The Oracle BPEL Process Manager

BPEL Test Feature Preview

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Agenda

• BPEL Customer Advisory Board
• BPEL Test Overview
• Demo!
• Q&A
BPEL PM Customer Advisory Board

- Must be a *customer* and fill out customer survey
- 1 in-person mtg/year (first mtg planned for Oracle Open World, week of Sept 19 in San Francisco)
- Web conference updates
  - Feature/product updates (like this)
  - Application/POC implementation reviews
- Occasional emails (approx. monthly)
  - Product roadmap/PRD
  - Ask for feedback/input regarding specific features, platform support, etc
- Feedback (solicited or not) is always welcomed!

To register interest, email david.shaffer@oracle.com with CAB in the subject line
BPEL Test Motivation

• Customers need to test their processes!
• Currently, each needs to build own infrastructure
  • Custom test definition format
  • Simulate services
  • Initiate, test results
  • Typically confined to “black box” approach
BPEL Test Framework

- Provides a mechanism that allows users to automate testing of their BPEL processes:
  - Emulate partners/services
  - Verify process actions (assert)
  - Calculate code coverage
  - Supports both service and system faults
- Results integrated into BPEL Console as well as Ant-JUnit reports.

Timeline
- Code checked in to 10.1.2p2 branch
- Available to customers this summer in preview mode
- GA Fall 2005
User Experience

• Create a test case “driver file”
  • XML document that specifies the unit test
  • One driver file corresponds to one BPEL instance.
• Run new ant task to deploy the test case.
• Run test from the console or from command line.
• View results, fix process logic and repeat.
Methodology – Baseline Driver

- Select Lowest Offer
- Handle Negative Credit Exception
- Send Loan Application
- Select Lowest Offer
- Bug: Always Star Loan

10:00am

Send Loan Application

Rating = 357

Send Loan Application

APR = 55.7

Credit Rating

Test Framework

United Loan

Test Framework

APR = 55.7

Test Framework

03:00pm
Methodology – Sample Test

- Select Lowest Offer
- Handle Negative Credit Exception
- Get Rating
- Send Loan Application
- Assert United Loan Selected
- Record Failure

Credit Rating
Test Framework
United Loan
Test Framework
Test Framework

Start

10:00am

Rating = 357

Send Loan Application

10:01am

Rating = 357

Send Loan Application

Star Loan

Test Framework

Select Lowest Offer
Bug: Always Star Loan

10:01am

APR = 55.7

APR = 5.7

ORACLE
BPEL Test Demo!
Planned Upcoming Features

- High priority:
  - Allow XML comparisons for assertions (GA)
  - Automate creation of baseline test from audit trail (GA)
  - Designer support

- Medium priority:
  - Emulate header information and attachments (today just msg body)
  - Richer loop sensitive support
  - Multi-level tests
  - Offline test mode
Q&A