

Eclipse Scout 4 Decision Makers

Scout UGM 2016, Ludwigsburg

Agenda

- What is Scout
- Benefits of Scout
- Framework Features
- Two Lessons from the Past
- Take Home Message

What is Scout?

What is Scout?

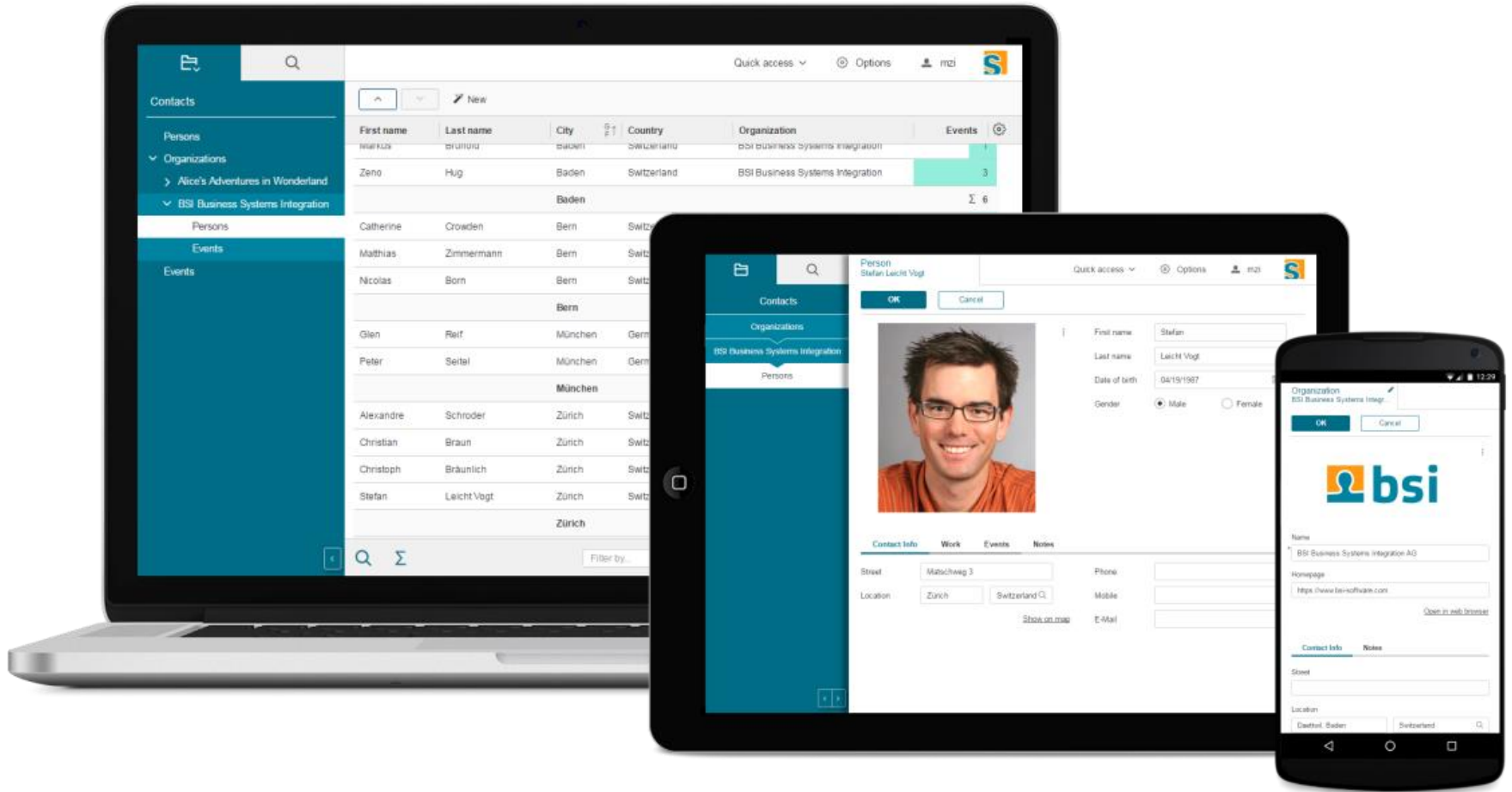
Business Application Framework

- Based on **Java** and **HTML5**
- **Multi Device** support

Framework Goals

- **Long Term** Strategy (enterprise apps live > 10 years)
- Boosts **Productivity** (producing software in Switzerland ...)
- **Easy** to learn (new team members productive in 1-2 weeks)

Eclipse Scout



Scout Benefits

Scout Benefits

- Efficient Development
- Sustainable Investment
- Professional Support
- Open Source



Efficient Development

Scout boosts Productivity

- Covers Communication, Security, Data Binding, Rendering
- Concentration on Business Functionality
- Concentration on User friendly UI



Sustainable Investment

Business Code keeps its Value

- Business Code written against Application Model
- Application Model is technology neutral
- The Framework keeps up with Technologies



Professional Support

Do more in Less Time

- Bug Fixes and Custom Builds on short Notice
- Guaranteed Response Times
- Training and Consulting



Open Source

Benefits of an Eclipse Project

- Free for commercial and personal Use
- World-class IP Management
- Yearly Releases on Time

Scout Features

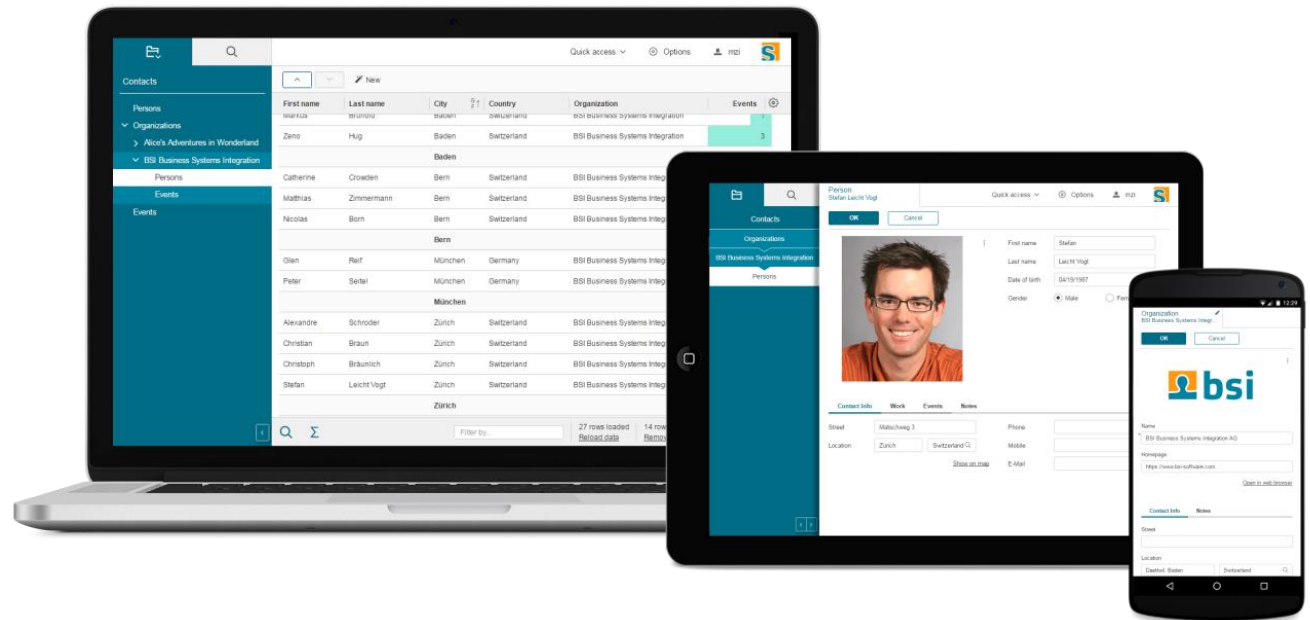
Framework Features

- Multi Device Support
- Modular Applications
- Java Application Model
- HTML5 Rendering

Multi Device Support

Single Code Base

- ➔ Desktop
- ➔ Tablet
- ➔ Mobile



Modular Applications

Clean Modularization

- Layers - Technical Modules
- Slices - Business Modules

Scout Application Model

Java Application Model

- Clean Business Code
- Long Term Maintainability

First name

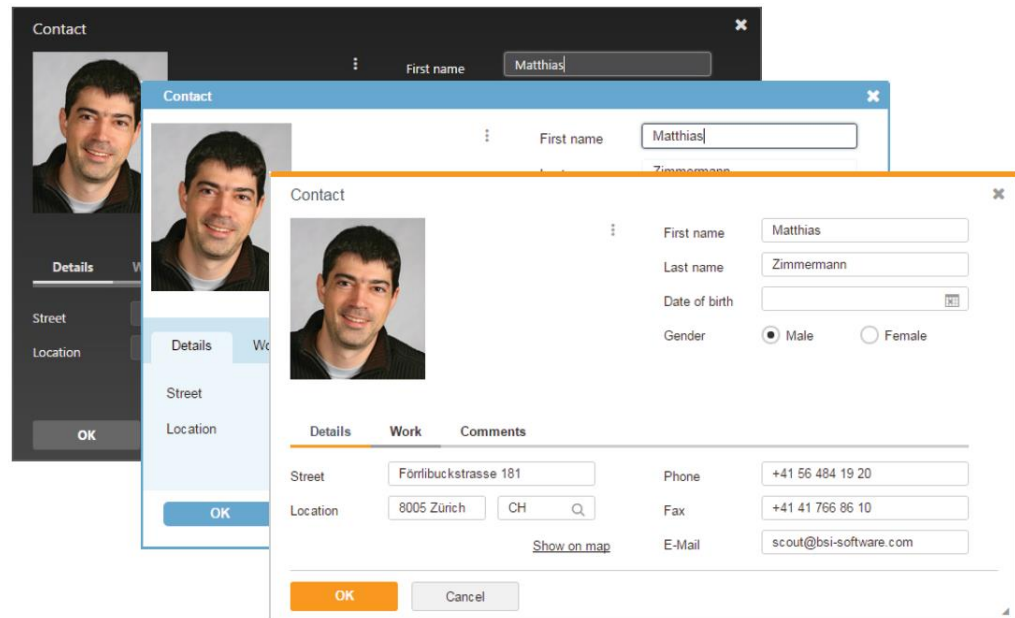
```
@Order(10)
public class FirstNameField extends AbstractStringField {

    @Override
    protected String getConfiguredLabel() {
        return TEXTS.get("FirstName");
    }
}
```


HTML5 Rendering

Current Standards

- HTML5, CSS3, JavaScript
- Styling and Theming



2 Lessons for the Future

Two Lessons for the Future

1. UI Technologies are «short-lived»
2. Scout Code is maintainable

UI Technologies are «short-lived»

Scout UI Technologies

- 2002 Swing
- 2006 SWT
- 2011 RAP
- 2015 HTML5

Substantial Framework Efforts

New UI Technology every 4 years

Minor Project Efforts

Usually < 3% of Project Codebase affected

JavaServer Fac...
Thema

Google Web To...
Software

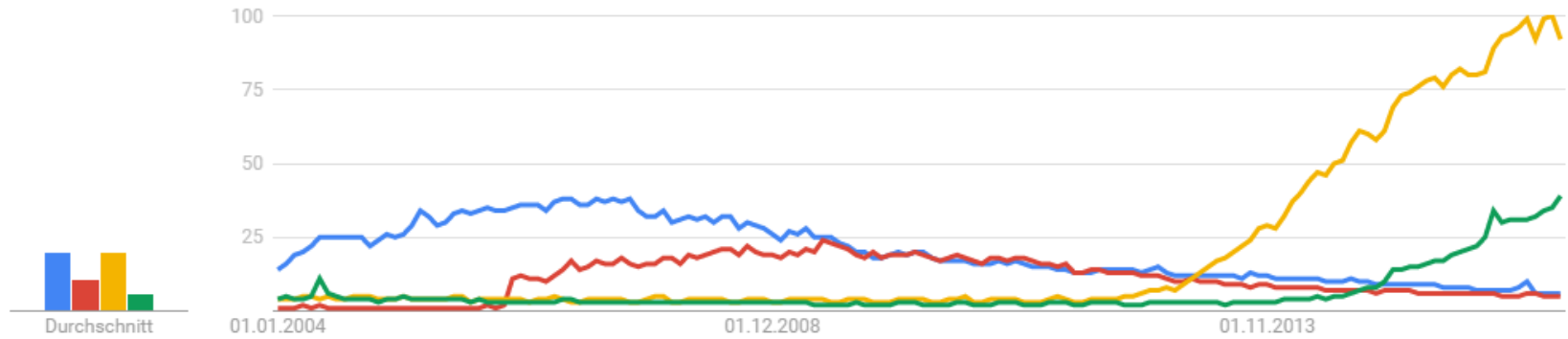
AngularJS
Software

React
JavaScript



Weltweit 2004 - heute Alle Kategorien Websuche

Interesse im zeitlichen Verlauf



«Today's Trend is tomorrow's Legacy»

UI Dos and Don'ts

Don'ts

- Don't mix UI Technology and business code
- Don't «marry» specific UI Technologies

Dos

- Think long Term
- Abstract UI Technologies
- Use a Framework like Scout that enforces this Abstraction

Scout Code is Maintainable

Example: BSI CRM

- Based on Scout since 1999
- Scout defines an Application Model
- CRM is based on this Model
- CRM UI over the years ...

... 1999



... 2002

The screenshot shows the 'ors X' application window. The title bar reads 'ors X'. The menu bar includes 'Datei' and 'Extras'. Below the menu bar is a toolbar with icons for 'Standardsicht', 'Eigene Sicht', 'Mgmt Reports', 'Marketing', 'Intern', and 'Stammdaten'. The main area is divided into a sidebar on the left and a main content area on the right. The sidebar shows a tree view under 'Schmidt, Daniel (BSI BADEN)' with categories like 'Firmen', 'Projekte', 'Beziehungen', 'Budget', 'Buchungen', 'Reservationen', 'Menu', 'Kurse', 'Standardverteiler', 'Kontakte', and 'Pendenzen'. The main content area displays a table with columns: 'Kennwort', 'Termin', 'Erledigt am', 'Verantwortlich', 'Projekt', 'Firma', 'Kontaktperson', and 'Telefon'. A single row is visible with the following data: 'unterlagen bsi und projektsteuerung in orsZi', '20.07.2004', 'Schmidt, Daniel', and 'ARXES Arndt, Detlef +49 30'. Below the table is a 'Details' form with fields for 'Kennwort', 'Termin von' (with a calendar icon), 'bis' (with a calendar icon), 'Erledigt am von' (with a calendar icon), 'bis' (with a calendar icon), 'Verantwortlich', and 'Registriert von'. To the right of these fields is a 'Pendenztyp' dropdown menu and two checkboxes: 'Nur hohe Priorität' (unchecked), 'Offene' (checked), and 'Erledigte' (checked). At the bottom of the details form are buttons for 'Details', 'Firmen und Per...', 'Projekt', 'Sonderabfrage', 'Zurücksetzen', and 'Suche'. The status bar at the bottom left shows '1 Datensatz'.

Kennwort	Termin	Erledigt am	Verantwortlich	Projekt	Firma	Kontaktperson	Telefon
unterlagen bsi und projektsteuerung in orsZi	20.07.2004		Schmidt, Daniel		ARXES	Arndt, Detlef	+49 30

Details

Kennwort:

Termin von: bis:

Erledigt am von: bis:

Verantwortlich:

Registriert von:

Pendenztyp:

Nur hohe Priorität

Offene

Erledigte

Buttons: Details, Firmen und Per..., Projekt, Sonderabfrage, Zurücksetzen, Suche

Status: 1 Datensatz

... 2005

The screenshot shows a Java application window titled "BSI: BSI AG". The interface includes a menu bar (Datei, Extras, Favoriten, 7 - Sample Menu), a toolbar with navigation buttons (Zurück, Vor), and a menu (Standardansicht, Eigene Sicht, Reports, OPM, Marketing, Inlein, Administration). A tree view on the left shows a hierarchy of "Firmen" (BSI BA, BSI BADEN, BSI USA, BSI ZUG) and "Projekt" (Anspruchspartner, Mandate, Konzepte, Marketing, etc.). The main area displays a table of company data:

Firmenkurzname	Firmenname	Firmen-Nr.	Telefon	PLZ	Ort	Land	Region	Branche
BA BSI	Signalling	257	0046 9 691 9501	12096	Stockholm	Schweden	Europa	Industrie
BSI BADEN	BSI Business Systems Integ...	1	055 484 19 20	5405	Dakwei AG	Schweiz	Europa	Informatk.
BSI USA	BSI Business Systems Integ...	583	+1 308 252 0300	NJ 088...	Somerville	U.S.A.	Arnerika	Informatk.
BSI ZUG	BSI Business Systems Integ...	2	055 484 19 20	6340	Basar	Schweiz	Europa	Informatk.

Overlaid on the application are several branding elements: the Eclipse IDE logo (a red flame over a blue cup), the Eclipse 3.0 logo with the text "THE ECLIPSE PROJECT", the Java logo, and the XML logo (<xml />). A "Firmen suchen" dialog box is also visible at the bottom, with fields for "Firma", "Firmenkurzname", "Firmenname", "Firmen-Nr.", "Hauptbetriebs", "Region", "Rating", "Sprache", "Konzernstruktur", and "Installierte Basis". It includes checkboxes for "aktive Firmen" and "inaktive Firmen", and buttons for "Suche" and "Zurücksetzen".

... 2007

The screenshot shows a web-based CRM application titled "BSI CRM". The interface includes a menu bar with "Datei", "Extras", "Prozesse", and "Favoriten". A secondary navigation bar contains icons for "Standardsicht", "Eigene Sicht", "Reports", "CPM", "Marketing", "Contact Center", "Human Resources", "Administration", and "Schnittstellen".

The main content area is divided into three sections:

- Contact Center:** A tree view on the left showing categories like "Geschäftsvorfälle", "Alle", "Eigene", "<Nicht identifiziert>", "Hug, Daniel (I-SOLUTIONS)", "Eskalierter", "Know-How", "Virtuelle Teams", "Prozessverwaltung", and "Statistiken".
- Prozess wählen - 11.04.09 11:25:** A central area with a "Detail" form containing input fields for "Nachname", "Vorname", "PLZ", and "Ort".
- Process Flow:** A vertical list of steps on the right: "1 Person wählen" (highlighted in orange), "2 Kundenübersicht", "3 Kundenidentifikation", "4 Prozess wählen", and "5 Prozessschritte unbekannt".

A large dialog box is overlaid in the center, featuring the Java logo on the left and the Eclipse Galileo logo on the right. The Eclipse logo includes the text "eclipse GALILEO" and a copyright notice: "(c) Copyright Eclipse contributors and others, 2000, 2009. All rights reserved. Java and all Java-related trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. or other countries, or both. Eclipse is a trademark of the Eclipse Foundation, Inc."

At the bottom of the application, there are buttons for "Telefon", "Abbrechen", "Weiter", and "Abschliessen".

Eclipse Scout 2011

The screenshot displays the Eclipse Scout 2011 web application interface. The main content area shows a table of contact information with the following columns: Name, Given name, Language, Main account manager, Phone, Mobile phone, and E-mail. The table lists several contacts, including Fleseriu, Frei, Funk, and others. A central overlay features the logos for Scout (a stylized 'S' in orange and blue), Java (the Java logo with a red flame), and Eclipse (the Eclipse logo with a blue sphere).

Name	Given name	Language	Main account manager	Phone	Mobile phone	E-mail
Fleseriu	Gabriel	Deutsch	Pedersen, Morten	+41 (56) 484 1...	+41 (79) 321 ...	gabriel.fleseriu@bsiag.com
Frei	Pascale	Deutsch	Isler, Claudia	+41 (56) 484 1...	+41 (79) 474 ...	pascale.frei@bsiag.com
Funk	Uwe	Deutsch	Pedersen, Morten	+41 (56) 484 1...	+41 (78) 920 ...	uwe.funk@bsiag.com
Geissmann	Matthias	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	matthias.geissmann@bsiag.com
Gerhard	Lavd	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	lavd.gerhard@bsiag.com
Guglielmo	Laudio	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	laudio.guglielmo@bsiag.com
Hansen	Anders	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	anders.hansen@bsiag.com
Heymanns	Volger	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	volger.heymanns@bsiag.com
Hilpert	Justav	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	justav.hilpert@bsiag.com
Hitz	Oger	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	oger.hitz@bsiag.com
Hochuli	Nuriel	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	nuriel.hochuli@bsiag.com
Hoegger	Andreas	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	andreas.hoegger@bsiag.com
Huber	Mark	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	mark.huber@bsiag.com
Hug	Eno	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	eno.hug@bsiag.com
Huws	Simon	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	ion.huws@bsiag.com
Isler	Laudia	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	laudia.isler@bsiag.com
Kirn	Revin	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	evin.kirn@bsiag.com
Koeflerli	Bruno	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	bruno.koeflerli@bsiag.com
Kristiansen	Sigrid	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 388 ...	sigrid.kristiansen@bsiag.com
Kristiansen	Ulrik	Deutsch	Reichlin, Benedikt	+41 (56) 484 1...	+41 (79) 433 ...	ulrik.kristiansen@bsiag.com
Leicht	Stephan	Deutsch	Seitel, Peter	+41 (56) 484 1...	+41 (79) 388 ...	stephan.leicht@bsiag.com
Lenz	Alberto	Deutsch	Rusche, Christian	+41 (56) 484 1...	+41 (79) 400 ...	alberto@lenz.net
Meer	Astrid	Deutsch	Schöb, Benjamin	+41 (56) 484 1...	+41 (79) 388 ...	astrid.meer@bsiag.com
Merkli	Stephan	Deutsch	Moser, Samuel	+41 (56) 484 1...	+41 (79) 388 ...	stephan.merkli@bsiag.com
Mittmann	Johannes Max	Deutsch	Nielsen, Jan Klint	+41 (56) 484 1...	+41 (79) 388 ...	max.mittmann@bsiag.com
Mortasawi	Mazda	Deutsch	Moser, Samuel	+41 (56) 484 1...	+41 (76) 435 ...	mazda.mortasawi@bsiag.com
Moser	Adrian	Deutsch	Reichlin, Benedikt	+41 (41) 766 8...	+41 (79) 388 ...	adrian.moser@bsiag.com
Moser	Samuel	Deutsch	Rusche, Christian	+41 (56) 484 1...	+41 (79) 388 ...	samuel.moser@bsiag.com

Eclipse Scout 2012

The screenshot displays the Eclipse Scout 2012 web application interface. The browser address bar shows the URL: [https://services.bsiag.com/bsicrm/web#com.bsiag.crm.client.core.desktop.PersonalOutline-Zimmermann-Matthias-\(BSI-Z%3%9CRICH\)-Persons-Leicht-Vogt-Stephan-\(BSI-BADEN\)](https://services.bsiag.com/bsicrm/web#com.bsiag.crm.client.core.desktop.PersonalOutline-Zimmermann-Matthias-(BSI-Z%3%9CRICH)-Persons-Leicht-Vogt-Stephan-(BSI-BADEN)). The main content area shows a 'Person' profile for 'Leicht Vogt, Stephan' from 'BSI BADEN'. A modal dialog is overlaid on the profile, featuring the logos for Scout (a stylized 'S' in orange and blue), Java (the red Java logo), RAP (Rich Ajax Platform), and Eclipse. The dialog also contains a 'Person' form with fields for Name, First name, Company, and Main representative, along with an 'Active' checkbox. At the bottom of the dialog, there are 'OK' and 'Cancel' buttons. The background shows a navigation tree on the left and a list of tasks on the right.

Person

Name Leicht Vogt

First name Stephan

Company BSI BADEN

Main representative Seitel, Peter (BSI BADEN)

Active

Inform

Depa

Lang

Salut

Func

*Add

VoIP

E-mail stephan.leichtvogt@bsiag.com

Already exists?

OK Cancel

Open as Graphic Open as PDF

Organic Hierarchical Orthogonal 1 2 3 5 10

Eclipse Scout 2015/16

The screenshot displays the Eclipse Scout CRM interface. The browser address bar shows the URL <https://services.bsi-software.com/bsicrm/>. The interface is divided into several sections:

- Left Navigation Panel:** A dark teal sidebar with a search icon and a list of categories: **Daten**, **Firmen**, **Personen**, **Aufträge**, **Tickets**, **Geschäftsvorfälle**, **Kommunikationen**, **Aufgaben**, and **Dokumente**. The **Personen** section is expanded to show **Stephan Leicht Vogt (BSI BADEN)**, which is further expanded to show **BSI BADEN (Ansprechpartner)**, **Firmen**, **Betreuung**, **Netzwerk**, **Aufträge**, **Marketing**, **Zahlungen**, **Tickets**, **Geschäftsvorfälle**, **Kommunikationen**, and **Aufgaben**.
- Header:** Shows the current user **Matthias Zimmermann** and the current view **Person** for **Stephan Leicht Vogt (BSI BA...)**. There are buttons for **Assistent**, **Telefon**, and **Speichern**.
- Main Content Area:** Displays the profile for **Firma ECLIPSE FOUNDATION**. The **Speichern** button is highlighted. The form fields are:
 - Kurzname:** * ECLIPSE FOUNDATION
 - Name 1:** * Eclipse Foundation Inc.
 - Name 2:**
 - Nummer:**
 - Sprache:**
 - Rating:**A large image overlay shows the Eclipse logo and logos for **HTML**, **CSS**, **JS**, and **Java**. Below the image, there are tabs for **Adressen**, **Bemerkungen**, **Informationen**, **Marketing**, **Finanzielle Daten**, **Dokumente**, and **Anderungen**.
- Contact Information:**
 - Fax:** +1 (613) 224-5172
 - E-Mail:** info@eclipse.org
 - Website:** www.eclipse.org
 - Anschrift:** Eclipse Foundation Inc., 102 Centrepoin Drive, Ottawa, Ontario, K2G 6B1
- Address Fields:** **Adresszusatz 1**, **Adresszusatz 2**, **102 Centrepoin Drive**, **Postfachbezeichnung**, **Postfachnummer**, **CA**, **K2G 6B1**, **Ottawa**.

Scout Code is Maintainable

Example: BSI CRM

- Based on Scout since 1999
- Scout defines an Application Model
- BSI CRM is based on this Model

Observations

- CRM Code was never thrown away
- Migrations from Tech-Stack to Tech-Stack
- Scout had a big Part in this

Take Home Message

Scout is good for Business Applications

- Scout moves with current Technologies
- Robust, proven in Practice for many Years
- Business Code keeps its Value
 - Written against Scout model
 - Remains technology neutral

Thanks

@EclipseScout