Consistent service integration in your workflows with OW2 Scarbo 2.0

Marc Dutoo, Open Wide
Project Spotlight Track – Nov. 29th
Marc Dutoo

- Head of R&D Dept. at Open Wide, SOA, BPM, ECM expert
- OW2 Scarbo & Eclipse JWT founder, EasySOA project leader

Among leading Open Source providers in France
- Solutions for business (Portals, Portals, BI), integration (SOA, BPM, ESB), as well as hosting, embedded software.

With thanks to
- Yoann Rodière, Open Wide
- INRIA Lille & other EasySOA Project partners
I. From Scarbo to Scarbo 2
II. Enters EasySOA Registry
III. Scarbo 2 Architecture
IV. Demo!
Why Scarbo?

– Because empowering users by letting them design and run their processes (BPM) is the best way to get more value of your services,

– and having a service-oriented architecture (SOA) is the best way not to let this go out of hand!

=> Scarbo 2: an **SOA-consistent** BPM solution

– Built on top of 2012 OW2 & Eclipse technology
SOA-consistent? However...

- Services do not make an architecture
- And calling them does not ensure that
  - They are the right ones, their providers know about you and your needs
  - You have the right to, the CIO knows about it
  - They are implemented, or they will be when your processes are scheduled to be deployed
  - They are up...

That’s the kind of problems addressed by EasySOA!
Enters the EasySOA Registry

A unified service registry for all actors of the SOA process, on top of Nuxeo DM

• Service audit and discovery
  – From design, source, web, monitoring, classpath...

• Service documentation
  – Extracted & manual, classification, collaborative editing

• SOA sanity check & improvement
  – indicators and validation, from design time to monitoring

• Testing tools: record / (templatized) replay, SOAPUI

• Integrated online social Cloud service mashups: FraSCAti Studio

• Integrated ESB platform: Talend ESB & OW2 Jasmine monitoring
Behind, French partners but also worldwide leaders

- **INRIA labs**: heterogeneous service engine (OW2 FraSCAti)
- **EasiFab**: SOA Modeling (Eclipse SOA), monitoring (Galaxy)
- **Talend** (ETL/ESB): SOA and data connectors to connect to existing business – but also Data Quality and MDM
- **Nuxeo** (ECM): document management platform, to manage the SOA model, documents and artifacts
- **Bull**: SOA monitoring with OW2 Jasmine
- **Open Wide**: leader, global architecture and integration, BPM (with Eclipse JWT / OW2 Scarbo), use case
Components upgrade - **DONE**
- Process design: Eclipse Juno Java Workflow Tooling
- Process runtime: OW2 Bonita 5.7.2
- Service runtime: OW2 FraSCAti 1.5

Features
- Export model to EasySOA Registry - **DONE**
- Choose known services in RegistryService - **UPCOMING**
- Global FraSCAti policy intents (security...) - **UPCOMING**
- Deployed workflow discovery - **LATER**
1. Business analyst and end user design process in JWT and exports it in EasySOA Registry
   - Services, comments, description...
   - For reference and documentation
3. Developer completes the process technically and exports it to an executable process
4. Operator deploys it on Bonita 5
5. User (or integrated applications) runs it
Demo – JWT process to SOA registry export

Export JWT model
Export JWT model into another metamodel

Transformation
EasySOA 1.0 synchronization
Export to an EasySOA 1.0 instance.

Input workflow
Open workflow editor instance
Select an editor instance

Validation_Projet (ancv_apv_projet_web)

Output
Local, demonstration EasySOA instance
User: Administrator
Password: *************
Host: localhost
Port: 8080
Path: /nuxeo/atom/cmis
Demo – JWT export to executable process

APIVProjetWSPublish

projetPublishResult

CallWS

Export JWT model
- Export JWT model into another metamodel
- Export this process from JWT to DAR file for Bonita...

Transformation
- Export as an executable process on Scarbo

Input workflow
- Local file

Java Class
- Method
- Input Parameter: APVProjetWSPublish::projetId
- Output Parameter: APVProjetWSPublish::projetPublishResult

Interface
- Operation: publish

http://localhost:8076/services/ProjetService?wsdl

Export
Select
- Open created file

Demo – Process to EasySOA registry
Demo – run Bonita process on SOA
OW2 Scarbo 2
Release planned for Christmas
http://scarbo.ow2.org

EasySOA Registry
By Open Wide
On the shelves in 2013
http://www.easysoa.org
http://github.com/easysoa
easysoa-dev@googlegroups.com