



Technologie Seminars

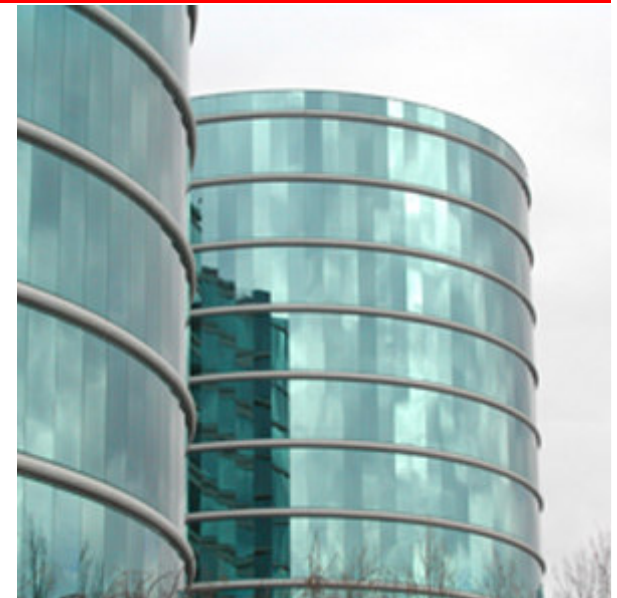
Database Technologie & Fusion Middleware Overview Seminar



ORACLE IS THE **INFORMATION** COMPANY

SOA – The next steps

How can you make it work?





Agenda

09.30 Opening

SOA – The next steps (Oracle Nederland)

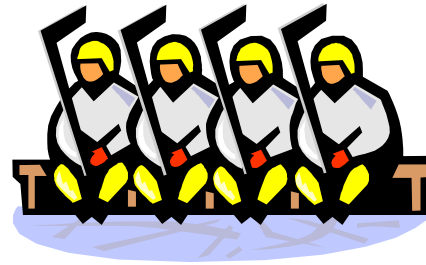
10.45 Pauze

11.15 InterAccess / Quion

11.45 Gemeente Arnhem

12.15 Vragen en afsluiting

Even voorstellen



- Oracle Nederland
 - Raymond Klein Robbenhaar (Dagvoorzitter)
 - Brian Wolff
 - Jan Poortinga
 - Rob Schootman
- Quion / Interaccess
 - Henk Nijenhuis
- Gemeente Arnhem
 - Bas Kooter
 - Gudron vd Wal

Technologie **Seminars**

Kalender najaar 2007

Overview Seminar

Database Technologie & Fusion Middleware Overview 31 augustus 2007

Praktijkgerichte overzichts-presentatie van de nieuwste Oracle Database Technologie en de Fusion Middleware software.

Database Technologie Seminars

- ▶ Security & Compliance 6 september 2007
In deze sessie ligt het accent op Database Security, een belangrijk onderdeel van de compliance eisen. Daarnaast komen Identity & Access Management en Data Vault aan bod.
- ▶ Lancering Oracle Database 11g 6 november 2007
Ontdek de innovatieve mogelijkheden voor beveiliging, compliance, beschikbaarheid en beheer van de nieuwe Oracle Database 11g.
- ▶ Database Application Development 8 november 2007
Vereenvoudigde applicatieontwikkeling met de Oracle Database, waarvoor gebruiksvriendelijke tools (gratis) meegeleverd worden.
- ▶ Enterprise Grid Computing 6 december 2007
Over Oracle RAC, voor het clusteren van fysieke servers tot één virtuele machine, en Oracle Enterprise Manager, voor het integraal beheer van uw IT-omgeving.

Fusion Middleware Seminars

- ▶ SOA: the next steps 20 september 2007
Geavanceerde mogelijkheden van Service Oriented Architectures op gebieden als Governance, Security en Business Activity Monitoring.
- ▶ Enterprise Content Management 11 oktober 2007
Ontdek de nieuwste Oracle oplossingen voor het beheren van site content en het creëren van één ingang voor alle bedrijfsapplicaties.
- ▶ Fusion Middleware & Oracle Applications 22 november 2007
Presentatie over de praktische inzetbaarheid van Fusion Middleware voor het integreren van onder meer de Oracle E-Business Suite, Siebel en PeopleSoft.
- ▶ Business Process Management 20 december 2007
Verbeter uw bedrijfsprocessen en verhoog de productiviteit met tools voor het analyseren en optimaliseren van uw bestaande applicaties.

ORACLE

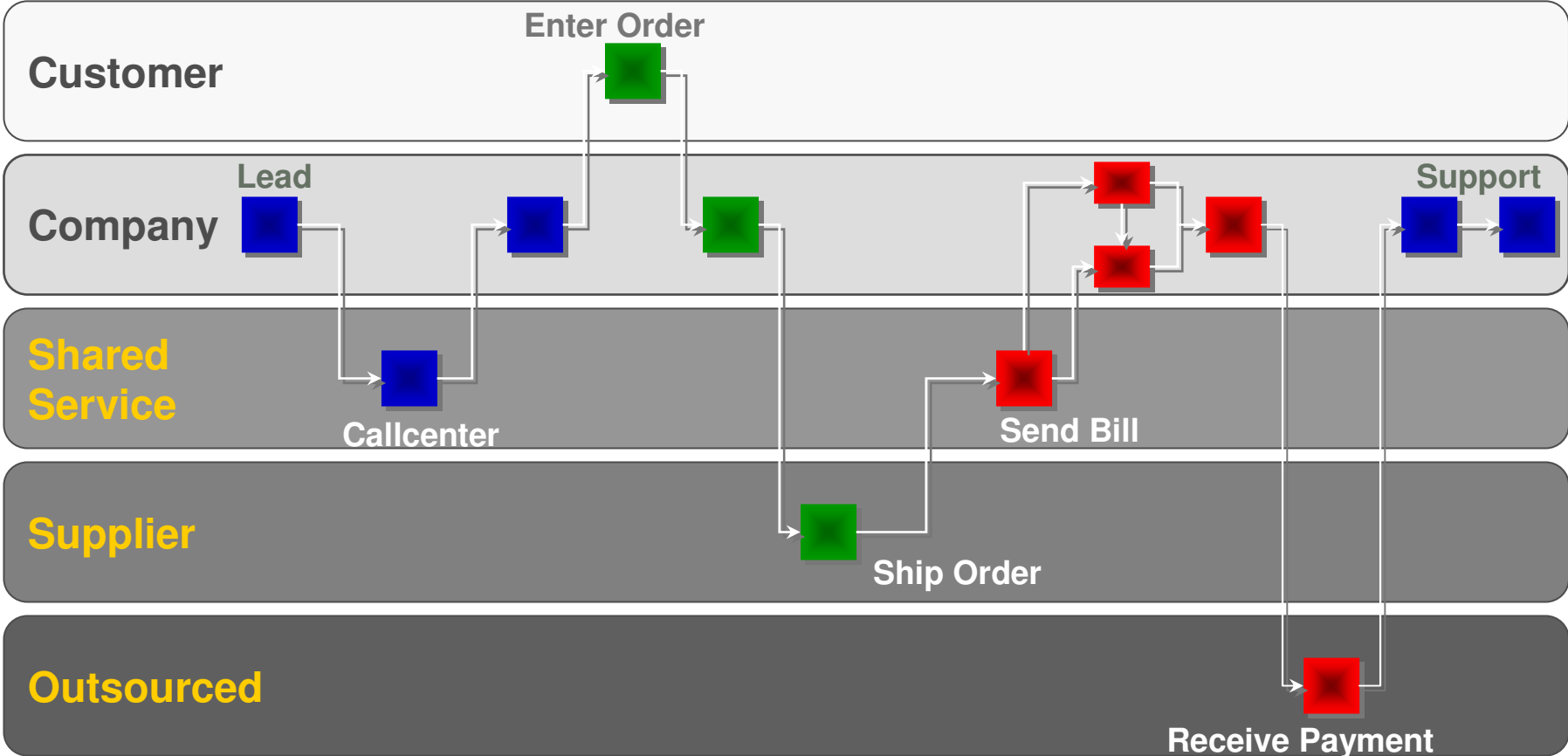


SOA “The Next Steps”

- Intro
 - What is SOA
 - Demo SOA basic components – ESB / BPEL
- Next steps for implementing SOA
 - Governance
 - UDDI repository, OWSM, OEM, BAM
 - SOA Suite
 - BPA suite
- Next step in SOA suite development
 - Oracle SOA Suite 11g – brief preview

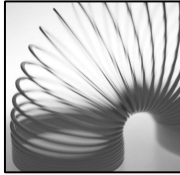


An Enterprise Process





But your CEO wants from IT...



Support Growth & Change

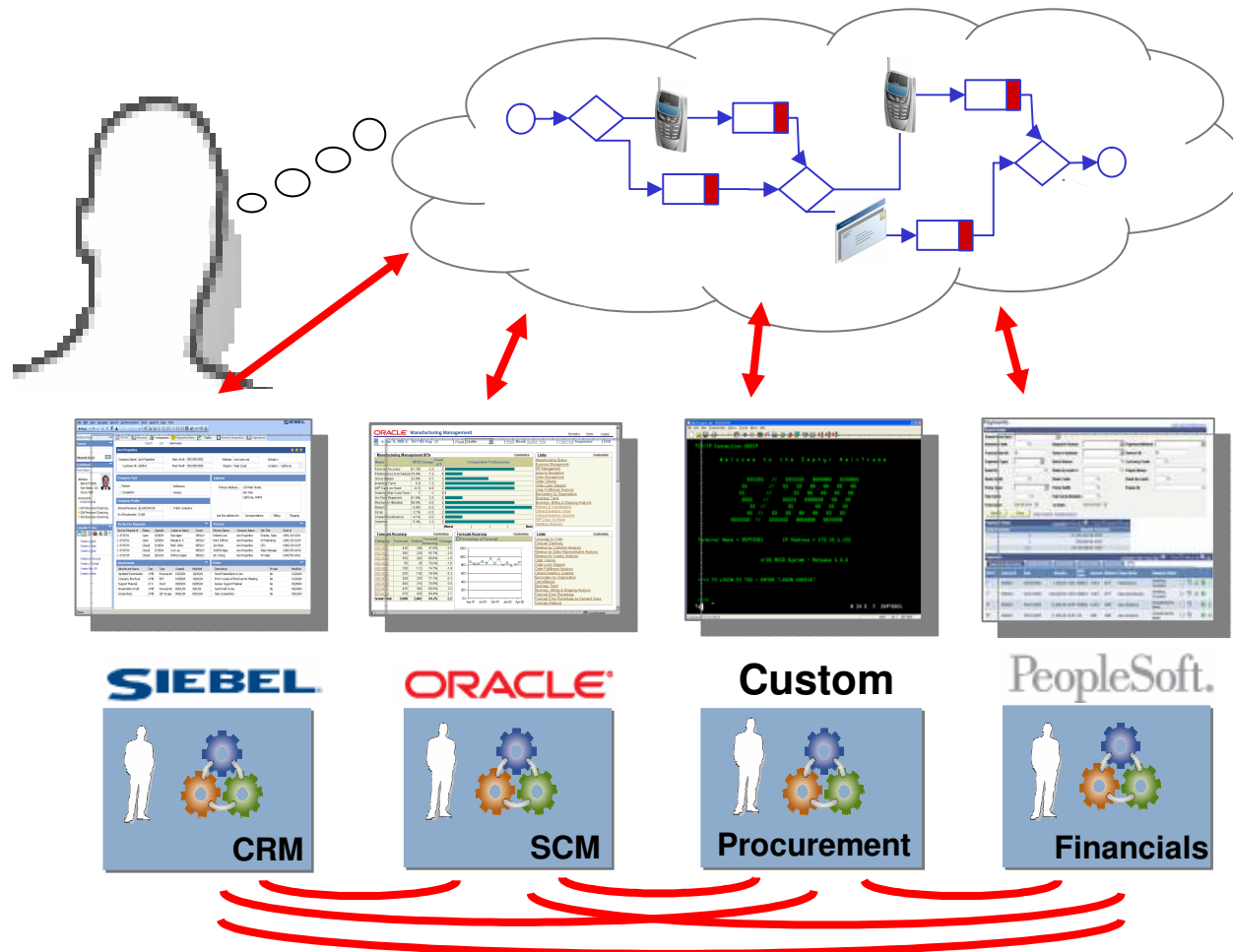


Business Insight



Compliance & Risk Mitigation

Typical Situation



- Silos of systems
- No business alignment
- No use of standards
- User drives process
- Rigid architecture
- Hard to maintain



What Is “SOA”?

Service-oriented architecture:

- Concept – not a product
- Loosely coupled software services

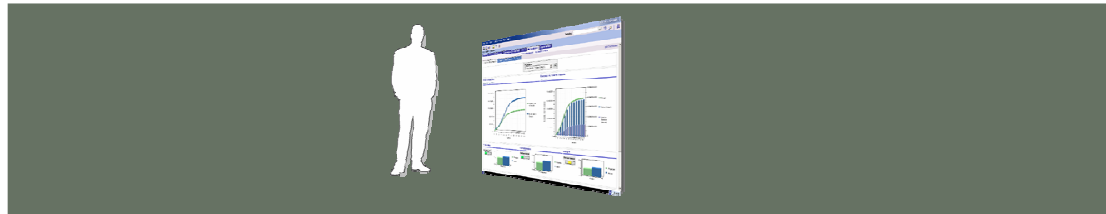
A **service** is a function that

- Supports a business process
- Is well-defined and self-contained
- Described solely by its interface contract and behavioral attributes

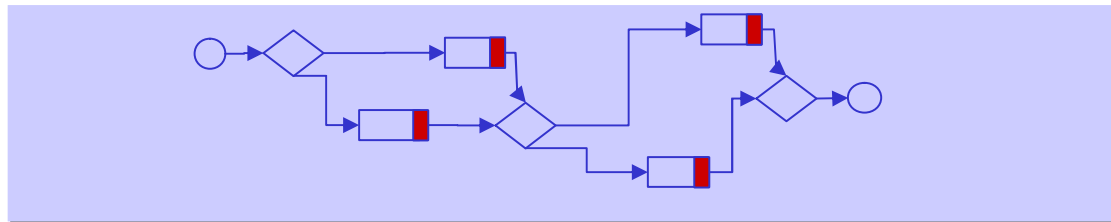
SOA heavily relies on *standards* to ease system connectivity

- Standard data format
- Standard interface definitions
- Standard wire protocols
- Standard security protocols

SOA Architecture with BPM



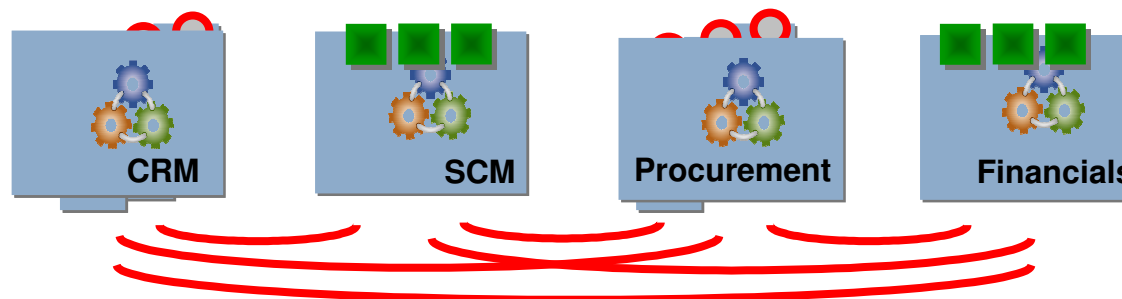
Integrated, Dynamic
User Interface



Cross-Application
Business Process
Automation



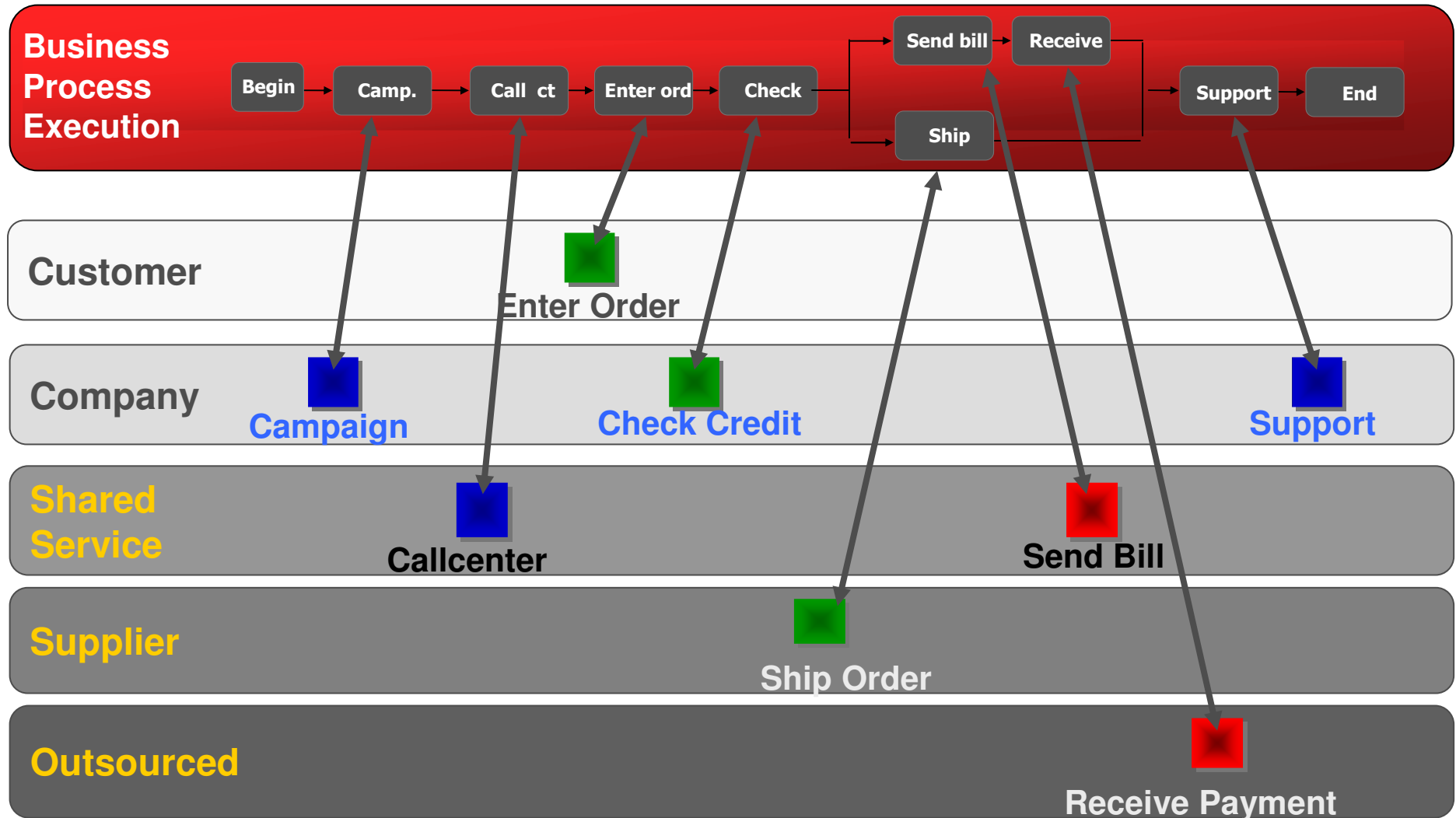
Virtualization,
Integration and
Mediation



Applications/
Services

Business Process Management


Service Orientation with Orchestration



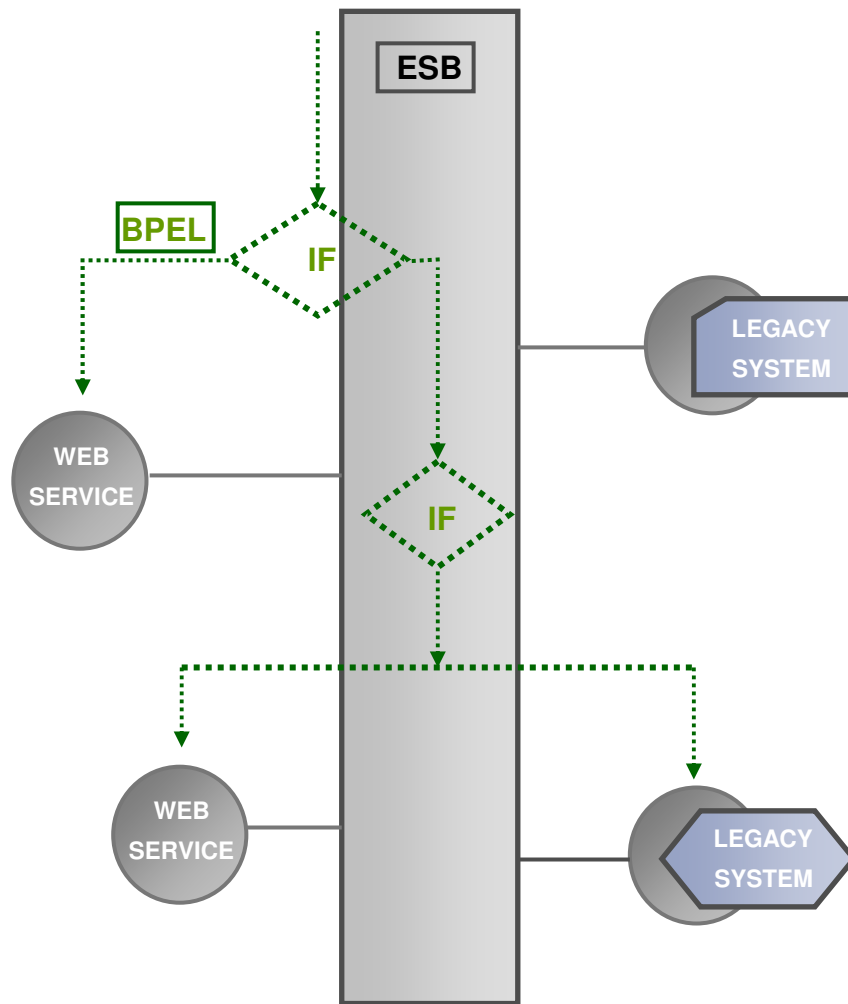


SOA Advantages

- Silos of systems
- No business alignment
- No standards
- User drives process
- Rigid architecture
- Hard to maintain
- ✓ Reusable business components
- ✓ Better Alignment
- ✓ Standards based
- ✓ Automated process
- ✓ Flexibility
- ✓ Standard components/services

- 
- Shorter time to market
 - User- friendliness
 - Business Insight
 - ...

Components of a SOA Infrastructure



Build/re-use Services
Web or Legacy Services

Connect
ADAPTERS

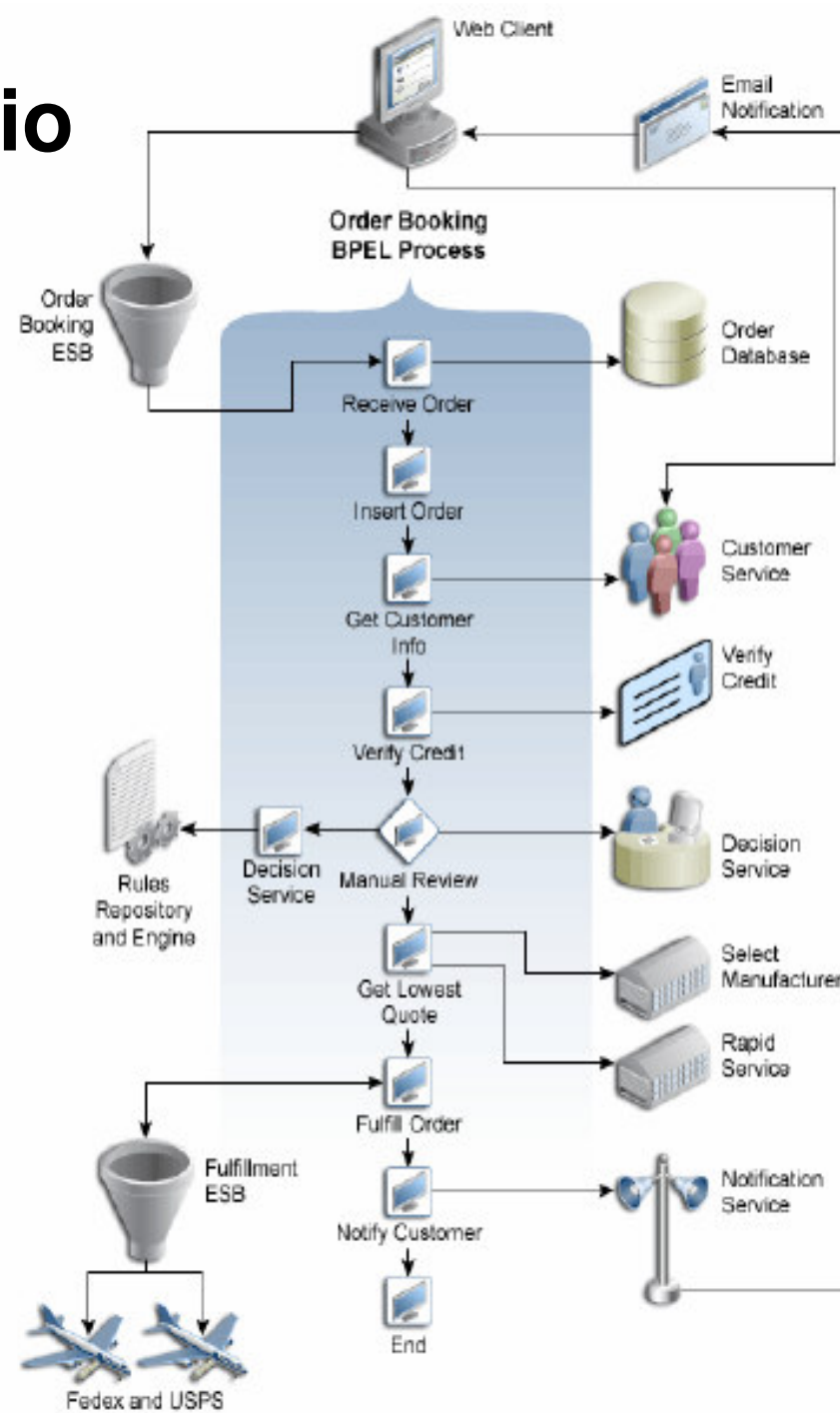
Route & Transform
ESB

Orchestrate
BPEL/BPM ENGINE

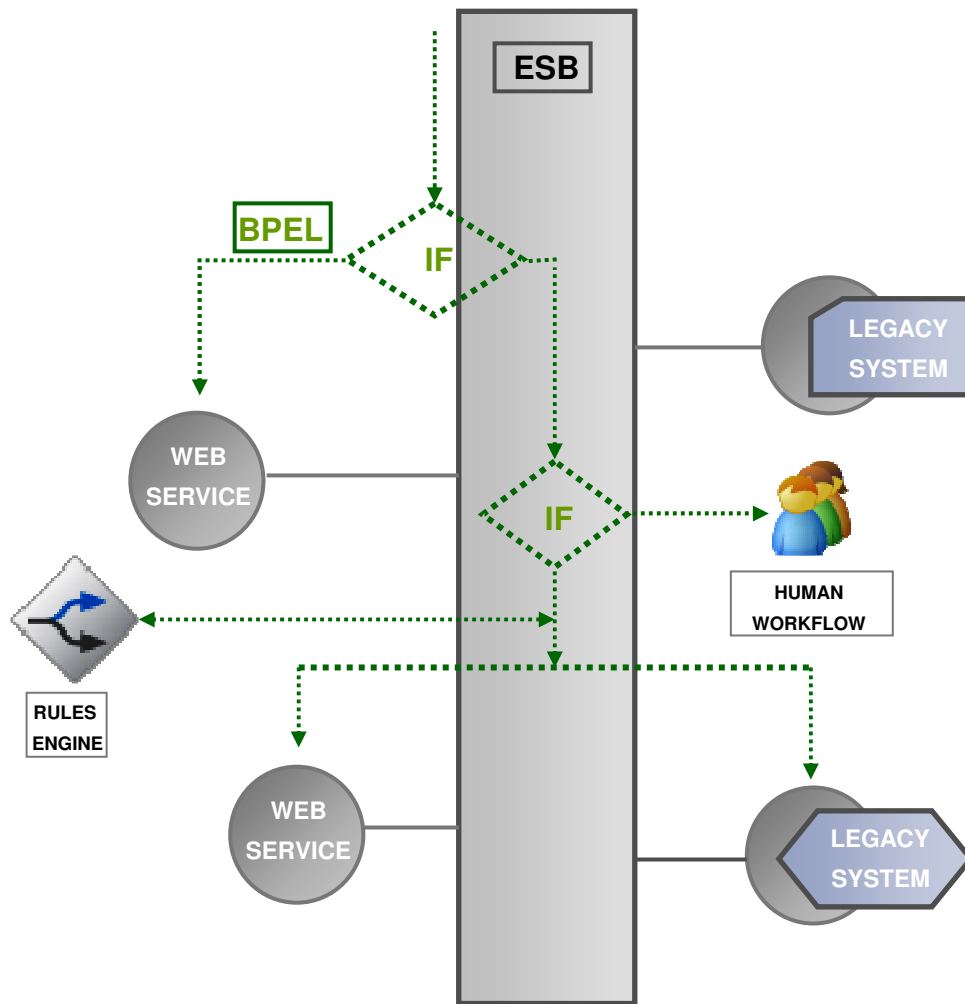


Demo scenario

Order Booking



Components of a SOA Infrastructure



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Route & Transform
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BPEL/BPM ENGINE

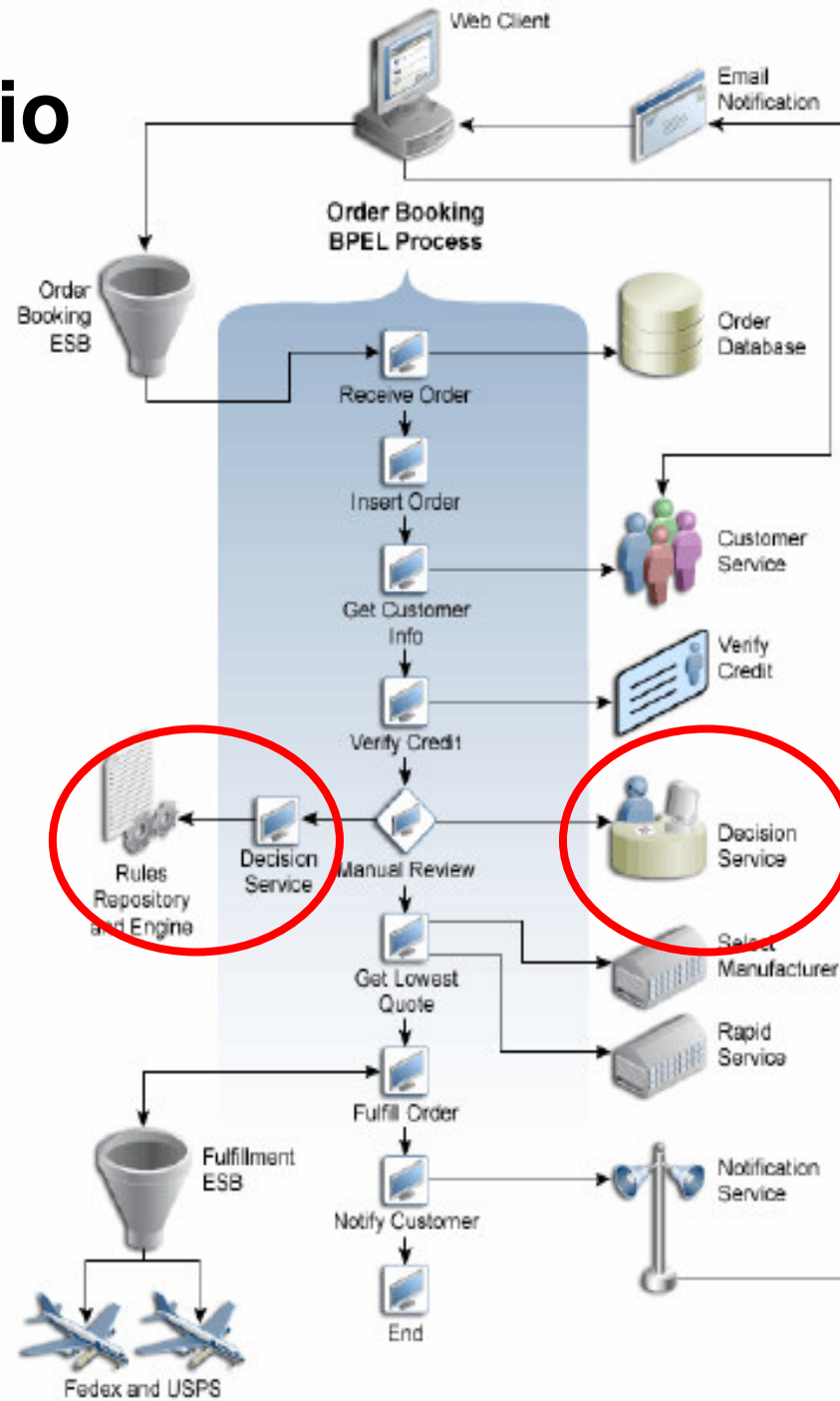
Involve human beings
HUMAN WORKFLOW

Externalize business rules
RULES ENGINE



Demo scenario

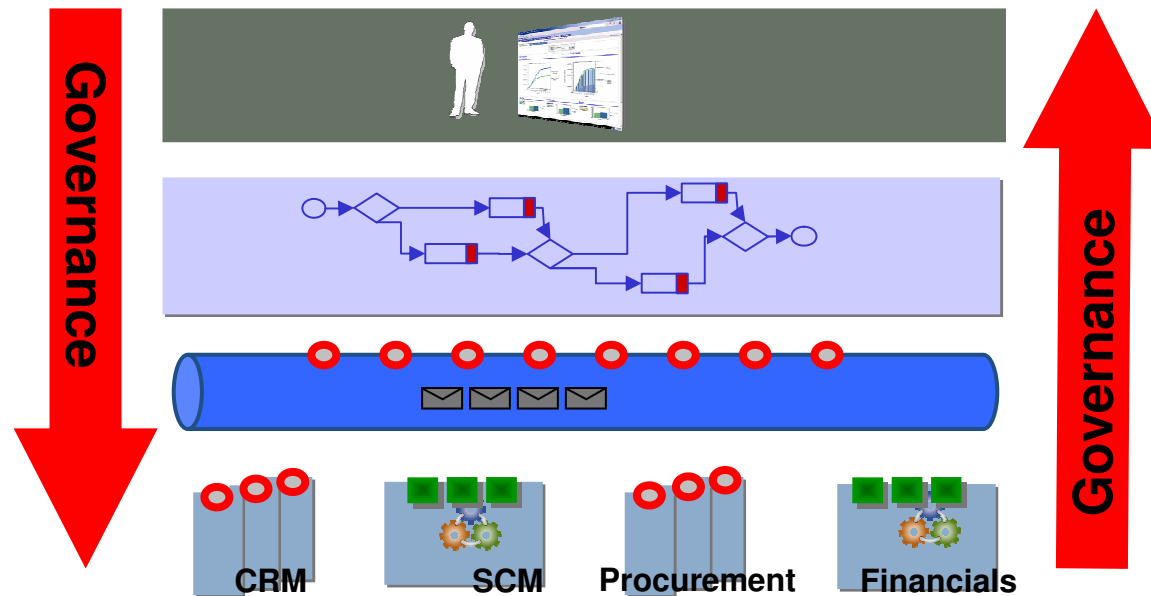
Order Booking



Governance:

Definition

- IT governance is the responsibility of executives and the board of directors, and consists of the leadership, organisational structures and processes that ensure that the enterprise's IT sustains and extends the organisation's strategies and objectives.



IT Governance.. (volgens Cobit)

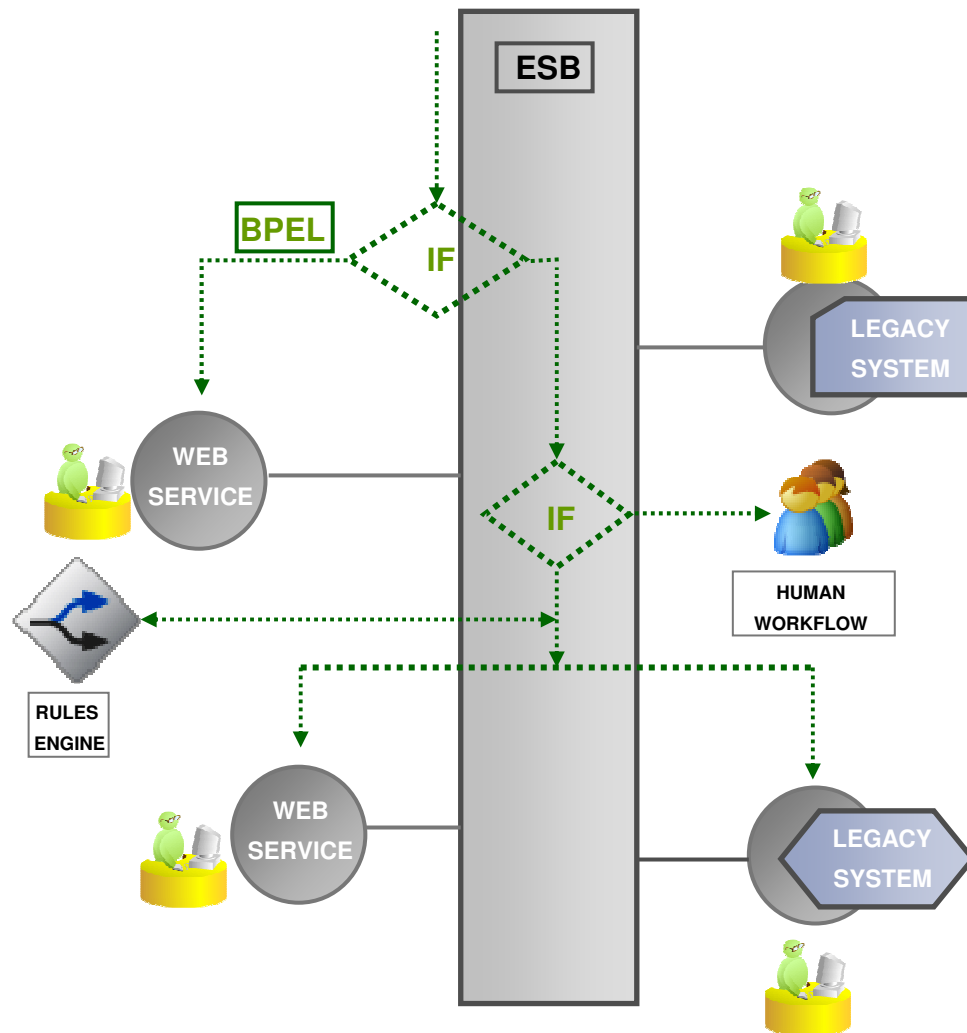
Control Objectives for Information and related Technology

Best Practices - Focus Areas:



- **Strategic alignment** focuses on ensuring the linkage of business and IT
- **Value delivery** is about ensuring that IT delivers the promised benefits against the strategy,
- **Resource management** is about the optimal investment in, and the proper management of, critical IT resources:
- **Risk management** requires risk awareness by senior corporate officers, transparency about the significant risks to the enterprise.
- **Performance measurement** tracks and monitors strategy implementation, project completion, resource usage, process performance and service delivery,

Components of a SOA Infrastructure



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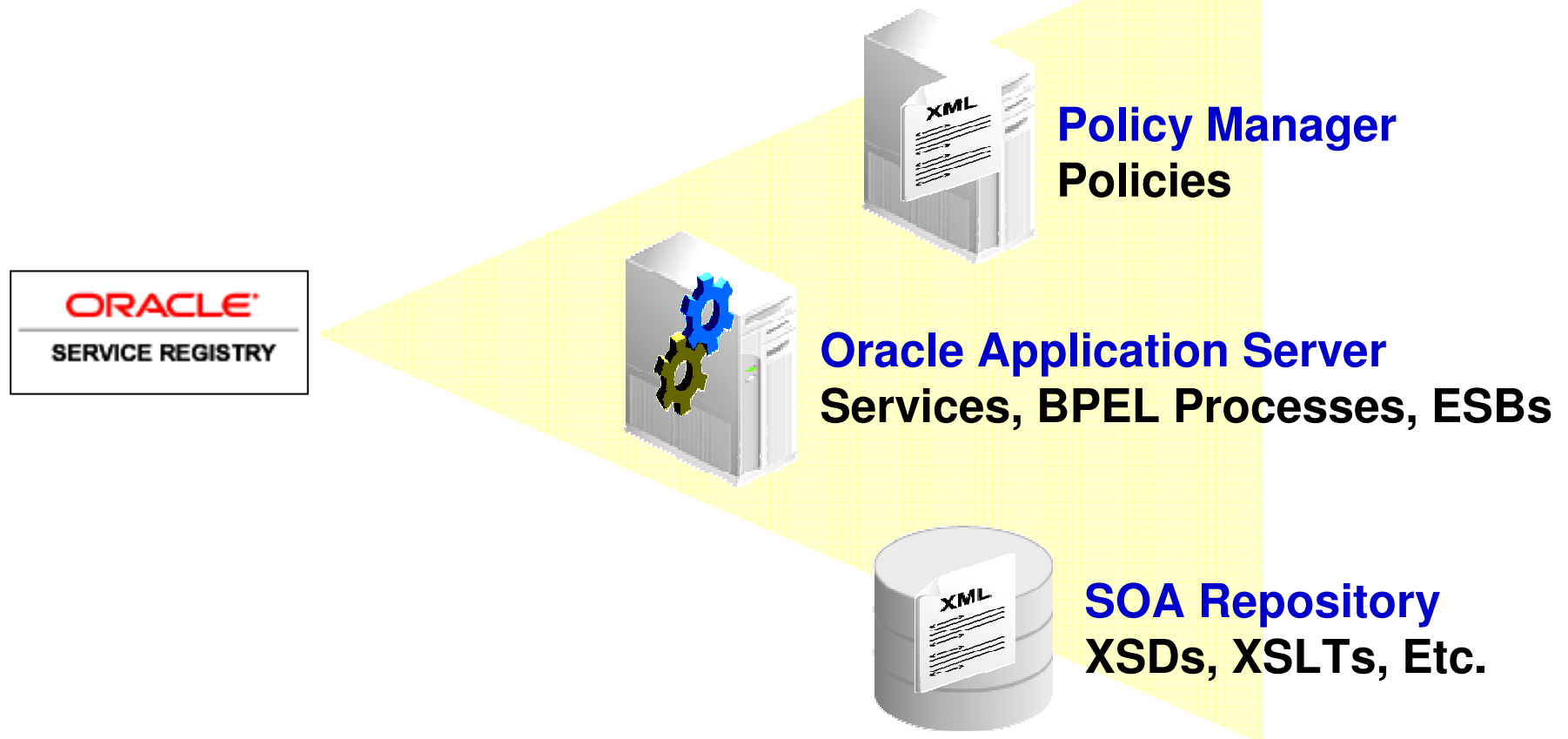
Involve human beings
HUMAN WORKFLOW

Externalize business rules
RULES ENGINE

Discover & Publish
SERVICE REGISTRY

What Is The Registry?

Provides visibility into services, service providers and related resources across the enterprise





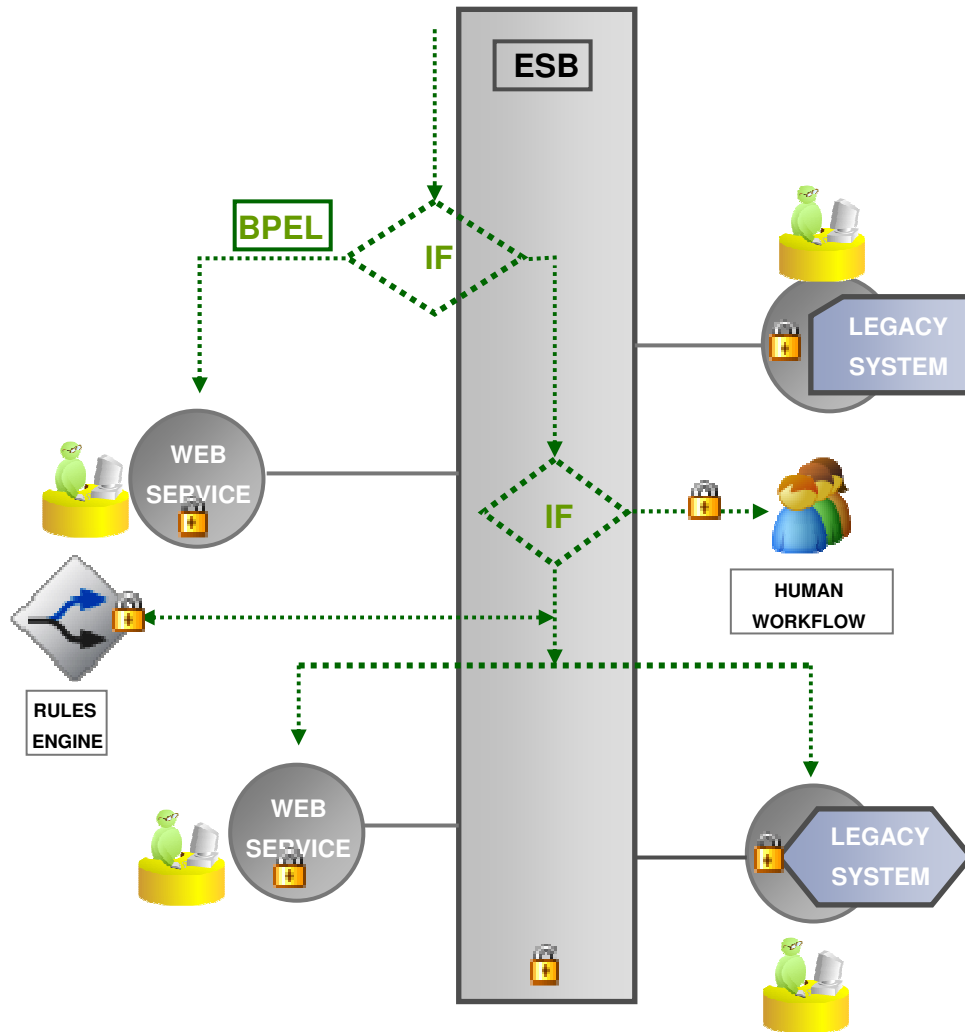
Registry Provides Key SOA Governance Capabilities

“Those IT managers seeking closer alignment with business goals must combine the ideas of registries, policy and business services to increase the chances of success.”

— Gartner Group

- Lifecycle management via custom taxonomies
- Change notification
- Controlled view and access into services
- SOA metadata management
- Quality control through approval process

Components of a SOA Infrastructure



Build/re-use Services
Web or Legacy Services

Connect
ADAPTERS

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ESB

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Involve human beings
HUMAN WORKFLOW

Externalize business rules
RULES ENGINE

Discover & Publish
SERVICE REGISTRY

Secure
GLOBAL SECURITY FRAMEWORK

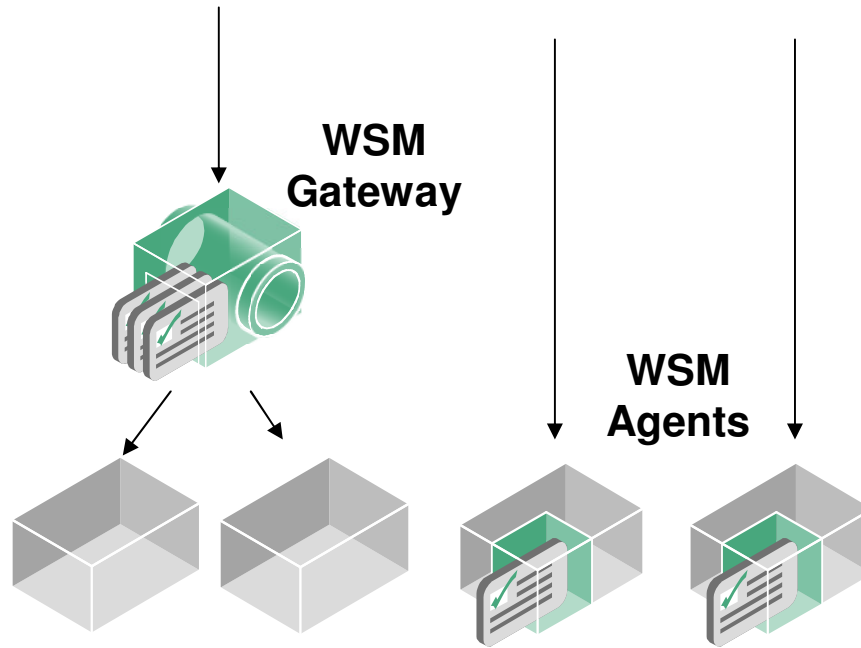
Oracle Web Services Manager

BUILD
Policies



**Policy
Manager**

ENFORCE
Policies



Web Services

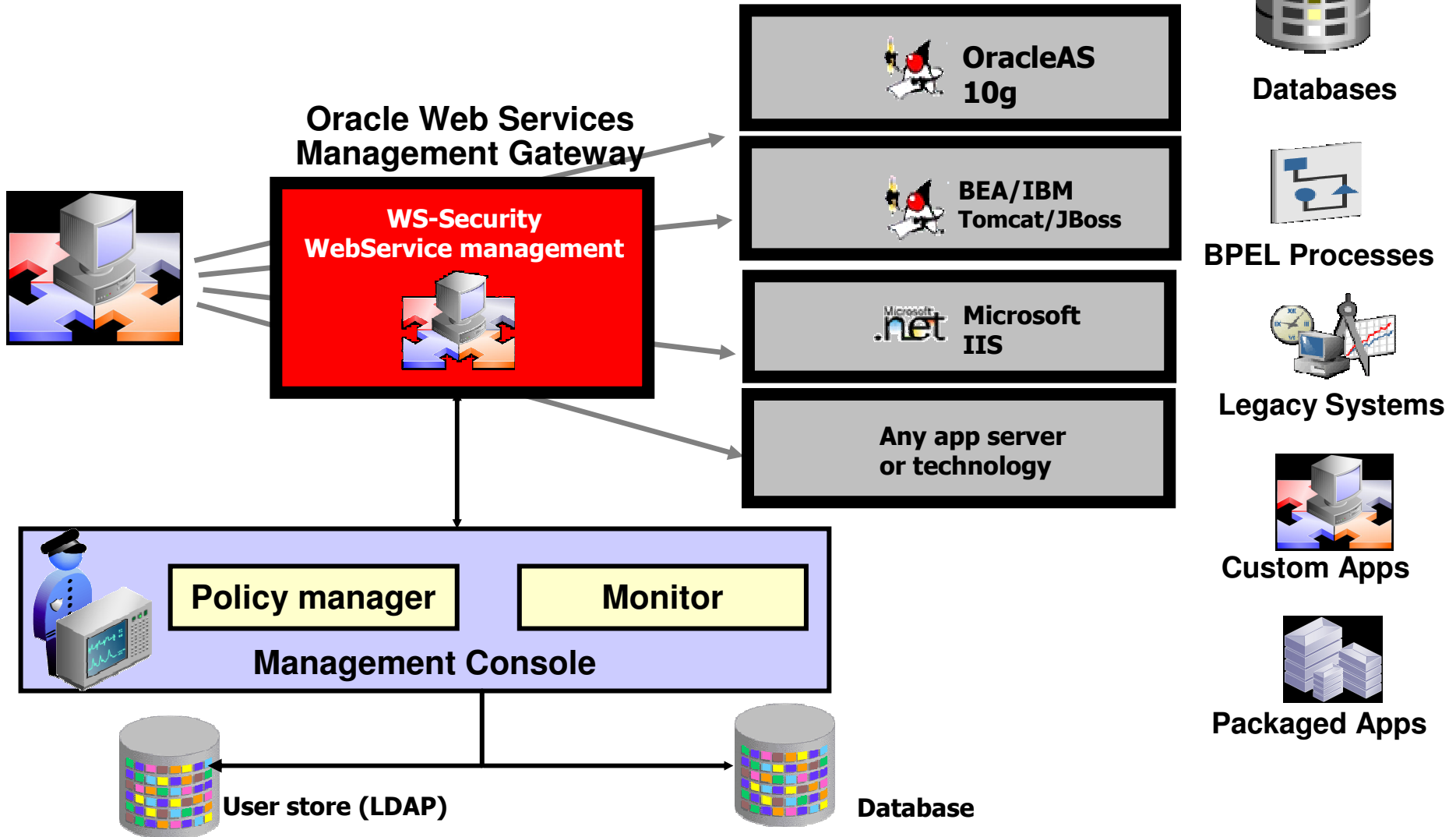
MONITOR
Policies



**Web Service
Monitor**

Manage Web Services

Oracle Web Services Management gateway

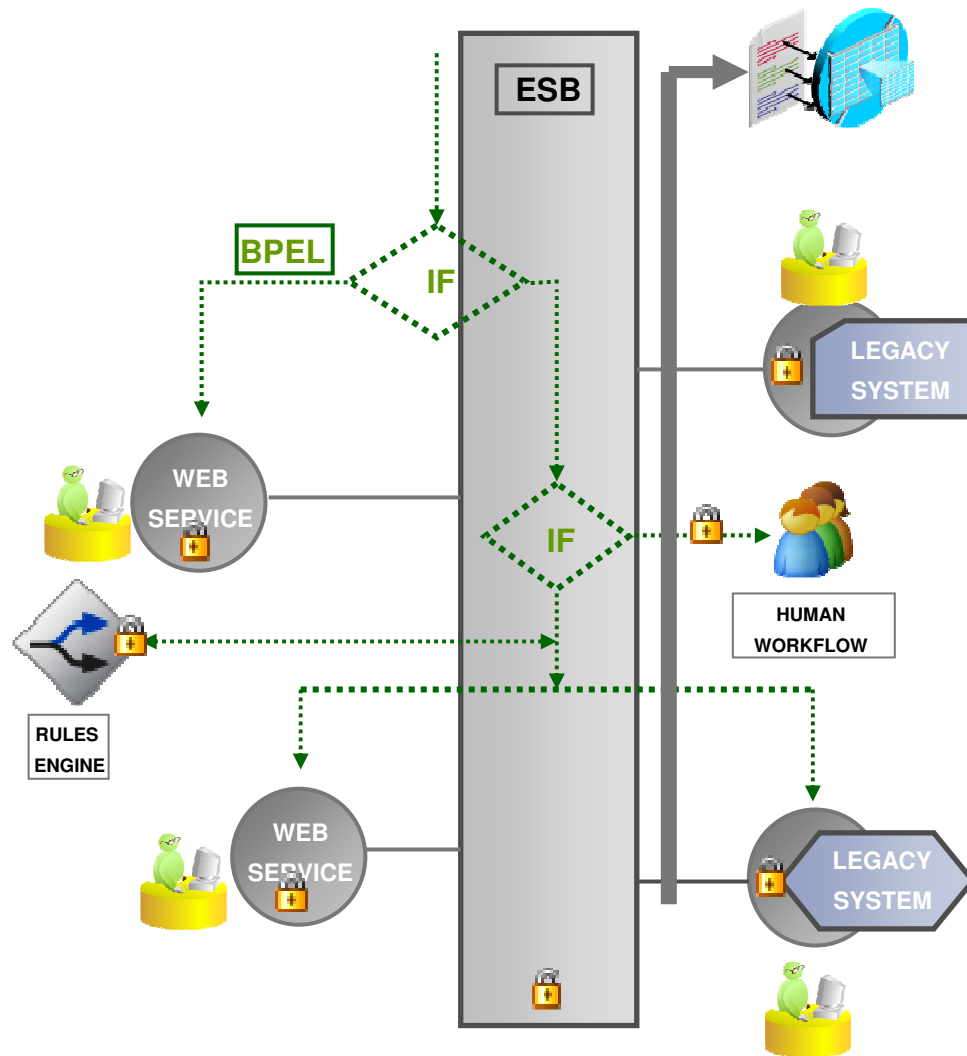




Support For Key Security Standards

- Encryption algorithms: AES-128, AES-256, 3-DES
- Message digests: MD5, SHA-1
- Message structure: XML / SOAP / WS-Security1.0
 - Security token profiles: Username, X.509, SAML
- Message integrity: XML Signature,
- Message confidentiality: XML Encryption
- PKI
 - Key encryption: RSA OAEP-MGF1P, RSA V1.5
 - Signature algorithms: RSA (PKCS #1) (1024-, 2048-bit keys), DSA
 - Credentials store, wallets: PKCS#12

Components of a SOA Infrastructure



Build/re-use Services
Web or Legacy Services

Connect
ADAPTERS

Route & Transform
ESB

Orchestrate
BPEL/BPM ENGINE

Involve human beings
HUMAN WORKFLOW

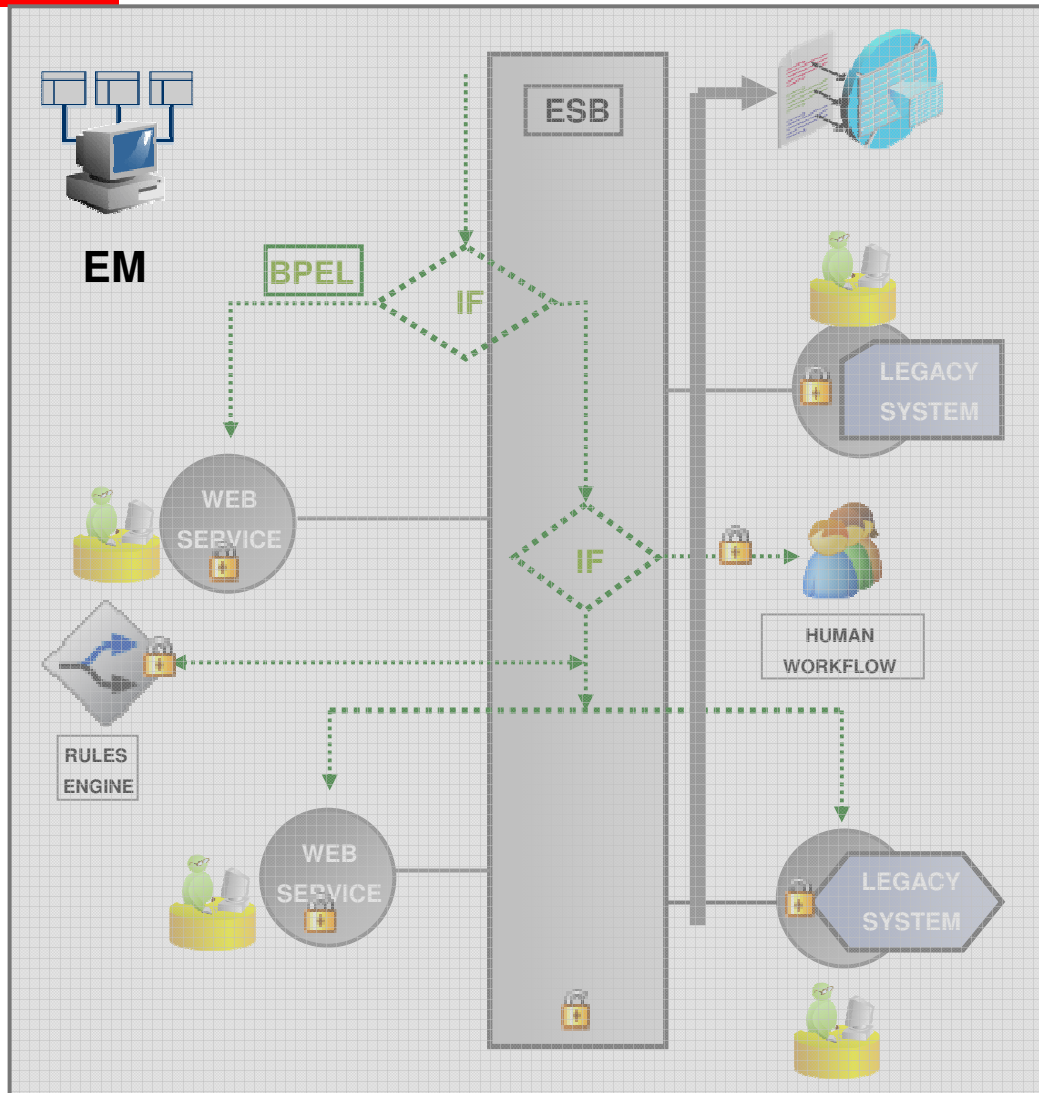
Externalize business rules
RULES ENGINE

Discover & Publish
Service Registry

Secure
GLOBAL SECURITY FRAMEWORK

Monitor, Analyze & Act
BAM

Components of a SOA Infrastructure



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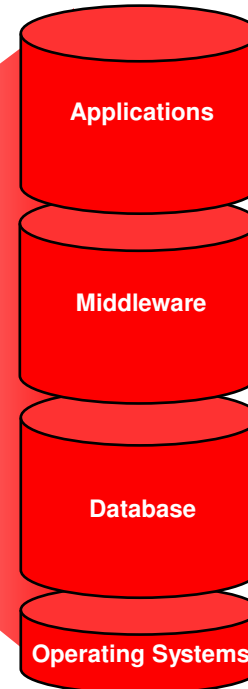
Secure
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Monitor, Analyze & Act
BAM

Manage
Enterprise Manager

Oracle Enterprise Manager 10g Release 3

- Configuration Management
- Service Level Management
- Application Performance Mgmt
- Lifecycle Management
- Dashboards



- BEA
- BEZ
- Blue Lane
- Check Point
- Citrix
- Dell
- Egenera
- EMC
- F5
- IBM
- Juniper
- Microsoft
- NetApp
- Nortel
- Onaro
- Pillar Data
- Radware

- E-Business Suite
- PeopleSoft
- Siebel
- **Oracle SOA Management**
- Oracle Identity Management
- Remedy
- Microsoft MOM
- SAP
- JBoss
- IBM WebSphere MQ

SOA Management Pack

SOA RunTime Governance – Manage for agility

Partner Links
Provides details about the partner links associated with the selected process. Add SOAP Test allows you to add S...

(Add SOAP Test)

Select	Name	Port Type	Operation	WSDL URL
<input checked="" type="radio"/>	client	SOAOrderBookingCallback	onResult	http://stapp0
<input type="radio"/>	CreditValidatingService	ValidateCreditCard	initiate	http://stapp0
<input type="radio"/>	CustomerService	CustomerService	VerifyCC	http://stapp0
<input type="radio"/>	DecisionServicePL	IDecisionService	findCustomerByld	http://stapp0
<input type="radio"/>	NotificationService	NotificationService	assertExecuteWatchStateful	http://stapp0
<input type="radio"/>	Order	Order_ptt	WSDL	http://stapp0
<input type="radio"/>	OrderFulfillment	write	execute	http://stapp0
<input type="radio"/>	OrderSequence	execute_ppt		http://stapp0
<input type="radio"/>	OrderStatus	OrderSequence_ptt		http://stapp0
<input type="radio"/>	OrderStatus_ptt	OrderStatus_ptt		http://stapp0
<input type="radio"/>	OrderStatus_ptt	OrderStatus_ptt		http://stapp0
<input type="radio"/>	RapidService	RequestQuote		http://stapp0
<input type="radio"/>	SelectService	SelectService		http://stapp0

Error Instances
Page Refreshed Feb 28, 2007 1:22:35 PM PST

The error instance table provides details about the 10 most recent error instances occurred during the last collection. To view more details about the error, click the instance id

Instance ID	State	Domain	Process	Failure Stage	Last Modified Date	Creation Date
2700561	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:50:44 PST 2007	Wed Feb 28 12:50:44 PST 2007
2700560	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:42:45 PST 2007	Wed Feb 28 12:42:45 PST 2007
2700559	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:35:44 PST 2007	Wed Feb 28 12:35:44 PST 2007
2700545	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:27:45 PST 2007	Wed Feb 28 12:27:45 PST 2007
2700539	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:20:45 PST 2007	Wed Feb 28 12:20:45 PST 2007
2700534	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:12:45 PST 2007	Wed Feb 28 12:12:45 PST 2007
2700528	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 12:05:44 PST 2007	Wed Feb 28 12:05:44 PST 2007
2700523	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 11:57:45 PST 2007	Wed Feb 28 11:57:45 PST 2007
2700517	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 11:50:44 PST 2007	Wed Feb 28 11:50:44 PST 2007
2700512	CLOSED_FAULTED	default	SOAOrderBooking(v.1.0)	CustomerService	Wed Feb 28 11:42:45 PST 2007	Wed Feb 28 11:42:45 PST 2007

Error Instances Since Last Collection: BP

BPEL Domain Name default
BPEL Process Name SOAOrderBooking(v.1.0)

Statistics

Last Known Value 0
Average Value 3.38
High Value 26
Low Value 0
Warning Threshold Not Defined
Critical Threshold Not Defined
Occurrences Before Alert 1
Corrective Action None

Metric Value

SOA_Instance.stapp04.us.oracle.com_bpel

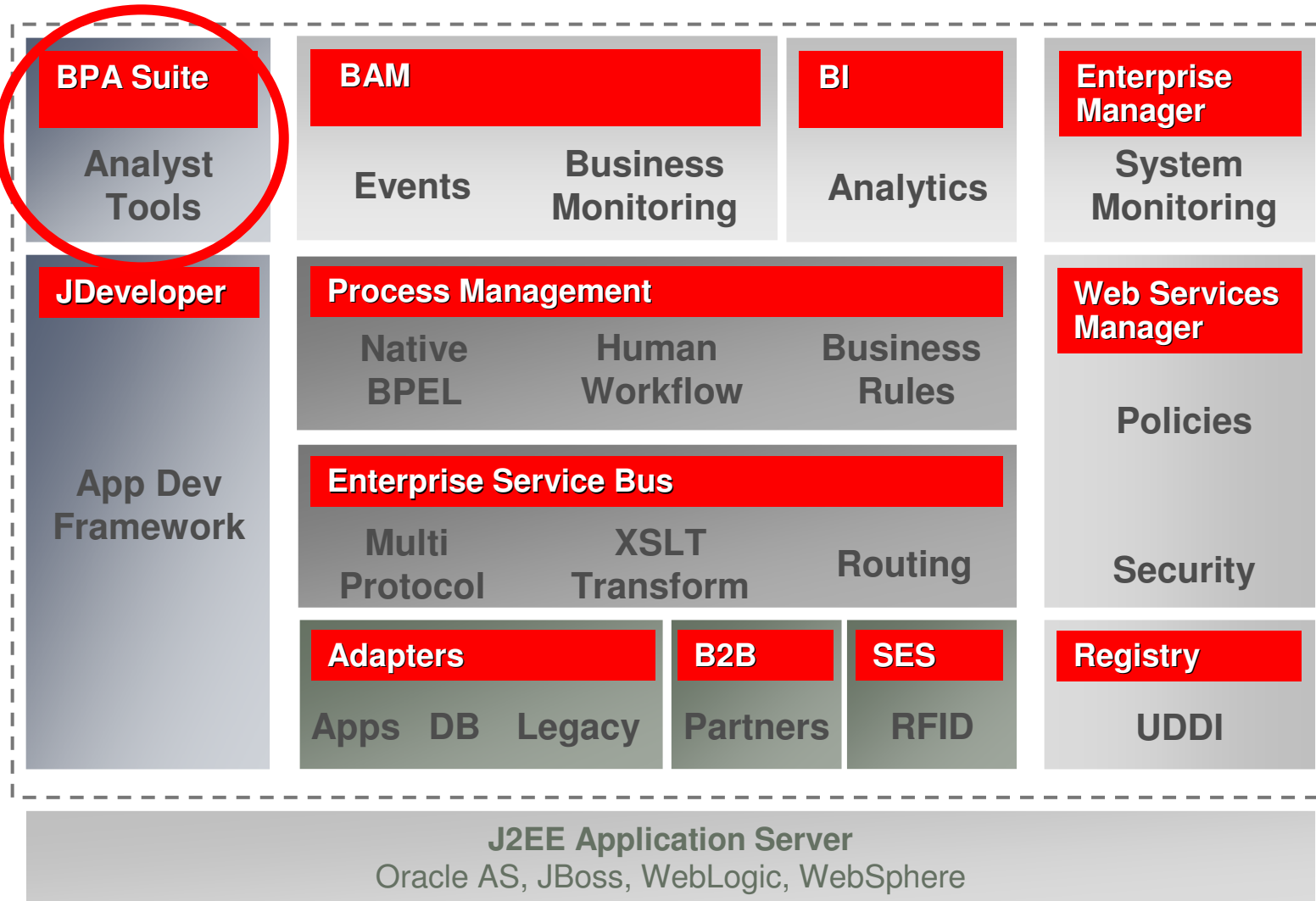
- **Manage what matters**
 - Auto-discover design time dependencies
 - Model processes as services
- **BPEL Process Monitoring**
 - Latency, Throughput, Volume metrics
 - BPEL process errors
- **BPEL partner link monitoring**
 - SOAP Service Tests
 - AS Web services
- **SOA Infrastructure Monitoring**
 - BPEL PM, AS, DB dehydration store, etc.



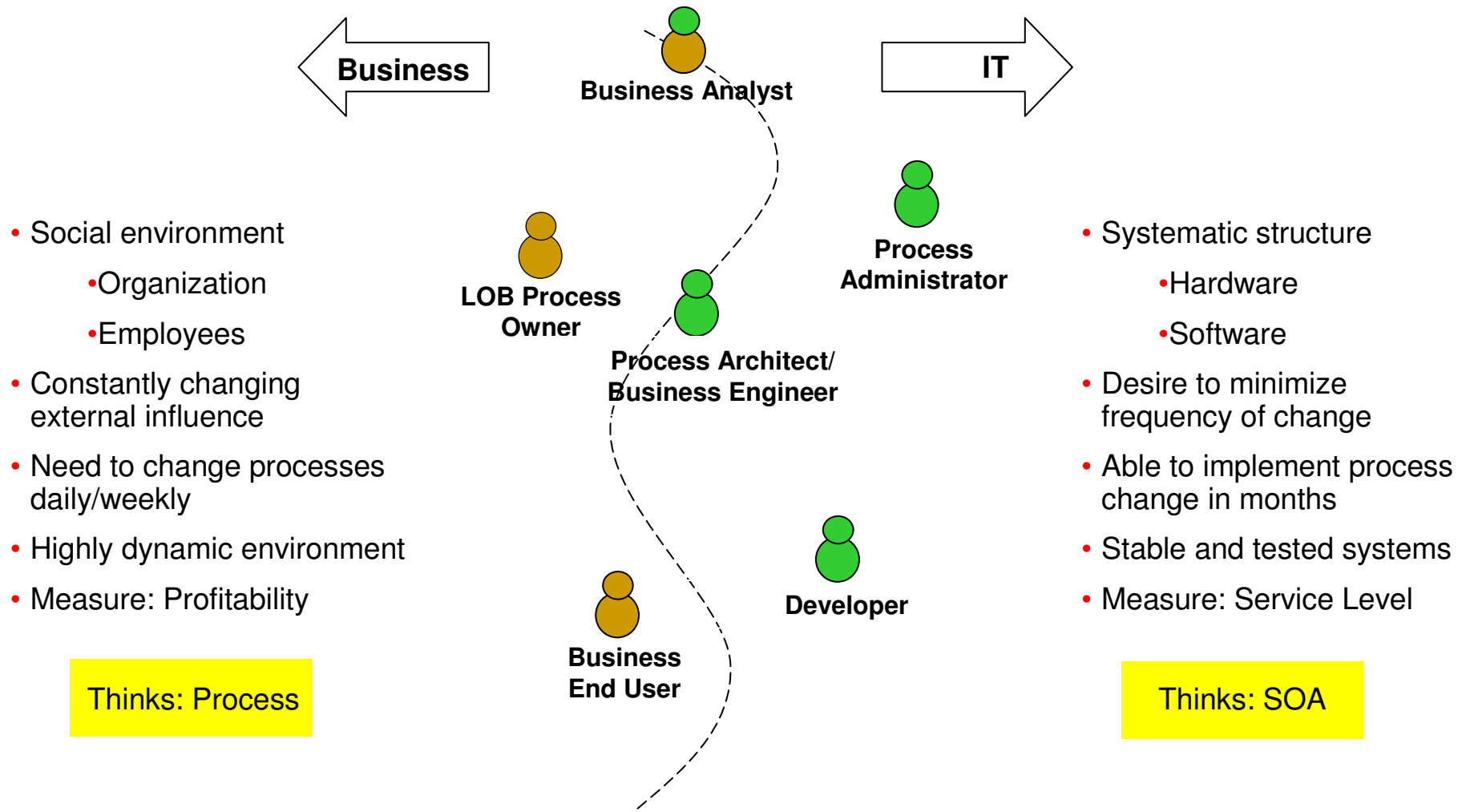
SOA “The Next Steps”

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 - Oracle SOA Suite 11g – brief preview

Oracle SOA Product Mapping

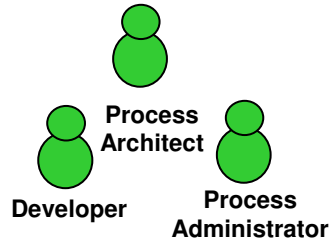


Collaboration between Business and IT

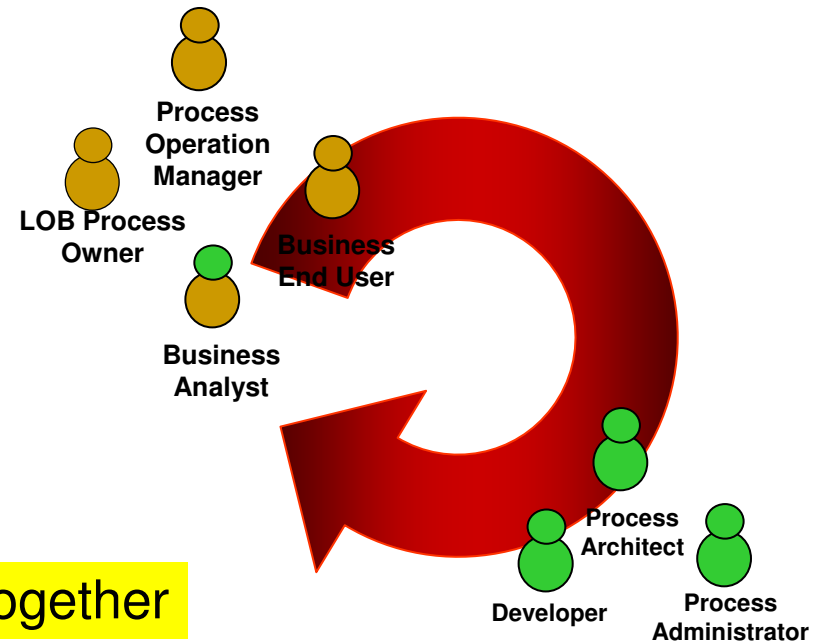


BPM and SOA – Different Audiences

- SOA addresses an IT audience



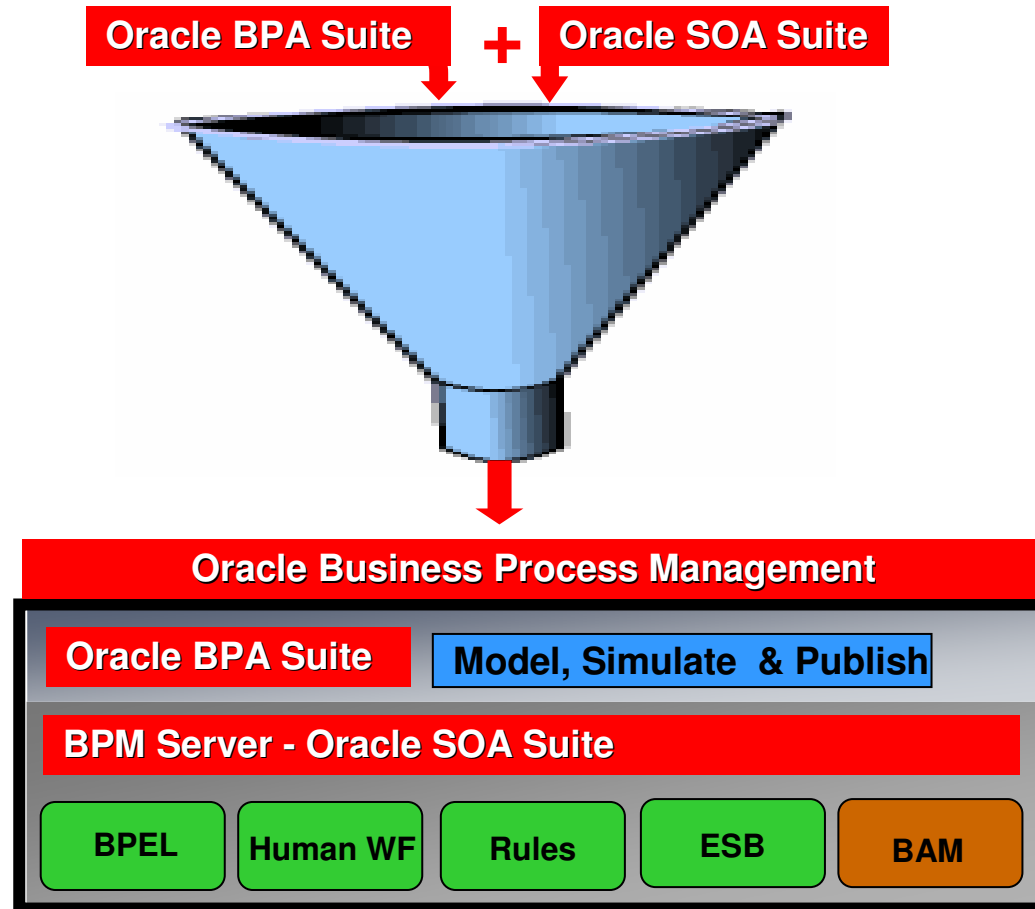
- BPM addresses
 - 1st the Business audience
 - 2nd the IT audience - as influencers



..... and BPM enables them to work together

Oracle Business Process Management

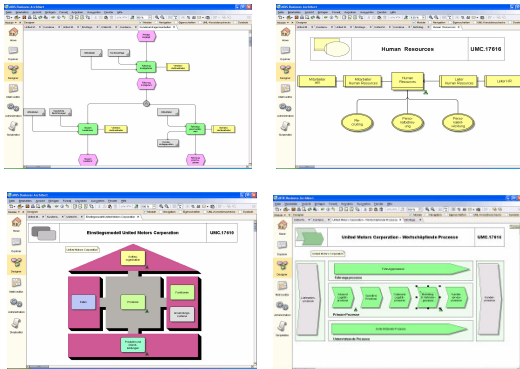
Core Components



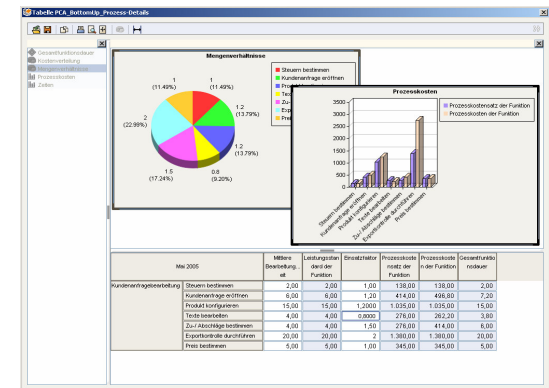
Oracle BPA Suite

Key Components

Business Process Architect

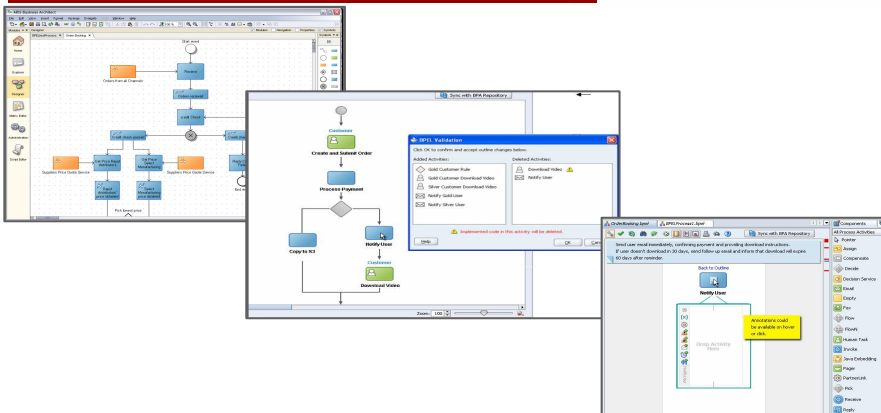


Business Process Simulator

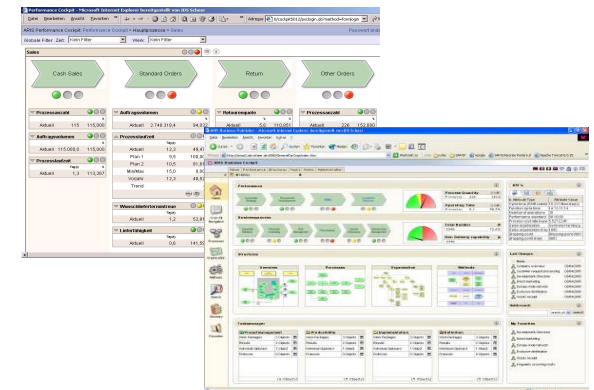


BUSINESS PROCESS ANALYSIS SUITE

Integration with SOA, BPEL PM

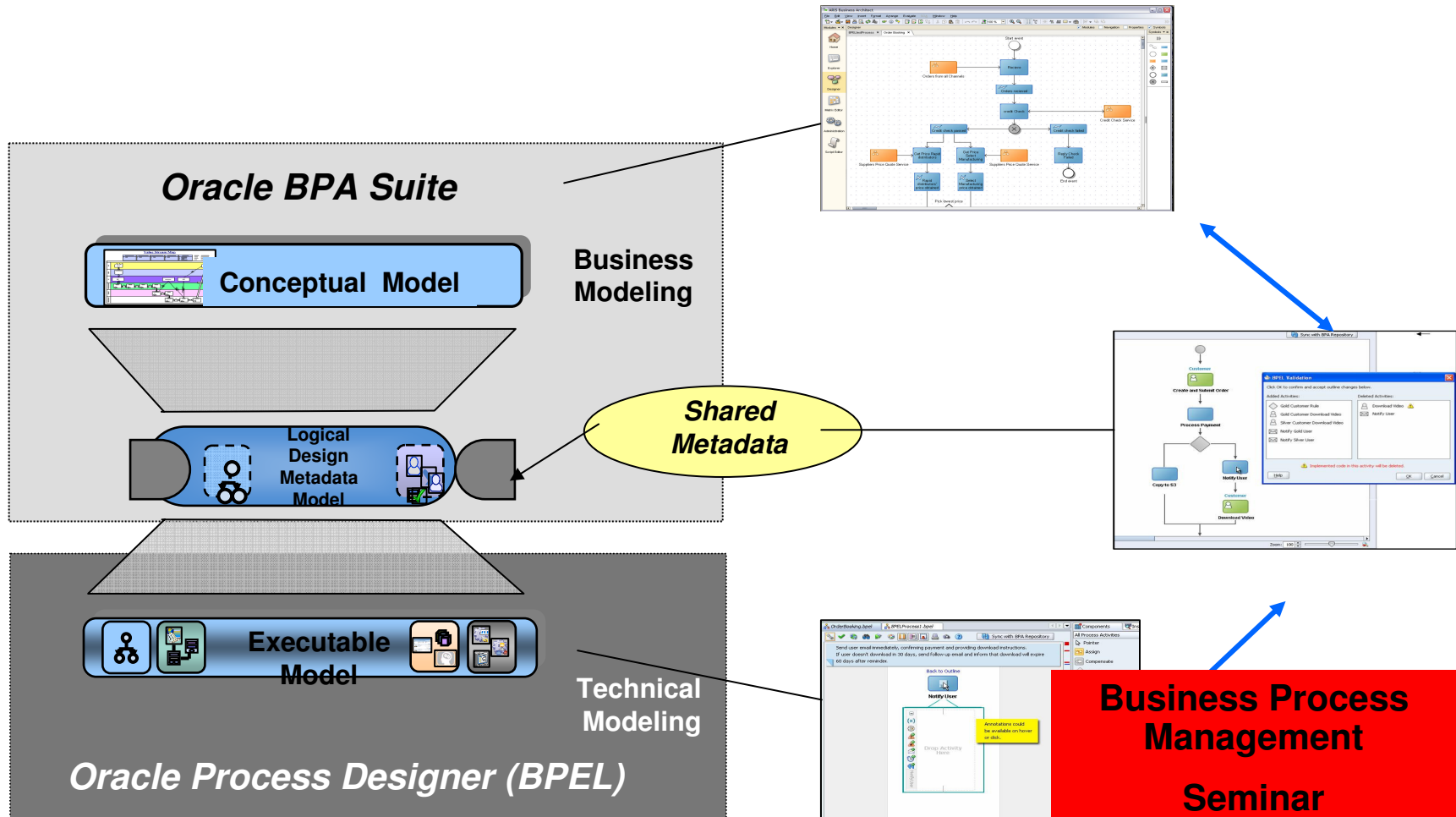


Business Process Publisher



Key Underpinnings of our Integration

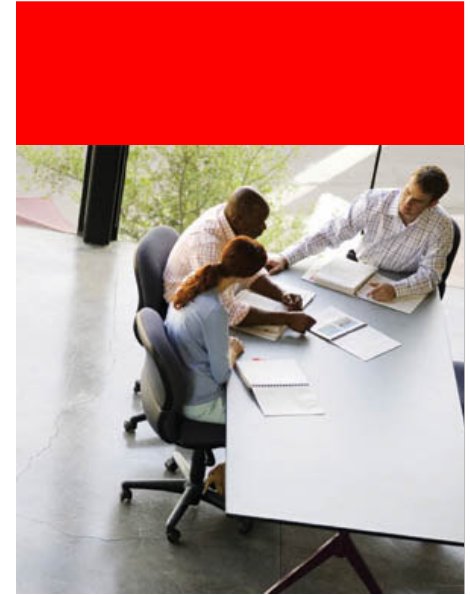
Approach Business and Technical Modeling Alignment



Business Process Management Seminar
20 December 2007



Evolution of the Oracle SOA Suite



Oracle SOA Suite Roadmap

10gR2
Jan 06

Individual Best-Of-Breed Engines

- BPEL PM
- OWSM
- B2B
- UDDI Registry
- BAM

Development

- Portal Integration framework (JSR-168)
- Sensors integrated with Oracle BAM

With each new release:

- **Further extend**
- **Integrate existing**

10gR3
Oct 2006

New Components

- Oracle ESB
- Oracle Business Rules
- Oracle BPA Suite

SOA Platform Release

- Single installer for BPEL, ESB, OWSM
- Shared OracleLite, app-server, JDev instances
- Unified Web service test interface
- Integrated consoles, design-time

Key Features

- Rich, Meta-data driven Human Workflow
- BPEL Test
- Mediation
- Decision Service
- Large Process Support
- Transaction Tracing
- Connected Consoles
- Error Hospital (10.1.3.3)
- Rich Modeling for Biz Analytics, BPMN
- Bi-directional support between model, executable processes and BAM

11gR1
2007+

New Components

- Oracle Data Integrator
- ECMS Integration (Stellent)
- Tangosol (Coherence)
- Complex Event Processing

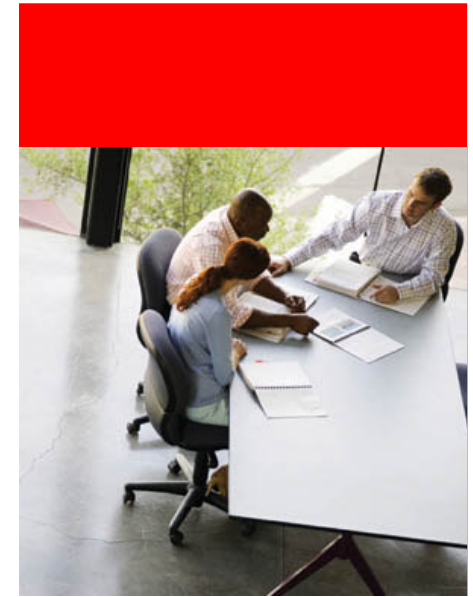
Development

- SCA platform
- Tangosol (Coherence) for dehydration
- BPEL versioning extended to composites
- ESB error hospital extended to composites + batch resubmission etc..)
- BPEL unit testing extended to Composites
- J2EE BAM
- Extensible BPEL Designer Palette
- Richer Worklist Applications
- MDS (metadata services) Integration
- Bi-directional support between simulation and BAM
- XSL document merge/many to 1

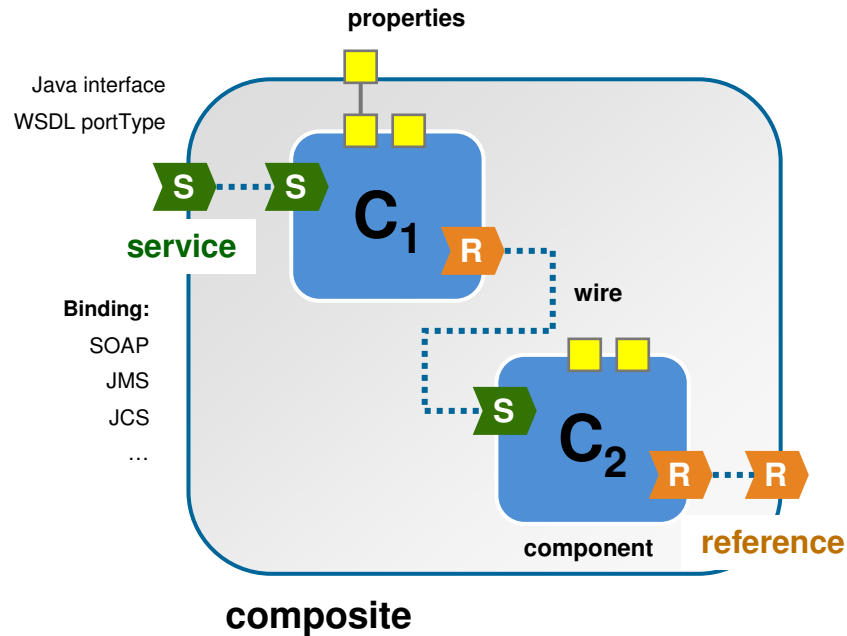
Internal

- Architecturally unified
- Integration with Business Events
- Unified EM console

Leveraging **SCA** to
deliver a uniquely
integrated platform



What is SCA?



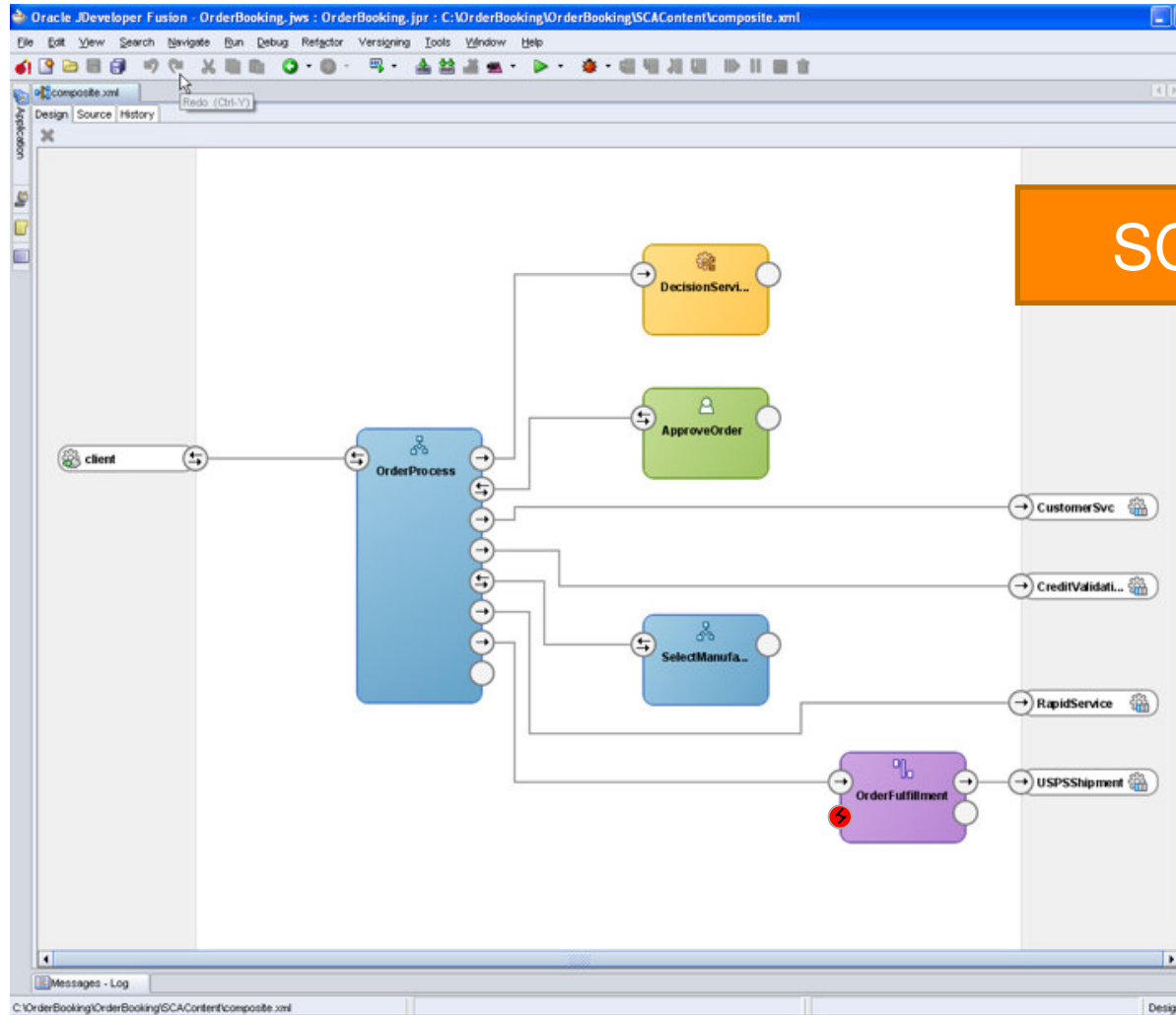
• Service Component Architecture:

- language-neutral
- component model
- **assembly model**
- Specifications backed by a growing number of leading industry vendors
- <http://www.OSOA.org>

SCA terminology:

- **Composite**: deployment unit
- **Service**: entry-point into composite
- **Component**: provides logic
- **Reference**: refers to external services
- **Wire**: connects services, components and references – no special semantic.

Graphical Assembly





Agenda

09.30 Opening

SOA – The next steps (Oracle Nederland)

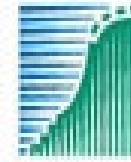
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Klanten Benelux



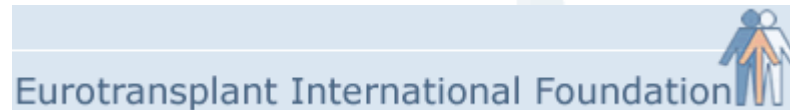
landbouw, natuur en
voedselkwaliteit



Fundeon



Terug naar: www.niwo.nl





Questions

