



@EclipseScout Tutorial

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Matthias Villiger
Judith Gull

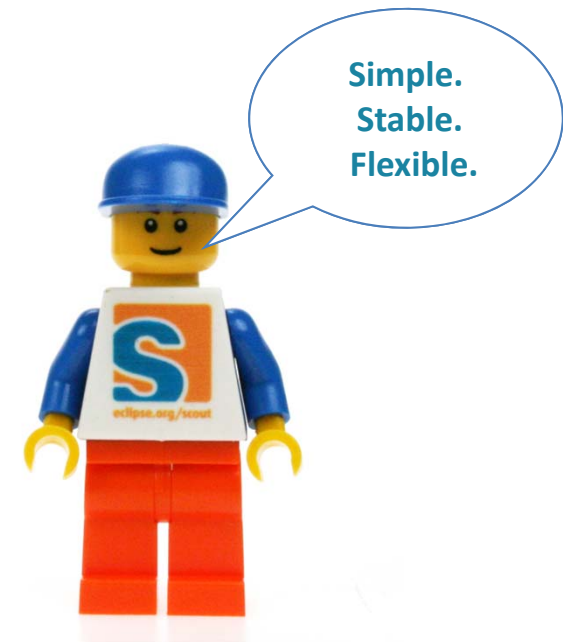
Eclipse Con Europe 2012



What is Scout?



- Open Source **Java/Eclipse** Client Framework
- Designed for **Business Applications**
- **Multi Frontend** (Desktop, Web, Mobile)

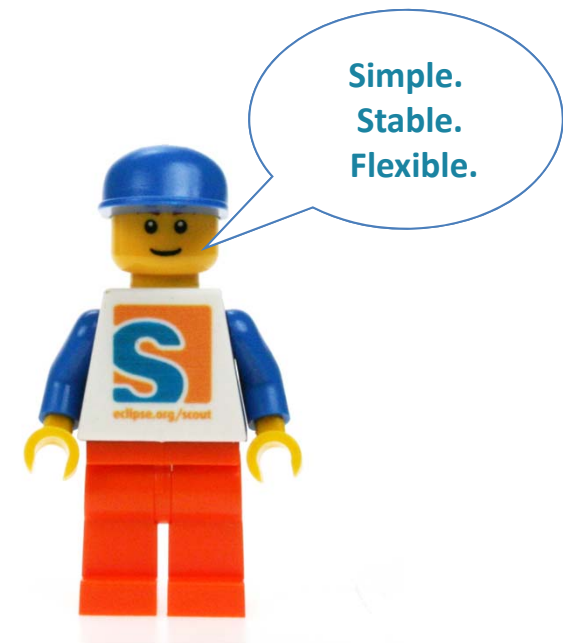


What is Scout?



- Open Source **Java/Eclipse** Client Framework
- Designed for **Business Applications**
- **Multi Frontend** (Desktop, Web, Mobile)

Boost productivity
Simple to learn



History



Scout „birth“

Scout based on Eclipse

Eclipse Scout 3.7.0

Eclipse Scout 3.8.0

Eclipse Scout 3.9.0

1999

2004

2007

2011

2012

2013

Eclipse „birth“

Eclipse Foundation

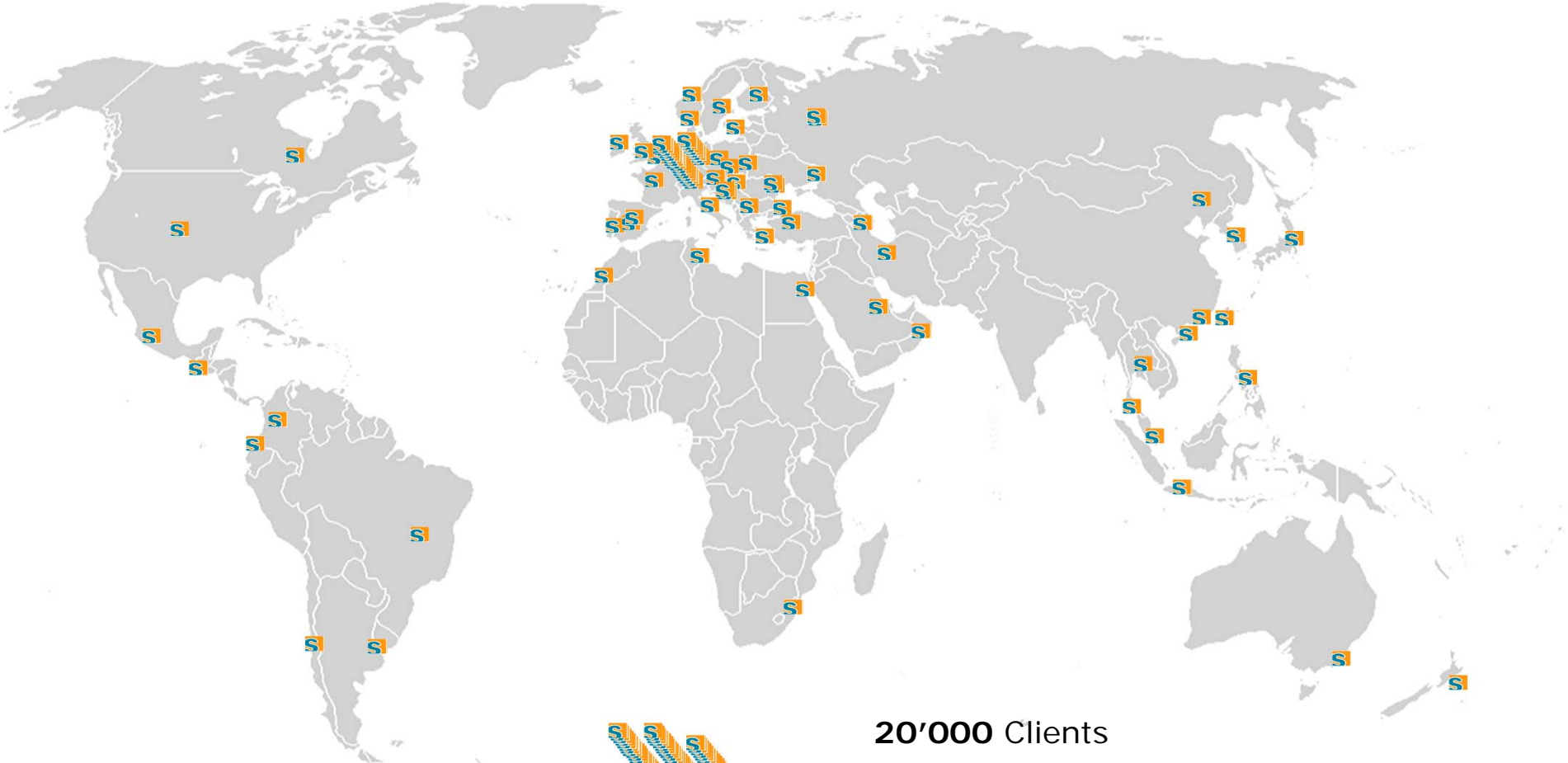
Eclipse Indigo

Eclipse Juno

Eclipse Kepler



Deployments



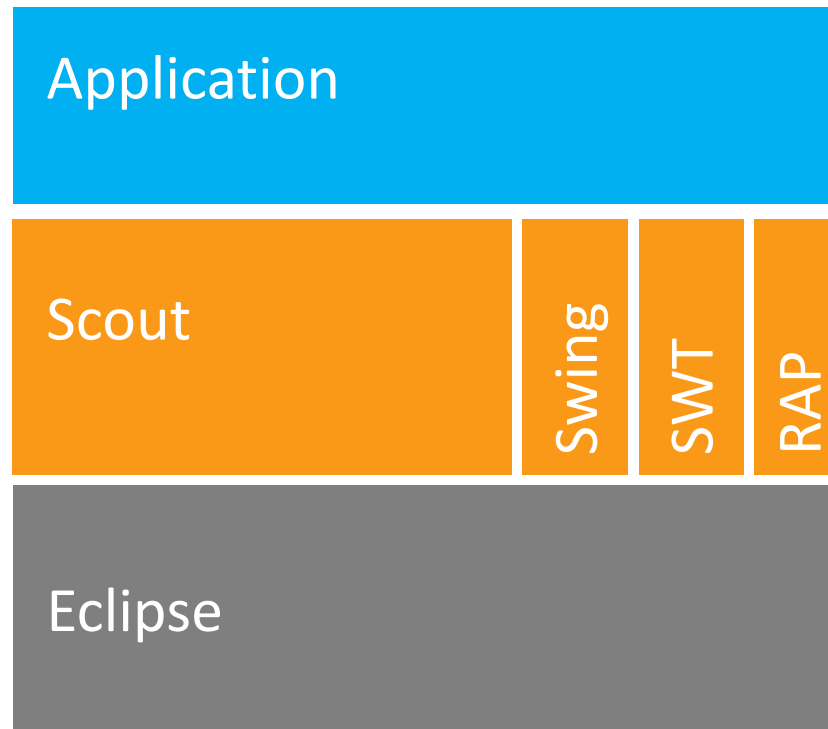
20'000 Clients
60 Countries
16 Languages



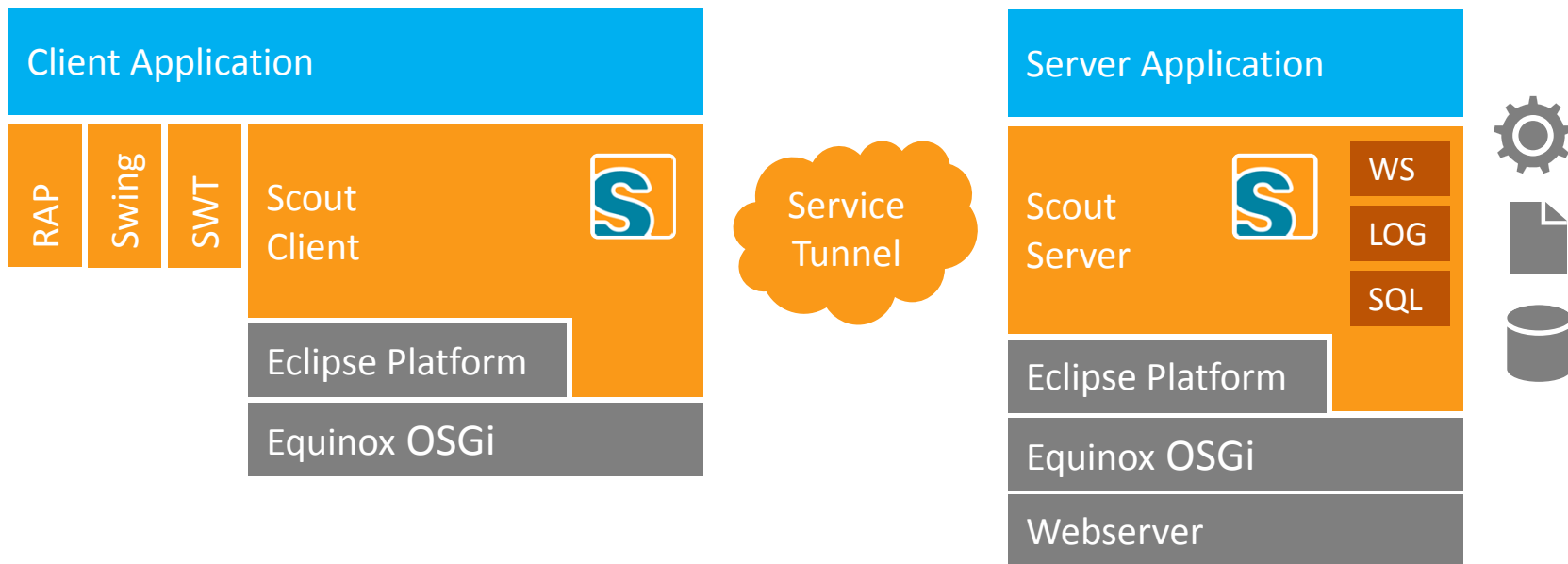
What is a Scout App?



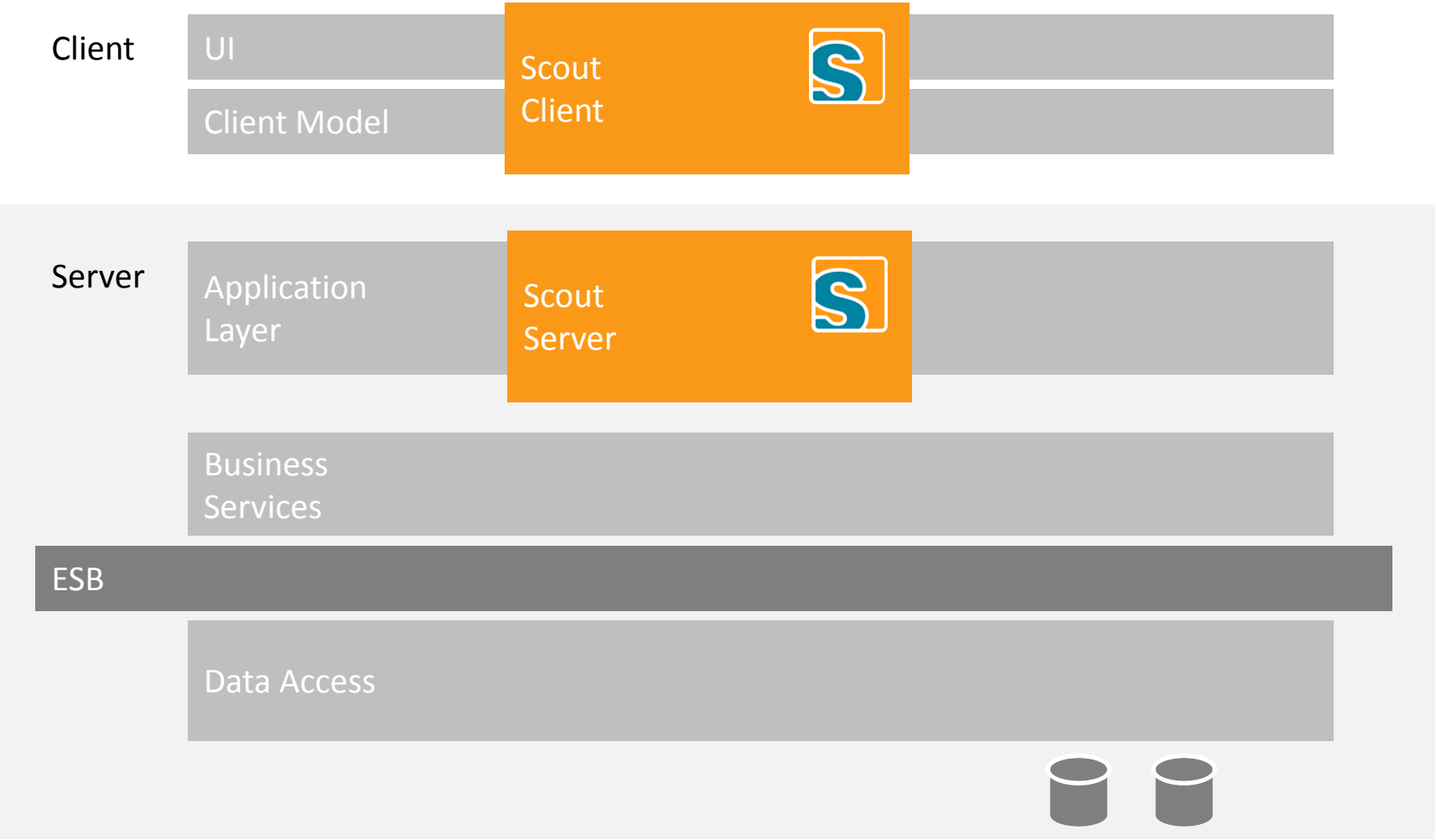
Overview



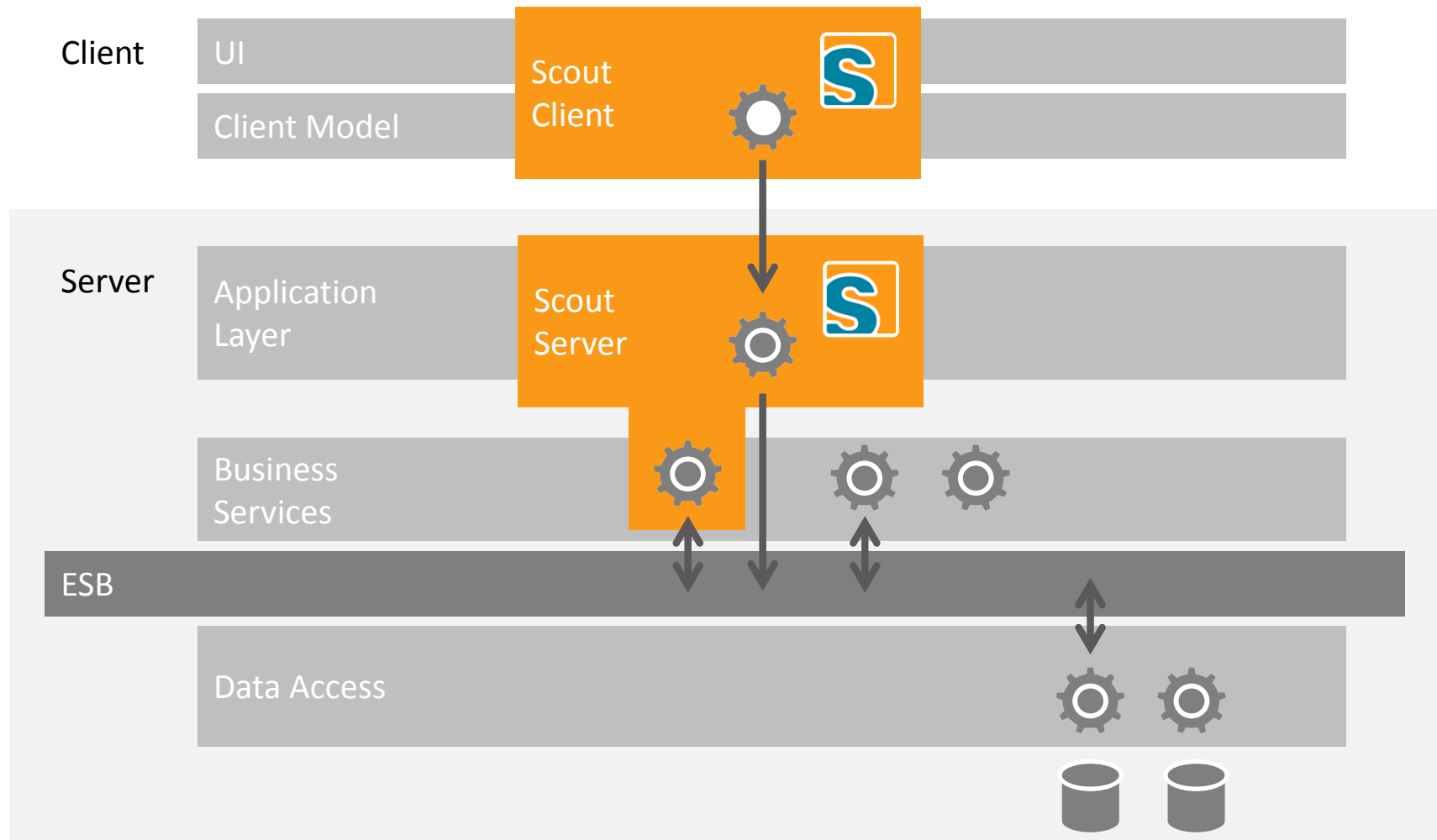
"Detail"



Integration



Services “Everywhere”



Desktop Application



BSI CRM - mzi

bsi-crm

Standard view My view Reports Marketing Contact Center Human Resources

Companies

- ECLIPSE FOUNDATION
 - Corporate structure
 - Contact person
 - Beaton, Wayne (ECLIPSE)
 - Milinkovich, Mike (ECLIPSE)
 - Müller, Ralph (ECLIPSE)
 - Skerrett, Ian (ECLIPSE)
 - Mandates
 - Network
 - Target plan
 - Projects
 - Marketing
 - Installed basis
 - Payments
 - Tickets
 - Cases
 - Communication
 - Tasks
- ECLIPSE SOURCE
- ECLIPSE STAMMTISCH ZÜRICH
- Persons
- Projects
- Tickets
- Communication
- Tasks
- Documents

Last name	First name	Language	Function
Beaton	Wayne	English	
Milinkovich	Mike	English	Corporate
Müller	Ralph	German	
Skerrett	Ian	English	Marketing

4 objects, 1 selected

Person

Name * Müller

First name Ralph

Company ECLIPSE FOUNDATI

Main representative * Hoegger, Andreas (B)

Active
 No personal contact

Information on person

Department Title

Language * German Job description Europa Repräsentant

Salutation * Mr. Birthdate

Function / Level C-Lev

Address Notes Marketing Social media Informationen Documents Changes

Already exists? OK Cancel

Open as Graphic Open as PDF Everything Only Persons Organic Hierarchical Orthogonal 1 2 3 5 10

Web Application



BSI CRM - mzi - Companies - C X

https://services.bsiag.com/bsicrm/web#com.bsiag.crm.client.core.desktop.StandardOutline-Companies-ECLIPSE-FOUNDATION-Contact-person

Standard view My view Reports Marketing Contact Center Human Resources

Companies

- ECLIPSE FOUNDATION
 - Corporate structure
 - Contact person
 - Skerrett, Ian (ECLIPSE FOUNDATION)
 - Milinkovich, Mike (ECLIPSE FOUNDATION)
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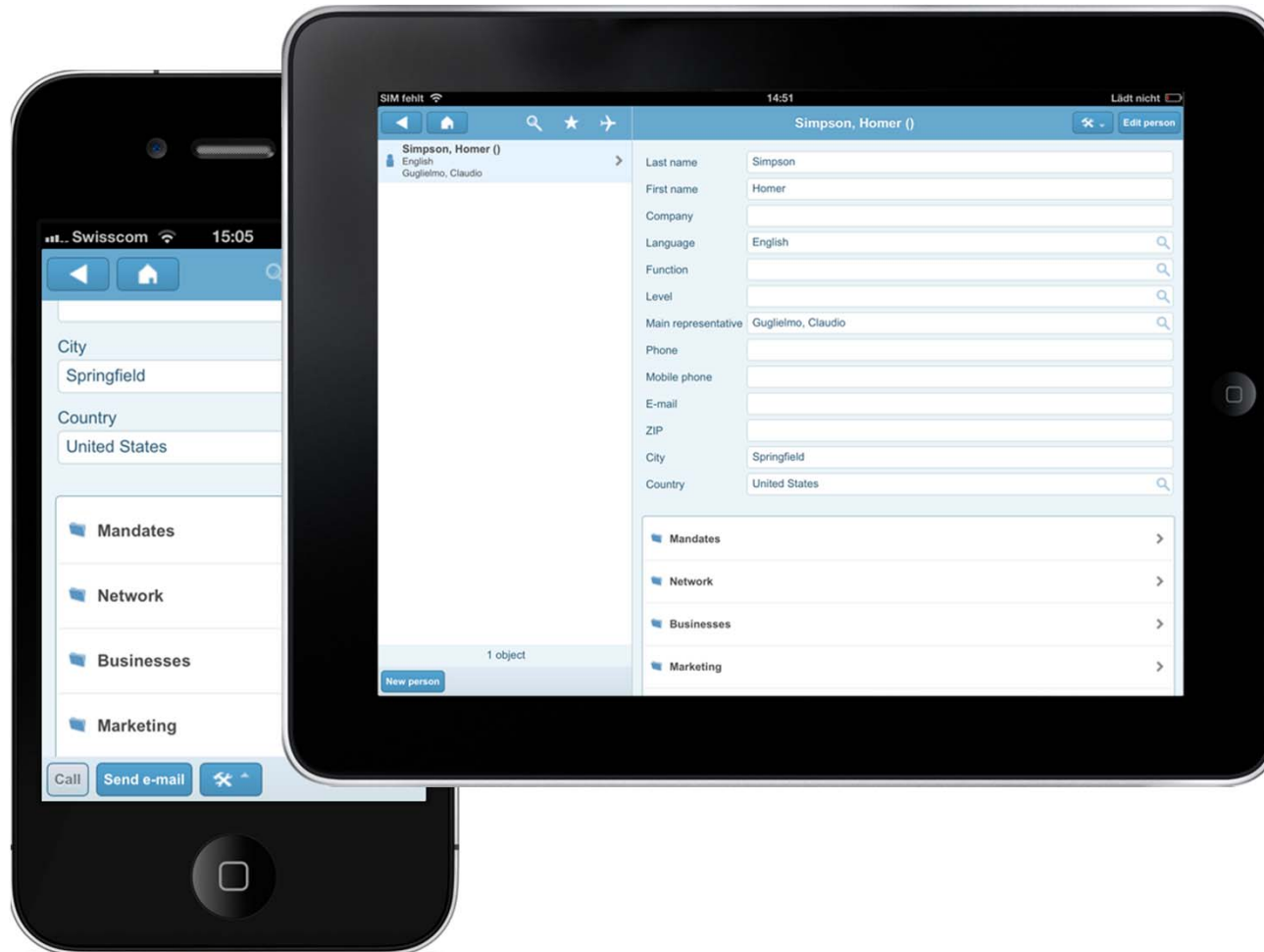
Address Notes Marketing Social media Informationen Documents Changes

Already exists? OK Cancel

Open as Graphic Open as PDF Everything Only Persons Organic Hierarchical Orthogonal 1 2 3 5 10



Mobile Application

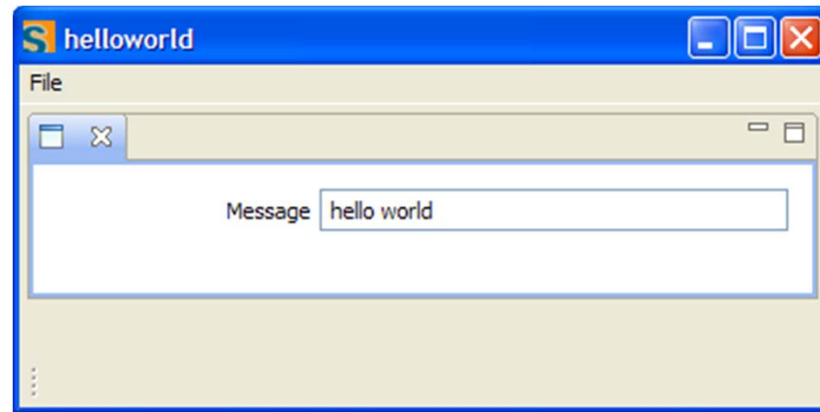




Hello World



Hello World



Scout SDK



The screenshot displays the Eclipse IDE interface with the Scout SDK project open. The Scout Explorer on the left shows the project structure under 'org.eclipse.scout.bahbah', including 'ui.rap', 'client', 'ClientSession', 'Desktop', 'Forms', 'Search Forms', 'Wizards', 'Local Lookup Calls', 'Services', 'All Outlines', 'StandardOutline (Standard)', 'All Pages', and 'Templates'. The main editor window shows the 'StandardOutline.java' file with the following code:

```
package org.eclipse.scout.bahbah.client.ui.desktop.outlines;  
  
import org.eclipse.scout.rt.client.ui.desktop.outline.AbstractOutline;  
  
public class StandardOutline extends AbstractOutline {  
  
    @Override  
    protected String getConfiguredTitle() {  
        return TEXTIS.get("Standard");  
    }  
  
    @Override  
    protected void execCreateChildPages(Collection<IPage> pageList) {  
        UserNodePage buddiesNodePage = new UserNodePage();  
        pageList.add(buddiesNodePage);  
    }  
}
```

The Scout Object Properties view at the bottom left shows the properties for 'StandardOutline (Standard)'. The 'Title' is set to 'Standard', 'Root Handles Visible' is checked, and 'Exec Create Child Pages' is highlighted in red. The console at the bottom right shows 'No consoles to display at this time.' The status bar at the bottom indicates 'Writable', 'Smart Insert', and '13 : 38'.

Scout Explorer



The screenshot displays the Eclipse IDE interface with the Scout Explorer plugin. The Scout Explorer on the left shows a project tree for 'org.eclipse.scout.bahbah' with a 'StandardOutline (Standard)' object selected. The Package Explorer on the right shows the source code for 'StandardOutline.java'. The Scout Object Properties window at the bottom left shows the configuration for the selected object, including appearance and behavior settings. The main editor window shows the Java code for the 'StandardOutline' class, which extends 'AbstractOutline'. The code includes imports, a class declaration, and two overridden methods: 'getConfiguredTitle()' and 'execCreateChildPages()'. The status bar at the bottom indicates 'Writable', 'Smart Insert', and '13 : 38'.

```
package org.eclipse.scout.bahbah.client.ui.desktop.outlines;  
  
import org.eclipse.scout.rt.client.ui.desktop.outline.AbstractOutline;  
  
public class StandardOutline extends AbstractOutline {  
  
    @Override  
    protected String getConfiguredTitle() {  
        return TEXTIS.get("Standard");  
    }  
  
    @Override  
    protected void execCreateChildPages(Collection<IPage> pageList) {  
        UserNodePage buddiesNodePage = new UserNodePage();  
        pageList.add(buddiesNodePage);  
    }  
}
```

Scout Object Properties



The screenshot shows the Eclipse IDE interface with the Scout Object Properties dialog open. Three orange arrows and circles are used to highlight key elements:

- 1**: Points to the **StandardOutline (Standard)** entry in the Scout Explorer tree.
- 2**: Points to the **Title** property field in the Scout Object Properties dialog, which contains the value **Standard**.
- 3**: Points to the `protected String getConfiguredTitle()` method in the `StandardOutline.java` source code.

```
package org.eclipse.scout.bahbah.client.ui.desktop.outlines;
import org.eclipse.scout.rt.client.ui.desktop.outline.AbstractOutline;

public class StandardOutline extends AbstractOutline {

    @Override
    protected String getConfiguredTitle() {
        return TEXTIS.get("Standard");
    }

    @Override
    protected void execCreateChildPages(Collection<IPage> pageList) {
        UserNodePage buddiesNodePage = new UserNodePage();
        pageList.add(buddiesNodePage);
    }
}
```



Demo/Tutorial

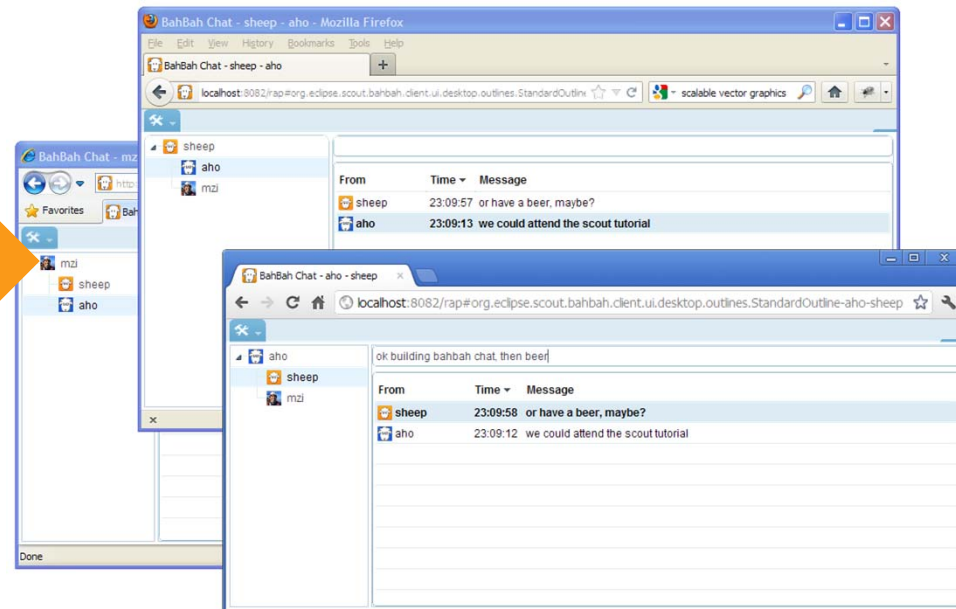
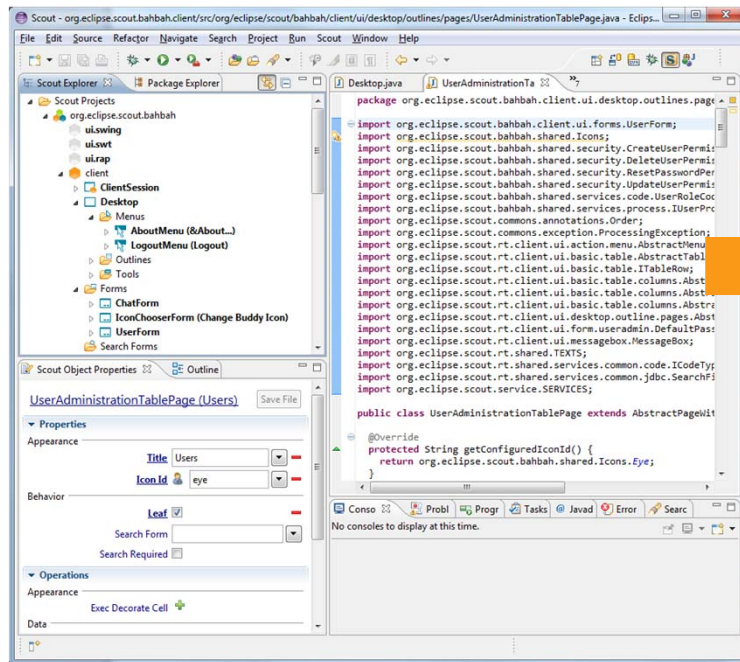


This Tutorial



Goal:

- Add Chat Functionality to Basic Scout Application
- Get a basic understanding of Scout



BahBah Chat Demo



The image displays three overlapping browser windows showing the BahBah Chat interface. The windows are titled "BahBah Chat - sheep - aho - Mozilla Firefox", "BahBah Chat - mzi", and "BahBah Chat - aho - sheep".

The top window shows a chat log with the following messages:

From	Time	Message
sheep	23:09:57	or have a beer, maybe?
aho	23:09:13	we could attend the scout tutorial

The middle window shows a chat log with the following messages:

From	Time	Message
sheep	23:09:58	or have a beer, maybe?
aho	23:09:12	we could attend the scout tutorial

The bottom window shows a chat log with the following messages:

From	Time	Message
sheep	23:09:58	or have a beer, maybe?
aho	23:09:12	we could attend the scout tutorial

Initial Workspace Overview

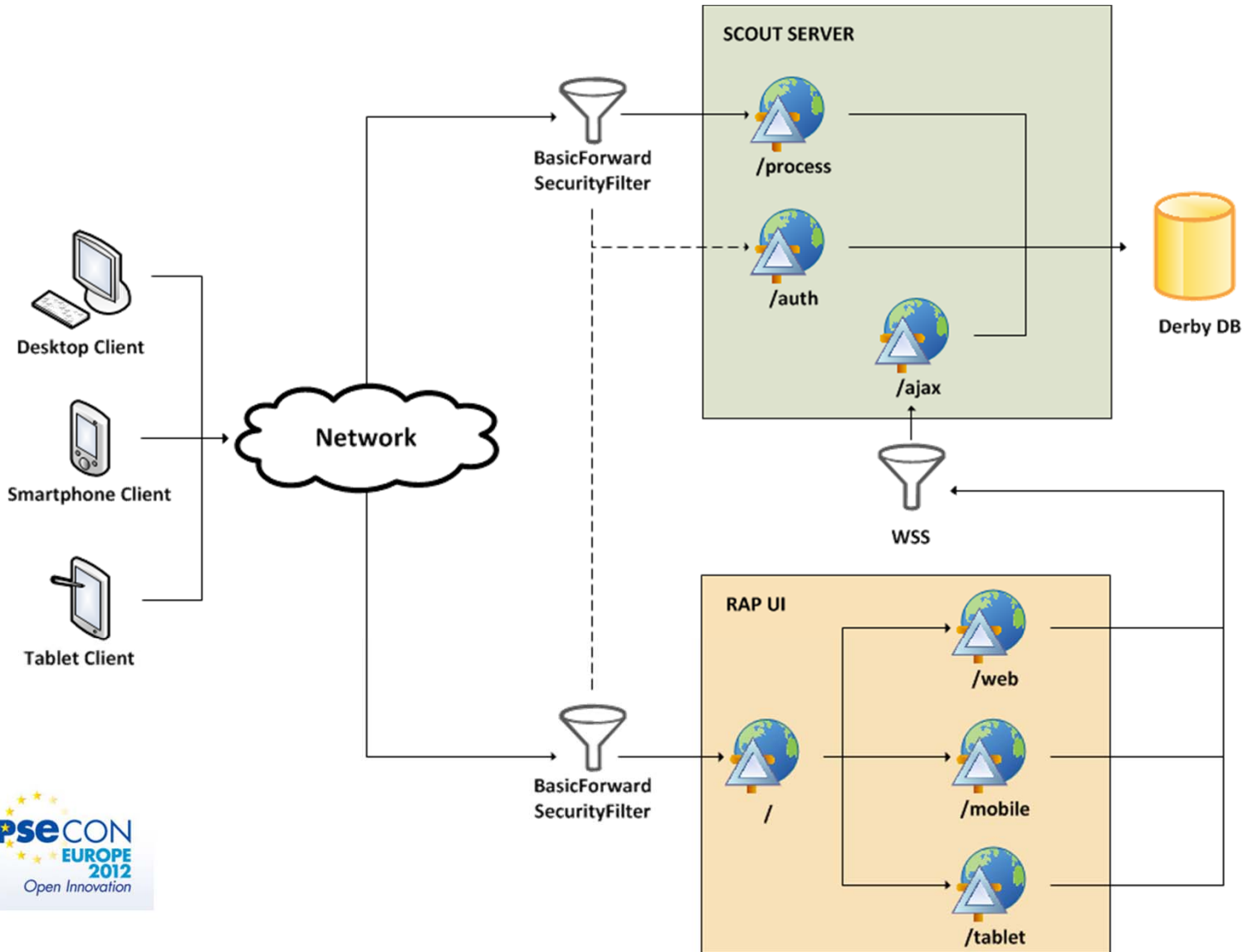


Plugins

GUI	<code>org.eclipse.scout.bahbah.ui.rap</code>
	<code>org.eclipse.scout.bahbah.ui.swt</code>
	<code>org.eclipse.scout.bahbah.ui.swing</code>
Client Model	<code>org.eclipse.scout.bahbah.client</code>
Shared	<code>org.eclipse.scout.bahbah.shared</code>
Server	<code>org.eclipse.scout.bahbah.server</code>
	<code>org.eclipse.scout.bahbah.security</code>

Initial Workspace Overview

Servlets and Security Filters



Initial Workspace Overview

Database Access



1. Derby JDBC Driver in Server Products
2. Scout Derby Plugin in Server Manifest
 - Defining SQL Style & Scout Derby SQL Service
3. DerbySqlService Registration
4. DerbySqlService Configuration in config.ini
 - Database location
 - Username
 - Password
5. Config in Service vs. config.ini
 - Defaults in Service
 - Environment dependant Settings in config.ini

Initial Workspace Overview



User Administration, Permissions, Roles & Access Control

User name	Role
admin	Administrator
eva	Administrator
sheep	Administrator

User

User name *

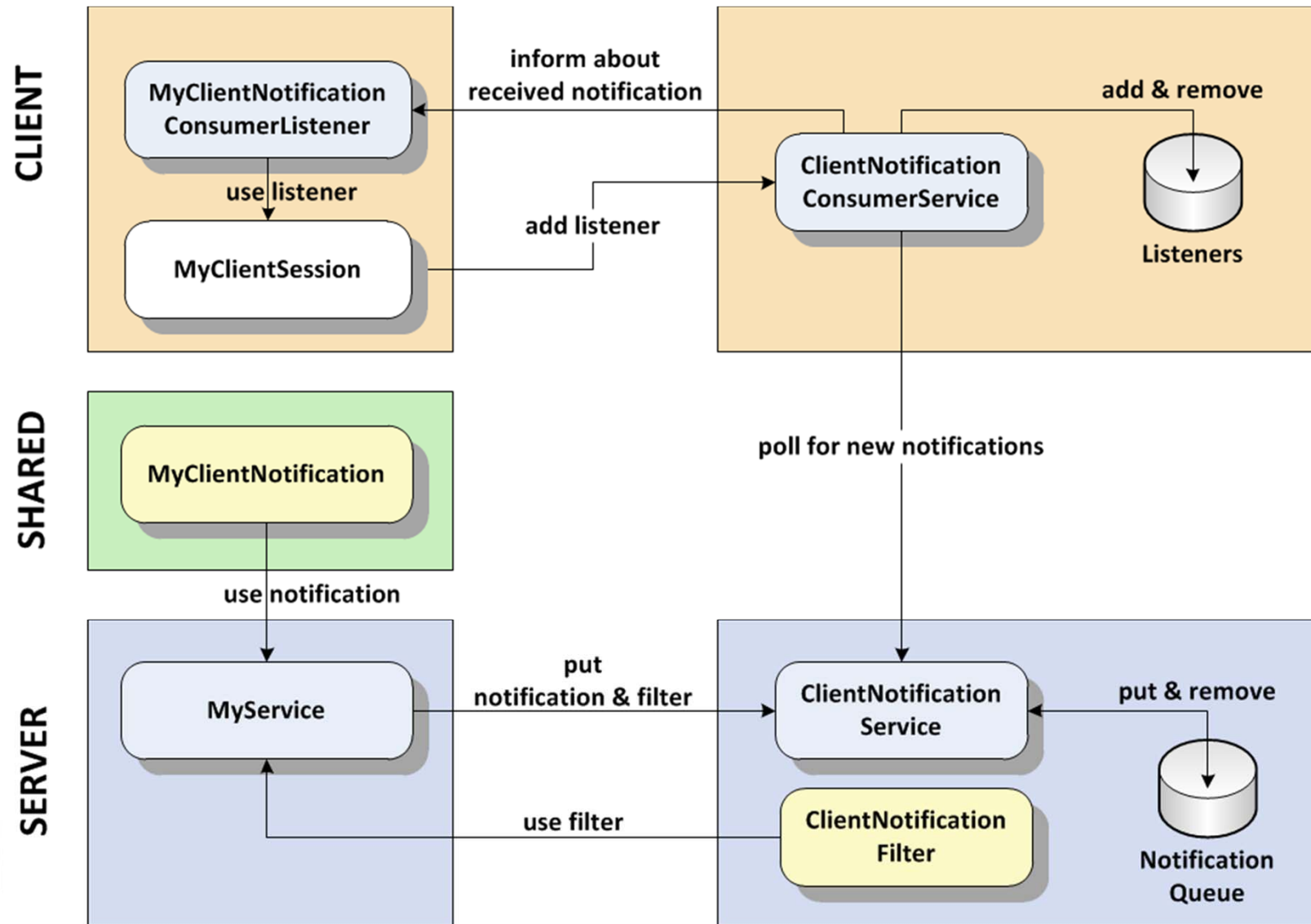
User Role *

- Permissions
 - CreateNotificationPermission
 - CreateUserPermission
 - DeleteUserPermission
 - ReadUsersPermission
 - RegisterUserPermission
 - ResetPasswordPermission
 - UnregisterUserPermission
 - UpdateIconPermission
 - UpdateUserPermission
- Enumerations
- Lookup Calls
- Libraries
- Text Provider Services
- server
 - Server Session
 - Lookup Services
 - Outline Services
 - Process Services
 - Common Services
 - Custom Services
 - security
 - AccessControlService

Initial Workspace Overview



Client Notifications





Now What?



What's next



- Download Scout www.eclipse.org/downloads
- Try the tutorials wiki.eclipse.org/scout

More on Mobile: **Eclipse Scout Goes Mobile**

- **Tomorrow**, 14:00 - 14:30
- Room: Theater Stage

Write **your own** Scout applications

- Talk to us in the **Scout forum**
- Follow Scout **@EclipseScout**



@EclipseScout
eclipse.org/scout

Tx

