



RIENIA

Christian Campo

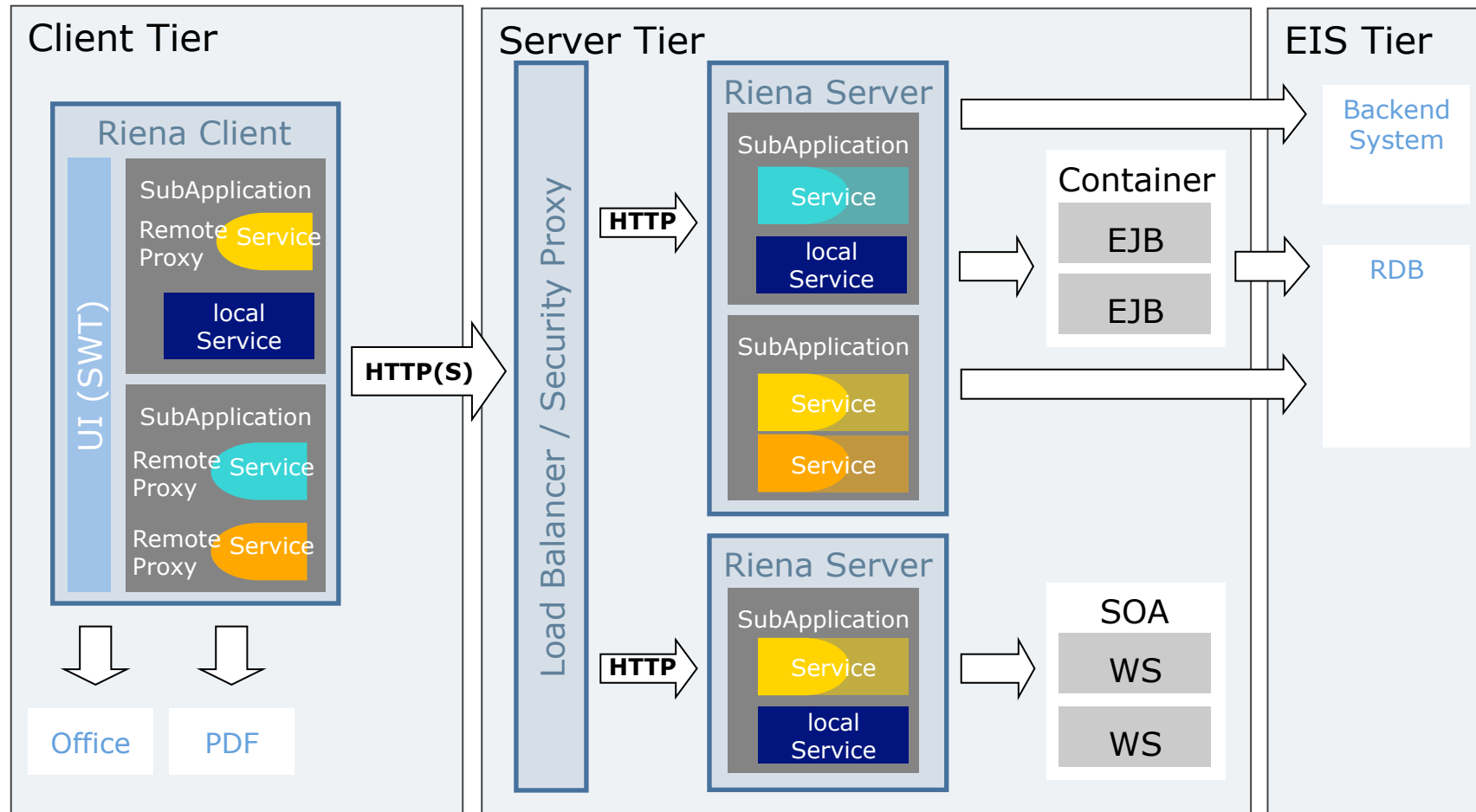
Eclipse Application Developer Day - July 2009



Riena Goals

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

Riena Architecture



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



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

Riena UI - Vision



Click Click

Click
Click

DVAG Online-System Klaus Schultze

PIM **KI**

Bearbeiten Werkzeuge Extras Info

Altersuche Neue Akte anlegen Selektionen Dokumenten-Suche

Altersuche x

Haushalt - Nieselmann, T... x

Haushalt - Mustermann, ... x

Vermögensplanung x

- AdA
 - Finanzen, Prämien & Zul...
 - Vorsorge & Vermögens...
 - Produktauswahl**
 - Auszahlungen
 - Argumentationsmodule
 - Sortieransicht

Fonds x

Selektionen x

Geburtsliste x

Vermögensplanung - Produktauswahl

Sparbetrag	Person	Analyse Sparbetrag	davon verwendet	zur Verfügung
	Mustermann, Manfred	100,00	0,00	100,00
	Mustermann, Susanne	70,00	0,00	70,00
	Gesamt	170,00	0,00	170,00

Produktauswahl Person: A: Manfred Mustermann

Produkt:

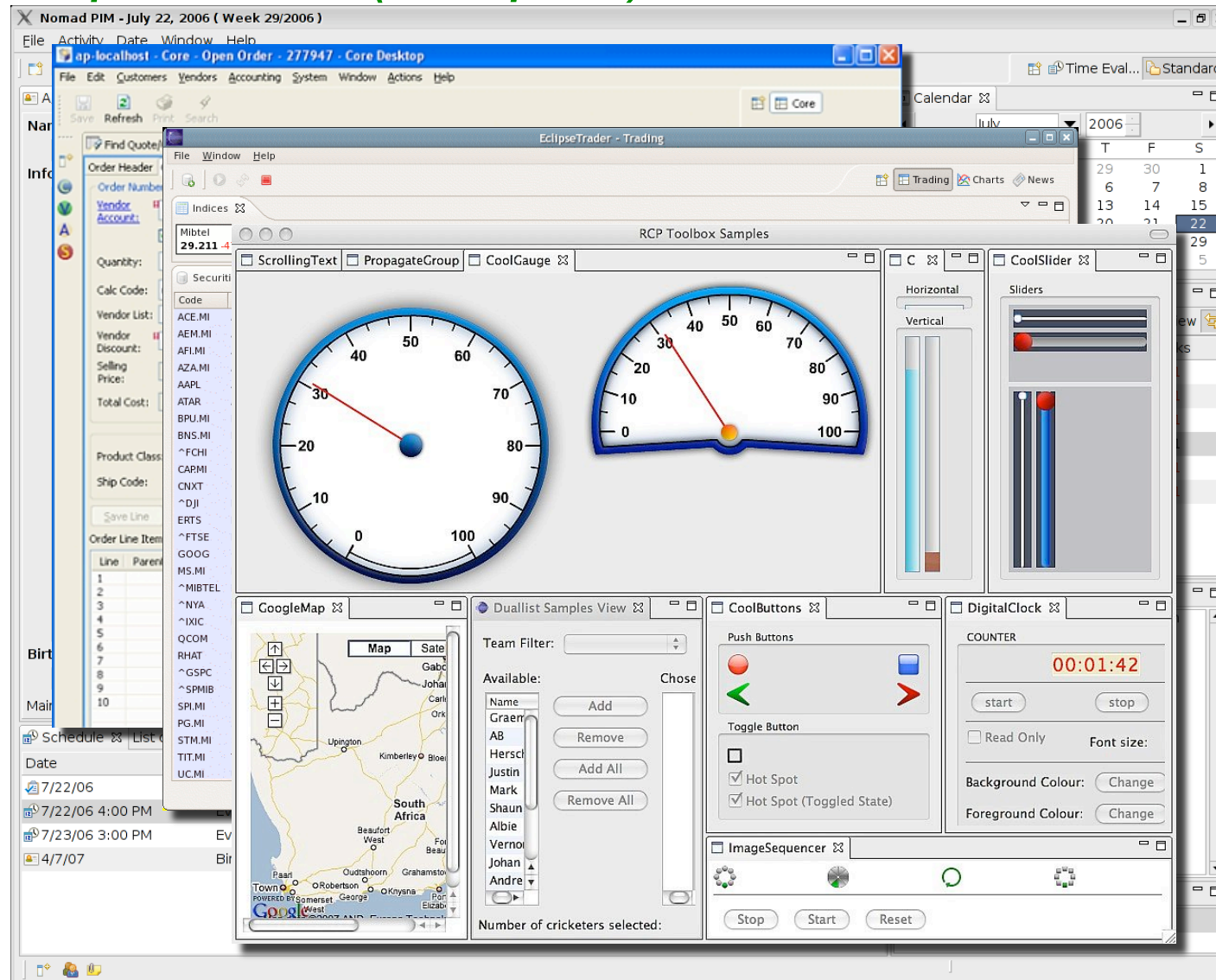
Person	Produkt	Tarif	Beitrag	Zahlweise	Summe	Endausz	Beginn	L...	B...
A: Manfred Mustermann	Fonds		0,00	monatlich	0	0,00		0	<input type="checkbox"/>
A: Manfred Mustermann	DIE WUNSHPOLICE (K...	FRB	0,00	monatlich	0	0,00	01.11.2007	0	<input type="checkbox"/>

Berechnen ohne Dialog Ausgewählte bearbeiten Alle bearbeiten

Berechnungsverwaltung Eingabedaten speichern

2695000 | 15.10.2007 | 09:46

Eclipse RCP (samples)



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 changelisters
- **Generic Processor** included to manage the tree

Riena Navigation Model



Application
Subapplication ...

Modulegroup ...
Module ...
Submodule ...

The screenshot shows the Riena application interface. The title bar reads "RIENA" and "Riena Demo". There are tabs for "Customer", "Mail", and "Order". A menu bar contains "File", "Context menu", and "Navigation menu". Below the menu bar are window control buttons (Exit, minimize, maximize, close). The main area is divided into a left sidebar and a main content area. The sidebar contains a "Customersearch" button and a list of items: "Robert Muster" (selected), "Overview", "Contracts", and "Elfriede Musterma...". The main content area displays the "Robert Muster - Overview" form. The form has the following fields:

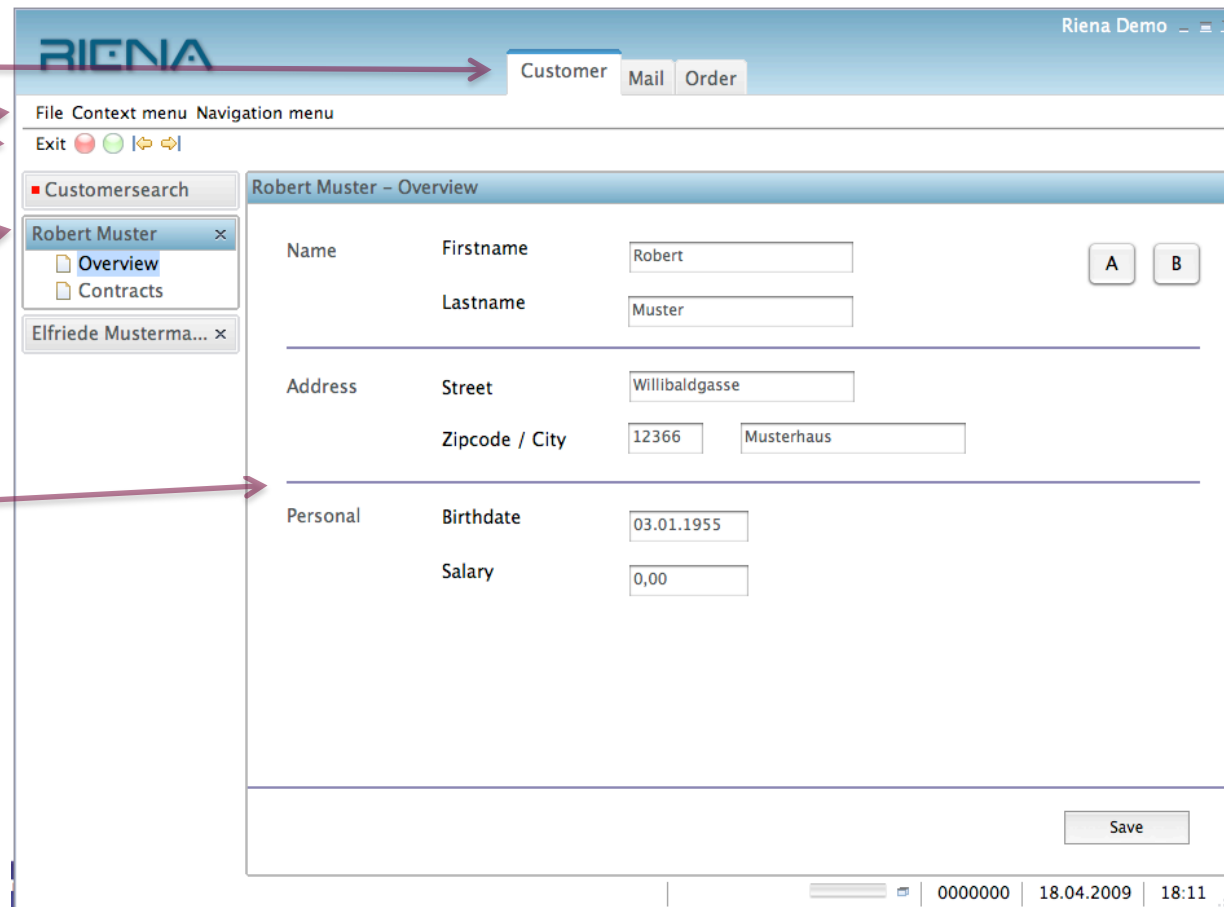
Name	Firstname	<input type="text" value="Robert"/>	<input type="button" value="A"/>	<input type="button" value="B"/>
	Lastname	<input type="text" value="Muster"/>		
Address	Street	<input type="text" value="Willibaldgasse"/>		
	Zipcode / City	<input type="text" value="12366"/>	<input type="text" value="Musterhaus"/>	
Personal	Birthdate	<input type="text" value="03.01.1955"/>		
	Salary	<input type="text" value="0,00"/>		

A "Save" button is located at the bottom right of the form. The status bar at the bottom shows "0000000", "18.04.2009", and "17:49".

Riena with „RCP Glasses“



- Perspective
- Coolbars
- RCP View owned By Riena, driven by the Navigation Model
- RCP Views



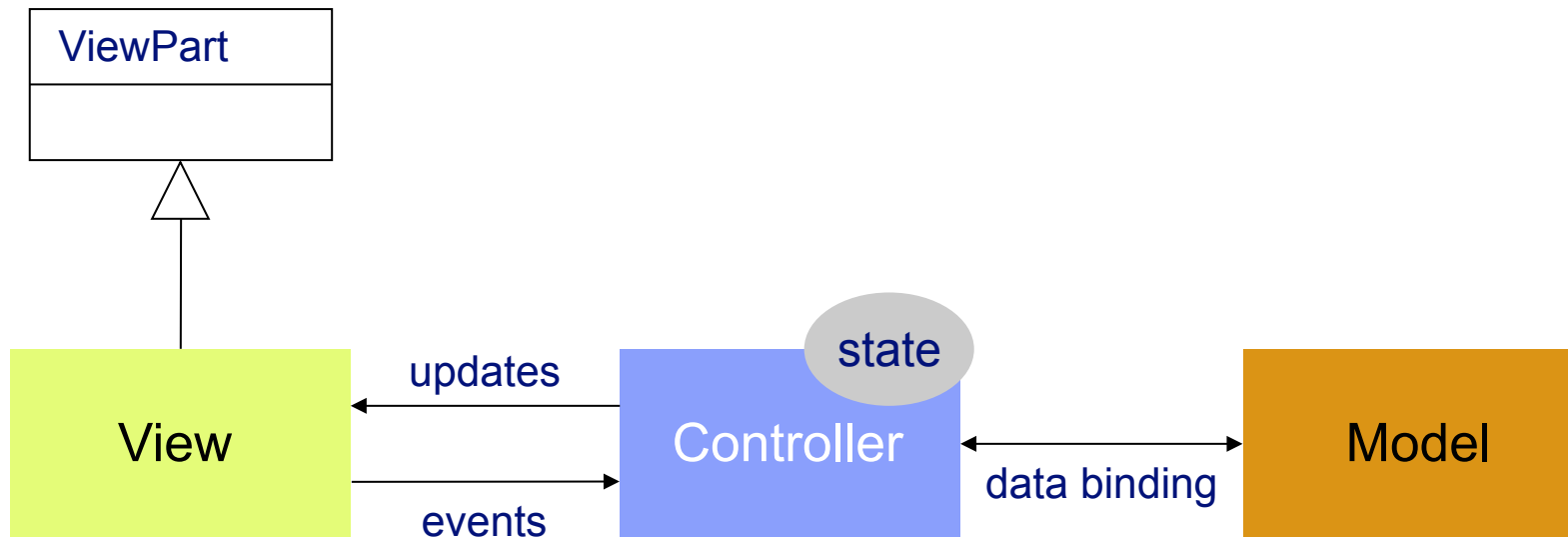


Demo

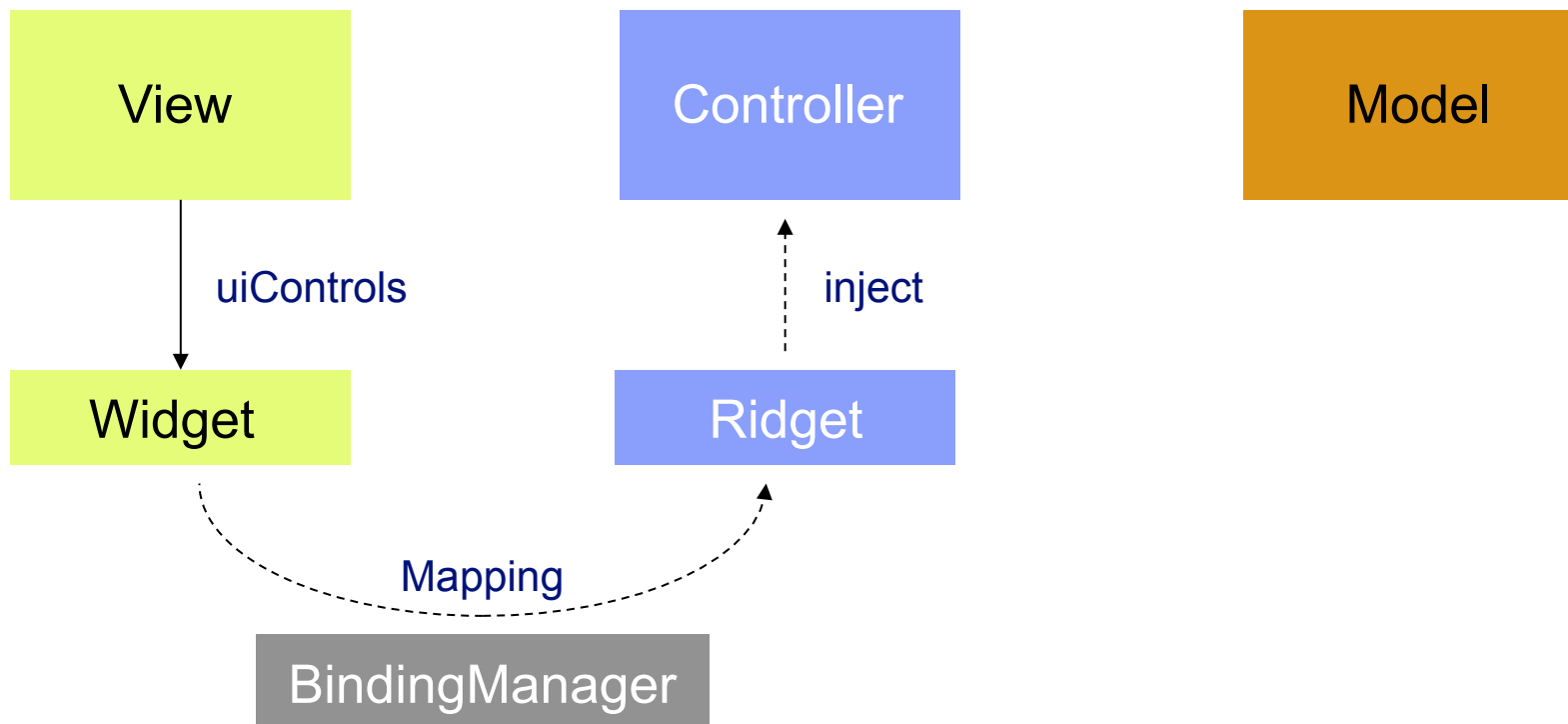


Model • View • Controller

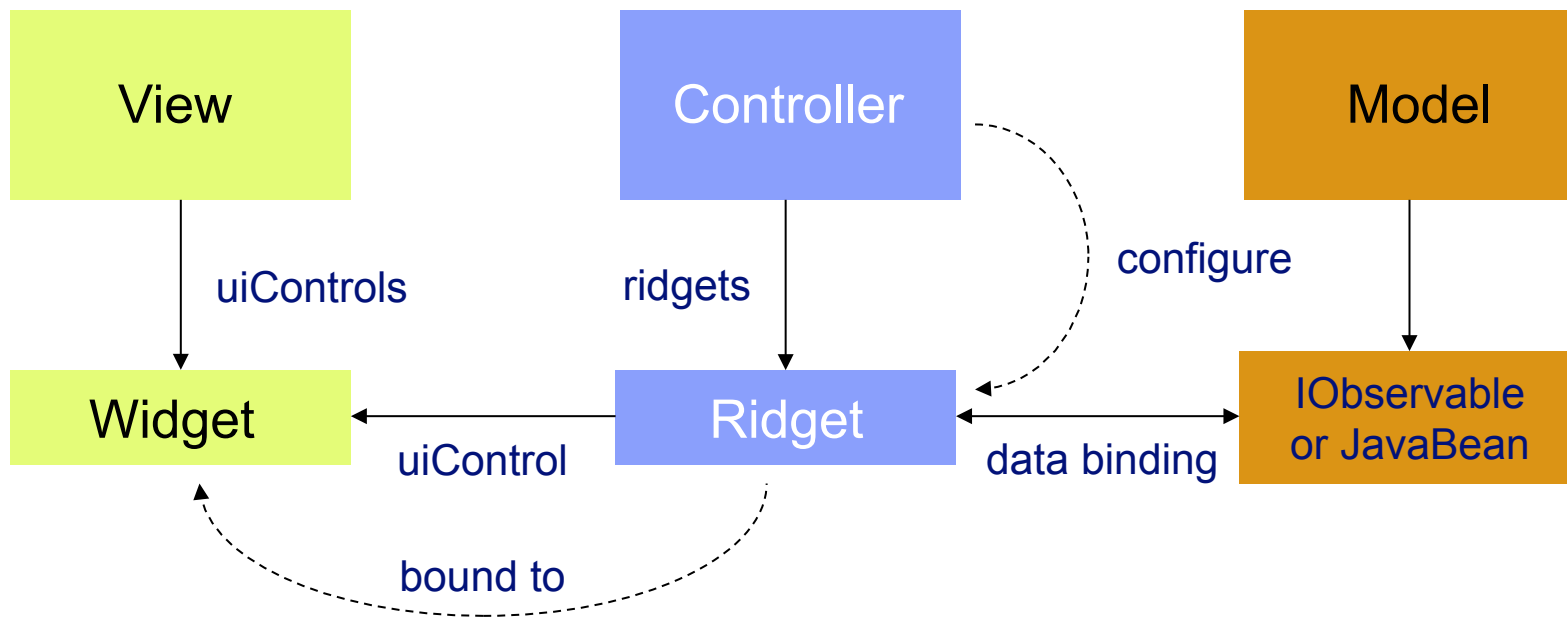
Separation of View and Controller



Riena - Ridgets



Riena - Ridgets



UI Filters

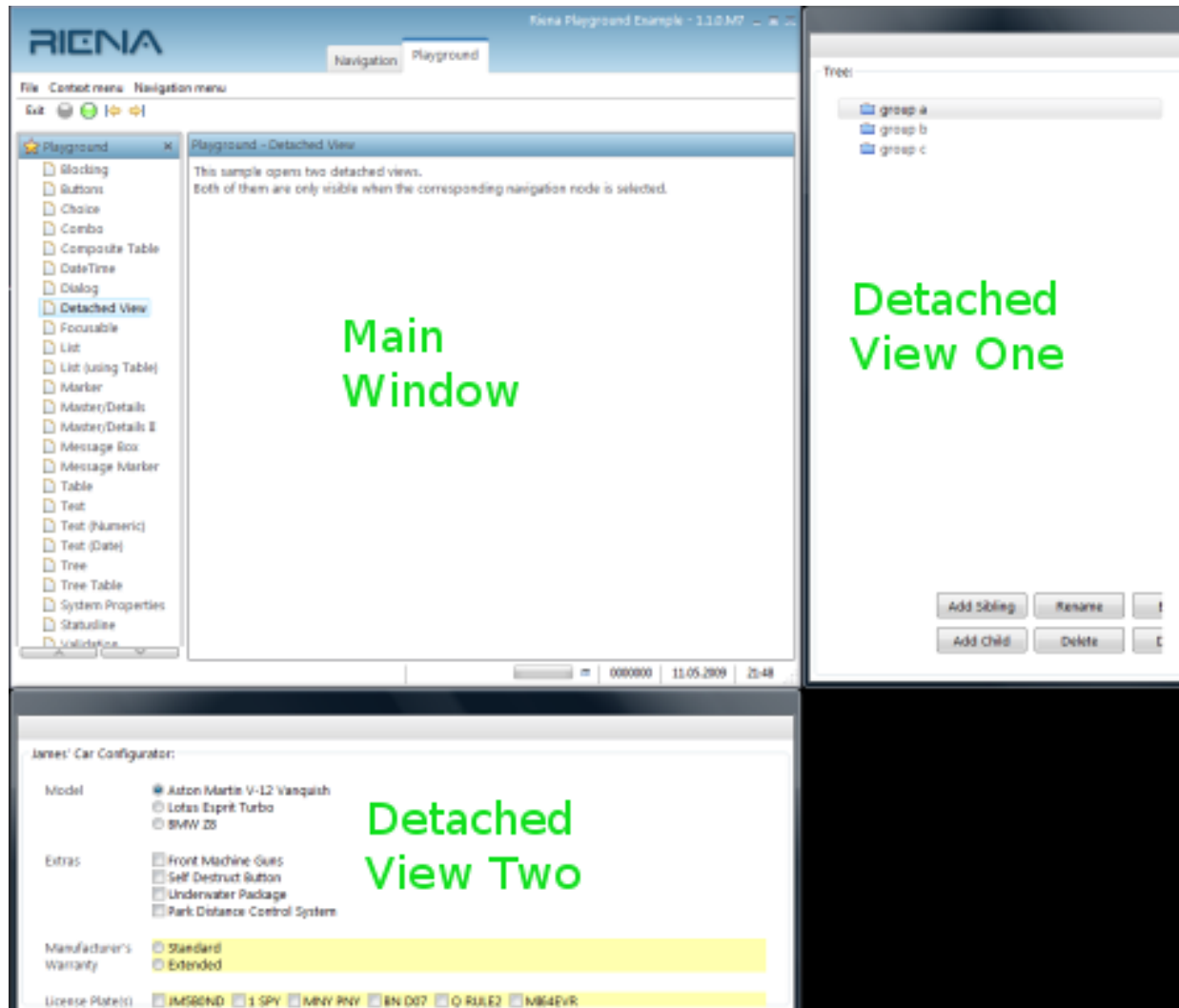


- **Restrict**
 - Ridgets
 - Navigation
 - Validation
- **undoable**
- **accumulate-able**
- **Driven by** (application specific)
 - Permissions
 - Workflow
 - Businessrules

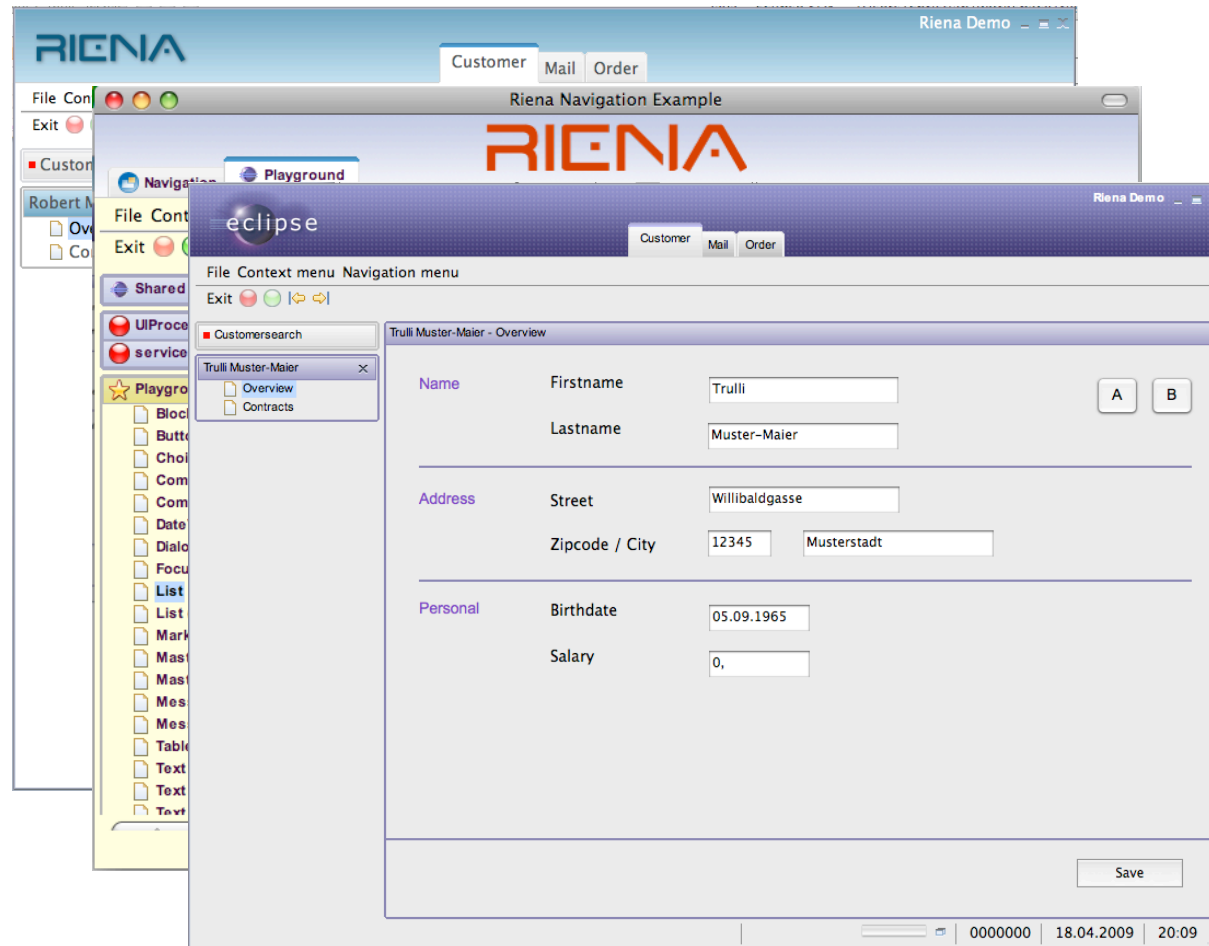


Demo

UI – Detached Views



Riena L&F and Theming



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

Riena UI – Vision - statusquo



DVAG Online-System (Klaus Schultze)

Navigation: PIM, KI

Person: A. Mustermann, Manfred

Stammdaten

Anrede: Herr, Titel: []
Name: Mustermann, Vorname: Manfred
Geburtsname: []
Familienstand: verheiratet, Staatsangehörigkeit: Deutschland
Geburtsdatum: 09.08.1967
Geburtsort: Wiesbaden, Geburtsland: Deutschland
Geschlecht: weiblich / männlich, Persönliche Anrede: Sie / Du, Kind: ja / nein

Betreuung

Betreuung erwünscht: ja, Magazinstellung: []
Bewertung: [], Akte ausblenden: [] für Mitbenutzer: [] aus Struktursicht: []
VB-Nummer: 2695000, VB-Name: Schultze
VM-Nummer: 2695030, VM-Name: Müller
Kundennummer: 10207193, Kundenstatus: Interessent, Erfasst am: 10.06.1999

Person	Anrede	Titel	Name	Vorname	Geburtsdat...	Familiensta...	Bewertung
A	Herr		Mustermann	Manfred	09.08.1967	verheiratet	
B	Frau		Mustermann	Susanne	13.06.1968	verheiratet	
C	Herr		Mustermann	Klaus	30.10.1993	ledig	
D	Frau		Mustermann	Lidia Maria	23.07.1966	ledig	

RIENA (Riena Playground Example - 1.2.0.M1)

Navigation: Navigation, Playground

File, Context menu, Navigation menu

Exit: [] [] [] []

Shared View Demo: []
UIProcess: []
service call progress: []

Playground - Marker

Marker Options: mandatory error disabled output

Visibility Options: hidden hidden parent

UI-Controls:

Name: Chateau Schaedelbrummer
Price: -2.999,00
Amount: 1.001
Production Date: 04.12.2008 04.12.2008
Age: young
Type: red white rose
Flavor: dry sweet sour spicy

Reviewed by: Doe - John, Jackson - Janet, Jackson - Jermaine, Jackson - John, JJ Jr. Shabadoo - Joey, Johnson - Jack

Buttons: Toggle Push Radio A Radio B Check

UI-Filters: []
LogCollector: []

0000000 | 02.07.2009 | 13:43

DVAG Online-System Klaus Schultze

PIM KI

Bearbeiten Werkzeuge Extras Info

Altensuche Neue Akte anlegen Selektionen Dokumenten-Suche

Haushalt - Mustermann, Manfred - Personendaten - Personen

Auswahl Person: A: Mustermann, Manfred

Stammdaten

Anrede: Herr Titel: Name: Mustermann Vorname: Manfred

Geburtsname: Familienstand: verheiratet Staatsangehörigkeit: Deutschland

Geburtsdatum: 09.08.1967 Geburtsort: Wiesbaden Geburtsland: Deutschland

Geschlecht: weiblich männlich Persönliche Anrede: Sie Du Kind: ja nein

Betreuung

Betreuung erwünscht: ja Magazinbestellung

Bewertung: Akte ausblenden: für Mitbenutzer aus Struktursicht

VB-Nummer: 2695000 VB-Name: Schultze

VM-Nummer: 2695030 VM-Name: Müller

Kundennummer: 10207183 Kundenstatus: Interessent Erfasst am: 10.06.1999

Person	Anrede	Titel	Name	Vorname	Geburtsdat...	Familiensta...	Bewertung
A	Herr		Mustermann	Manfred	09.08.1967	verheiratet	
B	Frau		Mustermann	Susanne	13.06.1968	verheiratet	
C	Herr		Mustermann	Klaus	30.10.1993	ledig	
D	Frau		Mustermann	Julia-Maria	23.07.1996	ledig	

Akte speichern

2695000 15.10.2007 09:20



RIENA
Navigation Playground

File Context menu Navigation menu
Exit [Icons]

Shared View Demo x
UIProcess x
service call progress x

Playground x

- Blocking
- Buttons
- Choice
- Combo
- Combo and Choice
- Composite Table
- DateTime
- Dialog
- Detached View
- Focusable
- List
- List (using Table)
- Marker**
- Master/Details
- Master/Details II
- Message Box
- Message Marker
- Table
- Text
- Text (Numeric)
- Text (Date)
- Tree
- Tree Table
- System Properties
- Statusline
- Validation
- View without Cont...

UI-Filters x
LogCollector x

Playground - Marker

Marker Options: mandatory error disabled output

Visibility Options: hidden hidden parent

UI-Controls:

Name: Chateau Schaedelbrummer

Price: -2,999,00

Amount: 1.001

Production Date: 04.12.2008 04.12.2008 [v]

Age: young [v]

Type: red white rose

Flavor: dry sweet sour spicy

Reviewed by:

Last Name	Firs
Doe - John	
Jackson - Janet	
Jackson - Jermaine	
Jackson - John	
JJ Jr. Shabadoo - Joey	
Johnson - Jack	

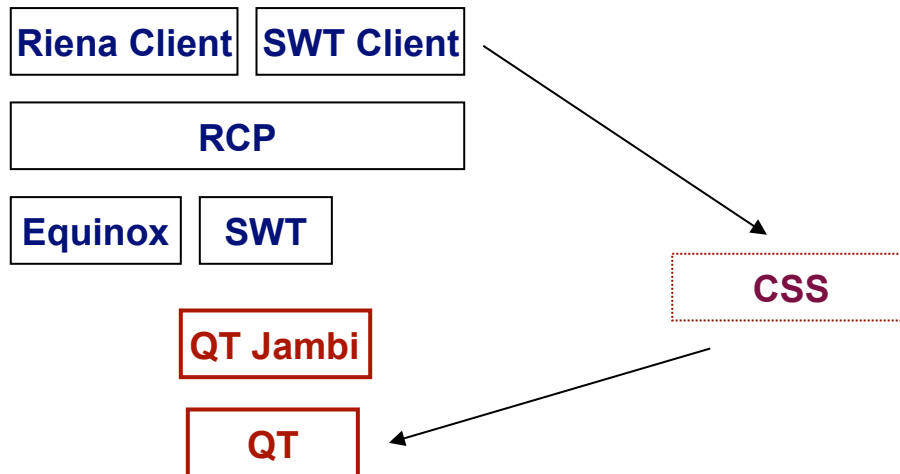
Last Name	Firs
John	Jo
Janet	Ja

Word	#
A	
B	

Buttons: Radio A Radio B Check

0000000 02.07.2009 13:43

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;  
}
```

Experiment - Result



The image displays four side-by-side screenshots of an SWT Demo form, illustrating different visual styles. Each window has a title bar with 'SWT Demo' and standard window controls. The form contains the following fields:

- Vorname**: Text input field.
- Nachname**: Text input field.
- Strasse**: Text input field.
- Geschlecht**: Radio buttons for 'Männlich' and 'Weiblich'.
- Ort**: Text input field with a dropdown menu showing 'Bonn' and a list of countries: Deutschland, Frankreich, Spanien, Italien.
- Land**: Text input field.
- Titel**: A list box with '1' selected, containing 'Dr.', 'Dr. med.', 'Prof.', and 'PhD'.
- Konfession**: A tree view containing 'Christentum', 'Judentum', 'Islam', and 'Hinduismus'.

The styles shown are:

- Default Style**: Standard Windows-style appearance.
- DVAG Style**: A slightly different standard appearance.
- Alternative Style**: A darker, more modern appearance.
- Glossy Style**: A bright blue, glossy appearance with yellow highlights.

A 'Speichern' button is located at the bottom right of the 'Glossy Style' window.

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 simplified 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

Riena



- <http://www.eclipse.org/riena>
- http://wiki.eclipse.org/Riena_Project
- riena-dev@eclipse.org