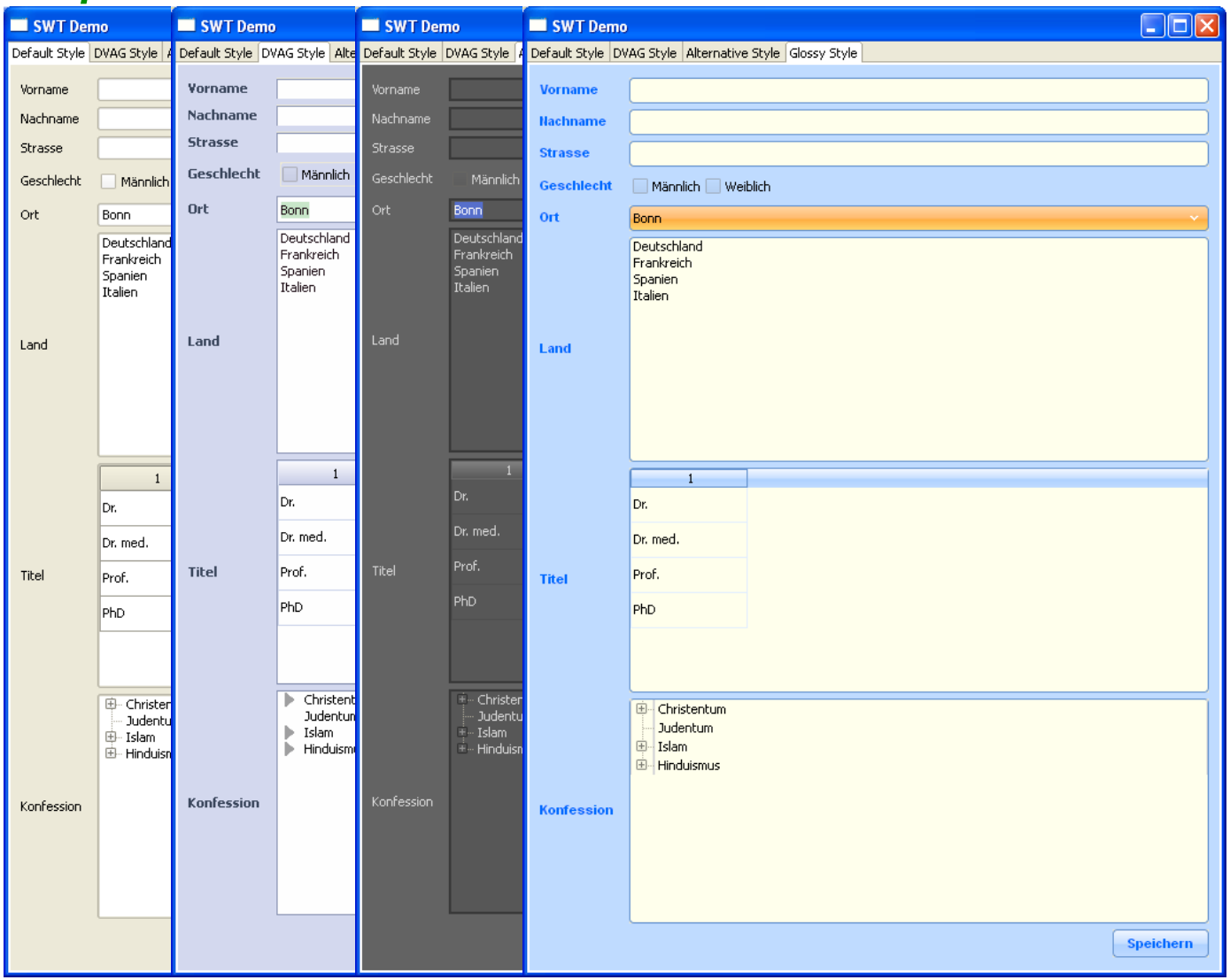
Experiment - Result



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Riena

- Enterprise Client / Server Apps
- Navigation Concept on top of Eclipse technology
- Separation of View and Controller using Ridgets
- Ease the use of databinding by simplied APIs in ridgets
- Features next version
  - Full keyboard navigation
  - Custom modules in the navigation bar
  - Extend the flexibility of the workarea
  - Additional remote service features

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Riena

- http://www.eclipse.org/riena
- http://wiki.eclipse.org/Riena_Project
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