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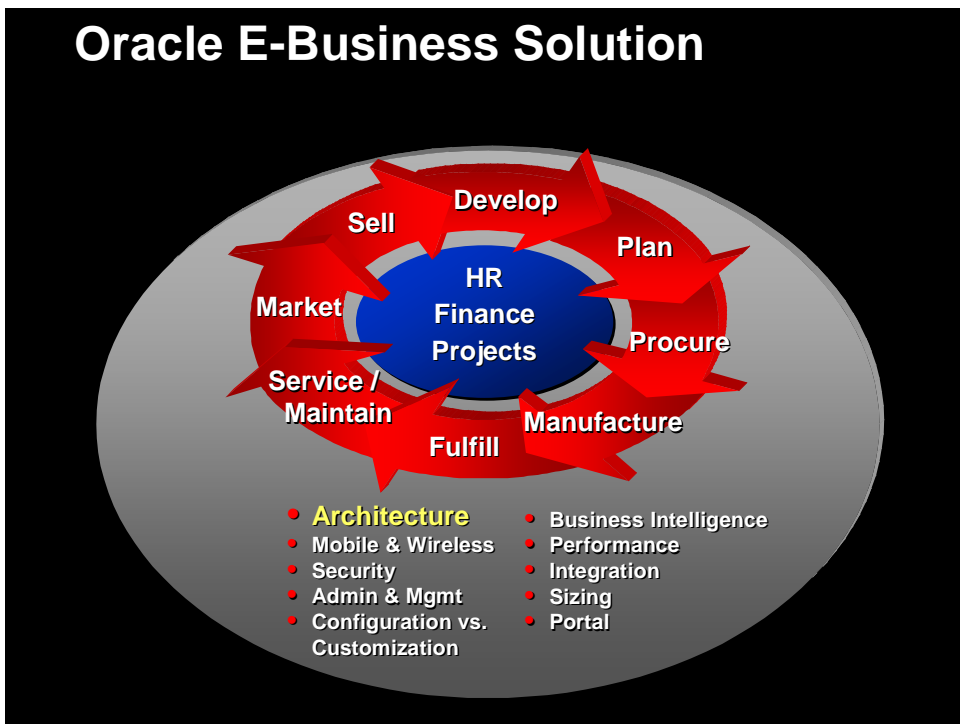
**Oracle
eBusiness Suite 11i
Integration**

Ulrich Janke

Oracle Consulting Deutschland



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The Oracle Solution

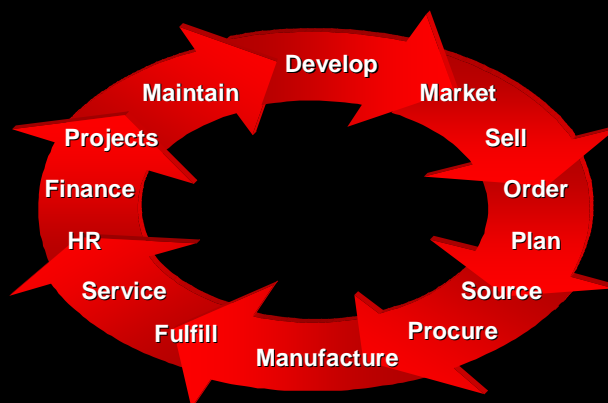
*The Oracle Solution is based on the
POWER of ONE*

- One Family of Applications
- One Global Data Center
- One Enterprise Data Model
- One Global Infrastructure
- One Embedded Business Intelligence
- One Integration Strategy
- One Underlying Technology Platform

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One Family of Applications

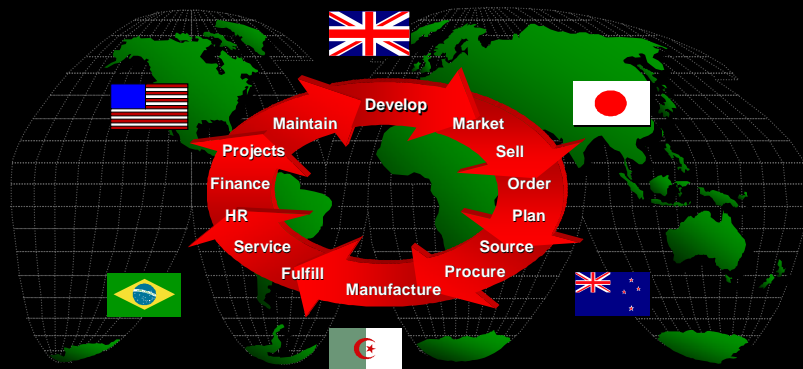
Oracle's Complete, Integrated E-Business Suite



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One Global Data Center

All Business Areas Operate from a Single Location



One Enterprise Data Model

No Information Fragmentation



One Integration Strategy

Incorporate Standards

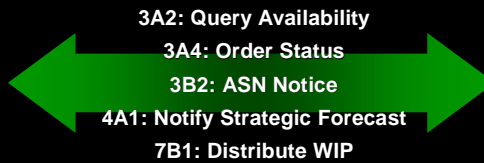
e.g. Supply Chain Trading Connector for RosettaNet



OAG
Open Applications Group



Your
Business



Customers
& Partners

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Oracle Integration Solutions

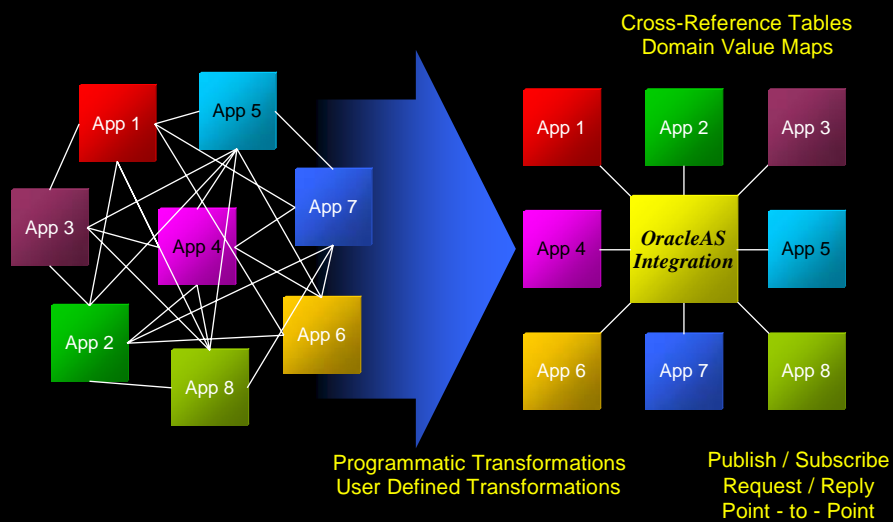
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OracleAS Integration

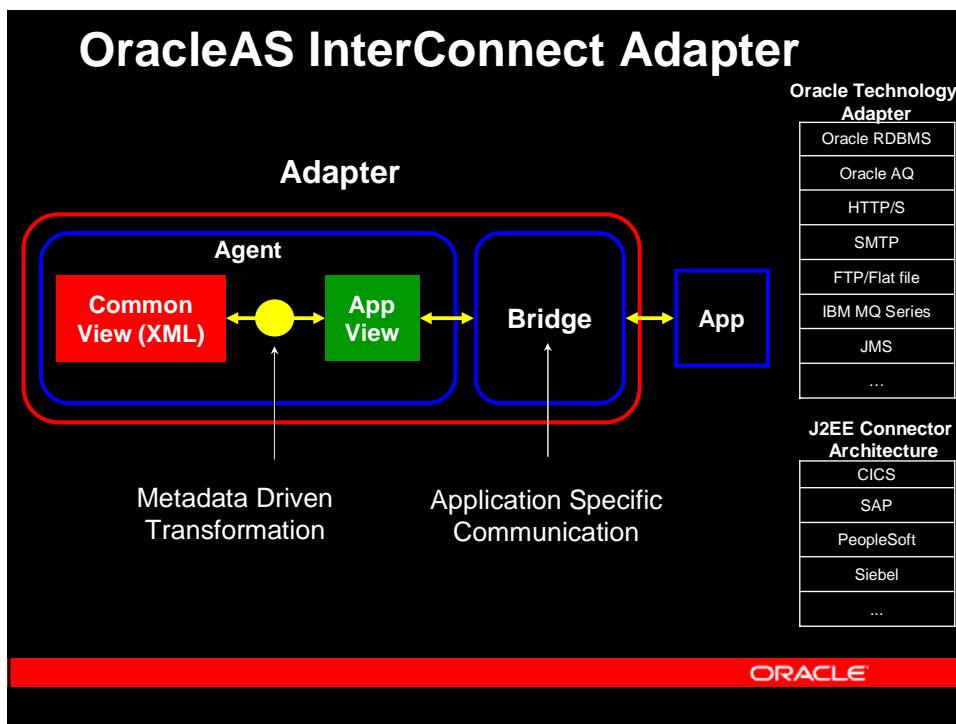
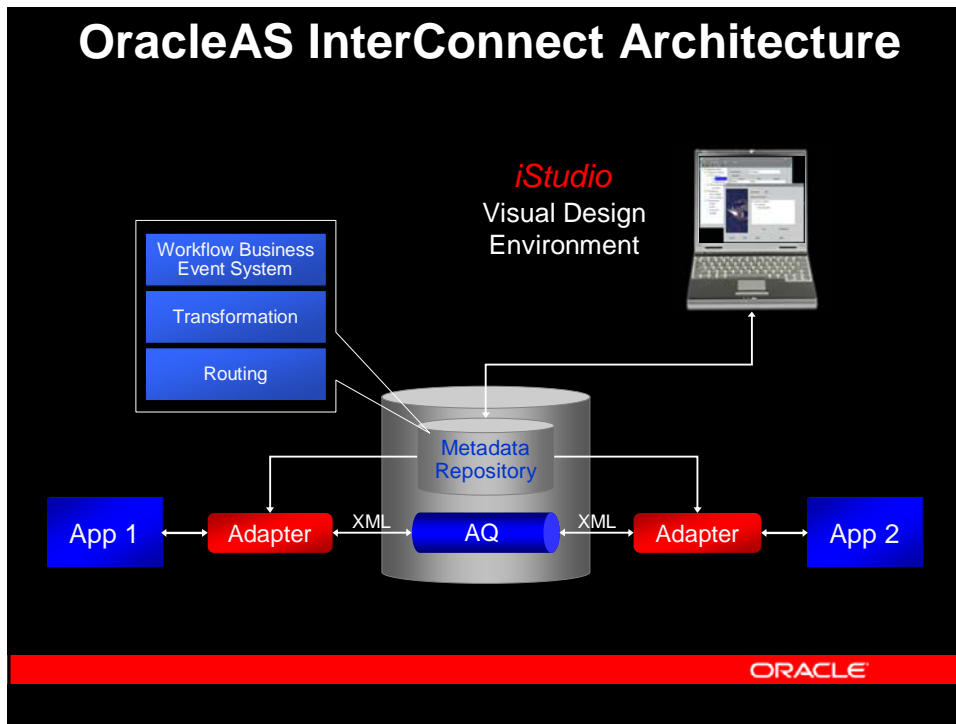
- Open Standards
 - Open Applications Group (B2B and A2A with XML)
- Rapid Implementation Enabler
 - Reduces cost and complexity
- Seamless Integration
 - Wizard based business process integration development tool
- Leveraging the latest technologies
 - Oracle 9i, Advanced Queuing, Java, XML, Internet Directory (LDAP)

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Hub-and-Spoke Architecture



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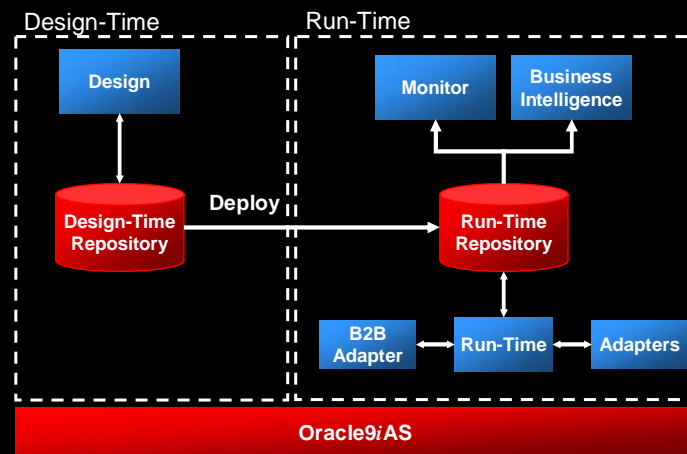


Oracle AS ProcessConnect

- Single Standards-based Solution
 - Built on 9iAS, J2EE, JCA, Web Services, RNIIF, HL7, EDI (future)
- To Integrate processes
 - Processes, Applications, Systems, Trading Partners
- Within and Outside the Enterprise
 - EAI & B2B
- To Monitor & Streamline Business Processes
 - Process Monitoring, Activity Monitoring, Process Optimization
- And Get a Consistent View of Information
 - Common View of Events & Processes
- Integrating with Portal
 - Process-Centric Portal
 - Executive BAM Dashboard

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Oracle AS ProcessConnect



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Features Overview for 10^g

Feature	InterConnect	ProcessConnect
Business Process Management	w/Workflow	X
Business Activity Monitoring		X
Agreement Management		X
Administration/Monitor	X	X
Translation/Transformations	X	X
Broad Set of Adapters	X	X
Auditing/Non Repudiation		X
B2B Support		X
Full Lifecycle Management		X
Cost	incl. EE	TBD

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Oracle AS 10^g Adapters

Oracle Technology

- Oracle Database
- AQ
- SMTP
- FTP
- HTTP
- JMS
- MQSeries
- ...

J2CA Base trough Partners

- Oracle Database
- AQ
- SMTP
- FTP
- HTTP
- Web Services
- JMS
- SAP
- PeopleSoft
- Siebel
- CICS
- Tuxedo
- IMS
- VSAM
- ...



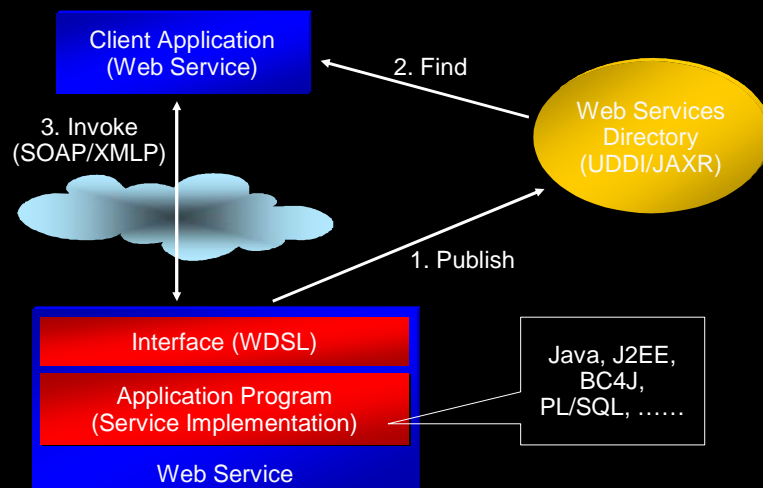
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Oracle WebServices Standards

- Web Services Description Language (WSDL)
 - An XML-based interface definition language that allows an application to describe its functionality and attributes as web services.
- Simple Object Access Protocol (SOAP)
 - XML-based protocol that can be used by any application to invoke and to respond to any other application. (The SOAP protocol is evolving toward a new Internet Standard called XML-Protocol or XMLP).
- Universal Description, Discovery and Integration (UDDI)
 - An online electronic registry providing a information structure where various business entities register themselves and the services they offer through their WDSL definitions.

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Oracle WebServices Overview



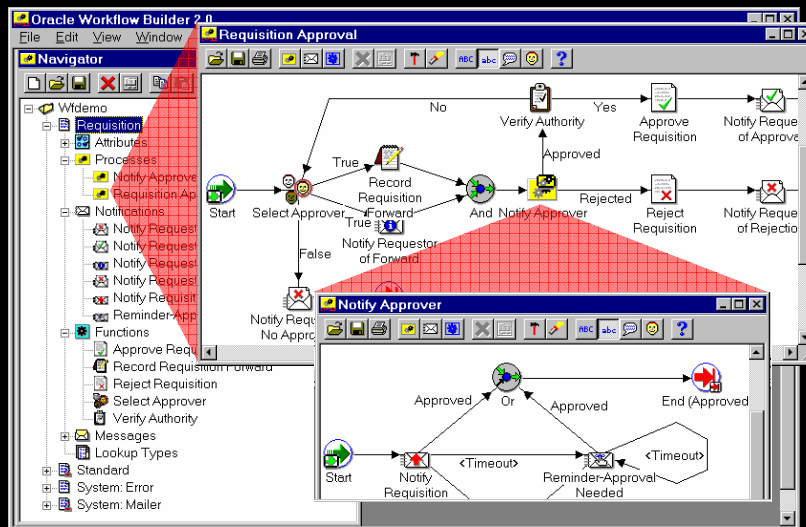
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Oracle Workflow

- Rule-based workflow engine that generates a 100% audit trail
- Manages the execution of business flows
- Business process and message based integration
- Business Event System
- User Notification system
- Integration with database AQ technology and other messaging systems through adapters

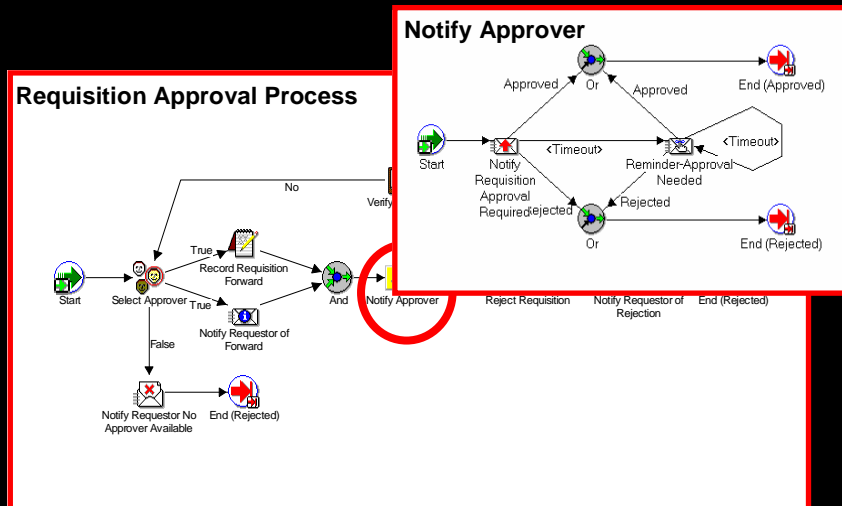
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Oracle Workflow Builder



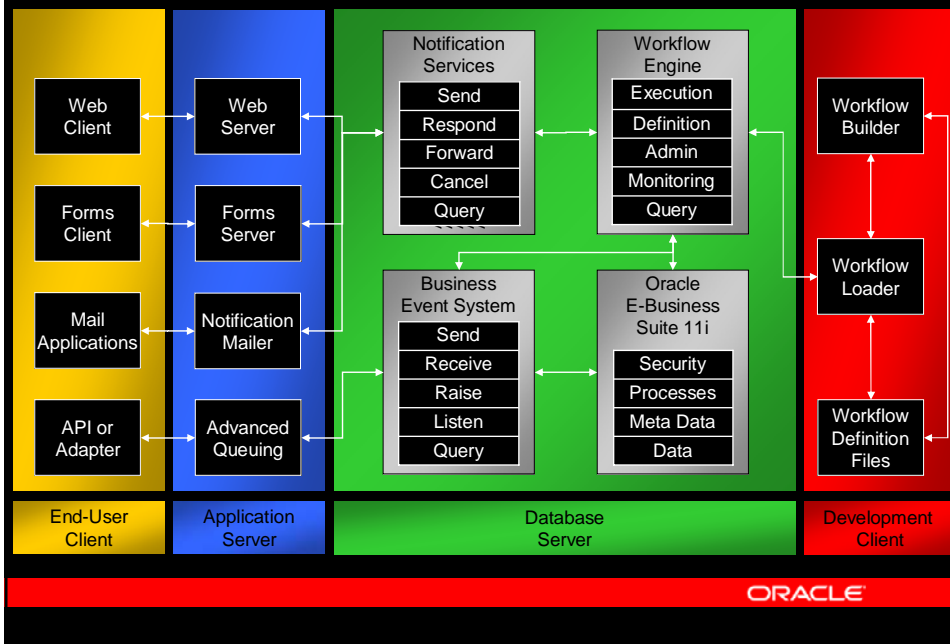
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Complete Process Representation



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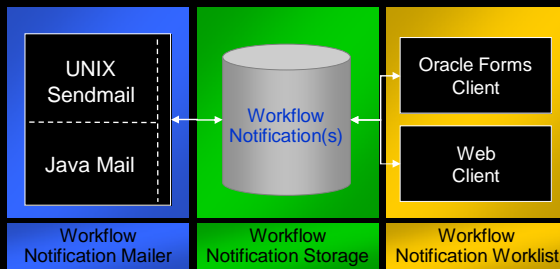
Oracle Workflow Architecture



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Workflow Notification System

- Internet-Enabled
 - Standard Web browser to review and respond
 - Drill-down to any URL or Oracle E-Business Suite screen
 - Available from the Oracle E-Business Suite



- E-mail
 - Standard Mail Protocols (Java Mail, UNIX Sendmail)
 - Detail and summary message formats
 - Templated and direct response
 - Plain text or HTML message body
 - HTML Attachments

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Email Notifications

Requisition Lines

Line	Item Description	Supplier	Units	Total (USD)
1	dell corp pe1650, 2x1.4ghz proc, 4x1gb ram, 2x36gb scsi drive, 62 systems, per quote 74877086	Dell Computer Corporation	2	411,618.00
2	network appliance, per quote 478, 680c-v12, filer cluster, 8tb	NETWORK APPLIANCE INCORPORATED	1	412,821.27

Approval Sequence

Who	Date	Note
4 Ellison, Lawrence J	Pending	
3 Wahl, Ronald A	Pending	
2 Smith, John	01-01-2002 17:01	
1 Asheim, John C	01-01-2002 16:45	additional instances

JUSTIFICATION.html

Extended HTML message formats

Research and make a decision via Email attachment

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How to integrate eBusiness Suite 11i?

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API's

- Open and documented
- 2-way integration
- Coded in PL/SQL or Java
- Oracle E-Business Suite Documentation Library CD
 - API:s described in API Reference Guides
 - Data model described in Technical Reference Manuals (TRM)

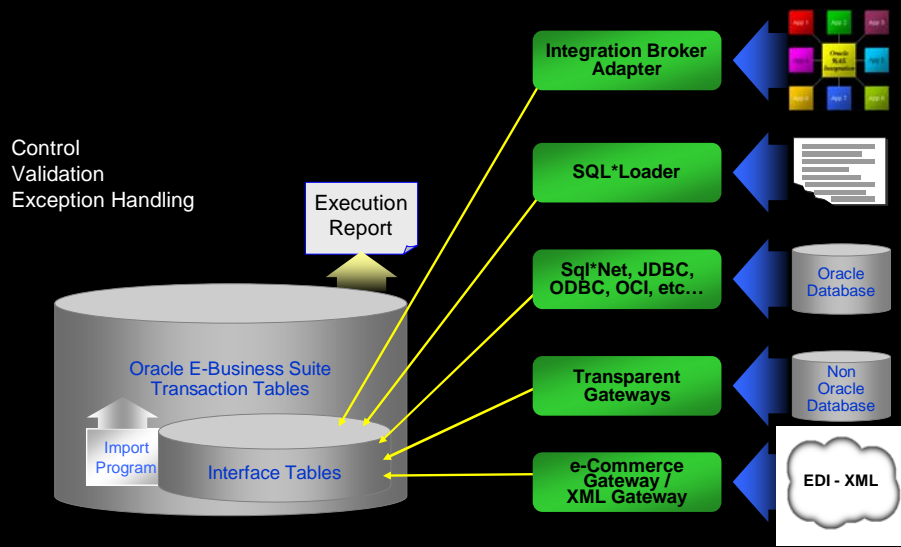
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Open Interfaces Concepts

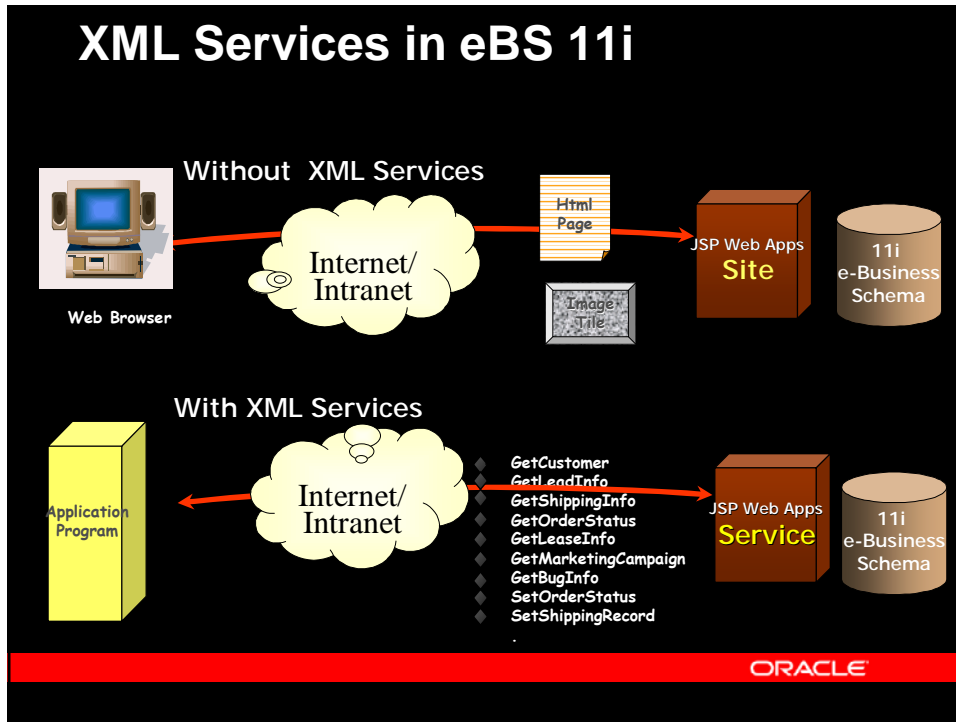
- Feeder Program
 - Oracle SQL*Loader (loads data from flat file)
 - Database link
 - Any other Oracle Database access method
- Import Program
 - Setup of interface using the standard user interface
 - Validation using the systems application logic
 - Exception handling
 - Standard report
 - Correction through standard user interface
 - Executed as a concurrent program

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Oracle Open Interfaces Architecture



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- ## Examples of Web Services Available
- | | | |
|---|--|--|
| <p>Party Services</p> <ul style="list-style-type: none"> CreateOrganization CreatePerson CreateGroup UpdateOrganization UpdatePerson UpdateGroup | <p>Location Services</p> <ul style="list-style-type: none"> CreateLocation UpdateLocation | <p>Relationship Services</p> <ul style="list-style-type: none"> CreateRelationship UpdateRelationship |
| <p>Party Contact Services</p> <ul style="list-style-type: none"> CreateOrgContact CreateOrgContactRole UpdateOrgContact UpdateOrgContactRole | <p>Party Site Services</p> <ul style="list-style-type: none"> CreatePartySite UpdatePartySite CreatePartySiteUse UpdatePartySiteUse | <p>Classification Services</p> <ul style="list-style-type: none"> CreateClassCategory CreateClassCategoryUse CreateClassCodeRelation CreateCodeAssignment UpdateClassCategory UpdateClassCategoryUse UpdateClassCodeRelation UpdateCodeAssignment |
| <p>Person Info Services</p> <ul style="list-style-type: none"> CreatePersonLanguage UpdatePersonLanguage | <p>Contact Point Services</p> <ul style="list-style-type: none"> CreateContactPoint UpdateContactPoint | <p>Contact Preference Services</p> <ul style="list-style-type: none"> CreateContactPreference UpdateContactPreference |
| <p>Relationship Type Services</p> <ul style="list-style-type: none"> CreateRelationshipType UpdateRelationshipType | | |
- ORACLE**

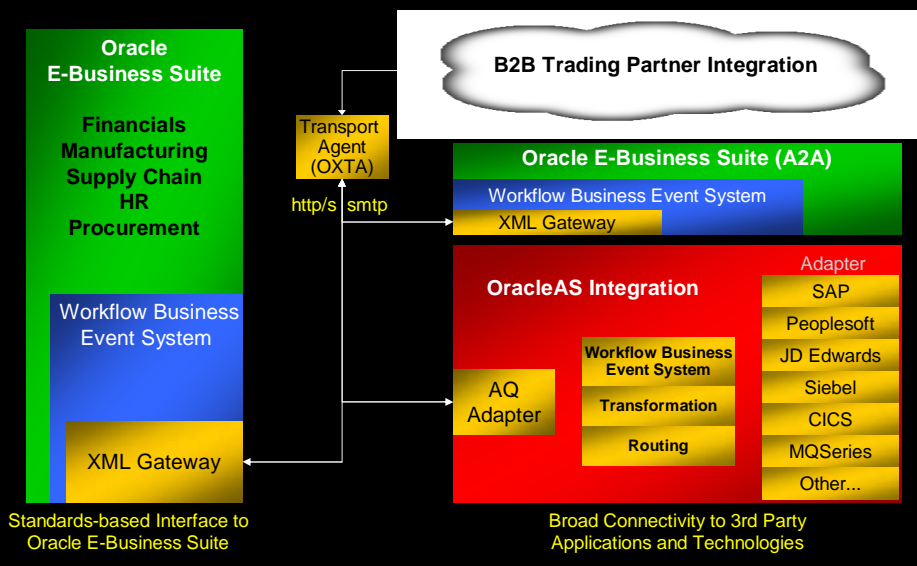
Oracle XML Gateway

- Consistent XML-based integration tool
- Repository-based Design Time & Run Time user interface
- Event-Driven Message Processing using Oracle Workflow with Business Event System
- Message Validation against Message Definition
- Supports Rule-Based Exception Handling
- Supports XSLT (style sheet) Data Transformation
- Oracle XML Transport Agent (OXTA) is a lightweight messaging platform for transmitting documents over the internet
- 212 pre-created E-Business Suite events

XML Gateway is Message Standards Independent

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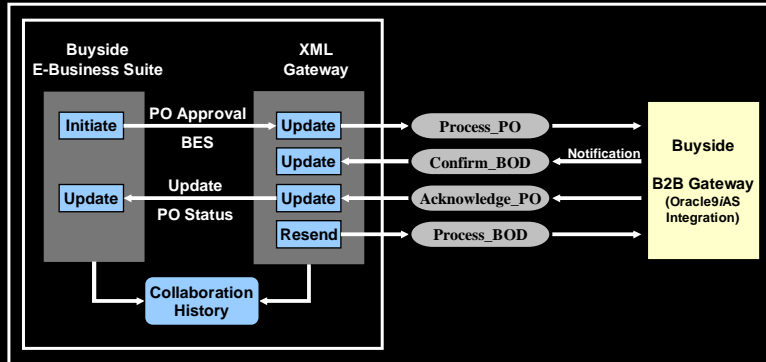
XML Gateway Integration



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Supply Chain Trading Connector

- Record all key events, sending & receiving documents, Notifications
- Ability to Reinitiate a collaboration when it fails



Collaboration History

Collaboration Details
 Collaboration Detail Screen
 Complete results for a particular Collaboration are shown

PIP 3A4 with No Errors

Collaboration Summary

Collaboration	396	Document Number	5198
Collaboration Type	Order	Document Revision Number	0
Collaboration Date	24-Oct-2002	Document Owner	OPERATIONS
Application	Oracle Purchasing	Document Creation Date	24-Oct-2002
Application Reference	HM000A:oracle.apps.po.event.xmlpo:12753-15549	Document Revision Date	
Organization	BYR_TP	Partner Document Number	
Disposition		Release Number	
Trading Partner	SR_TP	Collaboration Status	Completed Normal

Message details can be seen by clicking the link

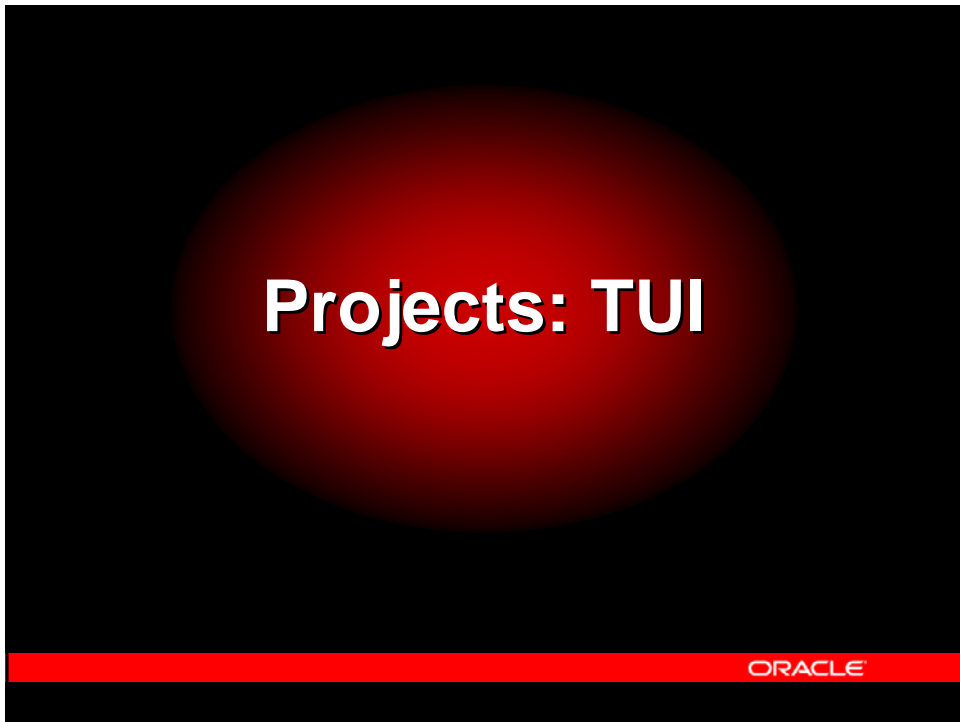
Collaboration Point Number	Reference Number	Collaboration Document Type	Document Direction	Document Status	Message	Payload
Oracle Applications	5198	Process PO	Out	Success	Collaboration successfully created	[i]
Oracle Applications		Process PO	Out	Success	Process PO Document is successfully sent	[i]
B2B Server		Confirm BOD	In	Success	RNACK	[i]
XML Gateway		Acknowledge PO	In	Success	Message received successfully	[i]
Oracle Applications		Acknowledge PO	In	Success	Accept	[i]
Oracle Applications		Confirm BOD	Out	Success	Confirm BOD successfully generated	[i]

Collaboration Details
 Message details can be seen by clicking the link






PIP 3A4 with Errors

Collaboration Point Number	Reference Number	Collaboration Document Type	Document Direction	Document Status	Message	Payload
Oracle Applications	5206	Process PO	Out	Success	Collaboration successfully created	[i]
Oracle Applications		Process PO	Out	Success	Process PO Document is successfully sent	[i]
B2B Server		Confirm BOD	In	Error	Transformation Error	[i]

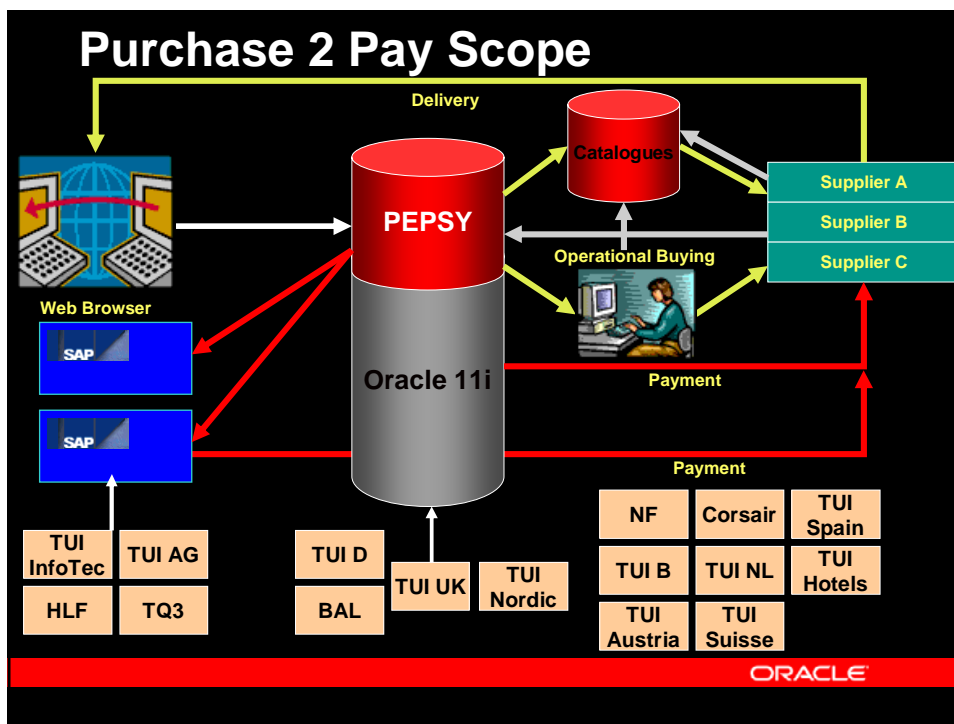
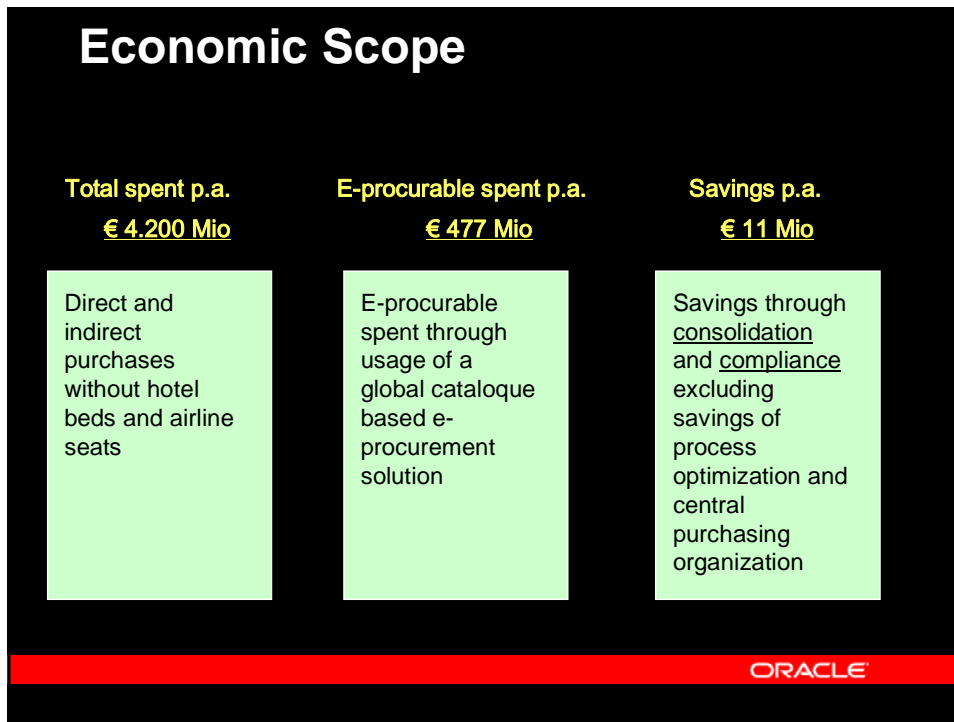
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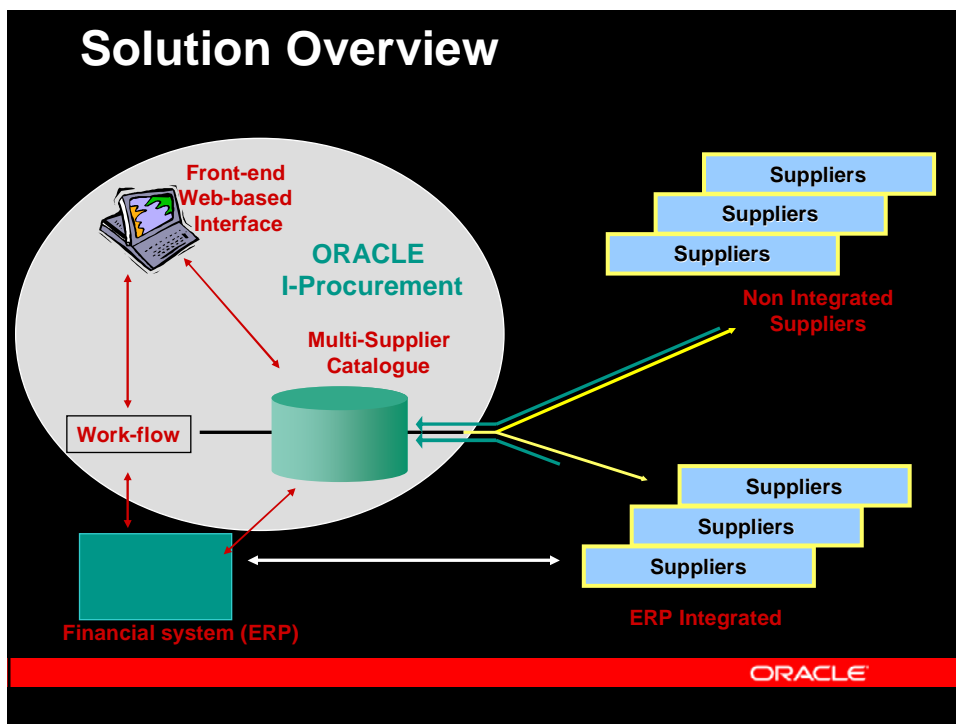
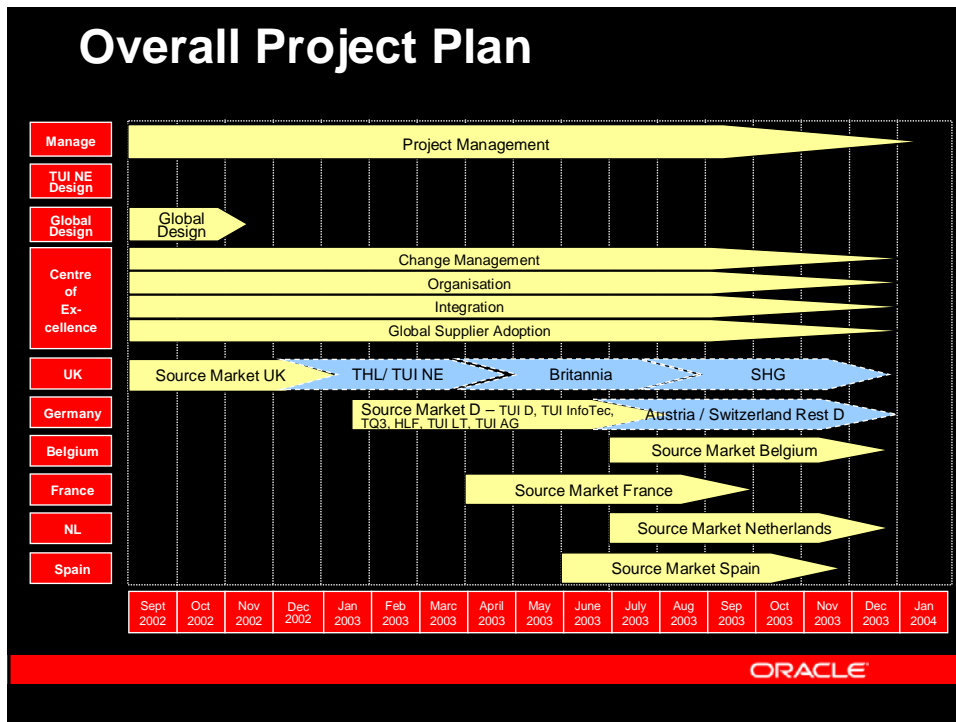


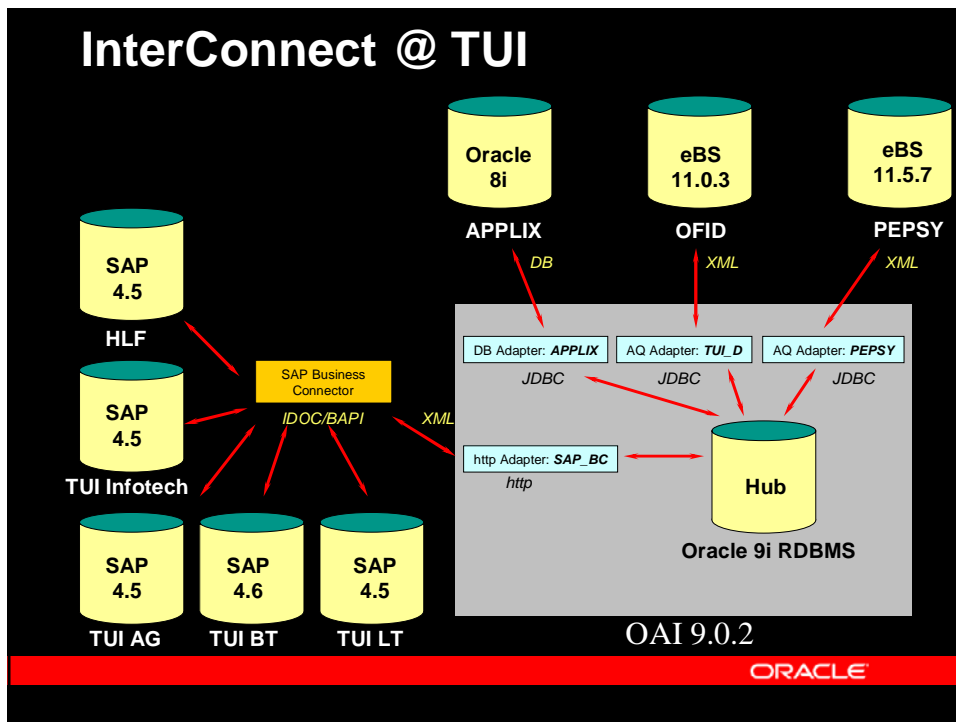
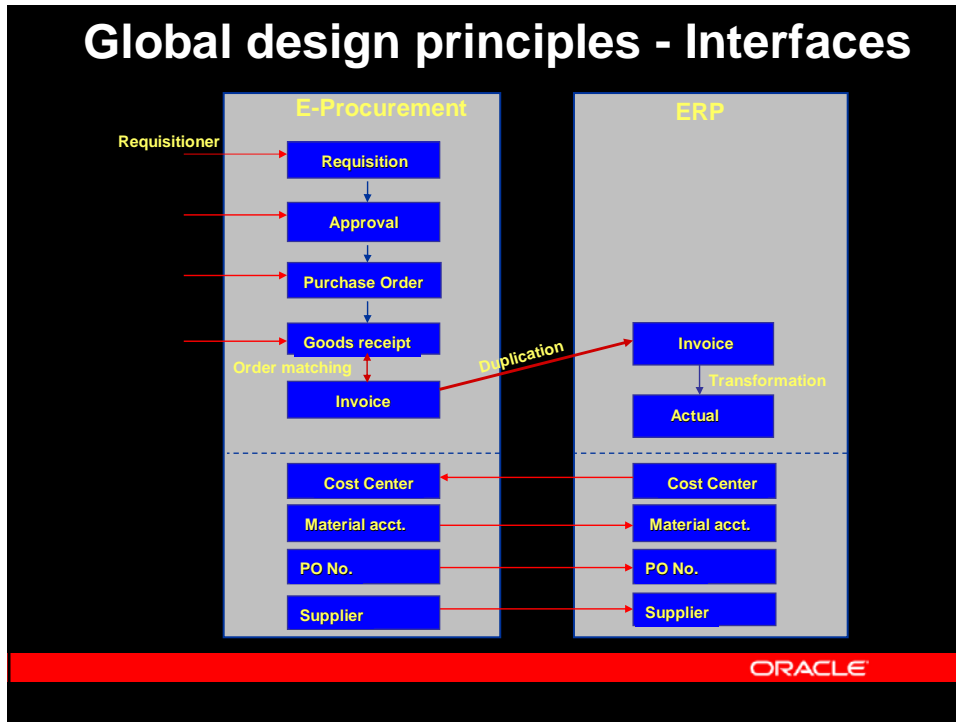
Who is TUI ?

Retail	Tour Operator	Airline	Destination Service	Hotels
				
3.800 Travel Agencies	81 Brands	89 Aircrafts	32 Incoming Agencies	287 Hotels

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Projects: LHBw

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Project Overview

- **Customer**

LH Bw – LH Bundeswehr Bekleidungsgesellschaft mbH

founded on 15.08.02 by

LION APPAREL – Protective clothings

Hellmann Worldwide Logistics – Spedition

g.e.b.b. – Privatization company of Bundeswehr

Mission of LH Bw:

private industry based reorganization of wearing bureau of Bundeswehr (Procurement-Stocking-Wearing)

Employees in Headquarter: 65

Employees in field: 2500

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Mission of LHBw

Mission of wearing bureau in detail:

- Support of soldiers and civil employees of Bundeswehr with wearing including improvement of processes
- The items needed in an appropriate quality to the right time at the right location.
- Support of Bundeswehr in terms of saving equity for investments by reaching a leaner feeding system

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Project Overview

- Scope

Replacement of legacy Bundeswehr IT-system by using of eBusiness Suite in companys head quarter (LH Bw) and in the field (Bundeswehr sites)

Functionality in head quarter:

- Finance system - Oracle Financials
- Procurement – Oracle Purchasing

Functionality in the field:

3 wearing stores, ~ 120 shipping locations

- Inventory management - Oracle Inventory
 - Old inventory: owned by Bundeswehr
 - New inventory: owned by LHBw
- Ship to and Return of wearing by soldiers
- Cleaning and transport services

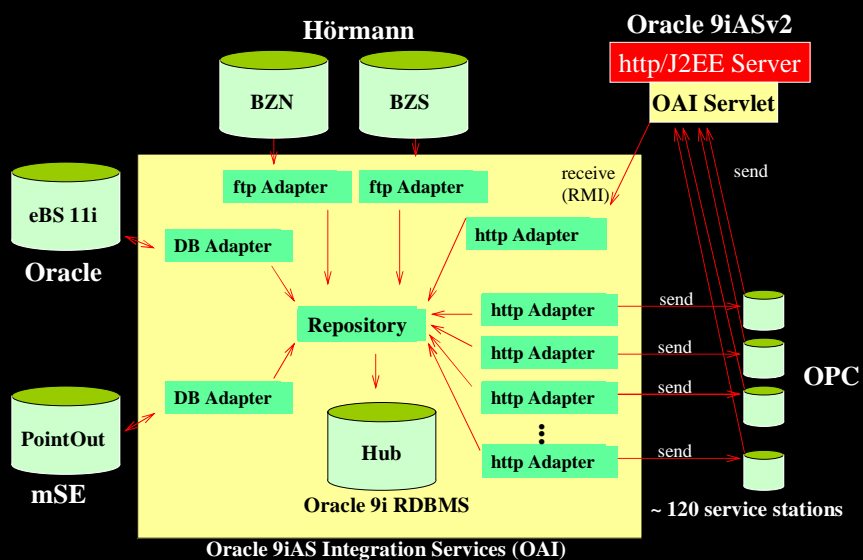
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Timeline

Project started at	01.08.2002
Phase 1:	
Go-Live Financials	01.10.2003
Go-Live Procurement/Inventory LHBw	15.12.2003
Go-Live Interface Inventory BW	28.12.2003
Phase 2	
(Integration of service stations and wearing centers):	
Start concept and design	01.02.2003
Rollout Oracle Application	01.07. - 31.08.2003
Rollout integration of POS	01.08. - 15.09.2003
Wearing of new recruits in October 2003 (~ 25 000 soldiers)	
	01.10. – 08.10.2003 mission success

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Integration @ LHBw



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