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ACTIVEVOS 7.0

The BPMS development teams love

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CTO, Active Endpoints
September 3, 2009

Outline

- Why use a BPMS in a service-oriented architecture?
- What should a lean standards-based BPMS look like?
- Demonstration of ActiveVOS 7.0
 - Including side-by-side comparison to the open-source Riftsaw BPEL project

Building business services

Middleware stack approach

- IBM WebSphere
- Oracle 11G
- Red Hat

Issues

- Price/value
- Complex heavyweight platforms burdened by legacy
- Lack of focus on end-to-end user experience
- Difficult to integrate – not suited to multi-vendor environments

Business user approach

- Pegasystems
- Lombardi

Issues

- Price/value
- Not suitable for more complex/SOA based scenarios
- Poor support for standards

The Alternative: a lean standards-based BPMS

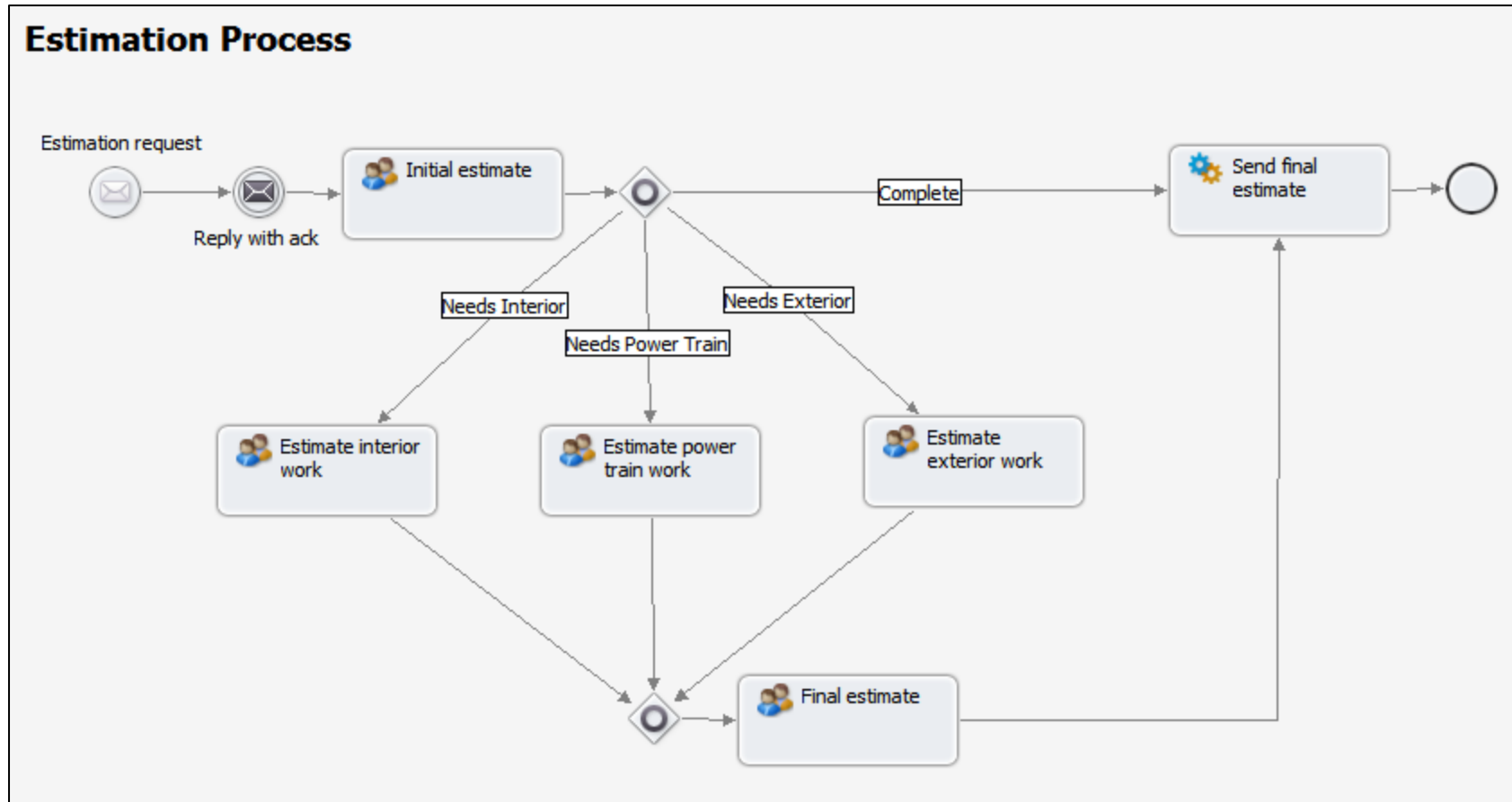
- **Standards** for service and task orchestration
- Tooling that **lowers the pre-requisites** for designing and implementing end to end business processes
- **Full app lifecycle support** - modeling, test, and debug capabilities to get the data manipulation, all the exception paths, and deployment right
- **No infrastructure dependencies** – run anywhere

...and collaboration with business users

Key reasons to use a BPMS for services

- Visibility – know what is happening in the business
- Coordination with Business Users
- Fix problems at runtime
- Easily adjust and improve post-deployment
- Coordinate employee's tasks
 - with each-other and with automated services

Graphical representation of control flow



Key standards for a lean standards-based BPM

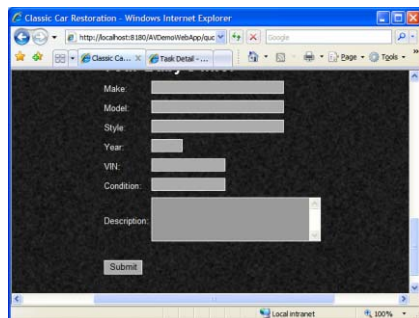
- BPMN for modeling notation
- BPEL (& BPEL4People) for executing processes
- WS-HumanTask for worklist management
- SCA for service composition
- XML and XSD for data
- WS-* or REST for interoperability

WS-BPEL: The service orchestration standard

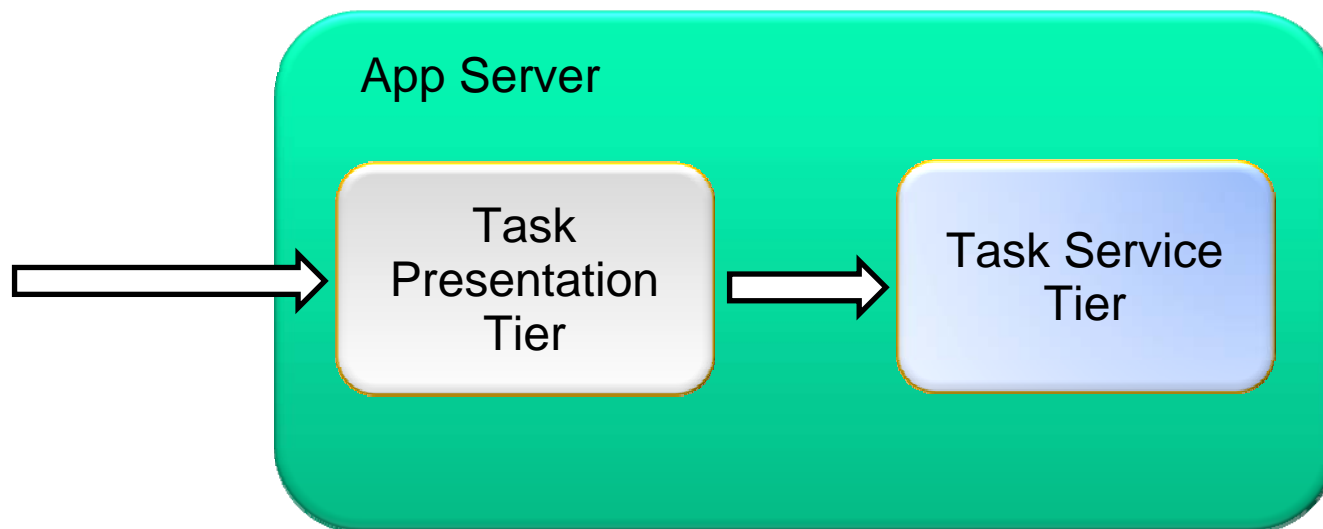
- WS-Business Process Execution Language (WS-BPEL 2.0)
 - Adopted as OASIS Standard, April 2007
- Built for web services
 - Variables and parameters typed by XML Schema
 - Operation signatures specified by WSDL
 - Expressions and conditionals specified using XPath
 - An XML syntax for the language itself
- Oriented toward asynchrony and long-running transactions
 - Bi-directional conversations between two participants
 - Flexible message correlation support
 - Event handlers as part of the language

Lose the Presentation Tier

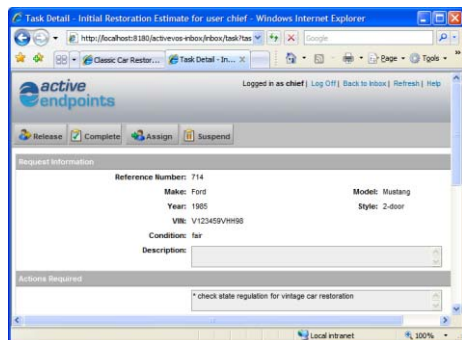
Old Way



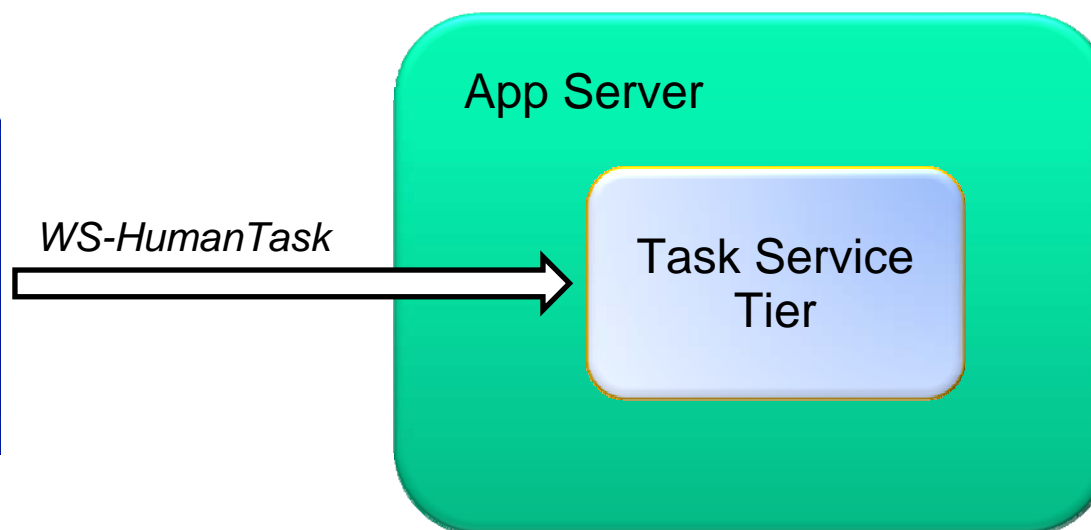
Dumb Web Client



New Way



AJAX Client



BPEL4People and WS-HumanTask

- Being Standardized by OASIS
- BPEL4People
 - Standard extension to BPEL for “people activities”
 - New ad-hoc attachments, which are available to all people activities
 - Dependency on WS-HumanTask
- WS-HumanTask
 - Services implemented by a person doing a task in a worklist system
 - Coordination protocol for lifecycle events
 - Generic Roles
 - Potential Owner, Actual Owner, Stakeholder, Business Administrator, etc.
 - Design time: “Logical people group”
 - Runtime or deployment-time mapping to users or groups

Let me show you

Get started with ActiveVOS 7.0

- Download a free, supported, 30-day trial:
<http://www.activevos.com/trial>
- Take advantage of the free technical learning materials available in our In-depth Center:
<http://www.activevos.com/indepth.php>
- Visit our blog and subscribe to our podcast feed:
<http://www.vosibilities.com>

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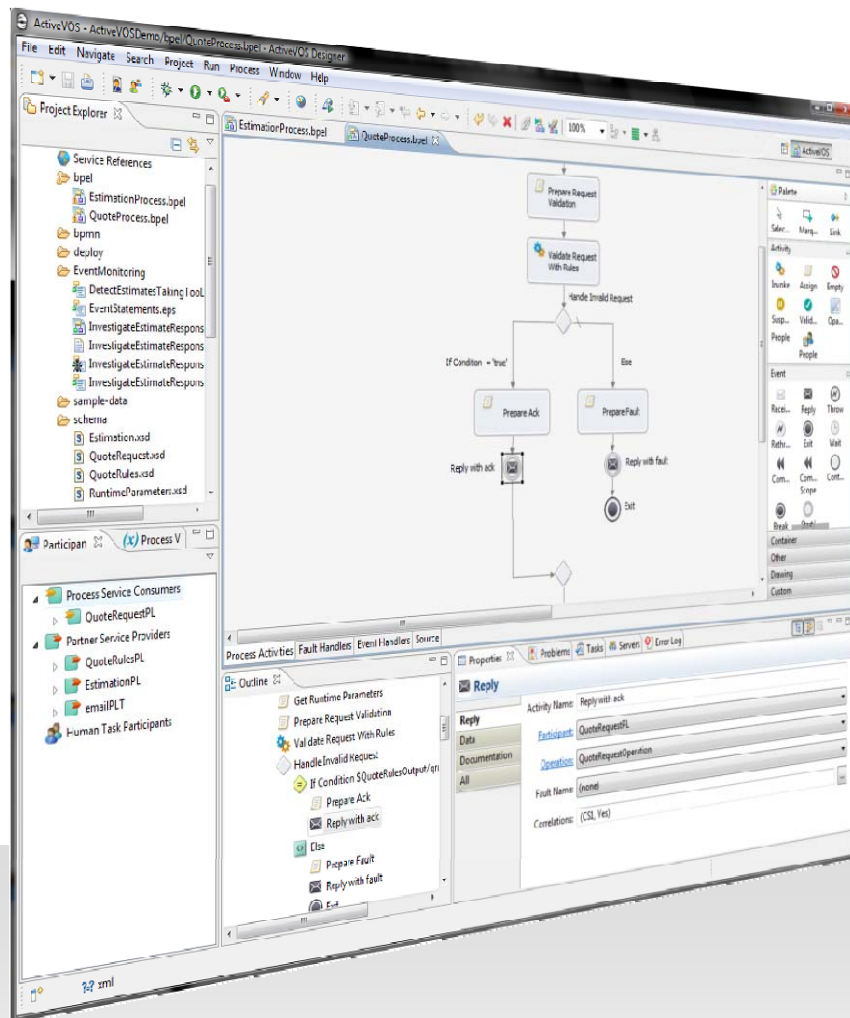


QUESTIONS?

**TELL US WHAT YOU THINK:
[REDHAT.COM/JBOSSWORLD-SURVEY](https://redhat.com/jboss-world-survey)**

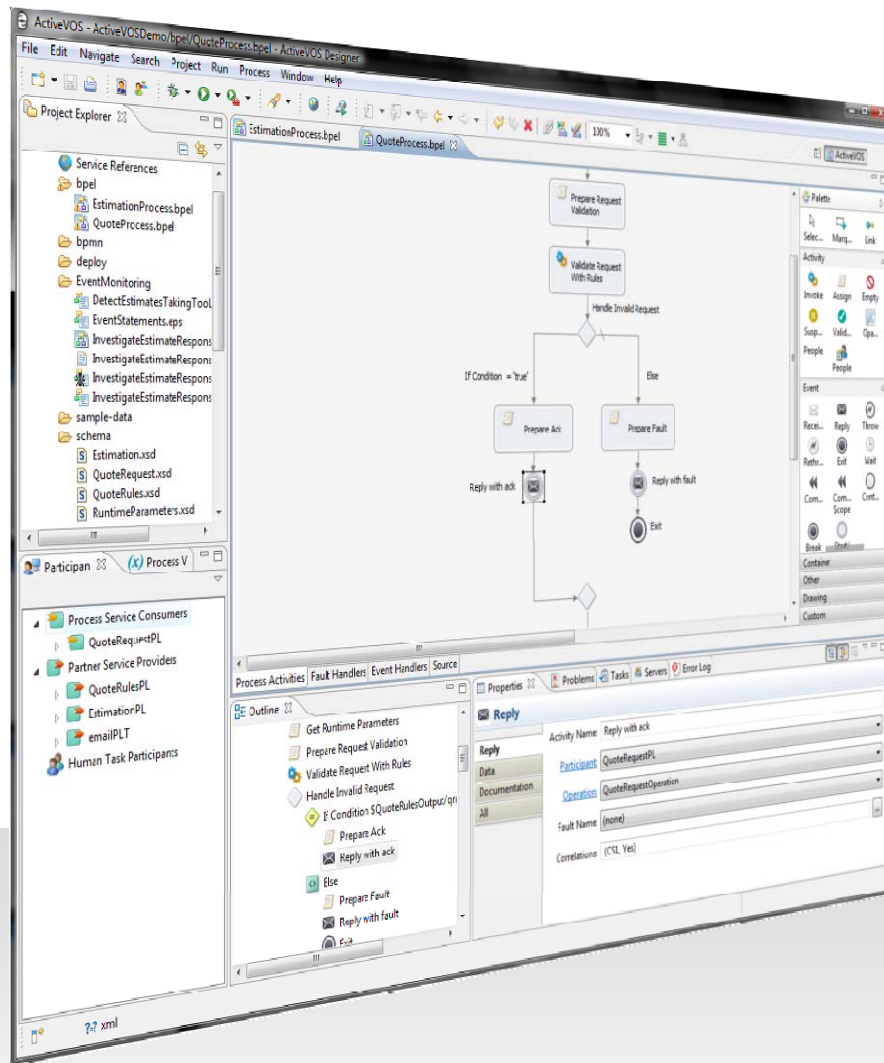
Additional Slides

What makes ActiveVOS different



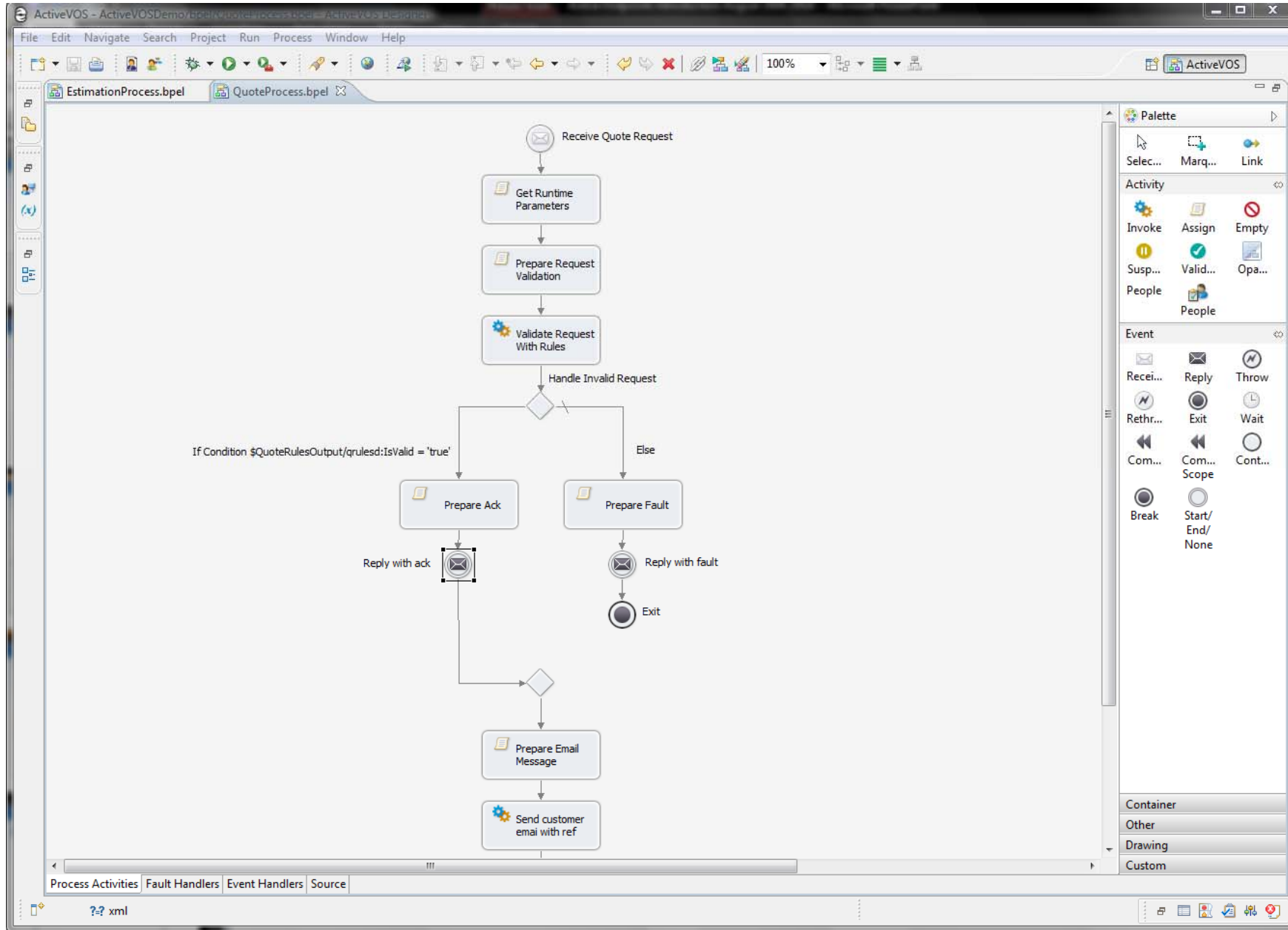
- ActiveVOS BPMS is both **platform independent** and **lightweight**
- **Development teams** love ActiveVOS
- ActiveVOS **implements standards** that *really* deliver investment protection
- Proofs-of-concept can be done on **your schedule**, making teams self-reliant
- ActiveVOS lets development teams deliver processes **on time**...and **kiss their consultants goodbye**

ActiveVOS delivers



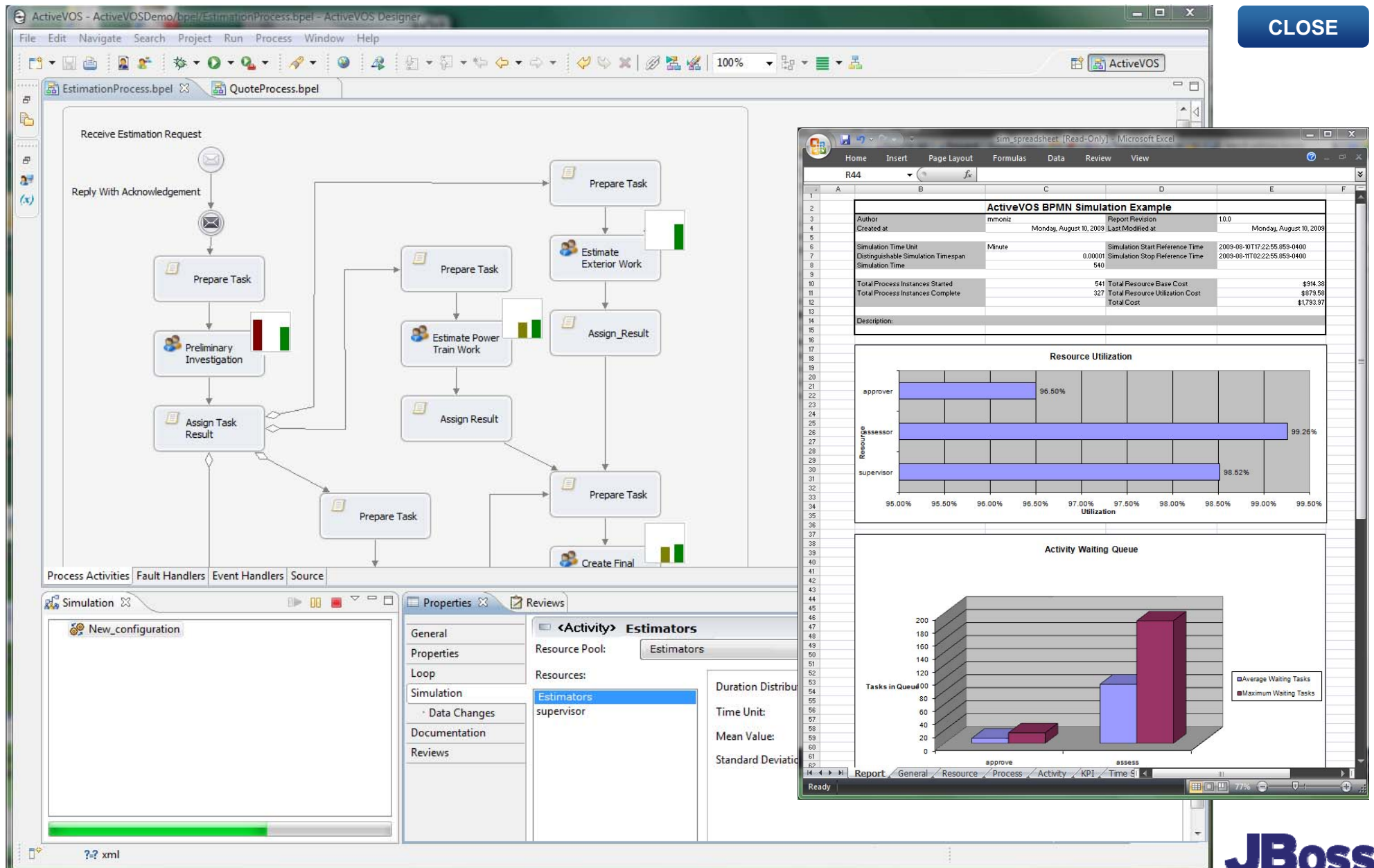
- The first orchestration server
- Single, integrated product
- Completely standards-based
- **One-tenth the cost**
- **One-fifth the time to develop a new application**

Project Phase: Model



CLOSE

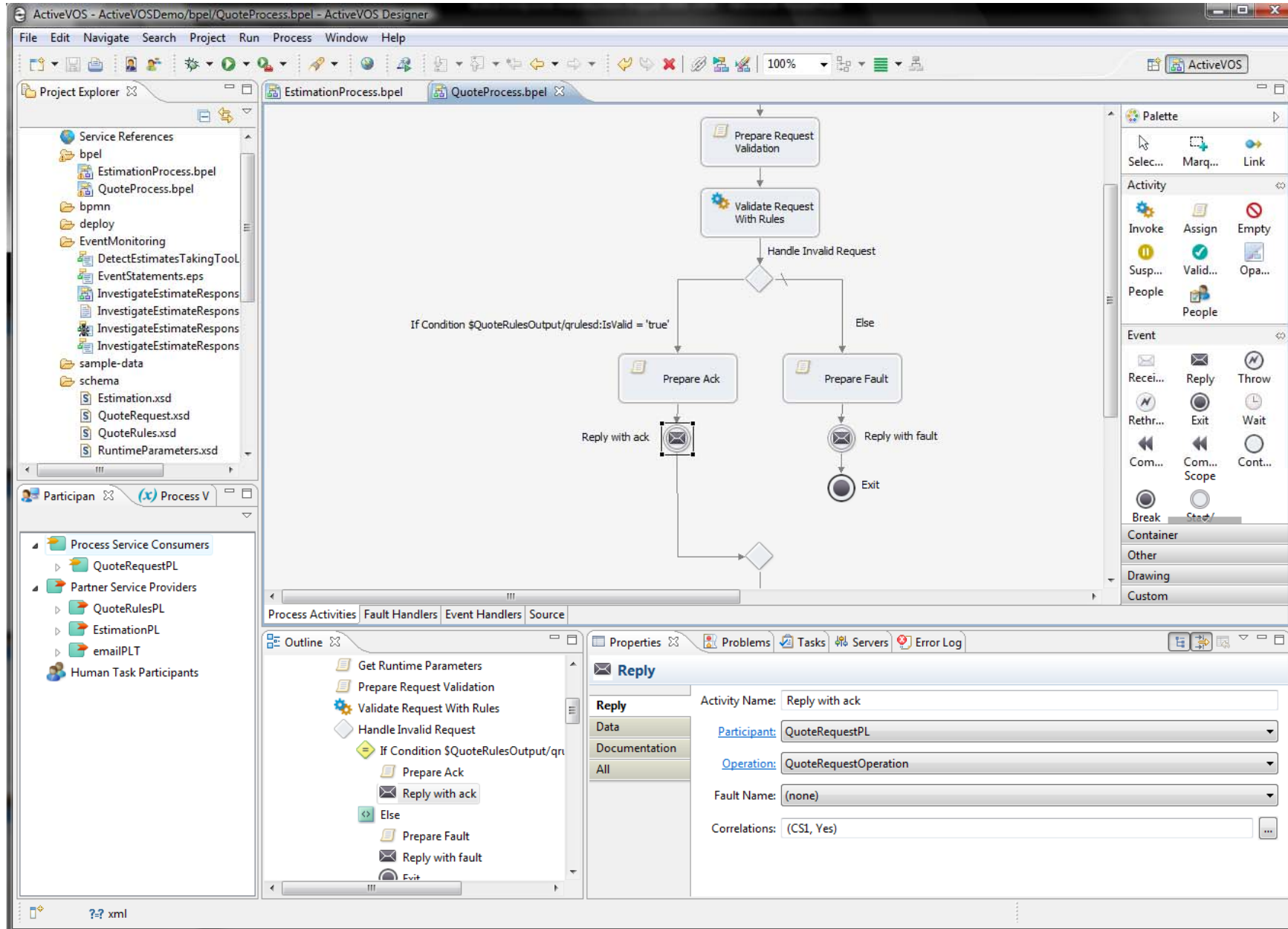
Project Phase: Analyze



CLOSE

Project Phase: Implement

CLOSE



Project Phase: Deploy


The screenshot shows the ActiveVOS Designer interface with the following components:

- Project Explorer:** Displays a project tree for 'ActiveVOSDemo'. The 'deploy' folder is expanded, showing files like 'AVDemoWebApp.war 1.5 (Binary)', 'estimation.bpr 1.8 (Binary)', 'estimation.bprd 1.4 (ASCII -kkv)', 'EstimationProcess.pdd 1.5 (ASCII -kkv)', 'quote_process.bpr 1.11 (Binary)', 'quote_process.bprd 1.4 (ASCII -kkv)', 'QuoteProcess.pdd 1.6 (ASCII -kkv)', 'rules_stub.bpr 1.1 (Binary)', and 'rules_stub.bprd 1.1 (ASCII -kkv)'.
- General Tab:** Contains deployment settings for 'QuoteProcess.pdd'.
 - Deployment Platform:** ActiveVOS Enterprise Server
 - Process Logging:** Execution with Data
 - Process Persistence:** Full
 - Group:** Demo
 - Suspend on Uncaught Fault:** True
 - Suspend on Invoke Recovery:** (System Default)
 - Process Instance Retention Days:** (empty field)
- Versioning Tab:** Contains versioning settings.
 - Process Version:** Auto-Increment On Change (selected), Specify (disabled)
 - Effective Date:** Immediate (selected), Specify (disabled)
 - Expiration Date:** Never (selected), Specify (disabled)
 - Running Process Disposition:** Migrate Version (selected in dropdown menu)
- Interfaces Tab:** Shows 'Partner Link Types' and 'Port Types'.
- Properties Tab:** A table with 'Property' and 'Value' columns.

CLOSE

Project Phase: **Execute**

[NEXT >](#)



Logged in as chief
[Log Off](#) | [Help](#)

[Home](#) | [Taskname](#) | [Reportname](#)

Tasks

Role: User

Notifications

Open tasks

Closed tasks

My tasks

Bookmarked Tasks

Show: All

Open

Release

Complete

Skip

Assign

Suspend

search

	Name	Subject	Owner	Created	
1	Task1a	Task subject long description	John Doe	5/19/09 08:14 am	<input checked="" type="checkbox"/>
1	Travel Req...	Travel Request to Toronto - Customer Visit	Jim	5/19/09 09:17 am	<input type="checkbox"/>
2	Task3a	Task subject long description	Loan Approver Group	5/20/09 02:11 pm	<input checked="" type="checkbox"/>
2	Task1b	Task subject long description	Jenny Jones	5/21/09 10:25 am	<input type="checkbox"/>
1	Task2b	Task subject long description	unassigned	5/22/09 11:47 am	<input type="checkbox"/>
1	Task1c	Task subject long description	unassigned	5/22/09 03:38 pm	<input type="checkbox"/>
1	Task2c	Task subject long description	unassigned	5/23/09 07:11 am	<input type="checkbox"/>

TRAVEL REQUEST

Request

Approval

Business purpose:

Customer visit to Toronto

Request date:

6/23/2009

Traveler information

Name:

Tom Jones

Department:

Sales

Email:

tom.jones@mycompany.com

Manager Approval

☐ Approved

☐ Not Approved

Comments:

Request

Lookup

Reports

Project Phase: **Execute**

ActiveVOS - Approval_Adjust_Threshold/epl/detectTooFewAutoApprovals.epp - ActiveVOS Designer

File Edit Navigate Search Project Run Window Help

Project Explorer

- >ActiveVOSDemo [earth]
- >ActiveVOSDemoRules [earth]
- Approval_Adjust_Threshold
- Service References
- bpel
- deploy
- epl
 - AdjustAutoReviewThreshold.pdd
 - complexEventHandling.bpr
 - complexEventHandling.bprd
 - detectTooFewAutoApprovals.epp
 - otherEventQueries.eps
 - pathsTaken.eps
- GenerateLoanRequests
- Partner_Services
- runtimeParameters
- sample-data
- schema
- support
- test
- wsdl
- xsl
- xsl-renderings
- README.txt
- loan_approval_integrated
- loanRules
- Tutorial

Design

Pattern

The event pattern that will cause actions to be triggered. The pattern is written in the Esper EPL language.

☒ Enable Runtime Debugging

```
every (evt=TooFewAutoApprovals)
```

Actions

The actions to perform when the pattern is triggered.

Name	Service Name
adjustAutoReviewThreshold	adjustAutoReviewThreshold

Buttons: Add..., Remove, Up, Down

New BPEL Process

New BPEL Process from Template

Optionally choose a BPEL Template to use as the starting point for your new BPEL Process.

☒ Create a BPEL Process using one of the templates

Available Templates:

- Custom B4P Notification
- Alert Process
- Retry-Policy Process
- Event Action Process

This template creates an ActiveVOS Event Action Process.

An Event Action Process is invoked by the ActiveVOS Server when a Business Event Pattern is matched, thus triggering any actions associated with the pattern.

Buttons: < Back, Next >, Finish, Cancel

Properties Problems Tasks Error Log Servers Console

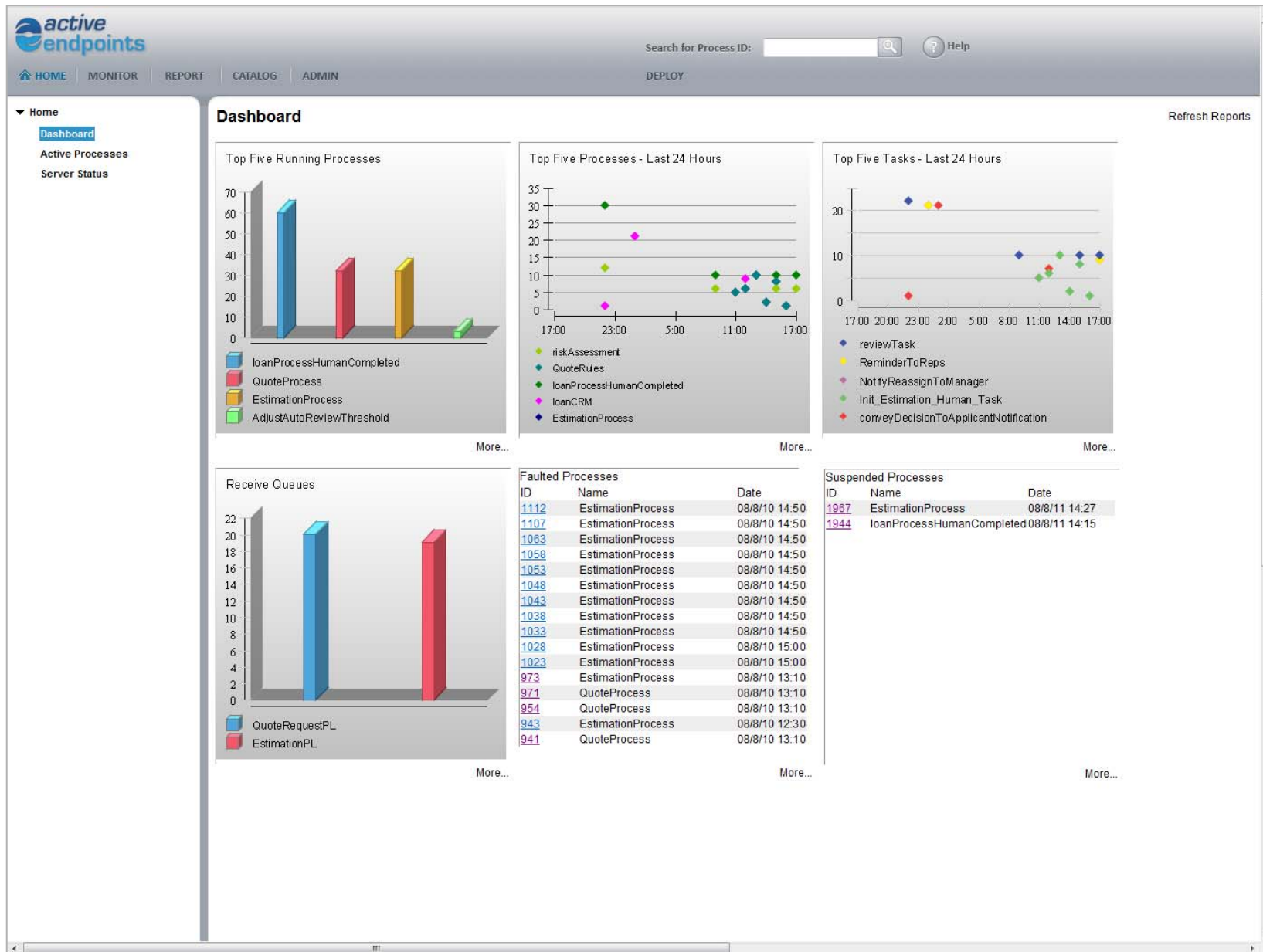
Errors, 125 warnings, 19 infos

Description

- Warnings (100 of 125 items)
- Infos (19 items)

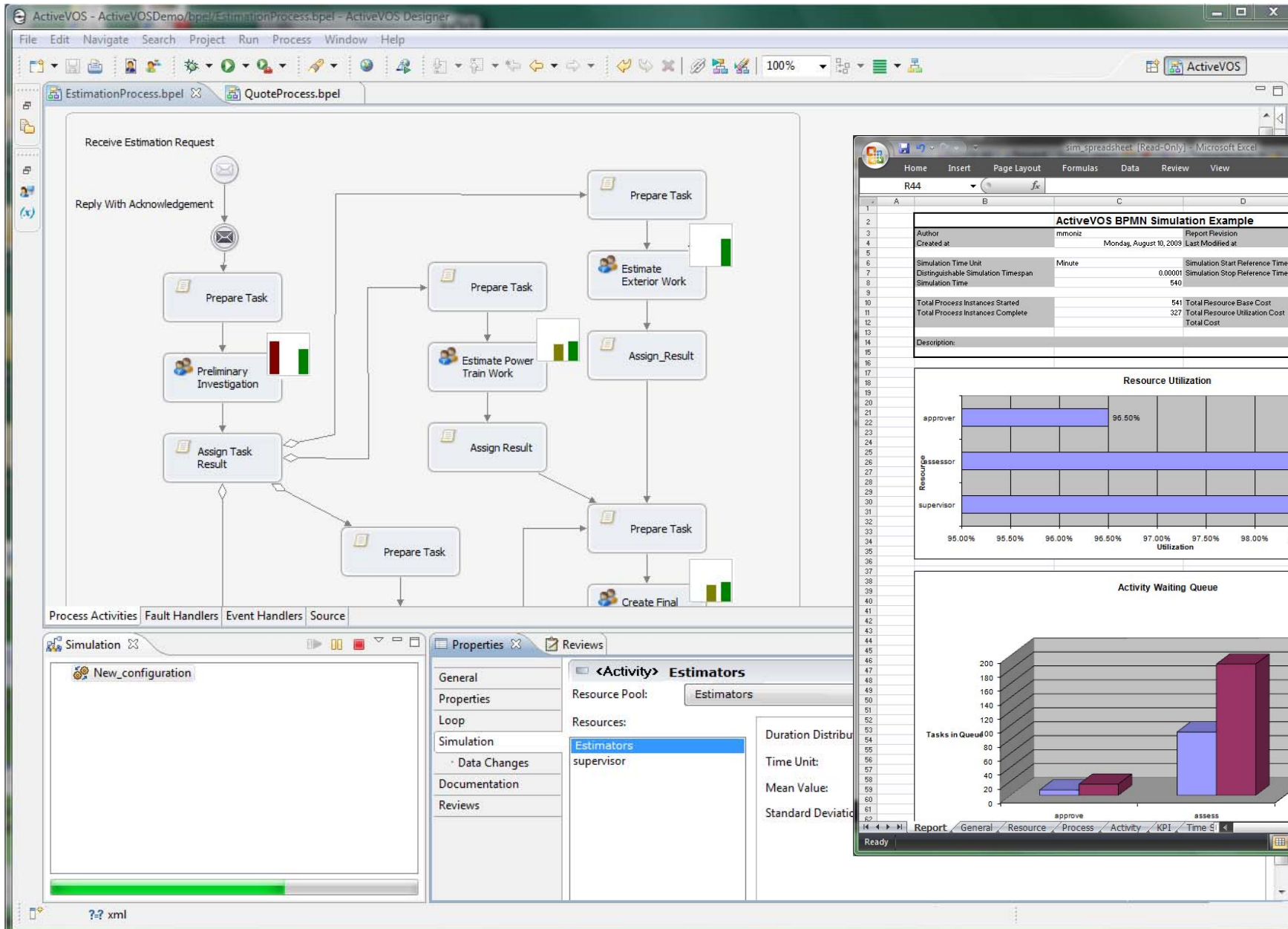
CLOSE

Project Phase: Monitor



CLOSE

Project Phase: Optimize



CLOSE

