

ORACLE®

THE **INFORMATION** COMPANY

Juliano Sulzbach
Consultor de Vendas
Oracle Regional Sul

GUO-RS

Oracle BPEL Process Manager

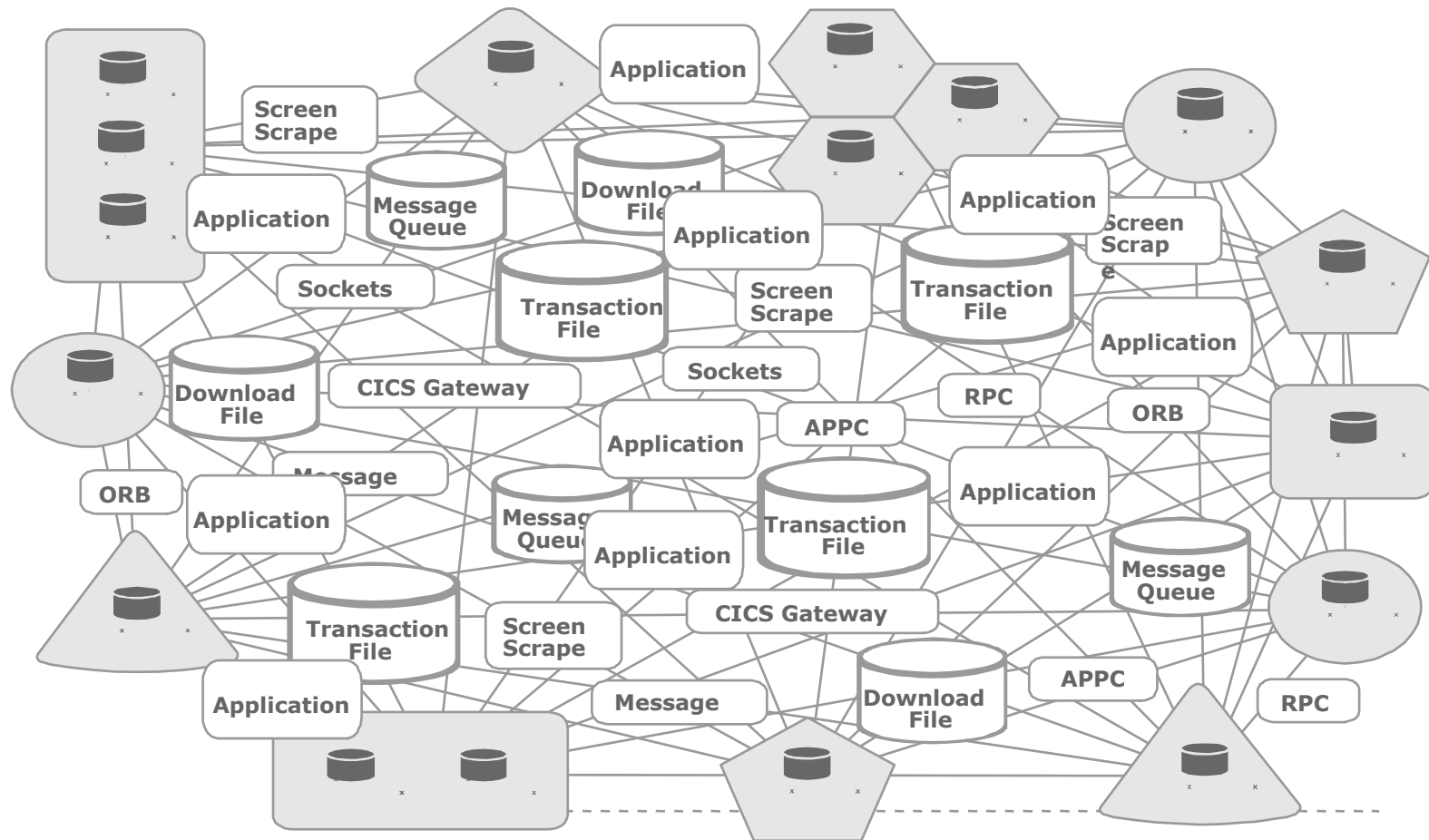
Agenda

- Introdução
- Oracle BPEL Process Manager
 - Rápida revisão
- Demonstrações

Agenda

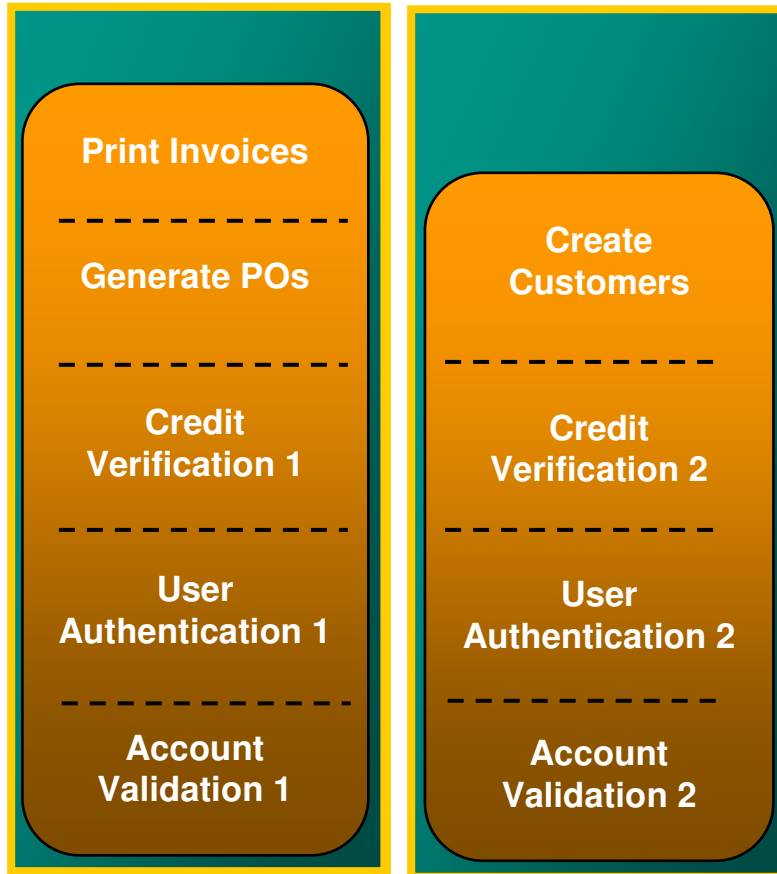
- **Introdução**
- Oracle BPEL Process Manager
 - Rápida revisão
- Demonstrações

Integrações hoje em dia ... a Cruel Realidade ...



Problema-Aplicações Monolíticas

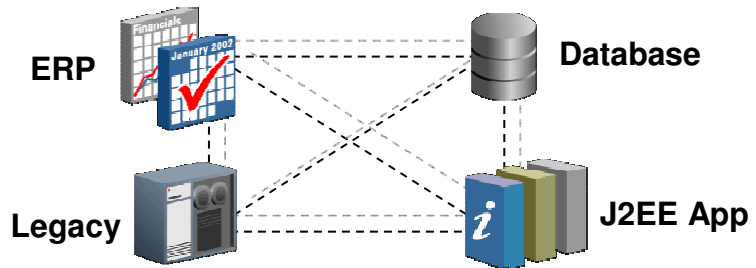
Inflexíveis, Ineficientes, Difícil de Manter



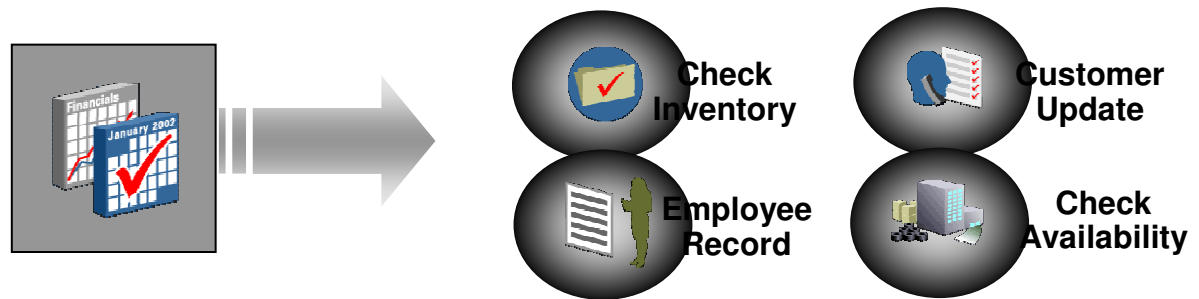
- Grande dificuldade de se adaptar/modificar os requerimentos de negócio
- Duplicação de funcionalidades significa desperdício de recursos
- Pequenas modificações acabam exigindo um grande investimento de tempo e dinheiro

Service Oriented Architecture

Aplicações
Monolíticas

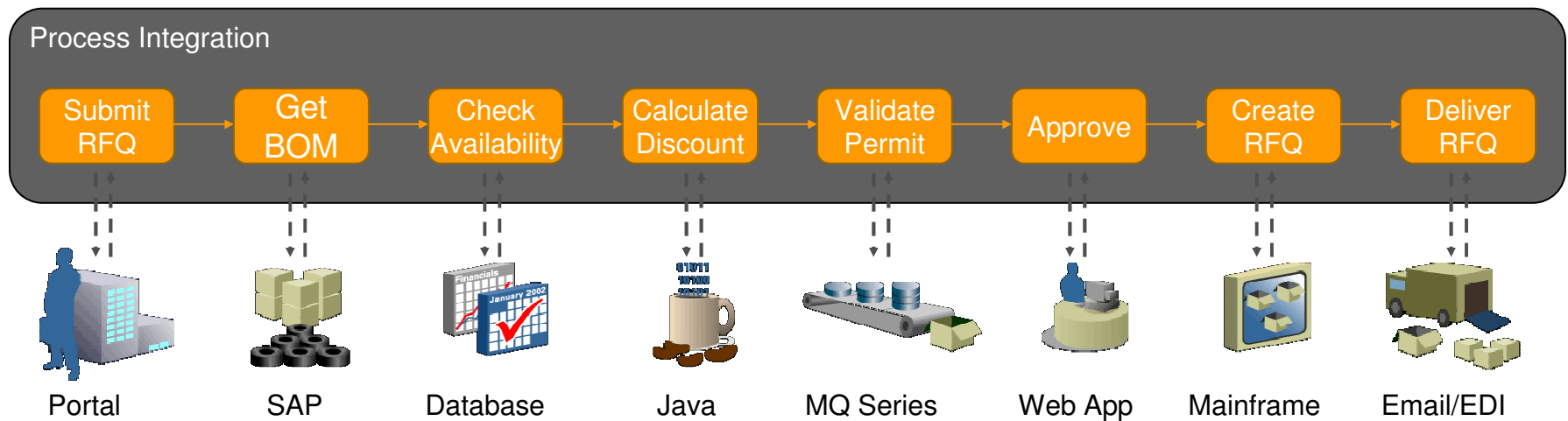


Serviços

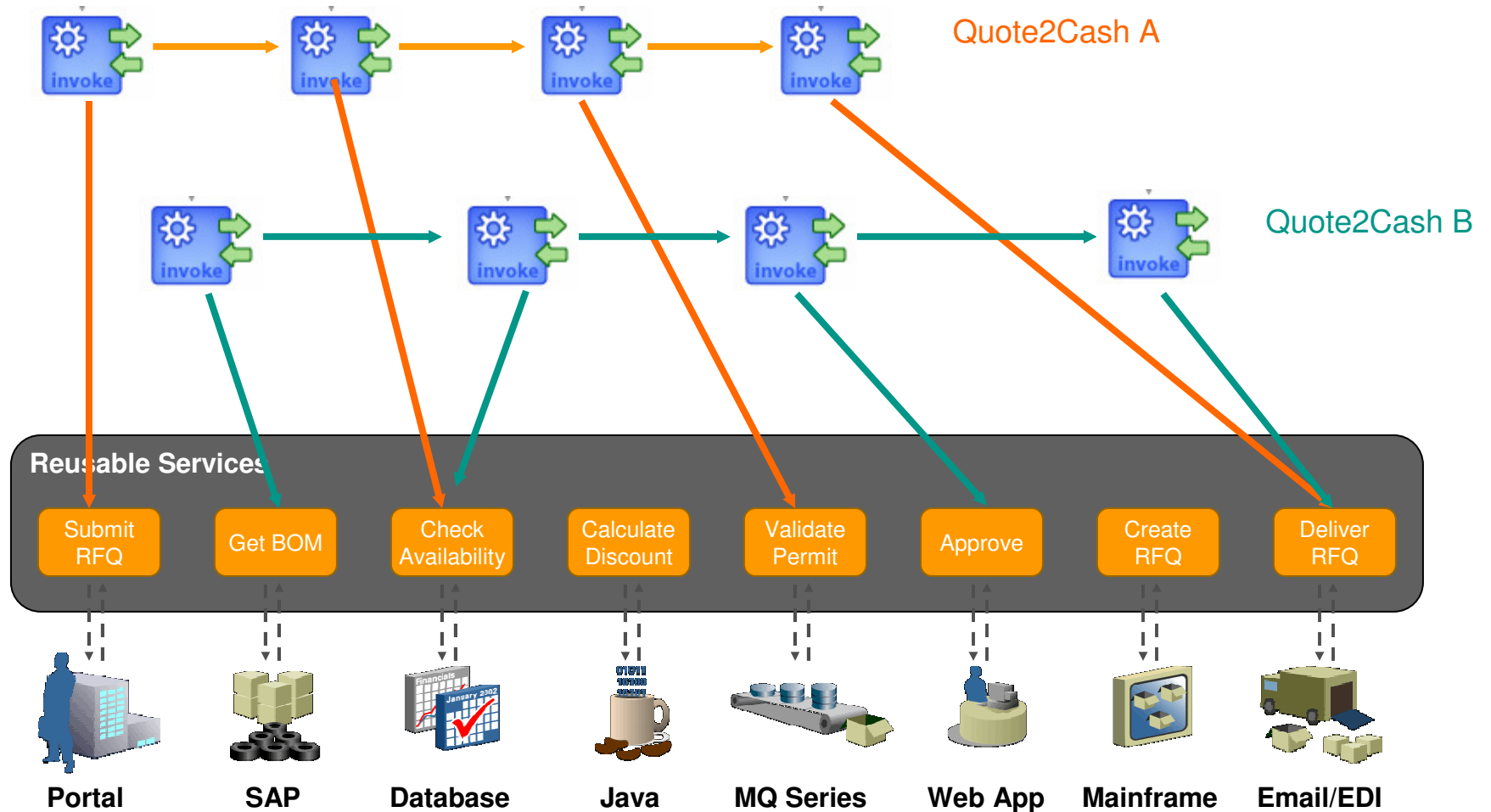


O que é um Processo Negócio ?

Transações de Negócio em múltiplas etapas envolvendo serviços automáticos e/ou humanos



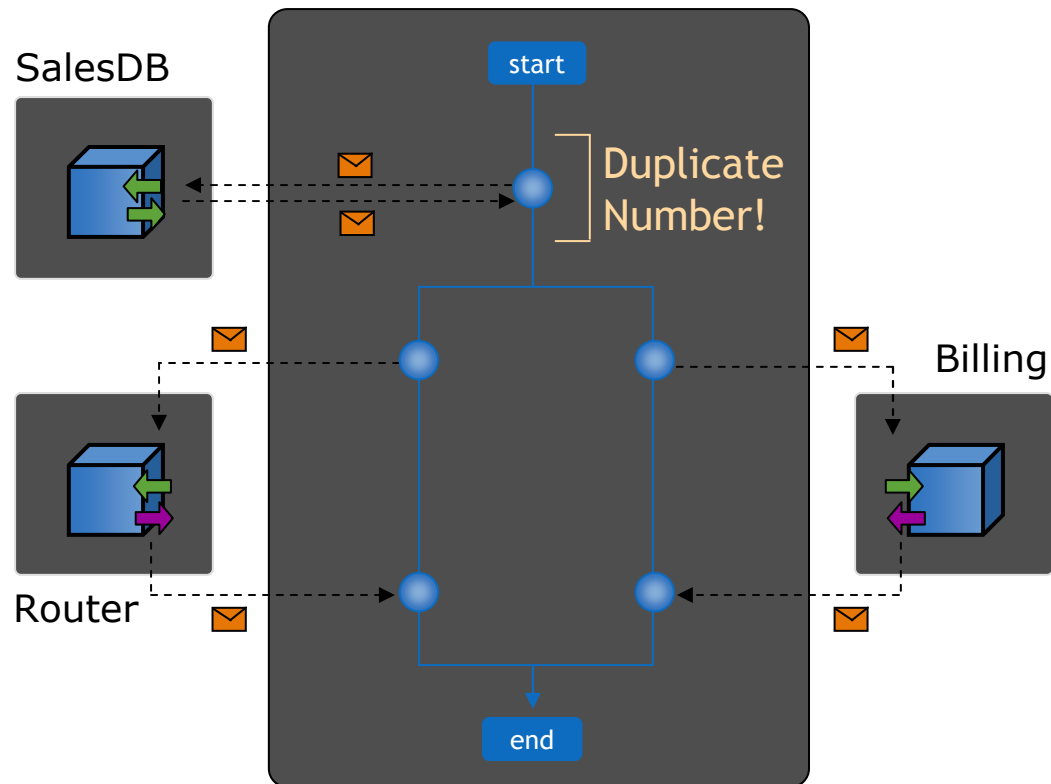
Aplicações Compostas



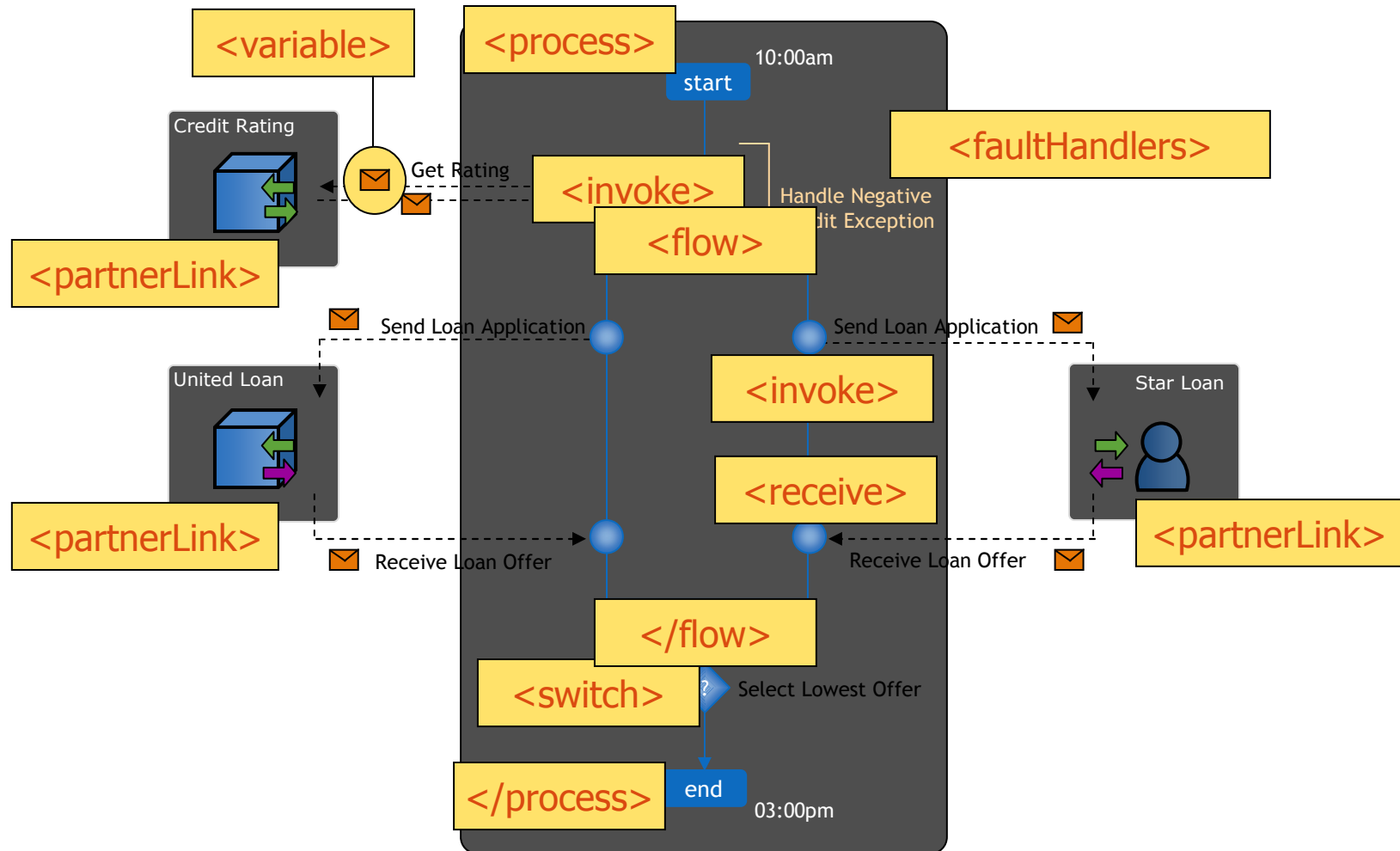
O que é BPEL?

Linguagem padrão para a execução de processos de negócio baseada na orquestração de serviços

- Padrão OASIS
- Resultado da consolidação de diversos modelos
- Construções poderosas de fluxos de processos
- Integração facilitada
- Base para SOA – Service Oriented Architecture
- Baseado em padrões: Web Services, SOAP, XML



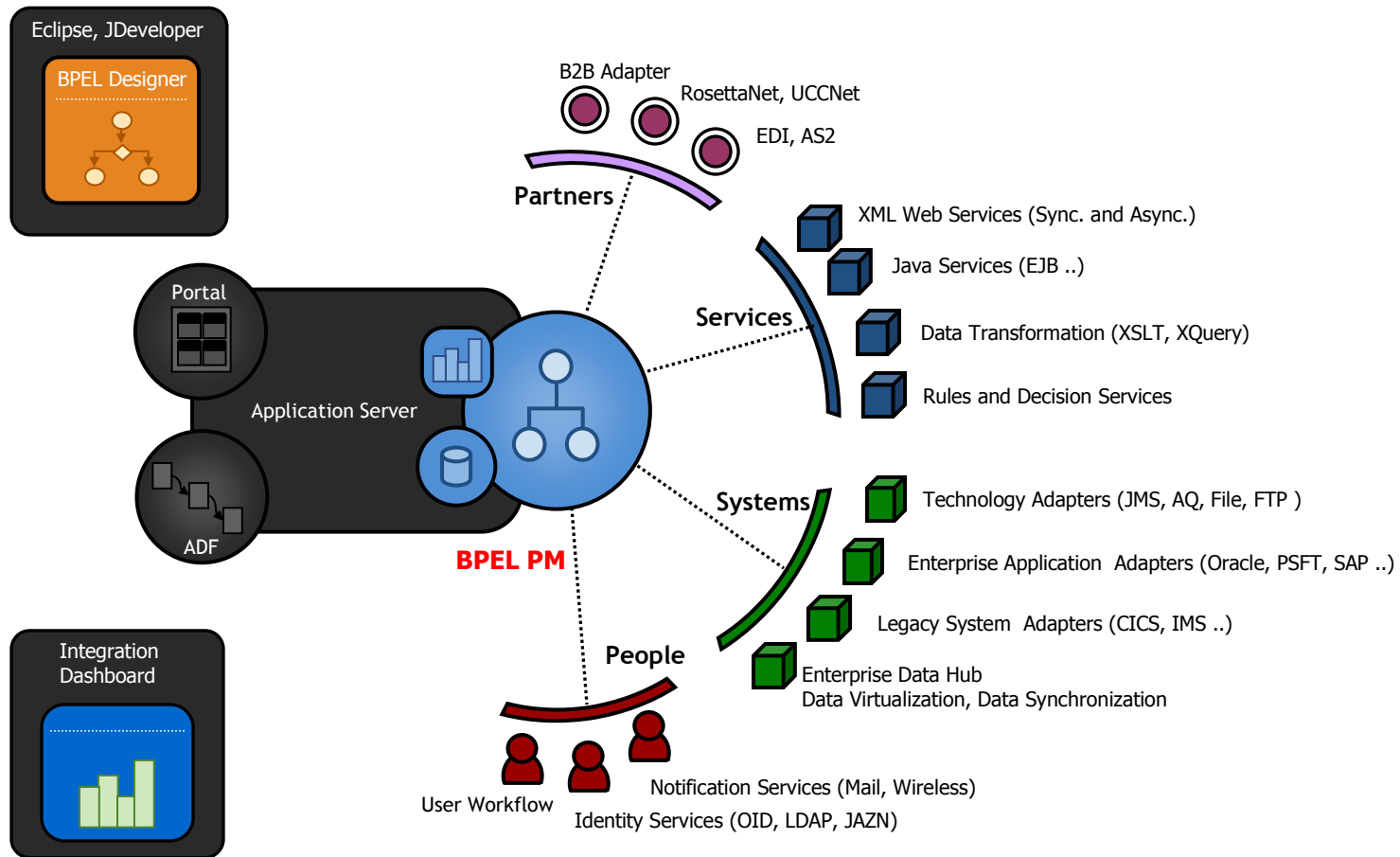
BPEL – Exemplo



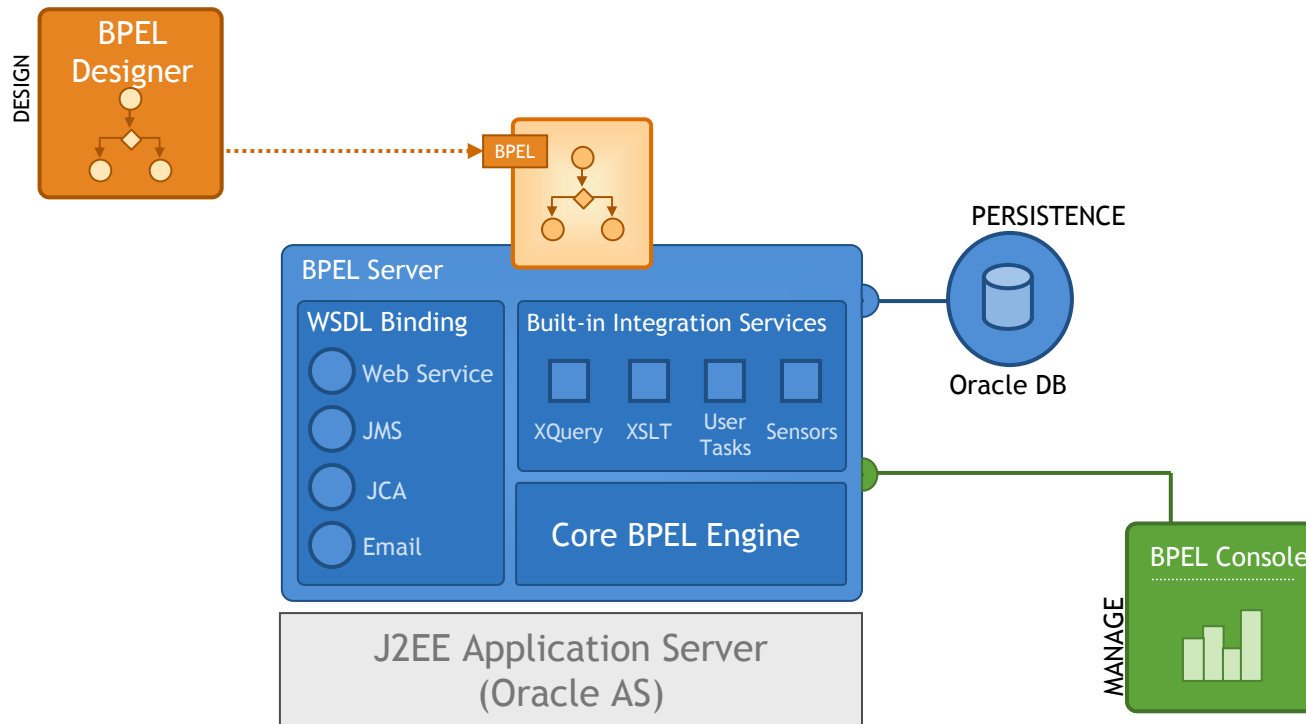
Agenda

- Introdução
- Oracle BPEL Process Manager
 - Rápida revisão
- Demonstrações

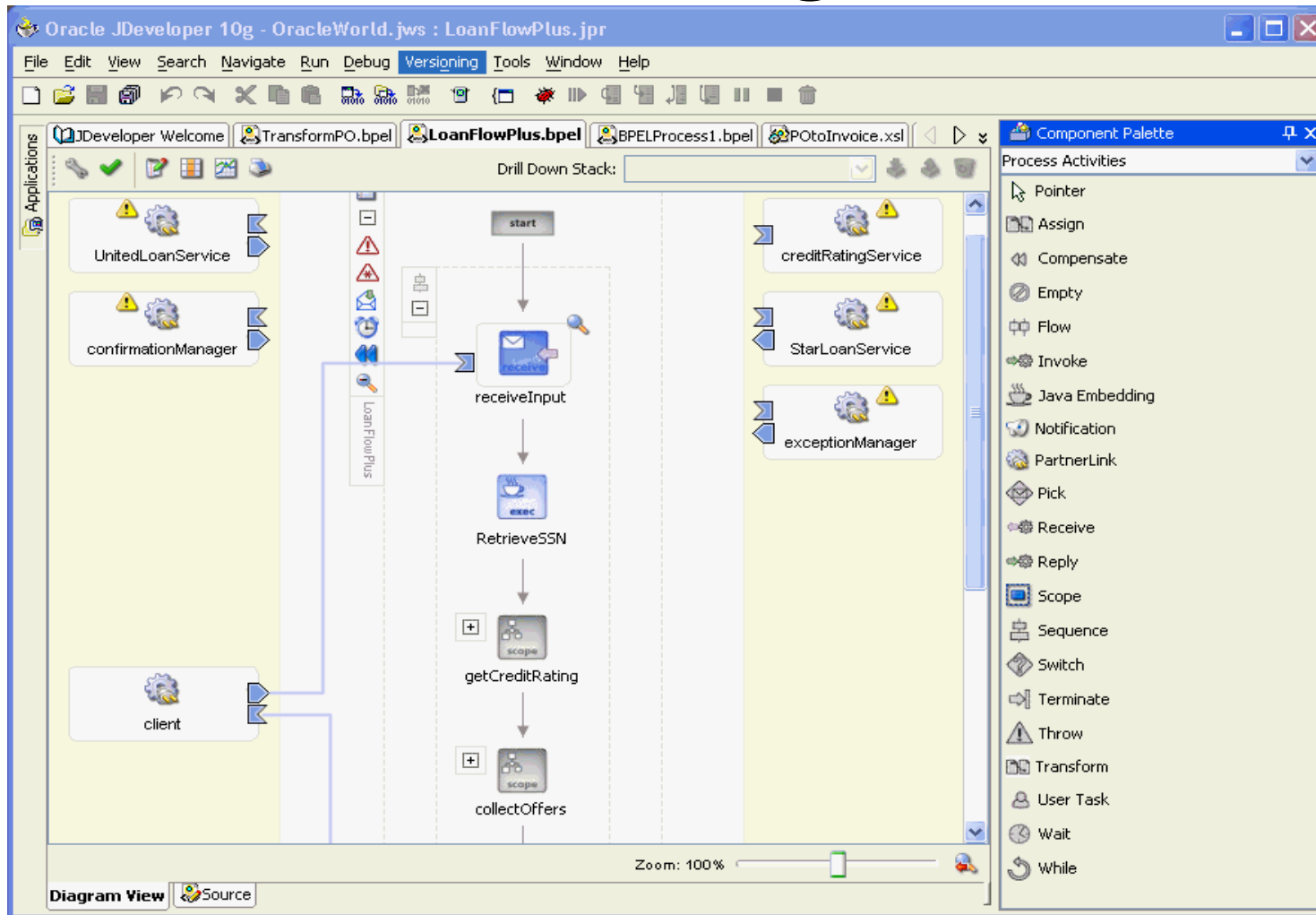
Oracle BPEL Process Manager



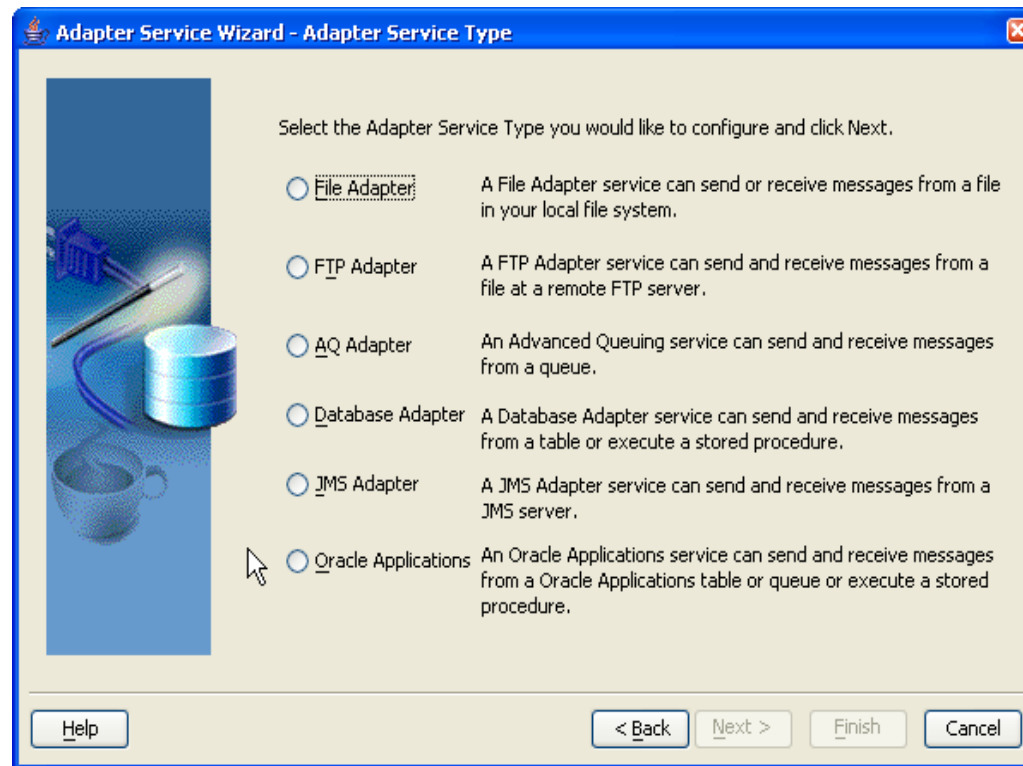
Oracle BPEL PM – arquitetura



BPEL Designer



Oracle BPEL PM – integração



Oracle BPEL PM – Workflow (Human Workflow)

Workflow Wizard - Step 2 of 4: Workflow Pattern

Please select a Workflow Pattern. The subsequent pages will collect information based on the Pattern you have chosen.

Workflow Patterns

- Simple Workflow
- Simple Workflow With Automatic Renewal**
- Sequential Workflow
- Sequential Workflow With Automatic Escalation
- Parallel Workflow
- FYI Task
- Adhoc Workflow
- Parallel Workflow With Final Reviewer

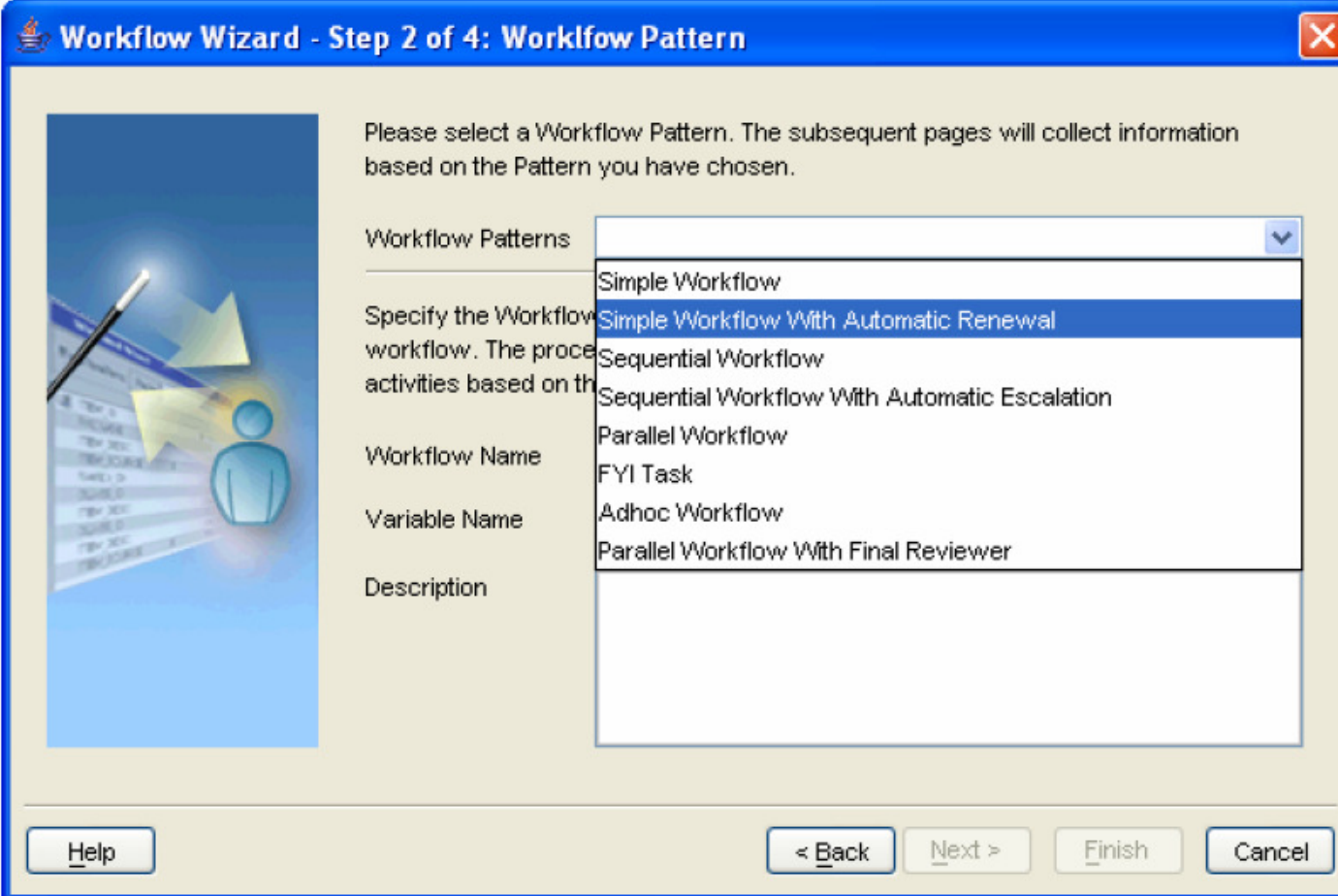
Specify the Workflow workflow. The process activities based on the

Workflow Name

Variable Name

Description

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

The image shows a screenshot of the Oracle BPEL PM Workflow Wizard, specifically Step 2 of 4: Workflow Pattern. The window title is "Workflow Wizard - Step 2 of 4: Workflow Pattern". The main content area is divided into two sections. On the left, there is a vertical panel with a blue background, featuring a stylized human figure and a document with arrows, representing a workflow. On the right, there is a text area with the instruction: "Please select a Workflow Pattern. The subsequent pages will collect information based on the Pattern you have chosen." Below this instruction is a dropdown menu labeled "Workflow Patterns" which is currently open, showing a list of seven options: "Simple Workflow", "Simple Workflow With Automatic Renewal" (which is highlighted in blue), "Sequential Workflow", "Sequential Workflow With Automatic Escalation", "Parallel Workflow", "FYI Task", and "Adhoc Workflow". Below the dropdown menu, there are four input fields: "Workflow Name", "Variable Name", and "Description". At the bottom of the window, there are five buttons: "Help", "< Back", "Next >", "Finish", and "Cancel".

Oracle BPEL PM – Workflow (Human Workflow)

The screenshot displays the Oracle BPM Worklist Express web application interface. The browser window title is "BPM Worklist Express - Microsoft Internet Explorer". The address bar shows the URL: `http://localhost:9700/integration/worklist/express/TaskDetails?taskId=8689c1f46042dc84:676437:100f82d40f5:-7fa88rnd=2335967195556794406`. The page header includes the Oracle logo and "BPM Worklist Express". A search bar is visible with filters for "My & Group", "Any", and "Assigned". The main content area shows "Home > Task Details (Hiring Approval for Dev Engineer)".

Task Action: -- Select an Action -- Submit

Task Details:

- Sub:** Reject
- Concl:** Accept
- Expit:** Escalate
- Acquire:** Request More Info, Renew

Task Metadata:

- Priority:** 3
- Creator:** bpeladmin
- Created:** 12/22/04 05:37 PM
- Modified:** 12/22/04 06:04 PM
- Modifier:** jcooper

Task Information:

- Assignees:** jcooper (U)
- Process:** HiringApproval
- Owner:** bpeladmin
- Task Key:**

Hiring Approval for Dev Engineer

Form Fields:

- Position:** Dev Engineer (String)
- Salary:** 80000 (float)
- Update** button

Comments: Add...

Attachments: Change...

- [Description.pdf](#) (f)
- [resume.pdf](#) (f)

Comment Log:

- [jcooper] Job Description attached -- pl check if it is adequate
- [jstein] Please attach resume as well
- [jcooper] Resume attached

Page refreshed on Wed Dec 22 18:05:58 PST 2004

Oracle BPEL PM – administração

The screenshot displays the Oracle BPEL Console v2.0 interface within a Microsoft Internet Explorer browser window. The browser's address bar shows the URL: `http://localhost:9700/BPELConsole/displayInstance.jsp?referenceId=bpel://localhost/default/TravelFlow~1.0/301`. The console's navigation tabs include Dashboard, BPEL Processes, Instances, and Activities. The current view shows details for a BPEL process instance titled "Travel Flow".

Metadata for the instance:

- Title: Travel Flow
- Reference Id: `bpel://localhost/default/TravelFlow~1.0/301`
- BPEL Process: [TravelFlow \(v. 1.0\)](#)
- Last Modified: 2004-06-18 09:39:30.3
- State: open.running
- Priority: 0

The main area displays a "Visual representation of the history of this BPEL business flow" as of 6/21/04 11:04 PM. The flow starts with an **invoke** activity labeled "sessionCreate (SessionCreat...)". This leads to a parallel split into two paths:

- Left Path:** An **isHotelAvailable** condition leads to an **assign** activity, followed by an **invoke** activity labeled "hotelAvail (OTA_HotelAva...)".
- Right Path:** An **isFlightAvailable** condition leads to an **assign** activity, followed by an **invoke** activity labeled "flightAvail (OTA_AirLowFa...)".

The interface includes a vertical sidebar on the left with buttons for Manage, Flow, Audit, Debug, Activities, and Transac. The status bar at the bottom indicates "Logged to domain: default" and "Oracle BPEL Console v2.0". The browser's status bar shows "Local intranet".

Portlets – Portal

This report shows the process instances in various states and their execution times

Report Type: **Process**

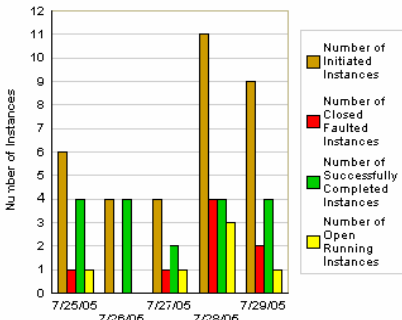
Query

End Date: (mm/dd/yy) Time Interval: Go

End Hour: Number of Time Intervals:

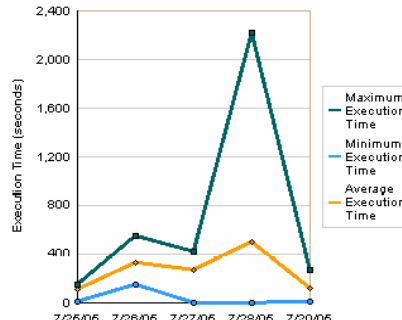
Start Time: **7/24/05 10:00:00 PM** End Time: **7/29/05 10:00:00 PM** [Export to CSV](#)

Instance State



Instance Execution Time

View Execution Time for: Time Unit:



My & Group Tasks Chart
User: JSTEIN

Assignee	Status	Count
jstein	Assigned	2
	Completed	2
	Expired	1
	Errored	0
	Suspended	1
	Withdrawn	0
	Info Requested	0
Total	6	

Page refreshed on Jun 21, 2005 3:26 PM

Worklist Portlet

Reportees Tasks
User: JSTEIN

Title	Number	Assignee	Status	Priority	Expiration	Modified
Vacation request for jcooper	10272	mtwain (U)	Completed	3	Jun 22, 2005 2:37 PM	Jun 21, 2005 3:23 PM
Vacation request for mtwain	10273	rsteven (U)	Assigned	3	Jun 22, 2005 2:37 PM	Jun 21, 2005 3:10 PM
Vacation request for rsteven	10274	jcooper (U)	Suspended	3	Jun 22, 2005 2:45 PM	Jun 21, 2005 3:09 PM
PO Request for laptop	10275	jcooper (U)	Assigned	1	Jun 23, 2005 3:01 PM	Jun 21, 2005 3:09 PM
PO Request for fax	10276	rsteven (U)	Expired	1	Jun 23, 2005 3:04 PM	Jun 21, 2005 3:09 PM
PO Request for Projector	10278	mtwain (U)	Assigned	5	Jun 23, 2005 3:04 PM	Jun 21, 2005 3:09 PM

Tasks 1 - 6

Page refreshed on Jun 21, 2005 3:26 PM

Evolução da Integração

Integração Processos

Antes

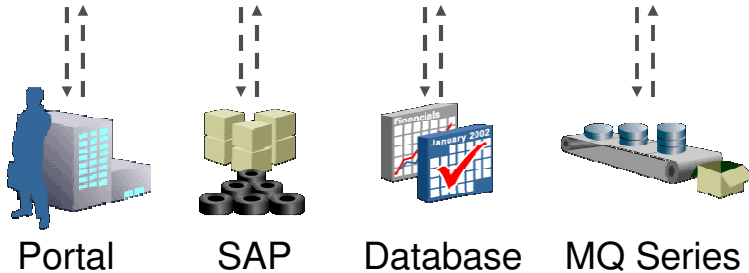
Choice #1
Build your Own

- Complex Code
- Errors
- Hardwired

Choice #2
Traditional EAI/
Traditional BPM

- Monolithic
- Vendor Lock-in
- Expensive
- Simplistic

Adapters



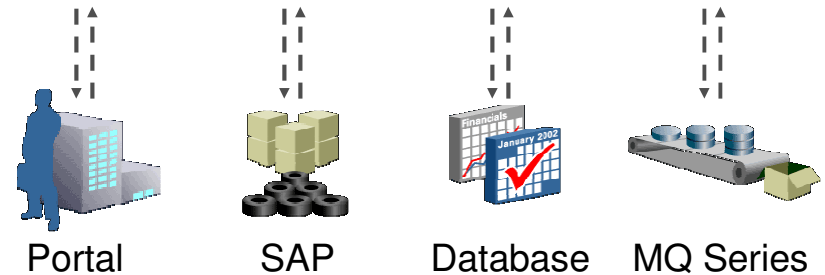
Integração Processos

Agora

Choice #3
BPEL Business Processes

- Industry Standard
- Rich Process Semantics
- First class citizen of J2EE platform
- Open and Extensible

Web Services or WS Binding Framework



Conclusões

- O problema NÃO é novo. O que é novo:
 - BPEL + SOA + Web Services oferecem uma solução técnica superior
 - Pela primeira vez na história são padrões de mercado
 - Possibilita o cliente preservar os seus investimentos

P
P E R G U N T A S
R E S P O S T A S
R

Agenda

- Introdução
- Oracle BPEL Process Manager
 - Rápida revisão
- Demonstrações

Contexto

- PeopleSoft – CRM
- Oracle eBusiness Suite – Financial
- Oracle Application Server
 - Oracle SSO
 - Oracle Discoverer
 - Oracle Portal
 - Oracle BPEL Process Manager
 - Oracle BAM
- On-line, Austin Data Center – Texas

ORACLE®