Mashup the Development Process with ALF (Eclipse Application Lifecycle Framework project)

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Outline

• Brief introduction to ALF
• Commercial adoption of ALF
  ✷ Serena Business Mashups
• Choices for creating mashups for development
The inspiration for ALF
What the customer wants – a standard tool “wall plug”

Customer view:
It’s about time

Vendor view:
The only way we grow the market
ALF: Is About Process Integration of Dev Tools

ALF Event Manager

ALF Service Flows

Inception | Definition | Construction | Verification | Implementation

ALF = ALM tool Integration using SOA
Example of BPEL Orchestration
Commercial adoption of ALF

• There are several “rights of passage” for an Eclipse project
  • One is being incorporated into a commercial product
  • Eclipse ALF project has been consumed by Serena Business Mashups
    ▪ Shipped GA December 2007
What is Serena Business Mashups (SBM)?

• Serena Business Mashups is a commercial product for creating business mashups using Web Services and Web 2.0

• SBM uses ALF for:
  - Web Service Events
  - Web Service Orchestration
  - Single Sign-On
  - Conveying Identity through web services
Design Phase: Defining a Mashup

Serena Business Mashups

Mashup Composer (Designer)

WS-Trust Request Security Token exchange

Mashup design

SBM Design Repository

ALF Infrastructure

Eclipse Higgins Security Token Server

Logon UI (ALF Federation Server)

ALF Event Manager

BPEL Orchestration Engine

Logging and Other services
Deployment Phase

Serena Business Mashups

- Mashup Composer (Designer)
- SBM Design Repository
- Mashup Manager (Deployment)
- Application Engine (Runtime)
- AE Runtime database

Flow:
- Command to Deploy (with Security Token)
- Mashup design
- Deploy Event-action map
- Deploy Human Process
- Deploy BPEL Process

ALF Infrastructure

- Eclipse Higgins Security Token Server
- Logon UI (ALF Federation Server)
- ALF Event Manager
- BPEL Orchestration Engine
- Logging and Other services

ALF Gatekeeper
Runtime Architecture

Serena Business Mashups

ALF Gatekeeper

Application Engine

AE Runtime database

Notification Engine

ALF Infrastructure

Eclipse Higgins Security Token Server

Logon UI (ALF Federation Server)

ALF Event Manager

BPEL Orchestration Engine

Logging and Other services

Client

Launch and interact with a Mashup

Authenticate User

Raise an Event

Launch a process
So how can I mashup my development?

• Using Eclipse ALF:
  - ALF provides an extensible framework for integrating development tools using SOA
  - What you get:
    - Guidance and best practices
    - Event Manager
    - SSO and SOA security infrastructure (Builds on Higgins)
    - Administrative tooling
    - Vocabularies for SCM, Build, (In progress: Requirements)
  - You supply your favorite BPEL designer and BPEL engine
  - You can create:
    - Integrations driven by tools using orchestrations to synchronize data among tools
    - See [http://www.eclipse.org/alf/Flash/RUN_ME_FOR_THE_ALF_DEMO.htm](http://www.eclipse.org/alf/Flash/RUN_ME_FOR_THE_ALF_DEMO.htm)
So how can I mashup my development?

• Using Serena Business Mashup (SBM):
  • The SBM commercial tool adds to ALF:
    ▪ An integrated designer tool for human workflow, BPEL Orchestration, data, and forms
      ✤ Free download: http://www.serena.com/mashups/testdrive.html
    ▪ A Human Workflow (Approvals) engine
    ▪ Complete administration tools
    ▪ Deployment and Configuration Management tooling
Thank you!

Take your pick to mashup your development:

Try out ALF:  http://www.eclipse.org/alf

Try out Mashup Composer at  
http://www.serena.com/mashups/testdrive.html