Bridging SOA Editors in Eclipse STP with the Intermediate Model

Adrian Mos
SOA Technical Lead
OW@INRIA Team
http://ow.inrialpes.fr

Santa Clara, 19 March 2008

© 2008 by Adrian Mos; made available under the EPL v1.0
Presentation Overview

The need for the STP-Intermediate Model
How the STP-IM Addresses the SOA Diversity
Virtual Use Case for STP-IM

How to Get and Contribute to STP-IM
Large Variety of SOA Tools and Platforms

Eclipse SOA Tools Platform Project hosts several SOA editors
- BPMN
- BPEL
- Policy
- JAX-WS
- SCA
- JBI

Different roles use different editors / platforms

Information duplication is inevitable when moving across editors
- Same service can be seen in different spaces
- Processes, dependencies, compositions must be defined repeatedly
Integrating SOA Editors - A First Take

NOT Ideal!
Bridging SOA Editors with STP-IM

Better!
“Travel” Reservation Scenario
First SCA Diagram

Travel Composite

- BookHotel Provider
- GetForecast Provider
- SendEmail Provider

Travel Service (Orchestration)

Travel

STP-IM
SCA Diagram 2

Travel Composite

BookHotel Wrapper (Java)

Hotel Reservation WS
Weather Forecast WS

Hotel
Weather
Email

SMTP Server

Travel Service (Orchestration)

Travel

Book
Weather
Email
JBI

Hotel Reservation WS

Weather Forecast WS

SMTP Server

SOAP - BC

Hotel

Weather

SMTP - BC

Email

BPEL - SE

Travel Service

POJO - SE

Book Hotel Wrapper

Hotel Reservation

Weather Forecast

SMTP Server

JBI
Current Status: Transformations

To STP-IM
- BPMN -> STP-IM
- SCA -> STP-IM (ongoing)
- SC Editor -> STP-IM (t.b.s)
- JBI -> STP-IM (t.b.d)

From STP-IM
- STP-IM -> BPEL
- STP-IM -> JBI
- STP-IM -> SCA (ongoing)
- STP-IM -> SC Editor (t.b.s)
Get and Contribute to STP-IM

Location:
- HTTP://www.eclipse.org/stp/im
- SVN://…/stp/org.eclipse.stp.model

Plugin Structure:
- org.eclipse.stp.im (STP-IM model)
- org.eclipse.stp.im.runtime.* (e.g. bpel, jbi)
- org.eclipse.stp.im.in.* (e.g. bpmn)
- org.eclipse.stp.im.tool.in.* (e.g. bpmneditor)

Also check out Spagic 2.0, based on STP-IM!
- http://spagic.org
- Short Talk coming up at 10:50am, same room