

# Mobile Eclipse Scout Business Applications

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BSI Business Systems Integration AG



# A little UI Story

# A UI Evolution Story



Once upon  
a time...



# A UI Evolution Story



BSI CRM INTEGRATION - kle

bsi-crm

Standard view My view Reports Marketing Contact Center Human Resources BSI IT Administration

Companies  
Persons  
Businesses  
Tickets  
Communication  
Tasks  
Documents

Last name	First name	Company	Language	Function	Level	Main representative	Phone	Mobile phone	E-mail	ZIP	City
Simpson	Bart		English			Lee, Ken					Springfi
Simpson	Lisa		English			Lee, Ken					Springfi
Simpson	Maggie		English			Lee, Ken					Springfi
Simpson	Marge		English			Lee, Ken					Springfi

Person

Name \* Simpson  
First name Marge  
Company  
Main representative \* Lee, Ken  
 Active  
 No personal contact

Information on person  
Department Title  
Language \* English Job description Housewife  
Salutation \* Ms. Birthdate  
Function / Level

Address Notes Marketing Social media Informationen Documents Changes

Home address  
 Vacation address

Additional name  
Street 742 Evergreen Terrace  
P.O. Box  
City \* Springfield (USA)  
Phone  
Fax  
Mobile phone  
VoIP  
E-mail

Default  Alternative  Mailing

Already exists? OK Cancel

4 objects, 1 selected

Search Simple Detailed Advanced Categories  
Person simpson  
Company  
 Own  
Zip code / city  
Full text

Reset Search

# A UI Evolution Story



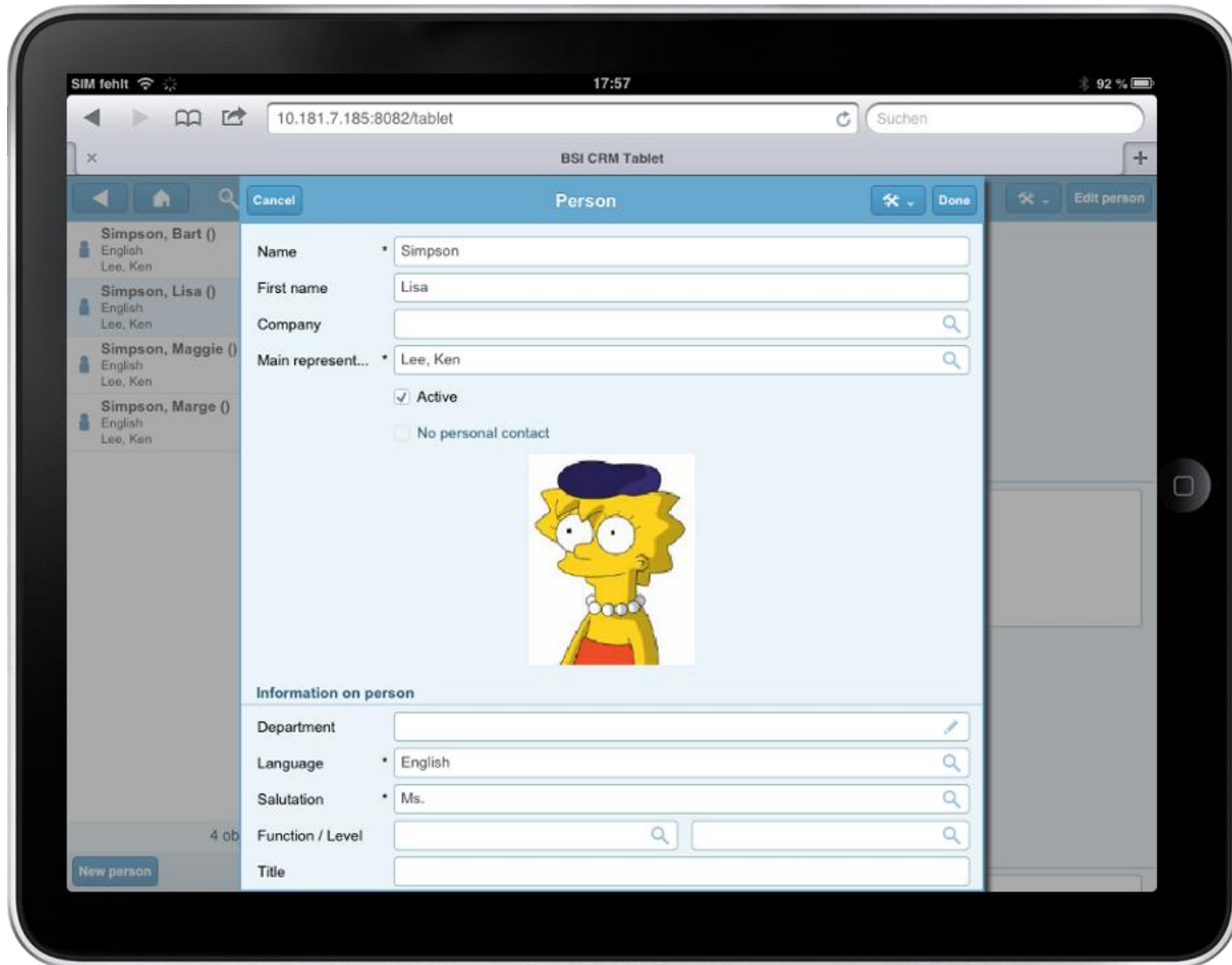
The screenshot displays a CRM application interface with a blue header and a sidebar. The main content area is divided into several sections:

- Navigation Menu (Left):** Includes 'Companies', 'Persons', 'Businesses', 'Tickets', 'Communication', 'Tasks', and 'Documents'.
- Table (Top):** A list of contacts with columns: Last name, First name, Company, Language, Function, Level, Main representative, Phone, Mobile phone, E-mail, and ZIP. The data rows are:

Last name	First name	Company	Language	Function	Level	Main representative	Phone	Mobile phone	E-mail	ZIP
Simpson	Bart		English			Lee, Ken				
Simpson	Lisa		English			Lee, Ken				
Simpson	Maggie		English			Lee, Ken				
Simpson	Marge		English			Lee, Ken				
- Person Detail Form (Center):** A modal window for editing 'Person' records. It includes:
  - Name:** \* Simpson
  - First name:** Bart
  - Company:** [Searchable]
  - Main representative:** \* Lee, Ken
  - Active:**  Active,  No personal contact
  - Information on person:** Department, Title, Language (\* English), Job description (Student), Salutation (\* Mr.), Birthdate, Function / Level.
  - Address:** Home address (checked), Vacation address (unchecked), Additional name, Street (742 Evergreen Terrace), P.O. Box, City (\* Springfield (USA)), Phone, Fax, Mobile phone, VoIP, E-mail.
  - Default:**  Default,  Alternative,  Mailing.
- Search Panel (Right):** A search interface with tabs for 'Simple', 'Detailed', 'Advanced', and 'Categories'. It includes input fields for 'Person' (simpson), 'Company', 'Zip code / city', and 'Full text', along with 'Reset' and 'Search' buttons.

At the bottom left, a status bar indicates '4 objects, 1 selected'. At the bottom right, there are 'OK' and 'Cancel' buttons for the person detail form, and 'Reset' and 'Search' buttons for the search panel.

# A UI Evolution Story



# A UI Evolution Story



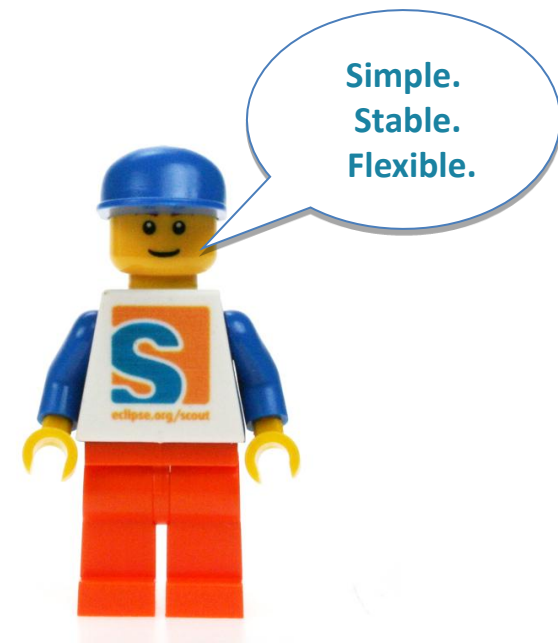
# Eclipse Scout



# What is Scout?



- **Business Applications** framework
- Open-Source **Java/Eclipse** based
- Tooling Support with **Scout SDK**
- **Multi-Frontend** (Desktop, Web, **Mobile**)
- Goals
  - **Boost productivity**
  - **Simple to learn**



# Scout Overview



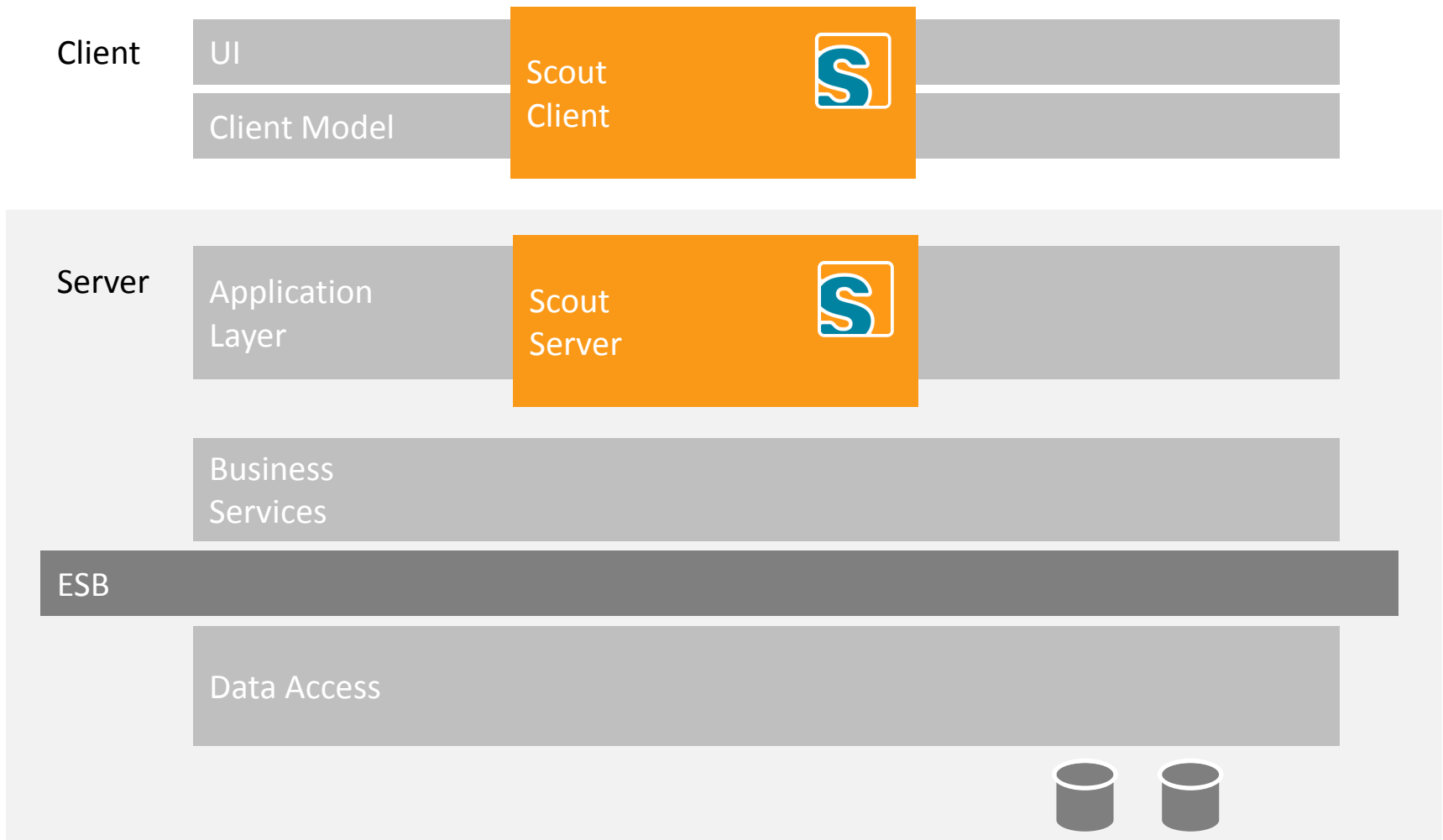
Application

Scout

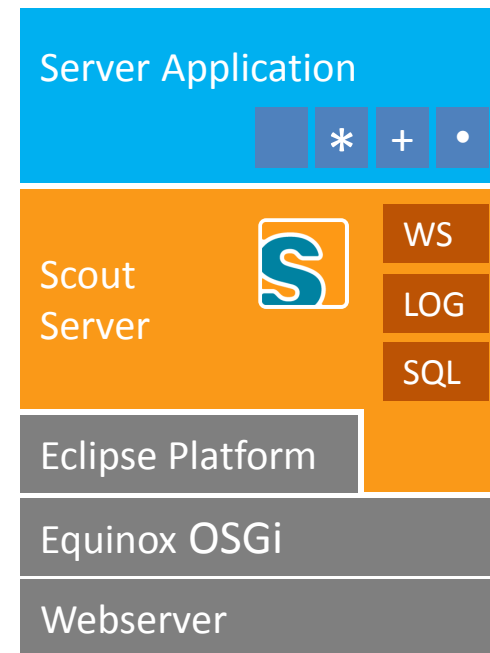
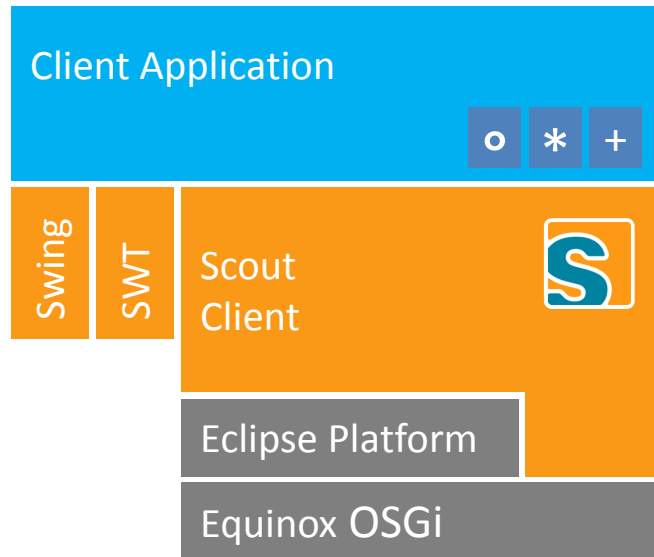


Eclipse

# Integration



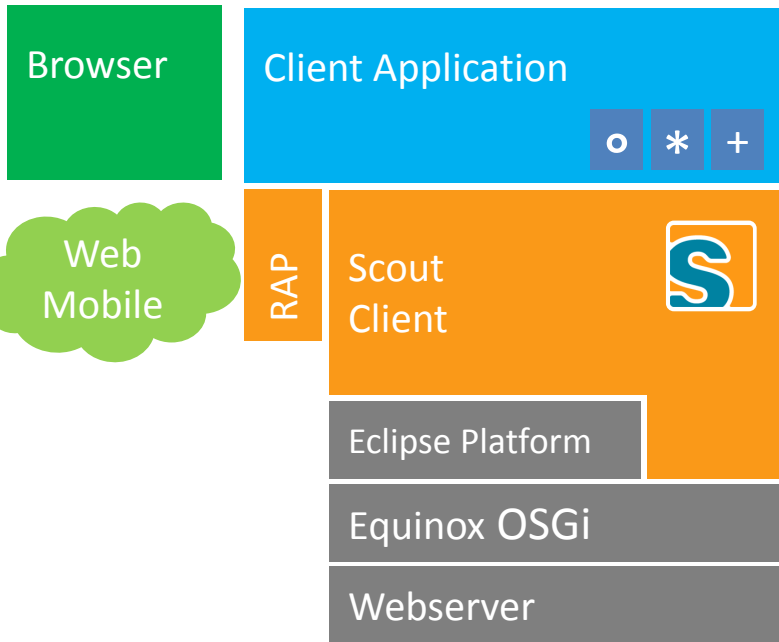
# Client-Server Architecture (Desktop)



# Client-Server Architecture (Web / Mobile)

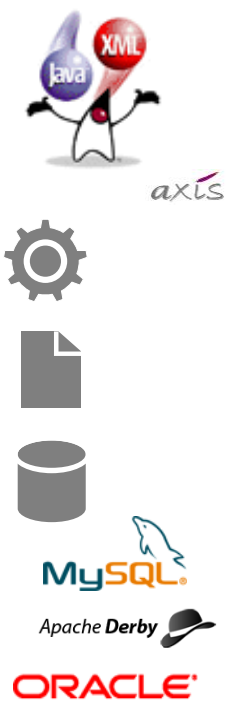
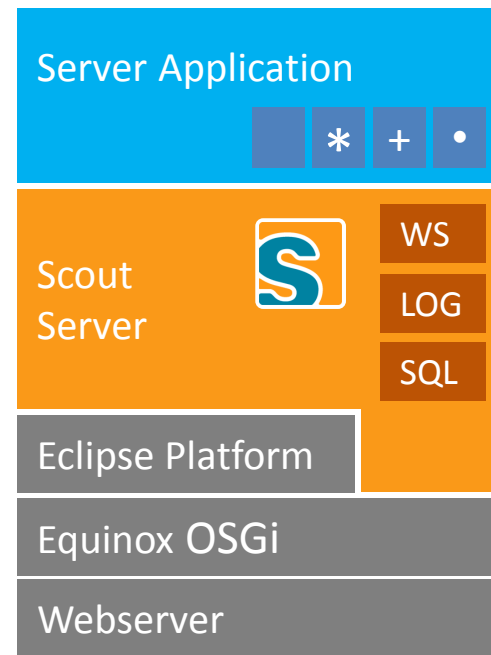


**RAP**  
REMOTE APPLICATION PLATFORM



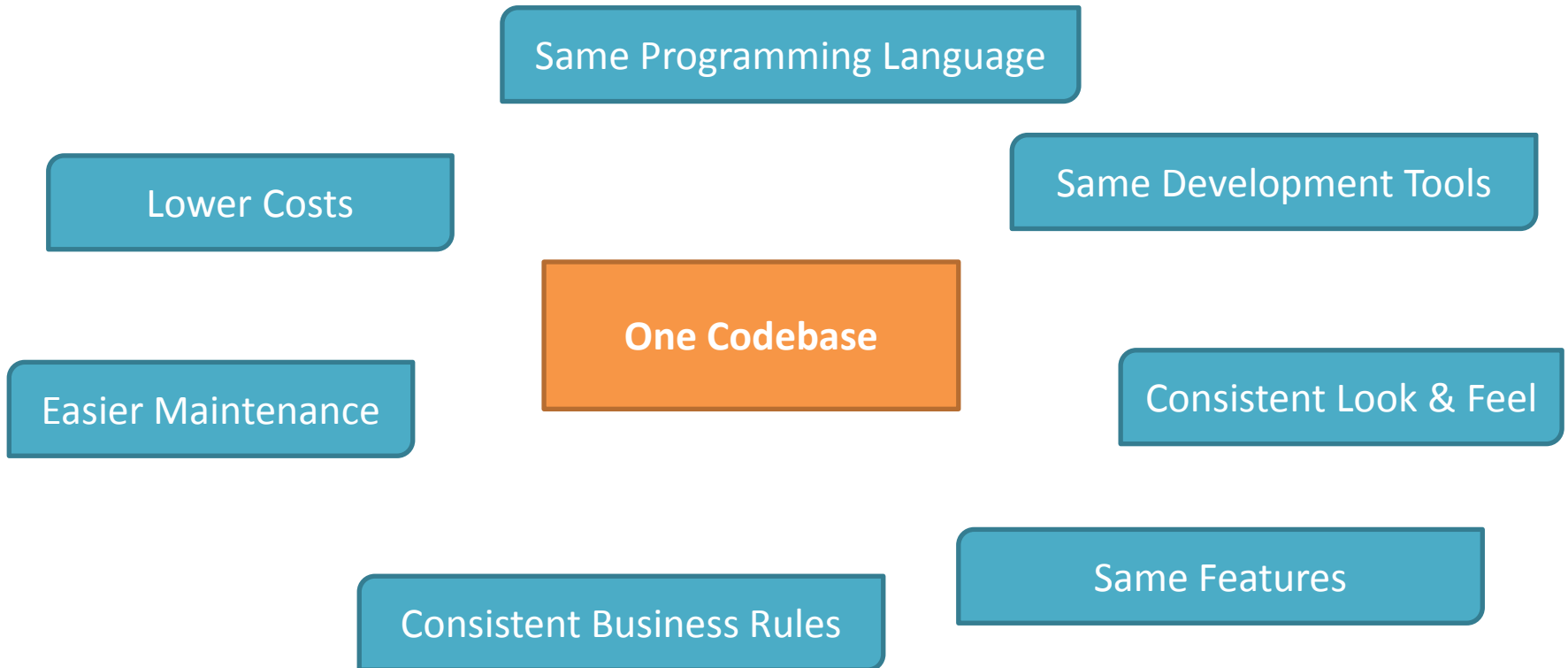
Web  
Mobile

Service  
Tunnel

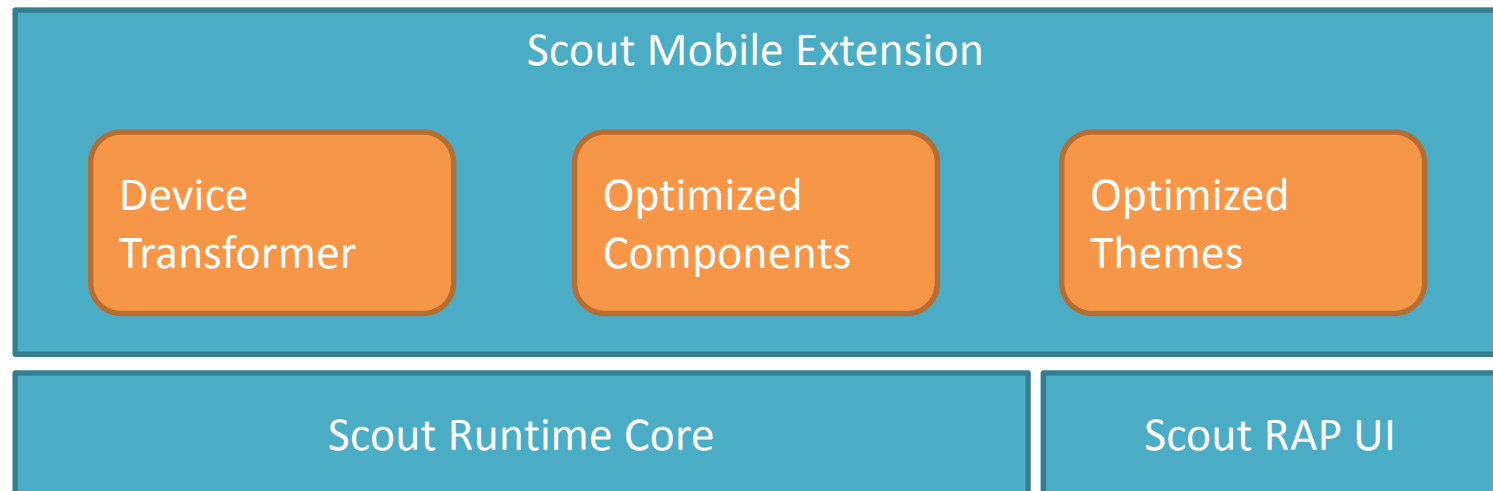


# Mobile UI

# Multi-Frontend with a single Codebase



# Mobile Extension





# Device Transformation



The image illustrates the device transformation of the BSI CRM application. It features three devices: a desktop browser, a smartphone, and a tablet, all displaying the same CRM interface adapted to their respective screen sizes.

**Desktop View:** The browser window shows the URL `https://partner.bsiag.com/int/bsicrm_12_8/web#com.bsiag.crm.client.core.desktop.StandardOutline-Persons`. The navigation menu includes: Companies, Persons, Mandates, Network, Businesses, Marketing, Payments, Tickets, Cases, Communication, and Tasks. The main data table lists persons with the following columns: Last name, First name, Job description, Main representative, City, and Country.

Last name	First name	[+] Job description	Main representative	City	Country
Simpson	Bart	Student	Lee, Ken	Springfield	United States
Simpson	Lisa	Student	Lee, Ken	Springfield	United States
Simpson	Maggie		Lee, Ken	Springfield	United States
Simpson	Marge	Housewife	Lee, Ken	Springfield	United States


**Smartphone View:** The interface is simplified with a vertical list of menu items: Mandates, Network, Businesses, Marketing, Payments, Tickets, Cases, Communication, and Tasks. At the bottom, there are buttons for Call, Send e-mail, Show in Google Maps, and Edit person.


**Tablet View:** The interface is adapted for a larger touch screen, showing a list of menu items on the right side: Mandates, Network, Businesses, Marketing, Payments, Tickets, Cases, Communication, and Tasks. A 'New person' button is visible at the bottom.


# Optimized Components





## Table

Last name	First name ^	Main representative	City	Country
 Simpson	Bart	Lee, Ken	Springfield	United States
 Simpson	Lisa	Lee, Ken	Springfield	United States
 Simpson	Maggie	Lee, Ken	Springfield	United States
 Simpson	Marge	Lee, Ken	Springfield	United States

 **Simpson, Bart ()**  
Student  
Lee, Ken

 **Simpson, Lisa ()**  
Student  
Lee, Ken

 **Simpson, Maggie ()**  
Lee, Ken

 **Simpson, Marge ()**  
Housewife  
Lee, Ken

## Smartfield

- Bulgarian
- Croatian
- Czech
- Dutch
- English
- French
- German
- Greek

Bulgarian

Croatian

Czech

Dutch

English

# Showcase

<http://www.youtube.com/watch?v=pjANvfa-phI>

(shown at EclipseCon Boston 2013)

# Build Mobile Apps

# Scout Mobile in Action



## 1. Create a new Scout Project

**New Scout Project**

**Create a Scout Project**

Create a Scout project in the workspace.  
Enter the name and choose the desired tiers.

Project Name:

Project Postfix:

- org.eclipse.scout.helloworld.ui.rap
- org.eclipse.scout.helloworld.ui.swing
- org.eclipse.scout.helloworld.ui.swt
- org.eclipse.scout.helloworld.dclient
- org.eclipse.scout.helloworld.shared
- org.eclipse.scout.helloworld.server

**Project Properties**

The project alias is used for the servlet name and launcher names.

Project Alias:

Use default Scout JDT preferences

Buttons: Help, < Back, Next >, Finish, Cancel

# Add a Field, Run the App



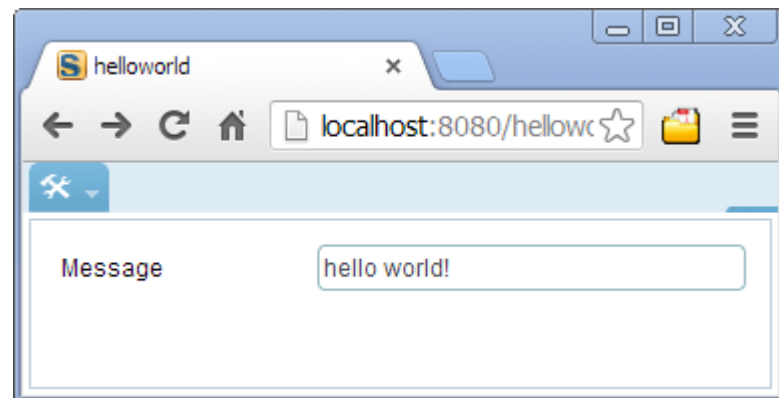
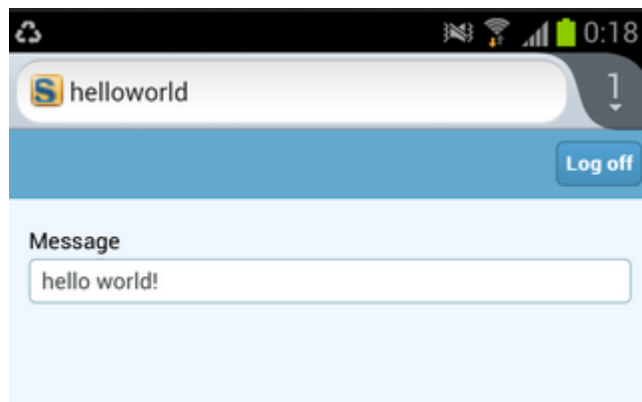
## 2. Implement mobile specific behaviour

Example: Hide a field on mobile devices

```
if (UserAgentUtility.isMobileDevice()) {  
    setVisibleGranted(false);  
}
```

## 3. Use RAP entrypoints

– /web, /mobile, /tablet



# Mobile Development Status



- **Runs productively at BSI**
- **Shipped with Eclipse Scout 3.9 (Kepler M7)**
- **Based on RAP 2.1**
- **Supporting iOS and Android**
  - May run slowly on older phones and browsers
  - Windows Phone support not planned yet

# Summary



# Conclusion



**Thank you!**