# SCA Tools 2.2.0 (Indigo) Release Review



Planned Review Date: June 2011

Communication Channel: eclipse.stp.sca-tools forum

Stéphane Drapeau (Obeo)

# SCA Tools Overview

- The purpose of the Eclipse SCA Tools project is to develop a set of tools to help developers of SCA applications

- The SCA Tools project focuses on tools covering the SCA specifications:

    - SCA ecore meta model corresponding to the XSD scheme proposed by the Open SOA consortium and by OASIS

    - Ecore meta models of additional implementations, interfaces, and bindings defined by the SCA runtime implementations Tuscany, Frascati, and Fabric3

    - Editors (XML, form, graphical) helping developers to construct SCA assembly files

    - Introspective tools that analyze existing code to complete the SCA model according to SCA annotations found in the code

# Features

- SCA Meta Model
  - 2 core meta models: OSOA and OASIS
  - Extensible: one extension per SCA platform
  - The user can define its own extensions

- SCA Composite Designer
  - Easily extensible
  - Bottom-up approach: introspection of existing Java code and ComponentType files

- SCA XML Editor
  - Customization of the WTP XML editor: auto-completion for attribute values

# Features

- SCA Form Editor
    - Editor with a web-interface for SCA XML artifacts
- SCA Project utilities
    - Creation wizards
    - SCA Builder
    - Generation of Java code skeletons from a composite
- SCA Runtime support
    - Deployment of SCA projects on servers from Eclipse
    - Currently available: Apache Tuscany 1.x, OW2 FraSCAti 1.x
- OSOA Java annotations and APIs embedded

# New & Noteworthy

- Policy wizards for OW2 FraSCAti
- Creation wizards updated and unified
- New browsing actions in the SCA Designer (classpath introspection)
- Complete reorganization of the code

# Non-Code Aspects

- Vincent Zurczak, « SCA Tools: New & Noteworthy », Eclipse DemoCamps Indigo 2011/Grenoble, 2011 June 28
  - http://wiki.eclipse.org/Eclipse_DemoCamps_Indigo_2011/Grenoble

# Schedule

- http://wiki.eclipse.org/SCA#Planning

# API

- Metamodels and corresponding implementations

# Documentation

- For users :
  - http://wiki.eclipse.org/STP/SCA_Project#Tutorials - section « Tutorials for SCA Tools users »
- For developpers :
  - http://wiki.eclipse.org/STP/SCA_Project#Tutorials - section « Tutorials for SCA Tools developers»
- Wiki
  - http://wiki.eclipse.org/STP/SCA_Project

eclipse

# Standards

- The SCA Composite Designer is compliant with:
    - The SCA specifications 1.0 proposed by the Open SOA consortium and
    - The SCA Specifications 1.1 proposed by OASIS

# End of life

- No features from the previous release have been end-of-life'd in release 2.2.0

# Tool usability

- Localization / externalization

# Synergies

- With other Eclipse projects
  - EMF project is used to generate the SCA Domain Model
  - EMF Validation Framework is used to implement the validation rules
  - GMF project is used to generate the SCA Composite Designer
  - XML editor from WTP is extended

- With other communities
  - OW2 FraSCAti
    - We share the same meta model and
    - The same introspection mechanism
  - Apache Tuscany
    - Collaboration with the Tuscany community to update SCA Tools according to the last version of Tuscany
  - Fabric3
    - Collaboration with the Fabric3 community to provide SCA Tools extensions for Fabric3

# Bugzilla

| Status | Severity | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | blocker | critical | major | normal | minor | trivial | enhancement | Total |
| NEW | . | . | . | 10 | 1 | . | 6 | 17 |
| ASSIGNED | . | . | 1 | 2 | . | . | 2 | 5 |
| REOPENED | . | . | . | 1 | . | . | . | 1 |
| RESOLVED | . | . | . | 8 | . | . | 10 | 18 |
| CLOSED | 1 | 1 | 6 | 37 | 8 | 1 | 31 | 85 |
| Total | 1 | 1 | 7 | 58 | 9 | 1 | 49 | 126 |

- 103 bugs resolved or closed
- 8 bugs will be resolved after Indigo (enhancements or bug tagged as « help wanted »)

eclipse

# IP

- The developer understands and adheres to the Eclipse Development Process, committer responsibilities and due diligence rules, as well as the Eclipse IP Policy

- All contributions are marked with the keyword "contributed" in bugzilla

- IP Log
  - http://www.eclipse.org/projects/ip_log.php?projectid=soa.sca

eclipse
10

# Project Plan

- June 2011
  - Indigo Release : SCA Tools 2.2.0
- 2012
  - Update of the utilities for the OASIS specification (builder, wizards)
  - Ease the definition of WS references
  - SOA Policy editor support
  - Use Eclipse EEF for the property view

# Team

- Stéphane Drapeau – Obeo (lead)
- Vincent Zurczak – EBM WebSourcing
- Oisin Hurley – Vigill
- Etienne Juliot - Obeo
- David Porter – Progress Software
- Lionel Seinturier – Univ. Lille
- Damien Fournier – INRIA

# More information

- SCA website
  - http://www.eclipse.org/soa/sca/
- SCA wiki
  - http://wiki.eclipse.org/SCA
- SCA newsgroup: starting point for questions
  - http://www.eclipse.org/forums/eclipse.stp.sca-tools
- SCA Bugzilla
  - Review and create Bugzilla entries
- SCA SVN repository
  - http://dev.eclipse.org/svnroot/soa/org.eclipse.soa.sca-tools/org.eclipse.soa.sca/

# Communication Channel for Feedback

- Please provide feedback on the SCA Tools forum:
  - http://www.eclipse.org/forums/eclipse.stp.sca-tools