SOA & The Agile Enterprise

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SOA Evangelist

Oracle Corporation

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"A service-oriented platform into which we can very easily plug both newly developed and existing IT systems, is a very attractive value proposition."

Michael Herr, Senior Director of IT, Deutsche Post

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"Our industry is very competitive. My team is constantly looking for ways to improve customer service, introduce new product offerings, and make an impact to the bottom-line."

Serge Bauve, Manager, Belgacom

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Today's Challenges

- Changing Business Requirements
- Emerging Technologies
- Growing Complexity

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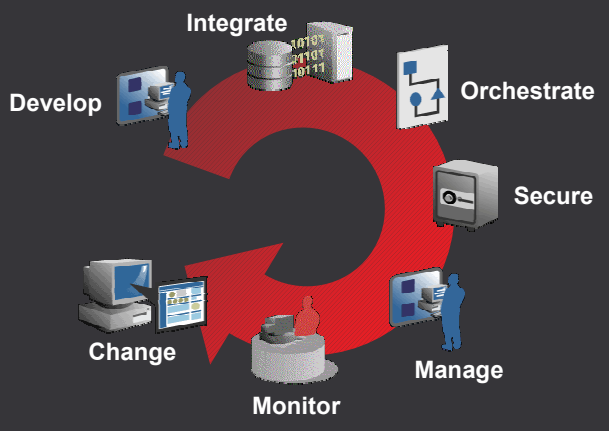
SOA – Blueprint For Success



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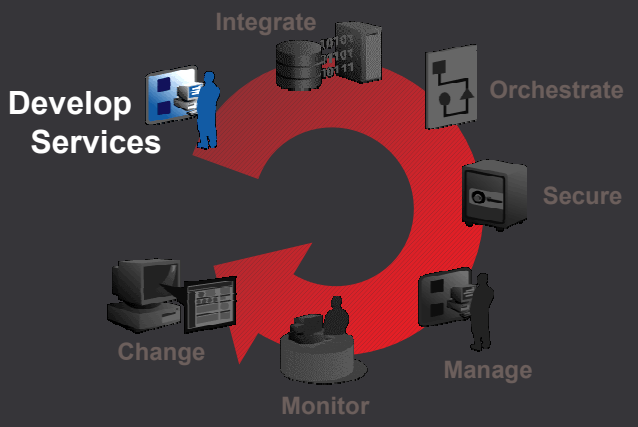
Service-Oriented Architecture



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User Interfaces

JavaServer Faces

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Oracle and JavaServer Faces

- Key contributor to JSF Expert Group
- Contribute components to Apache MyFaces
- Lead Eclipse JSF project
- JSF in JDeveloper and Oracle Application Server
- 100+ Faces components

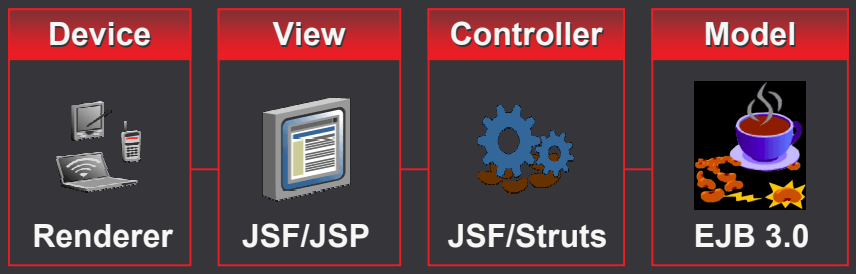
http://www.oracle.com/technology/jsf

D E M O N S T R A T I O N

JavaServer Faces

Business Logic

Enterprise JavaBeans 3.0



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EJB 2.1 Bean Class

```
public interface Calculator extends EJBObject {
     int add (int a, int b) throws RemoteException;
     int subtract (int a, int b) throws RemoteException;
}
public interface CalculatorHome extends EJBHome {
     Calculator create()throws CreateException,RemoteException;
}
public class CalculatorBean implements SessionBean {
     private SessionContext ctx;
     public void setSessionContext(SessionContext s) {ctx = s;}
     public void ejbCreate() {}
     public void ejbActivate () {}
     public void ejbPassivate () {}
     public void ejbRemove () {}

     public int add (int a, int b) {return a + b;}
     public int subtract (int a, int b) {return a - b;}
}
```

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EJB 2.1 Bean Class

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public interface Calculator extends EJBObject {
     int add (int a, int b) throws RemoteException;
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     public void setSessionContext(SessionContext s) {ctx = s;}
     public void ejbCreate() {}
     public void ejbActivate () {}
     public void ejbPassivate () {}
     public void ejbRemove () {}

     public int add (int a, int b) {return a + b;}
     public int subtract (int a, int b) {return a - b;}
}
```


EJB 3.0 Bean Class

```
@Stateless public class CalculatorBean implements Calculator {
     public int add (int a, int b) {return a + b;}
     public int subtract (int a, int b) {return a - b;}
}
public interface Calculator {
     int add (int a, int b);
     int subtract (int a, int b);
}
```

EJB 2.1 Deployment Descriptor

```
<session>
     <ejb-name>CalculatorEJB</ejb-name>
     <home>com.example.CalculatorHome</home>
     <remote>com.example.Calculator</remote>
     <ejb-class>com.example.CalculatorBean</ejb-class>
     <session-type>Stateless</session-type>
     <transaction-type>Container</transaction-type>
</session>
...
```

EJB 3.0 Deployment Descriptor

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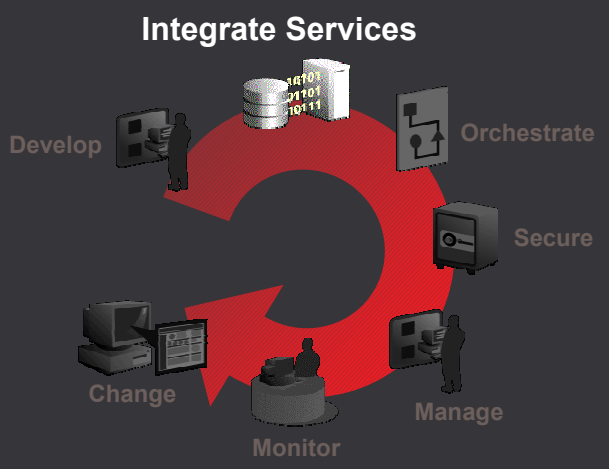
Oracle and EJB 3.0

- Expert in persistence through TopLink
- Co-Specification Lead for EJB 3.0
- TopLink Essentials Contributed to Glassfish as EJB 3.0 Persistence RI
- Lead Eclipse EJB 3.0 project
- EJB 3.0 in JDeveloper and Oracle Application Server

http://www.oracle.com/technology/ejb3

Service-Oriented Architecture



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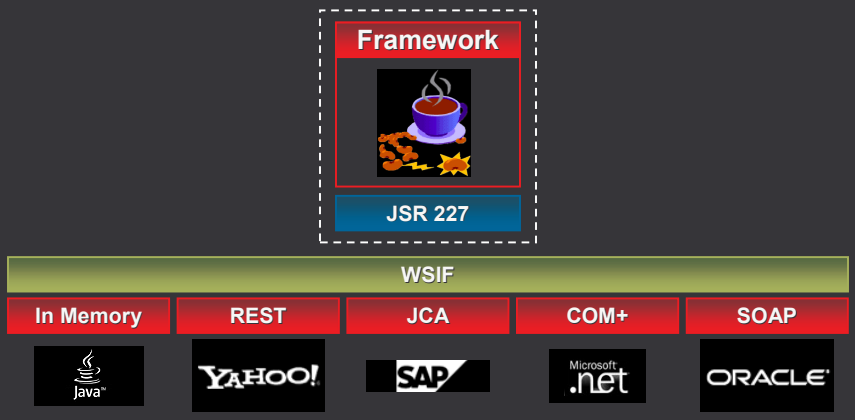
Publish Services



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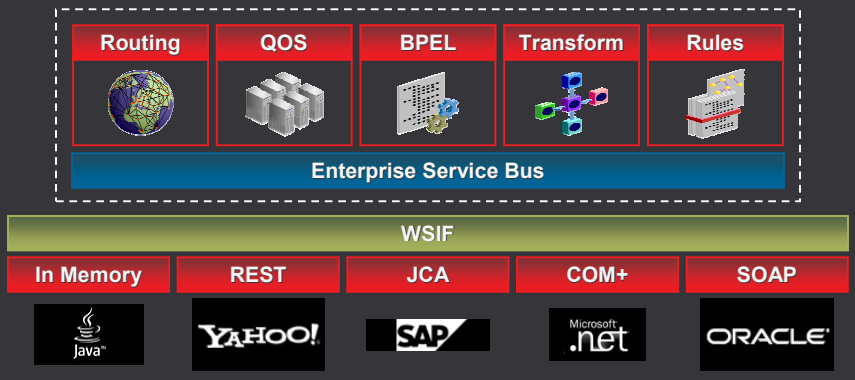
Integrate Services



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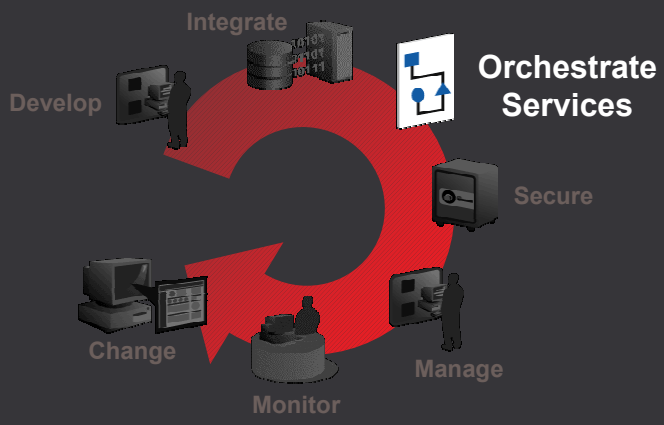
Service-Oriented Architecture



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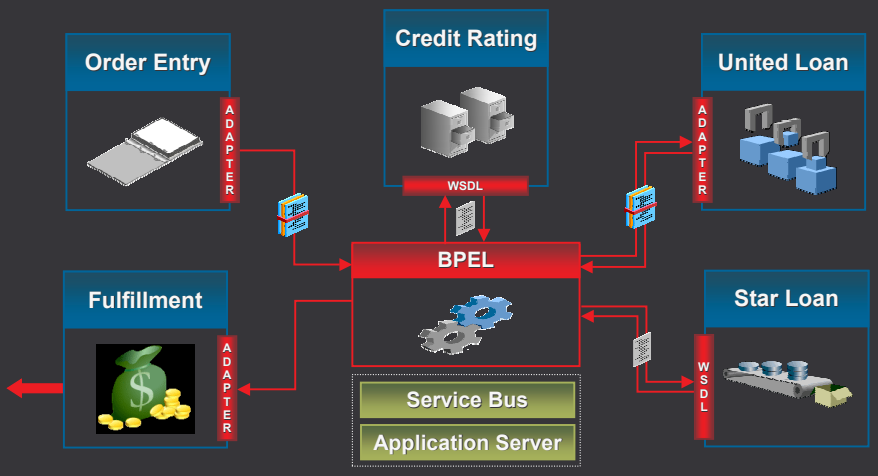
Orchestrate Services



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Oracle and BPEL

- Expert in BPEL through Collaxa acquisition
- Core contributor to BPEL4WS specification
- Co-Lead BPEL tooling project for Eclipse
- BPEL Support in Oracle JDeveloper and Oracle BPEL Process Manager

http://www.oracle.com/technology/bpel

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EJB and BPEL

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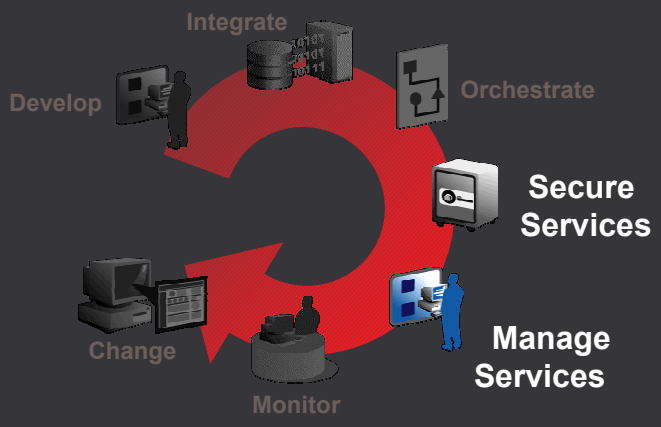
Service-Oriented Architecture



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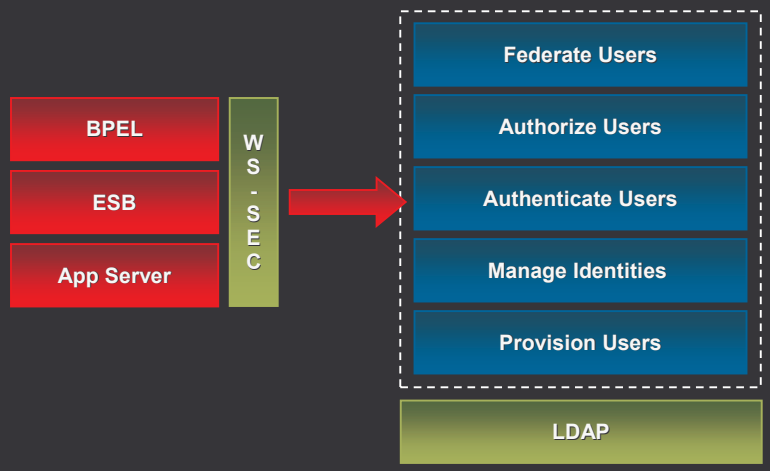
Secure Services



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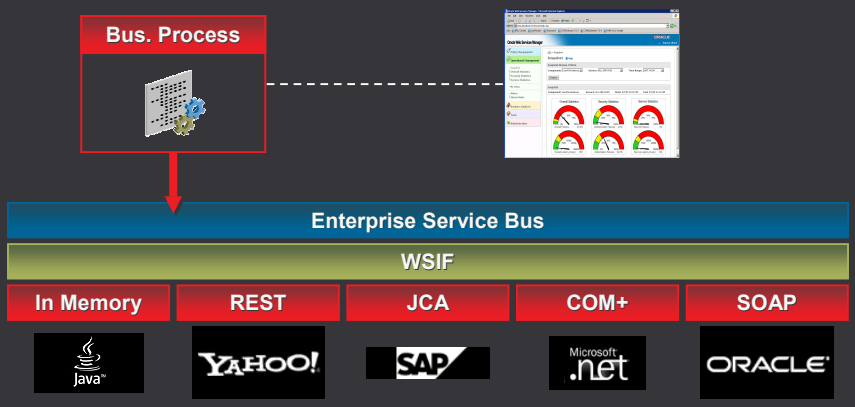
Manage Services



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Security and Management

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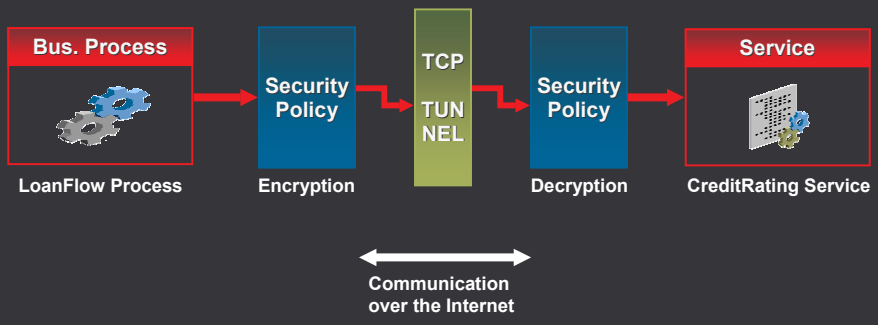

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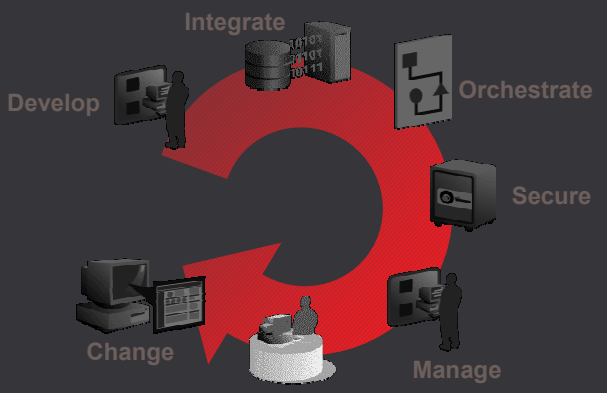
Service-Oriented Architecture



Monitor Services

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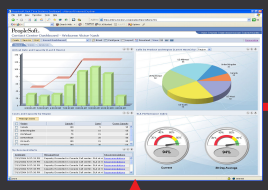
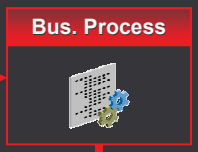
Monitor Services

Business Activity Monitoring





Enterprise Service Bus

WSIF

In Memory	REST	JCA	COM+	SOAP

Java™ YAHOO! SAP Microsoft .net ORACLE

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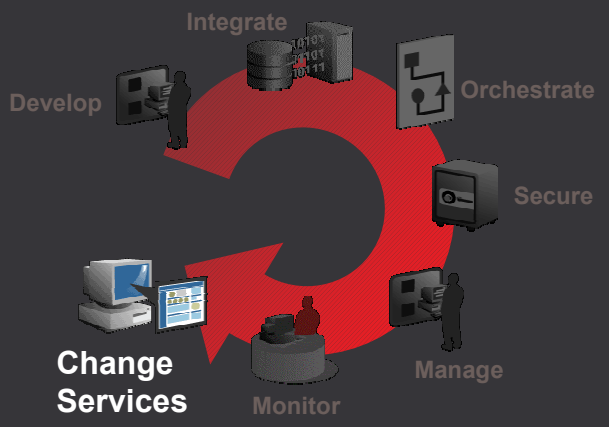
Service-Oriented Architecture



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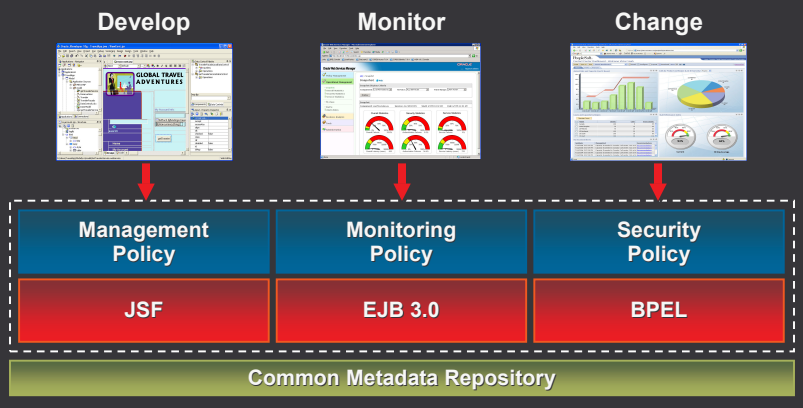
Change Services

Dynamic SOA



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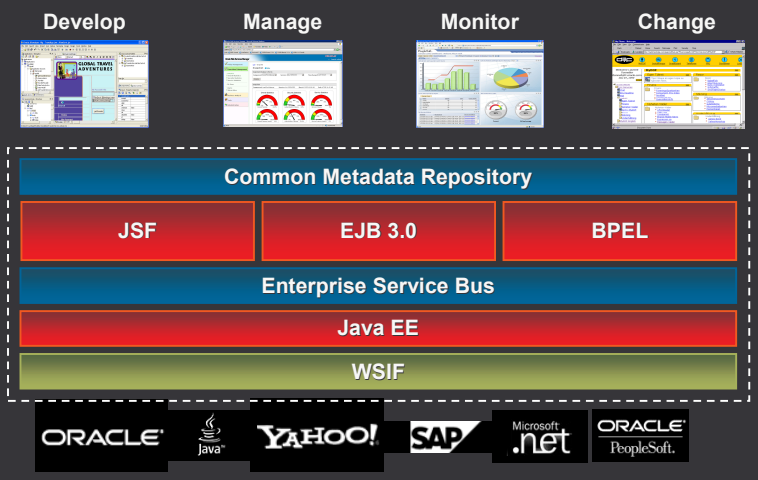
SOA Blueprint



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Community Contributions

ORACLE 10g JDEVELOPER

Free!

eclipse

EJB 3.0
JSF
BPEL

Now in Open Source

EJB 3.0
JSF
More…

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