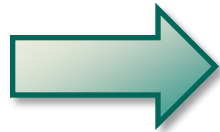


EBS goes social - The Triumvirate Liferay, Application Express and EBS

Michael Pergande, PROMATIS software GmbH
DOAG 2011 Applications, Berlin, May 3rd, 2011

- ◆ Introduction
- ◆ Motivation, Scenarios
- ◆ Included Components
 - E-Business Suite (EBS)
 - Application Express (APEX)
 - Liferay Portal
- ◆ System Architecture
- ◆ Integration Tasks
 - Loose vs. Tight Coupling
 - Authentication
 - Layout
- ◆ Summary

- ◆ Integration APEX + EBS comes natural and is common Practice
- ◆ Next Step: Embed in Portal Context
 - Consistent Look
 - Social Media Components
 - Integration with other Business Applications
- ◆ Alternatives:
 - Do everything in APEX
 - Use Oracle Products (WebCenter)
 - Third Party Software



Liferay Portal

- ◆ Different Integration Scenarios
- ◆ Loose Coupling
 - Limited to Layout and Authentication
- ◆ Tight Coupling
 - Information Exchange between Portal and APEX
- ◆ Resulting Integration Tasks are different

PROMATIS
Knowledge Powered Business Processes

Welcome **Shop**

internal.promatis.de > Shop

Search All Categories

Categories

- Antrieb & Getriebe
- Auspuff- & Abgasanlage
- Innenraum
- Radersatzteile
- Scheinwerfer
- Sitze
- Zündung

Social Media

- Wiki
- Twitter
- Facebook

Shopping Cart

Your Shopping Cart is empty
[\(View Shopping Cart\)](#)

Hot Products

[3/3 Wegeventil hydraulisch](#)
[Kondensor für Volvo LKW](#)
[\(View All\)](#)

Promotional Products

[Halter](#)
[\(View All\)](#)

3/3 Wegeventil hydraulisch

Antrieb & Getriebe
Buy Now \$591.00

3/3 Wegeventil hydraulisch, Hub 8 mm, Durchflussmenge 25 dm³/min, Druckbegrenzung regelbar: 100 - 150 bar, Rücklaufdruck max. 150 bar, Wabco

5/2 Wegeventil pneumatisch

Antrieb & Getriebe
Buy Now \$229.00

5/2-Wegeventil pneumatisch, Betriebsdruck max. 10 bar, dient zur Steuerung der Vorschaltgruppe Getriebe, Wabco

Anlasser Multicar

Zündung
Buy Now \$259.00

0 986 016 240

Beifahrersitz 2-sitzer IVECO daily 35-13

Sitze
Buy Now \$297.50

Verkaufen gebrauchte Beifahrersitzbank 2-Sitzer für IVECO Daily 35-13 zum Preis von 297,50 € inkl. 19% MwSt. zur Abholung vor Ort oder zzgl. Fracht-/Verpackungskosten. Bei dem beigefügten Bild, handelt es sich um ein Beispielbild und kann vom Originalbild abweichen.

Endschalldämpfer für DAF Modellreihe F2100 - F2700

Auspuff- & Abgasanlage
Buy Now \$333.00

Endschalldämpfer für DAF Modellreihe F2100 - F2700

Endschalldämpfer für Mercedes-Benz LKW

Auspuff- & Abgasanlage
Buy Now \$263.50

Endschalldämpfer für Mercedes-Benz LKW

Fahrersitz Arizona Basic Iveco/Scania, 3-Punkt-Gurt, Schnellabsenkung

Sitze
Buy Now \$1,085.00

1 040 657

Halter

Auspuff- & Abgasanlage
Buy Now \$33.00

Halter

Hauptscheinwerfer

Scheinwerfer
Buy Now \$303.00

0 301 017 339

1 - 9 [Next](#)

Included Components

E-Business Suite

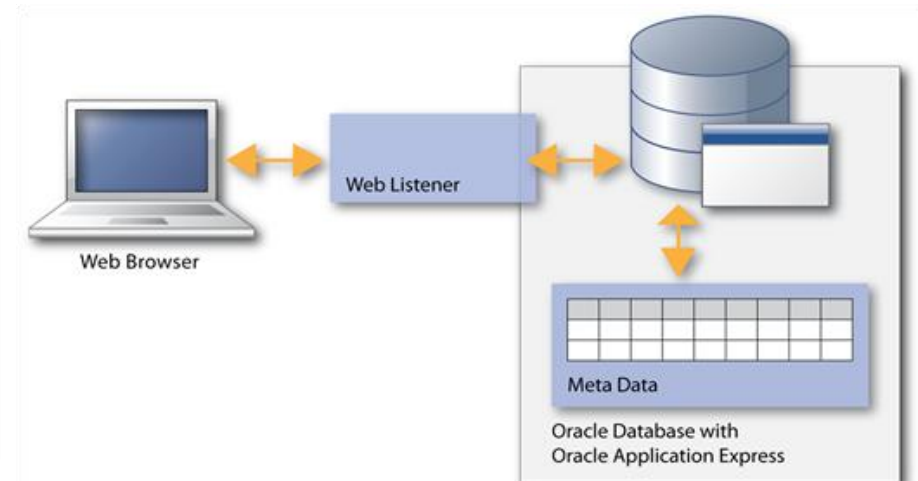
- ◆ Comprehensive Suite of integrated, global Business Applications
- ◆ Structured in Modules
- ◆ Base Technologies
 - Oracle Database
 - Oracle Application Server
 - Oracle Forms and Reports
- ◆ Flexibility concerning
 - Authentication
 - Integration with other Software Components



Included Components

APEX

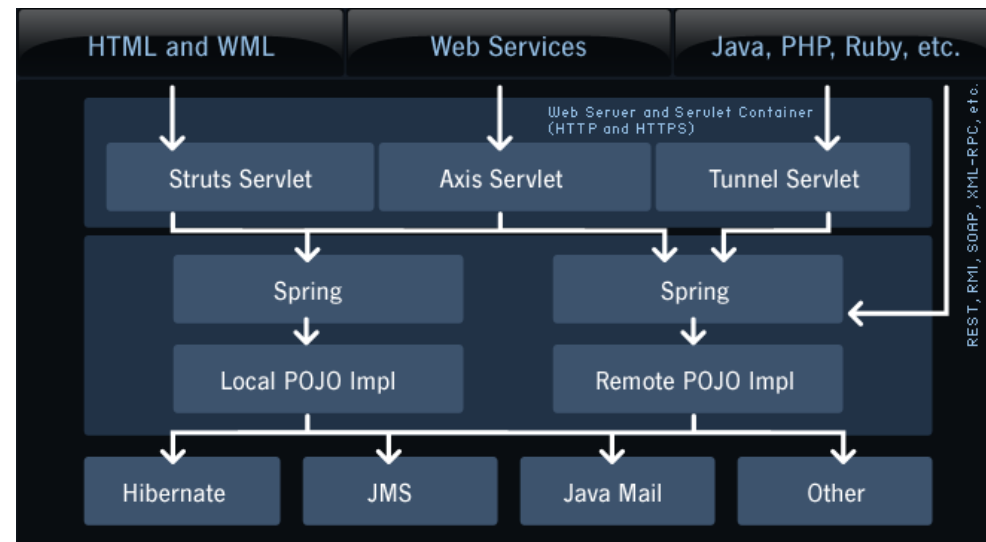
- ◆ Software Development Environment based on the Database
- ◆ Fast Development of Web Applications
- ◆ Automated Generation of Forms and Reports
- ◆ Wizards for Rapid Prototyping
- ◆ Fully customizable Themes and Templates



Included Components

Liferay

- ◆ Modern State of the Art Portal Software
- ◆ Developed in Java
- ◆ Two Editions
 - Free Open Source
 - Extended and supported Enterprise Edition
- ◆ Portlet Support (JSR-168, JSR-286, WSRP 2.0)
- ◆ Three main Parts
 - Portal
 - Content Management System
 - Collaboration



Included Components

Liferay

- ◆ Portal
 - Secure and Role-based Authentication
 - Personalization
 - WebDAV
 - Multilanguage Support
 - Themes

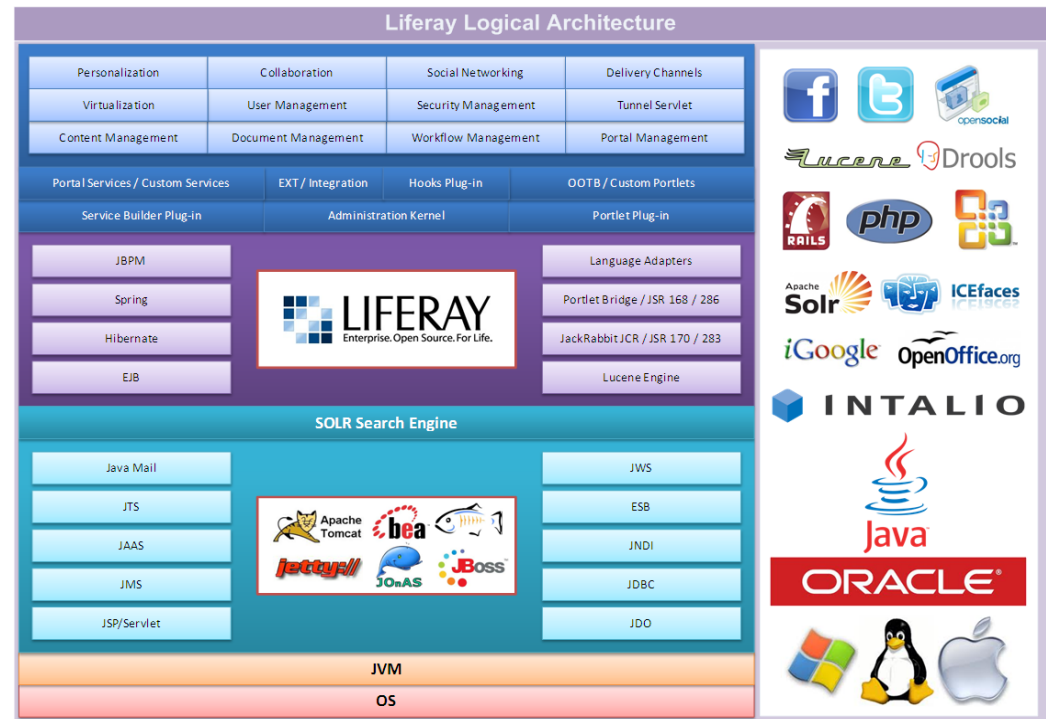
- ◆ Content Management System
 - Image Gallery
 - Search Functionality
 - Office Support
 - Workflows

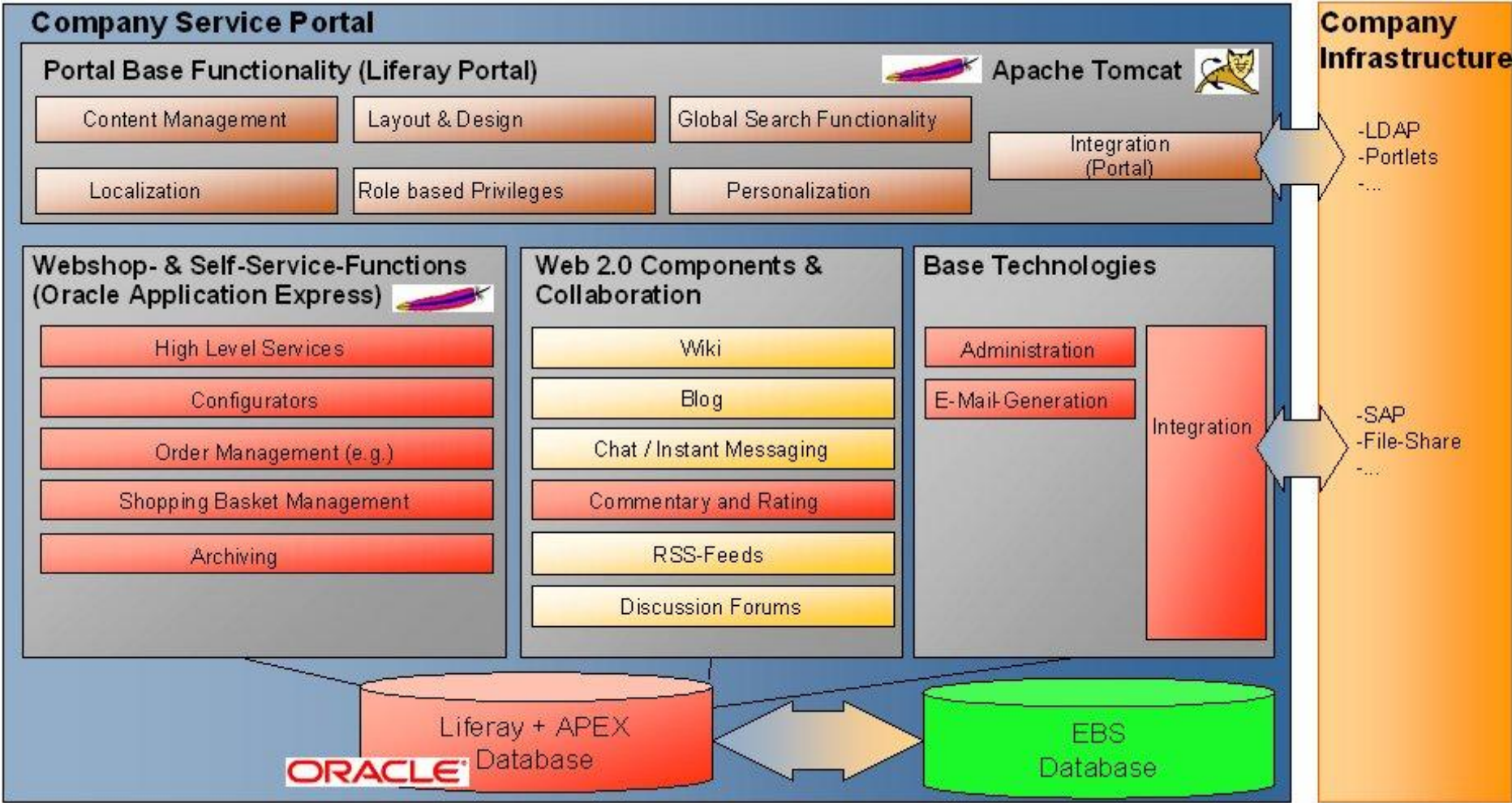
Included Components

Liferay

◆ Collaboration

- Wiki
- Forum
- Blog
- Email
- Instant Messaging
- Calendar
- Subversion Client
- Many out of the Box Portlets





Integration Tasks

Loose Coupling

- ◆ APEX as an Intermediary between Liferay and EBS
- ◆ Closed APEX Application
- ◆ Integration via iFrame Element implemented as a Portlet
- ◆ Liferay delivers Portal Environment
- ◆ Portlet Content generated via APEX Request
- ◆ Alternative: Use WSRP 2.0 Support
- ◆ Use Web Services implemented in PL/SQL

Integration Tasks

Tight Coupling

- ◆ Pass Information between the Participants
- ◆ Use Web Content Display Portlet Component
- ◆ Parameters calculated at Runtime can be passed to APEX
- ◆ Necessary Steps:
 - Create Web Content Structure (XML Schema)
 - Define Elements there (like APEX URLs)
 - Create a Template which defines an iFrame
 - Dynamic Content can be inserted there
 - Add this Portlet to any Liferay Page, representing an Instance

Integration Tasks

Web Content Display Portlet

Web Content Return to Full Page

New Web Content

Name: APEX Shop with custom SEARCH-String as Web Content Basic

localize

Language: English (United States) Default Language: English (United States)

iframeurl
http://192.9.201.91:8081/apex/f?p=101:1
 Localized

Permissions: Viewable by: Anyone (Guest Role) More Options

Abstract

Categorization

Save as Draft Publish Preview Download Cancel

Structure
Name: APEXStructure (Use Default)
Edit
Choose

Template
Template: APEXTemplate

Schedule

Integration Tasks

Authentication

- ◆ Different Approaches are possible based on supported Standards
- ◆ Liferay supports many Authentication Protocols
 - LDAP, AD
 - Open-ID
- ◆ For loose Coupling:
 - Use Web Standards (HTTP get/post) to pass auth info
 - Also possible to use SOAP Standards for Implementation (not recommended)
- ◆ For tight Coupling:
 - Pass session information to APEX
 - Validate it there

- ◆ Liferay is fully customizable via Themes and Templates
- ◆ Same goes for APEX
- ◆ Natural Fit

- ◆ Use css Files, Icons, Javascript etc. for both Components
- ◆ Use it also for WSRP Markups
- ◆ Possibly implement new lightweight Templates for APEX

- ◆ Take EBS and APEX Integration as granted
- ◆ Requirement to add Portal Context and Social Media
- ◆ One Approach: Integration of third Party Portal, here Liferay

- ◆ Reuse Technology already included in participating Components
- ◆ Different Degrees of Integration are possible based on Requirements



Michael Pergande

Division Manager

PROMATIS software GmbH
Pforzheimer Str. 160
76275 Ettlingen, Germany

Phone +49 7243 2179 0

Fax +49 7243 2179 99

Email: michael.pergande@promatis.de

Web: www.promatis.de