

# Best Practices for Adopting SOA

**Oracle Architect Forums, February 2005**

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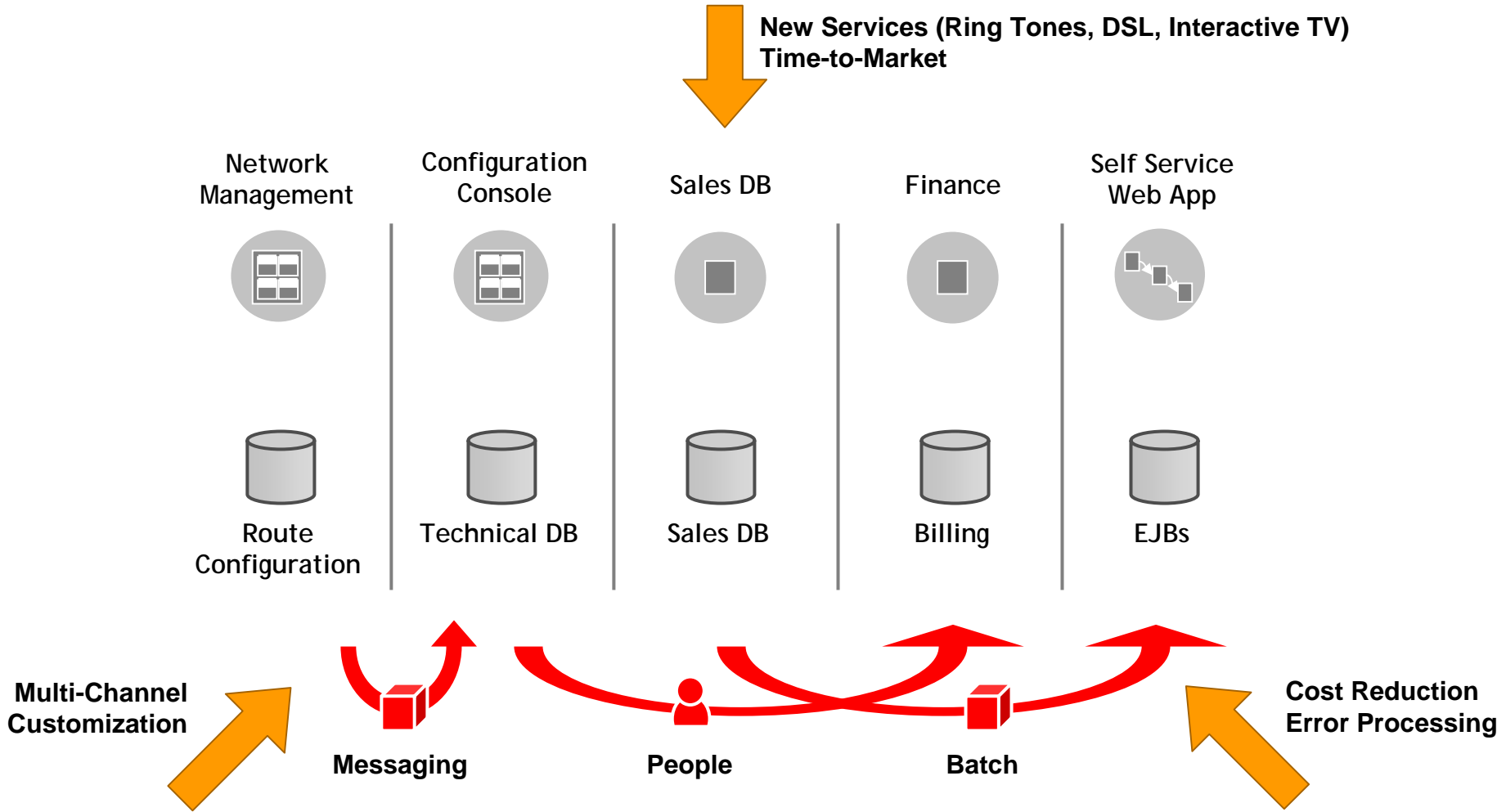
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# SOA

## Defined

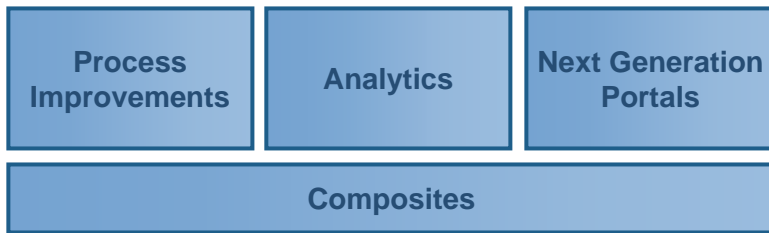
# Customer Murmurs...



# Customer Murmurs...



Functional Analyst

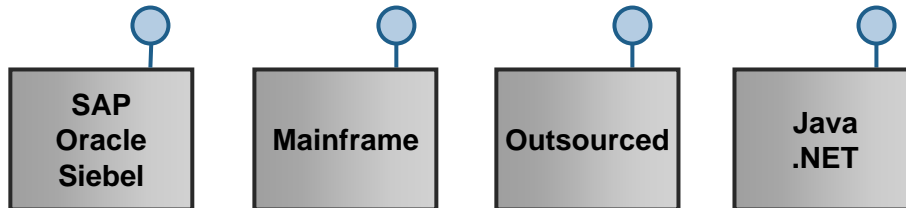


## Requirements

- Functional/Business Savvy Developer
- Leverage/Façade Existing IT Assets
- Build-to-change
- Security
- Manageability
- Performance

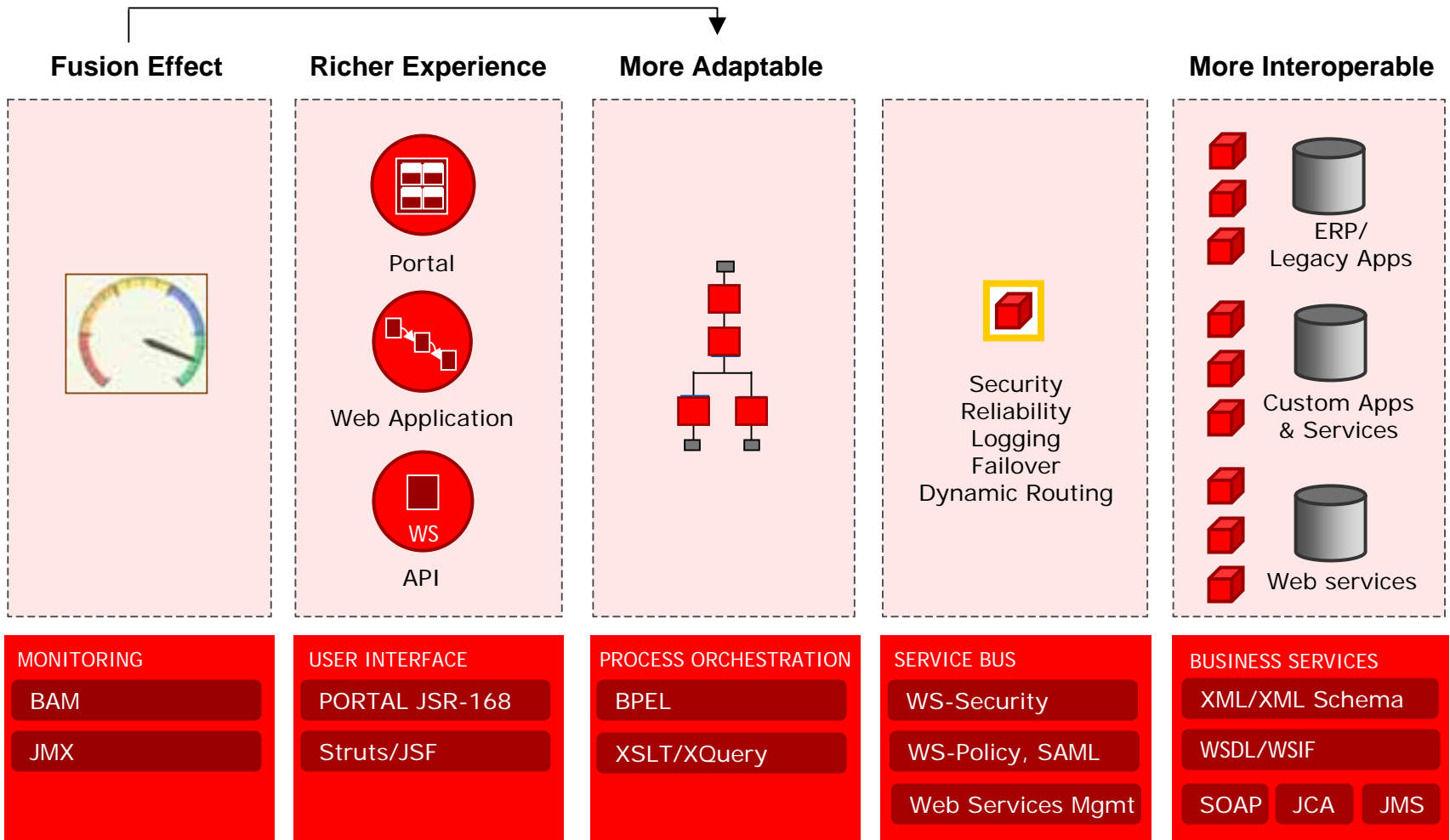
## Why Now?

- Network Infrastructure is in place
- Standards (REST, XML, WSDL, WS-\*)
- Support from Packaged Applications



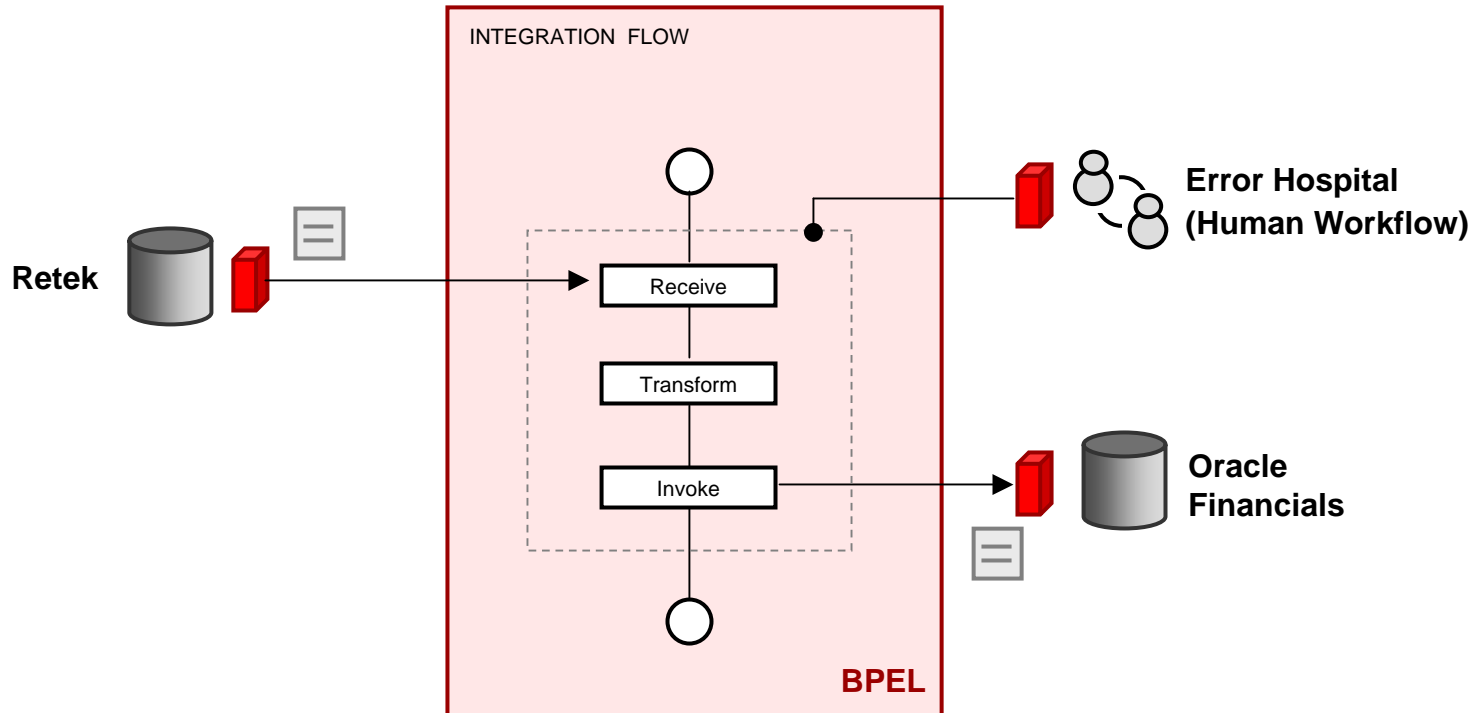
Developers

# SOA | Key Standards

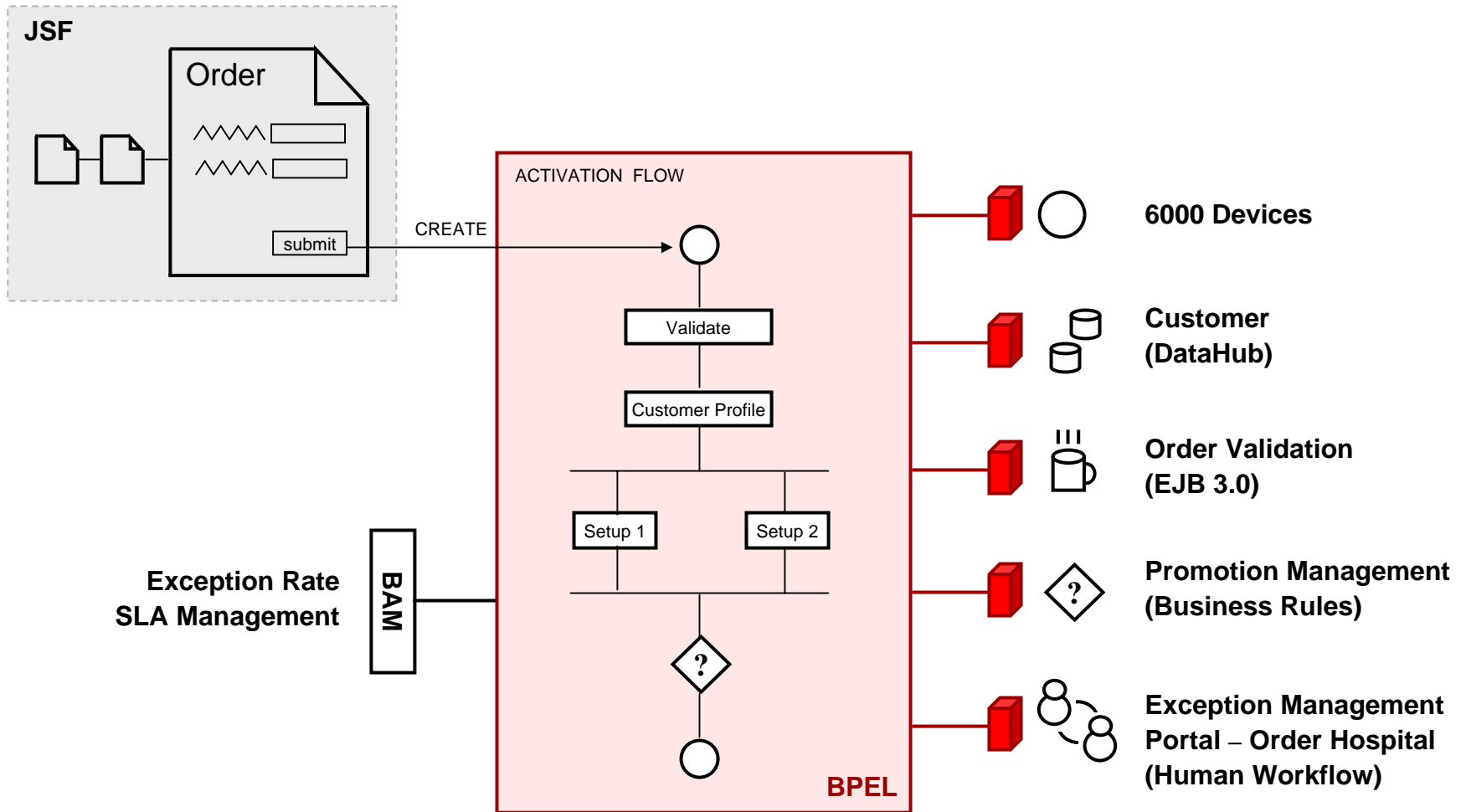




# Example | Retek - Financials Integration



# Example | DSL Service Provisioning



# SOA

## Different Value for Different People



Business User



Architects



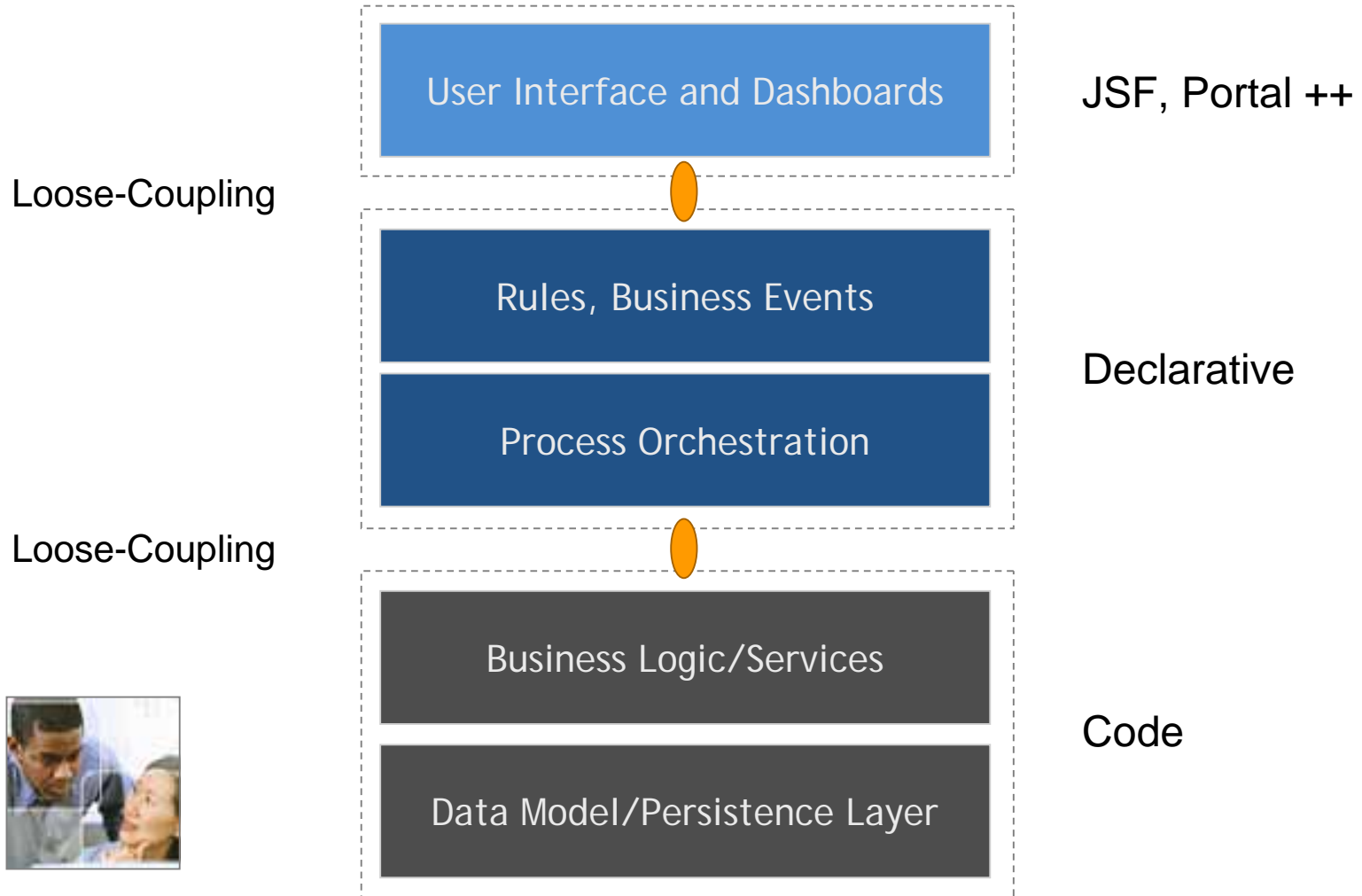
IT Manager

# SOA for Business Users

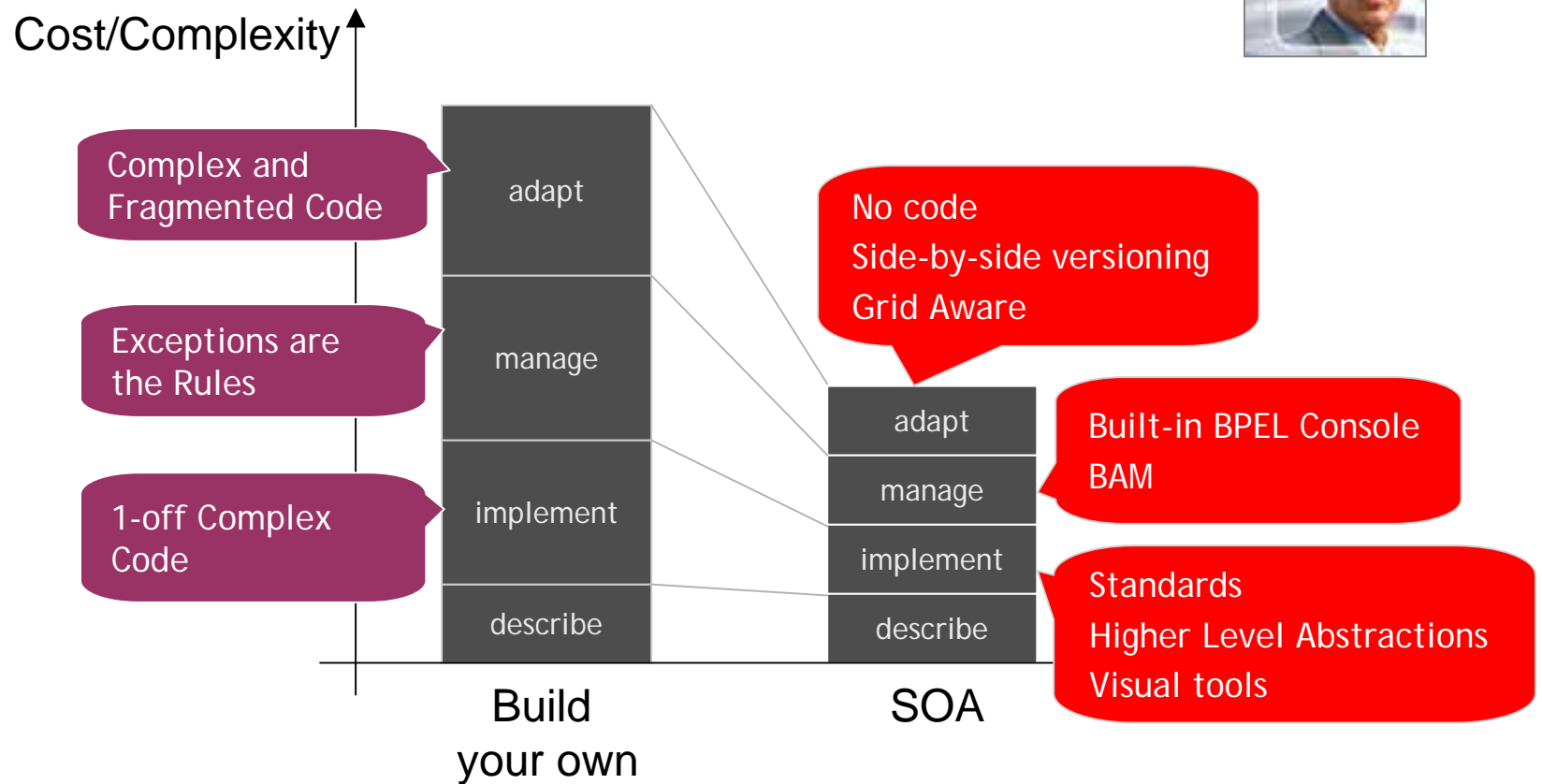


- **Time-to-Market**  
Deliver new products and services faster
- **Variance**  
Customize business processes for channels, customers, suppliers, etc.
- **Insight**  
Monitor and react to key performance indicators in real-time
- **Six Sigma**  
Automate unnecessary manual steps and exceptions

# SOA for Developers and Architects



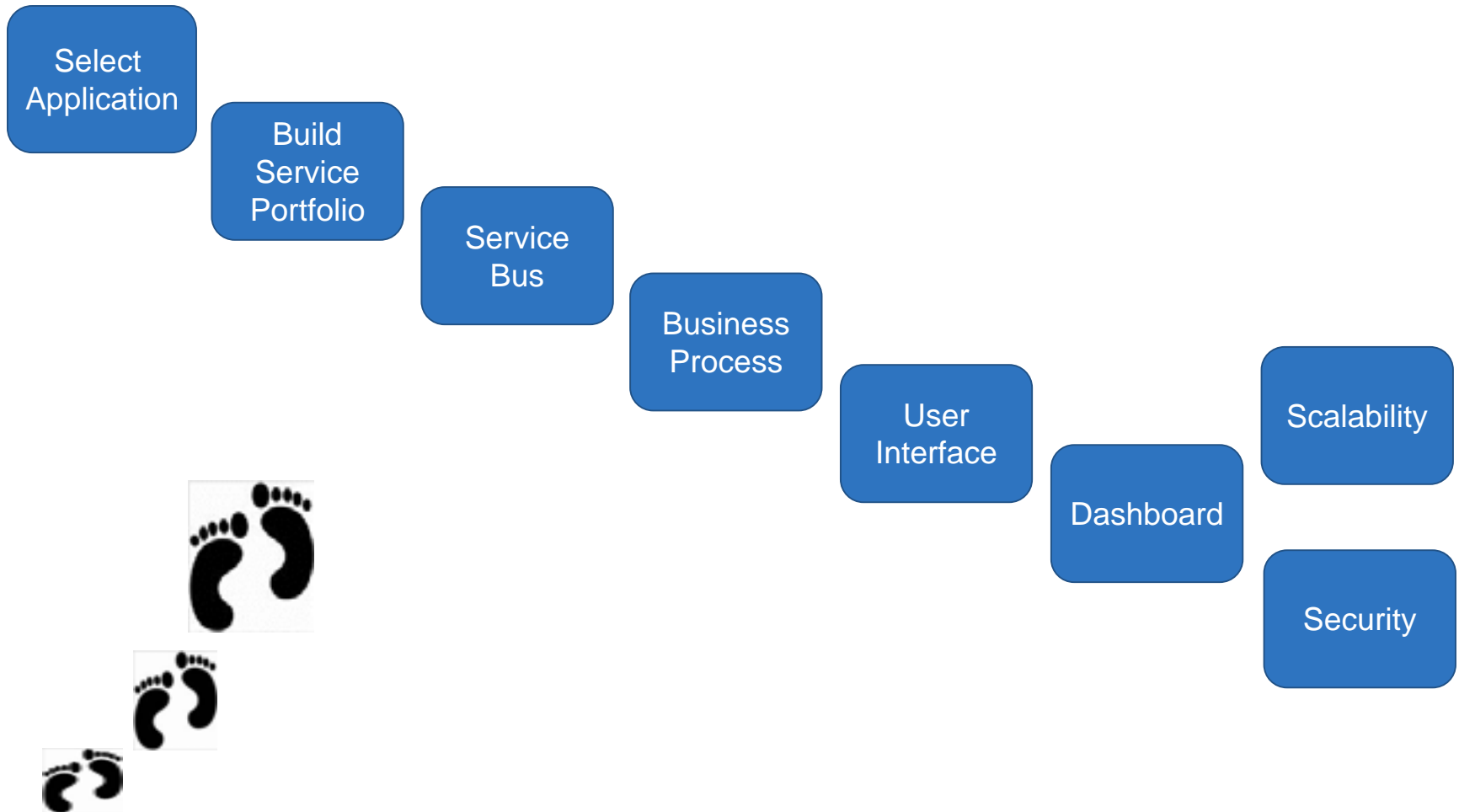
# SOA for Managers



# SOA

## Best Practices

# The Path to a Successful SOA Project





## 0 | Select An Application

### CRITERIA

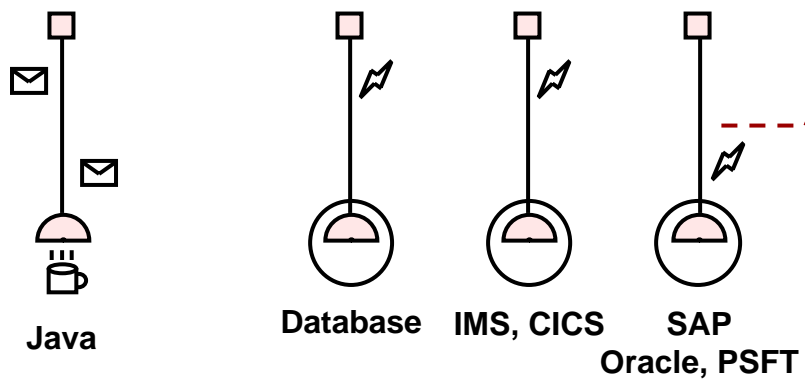
- Broken Process
- Lack of Visibility
- Variance
- Integration Points
- Clear Metrics



# 1 | Build Portfolio of Services

## - BEST PRACTICES

- Contract/Interface First
- Coarse Grain Documents
- Asynchronous Interactions
- Undo/Cancel Operations
- Versioning
- WS-I, Wrapped Document Style
- WSIF Binding to Java, JCA

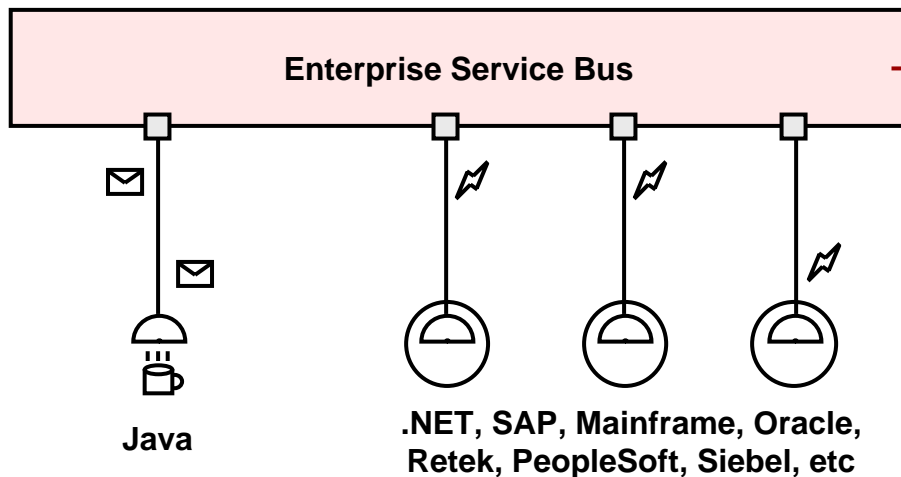




## 2 | Wire Through An Enterprise Service Bus

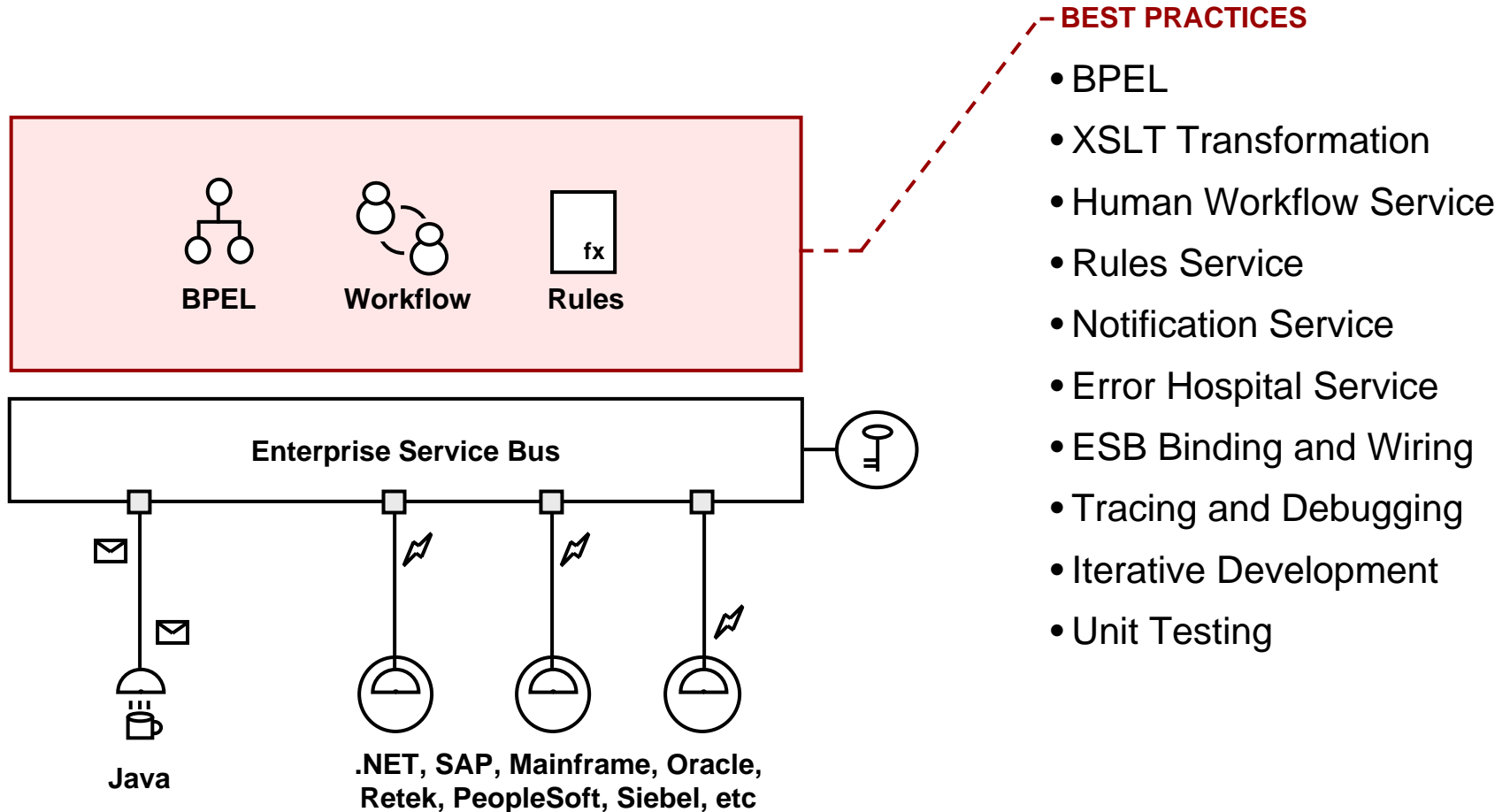
### BEST PRACTICES

- UDDI Registry
- JCA Adapters
- Integration with Policy Management Framework
- Service Virtualization Logical Naming
- Differed, Reliable Delivery (Configurable)





## 3 | Orchestrate into End-to-End Processes



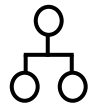


# 4 | Expose through Rich User Interfaces

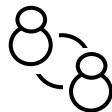
Portal, JSF Applications, .NET, Microsoft Office

**BEST PRACTICES**

- JSF
- WSRP, JSR-168



BPEL

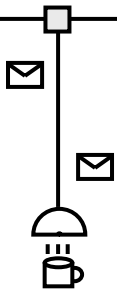


Workflow

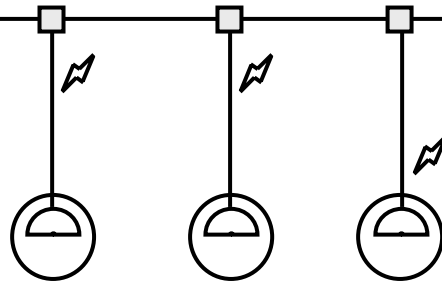


Rules

Enterprise Service Bus



Java

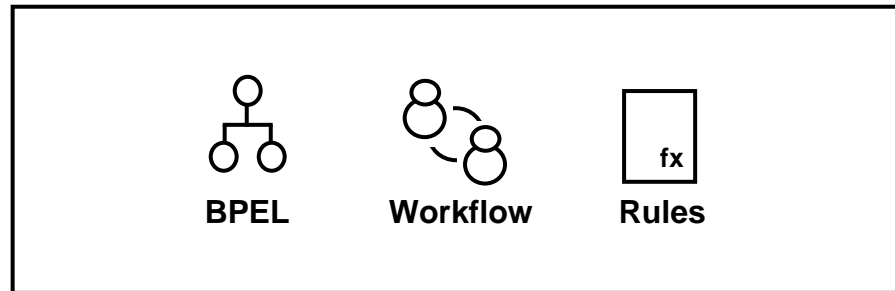


.NET, SAP, Mainframe, Oracle, Retek, PeopleSoft, Siebel, etc

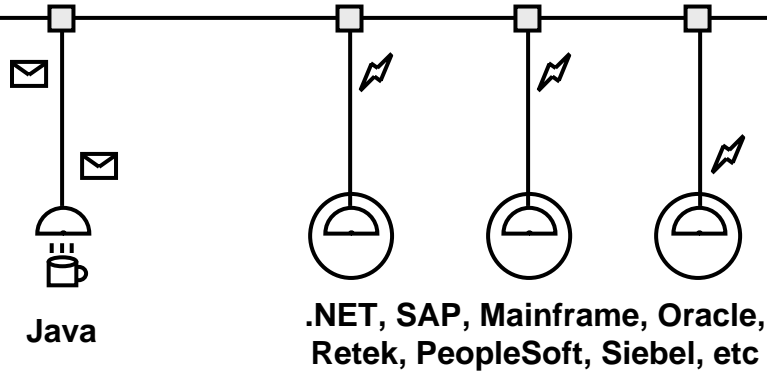


# 5 | Deliver Real-time Dashboards

Portal, JSF Applications, .NET, Microsoft Office



Enterprise Service Bus



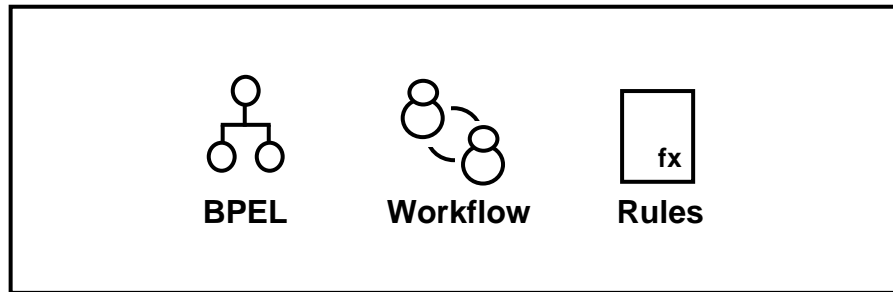
## BEST PRACTICES

- KPI First
- Sensors to Collect Events without Business Process Changes
- Real-time Dashboard
- Alert/Actions (Fusion Effect)

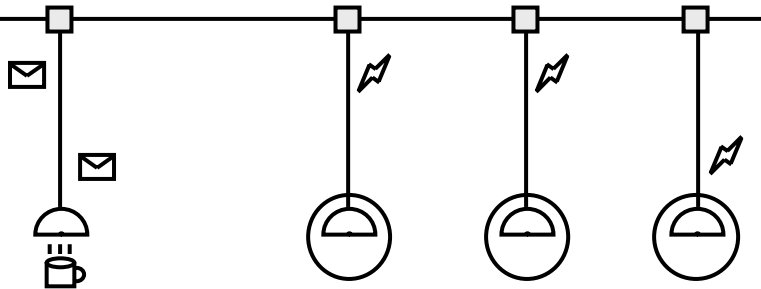


# 6 | Secure Interactions

Portal, JSF Applications, .NET, Microsoft Office



Enterprise Service Bus



Java

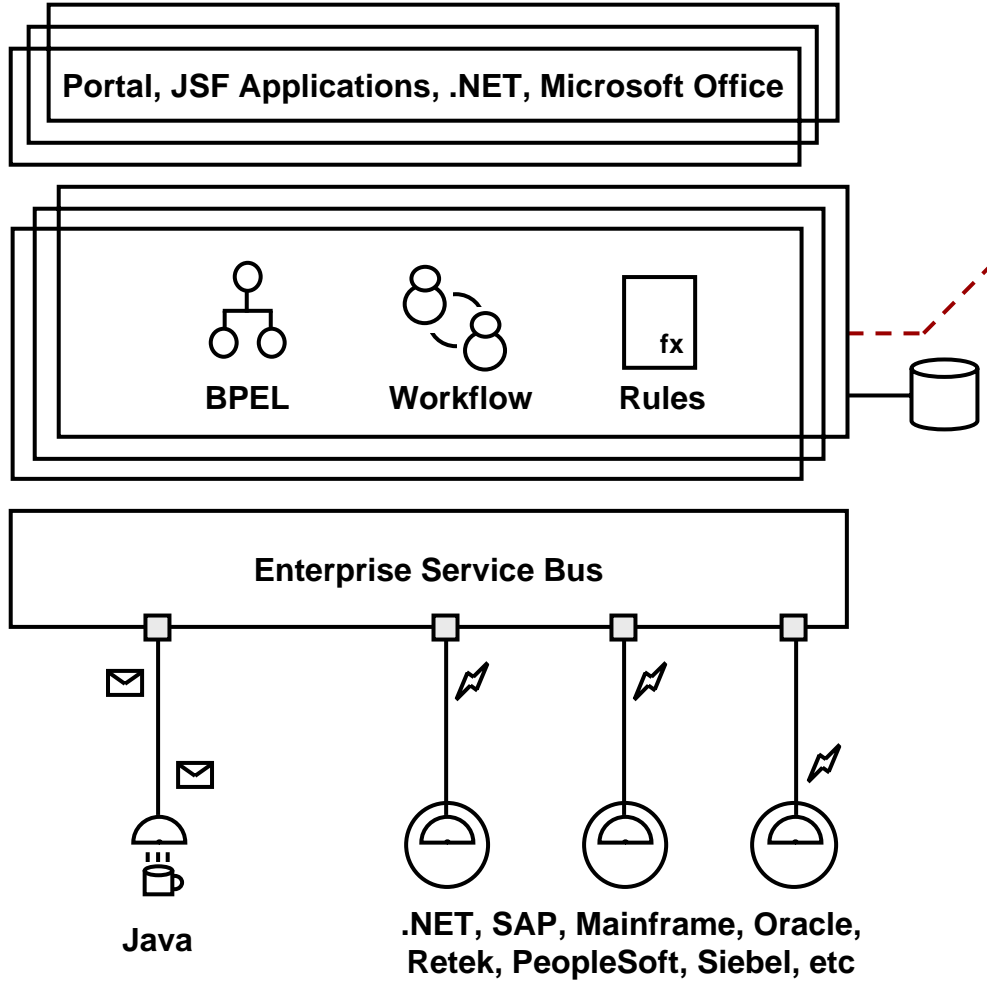
.NET, SAP, Mainframe, Oracle, Retek, PeopleSoft, Siebel, etc

## - BEST PRACTICES

- WS-Policy, WS-Security
- Change Policy without Changing Endpoint
- Integrated with ESB (Multi-binding Support)
- Agent and Gateway Mode
- Support for Java and .NET



# 7 | Scale On Demand



## - BEST PRACTICES

- Asynchronous Interactions
- Support for Large XML Documents
- Clustering-Friendly
- JCA and Java Binding
- Batch API



# Built-to-Change