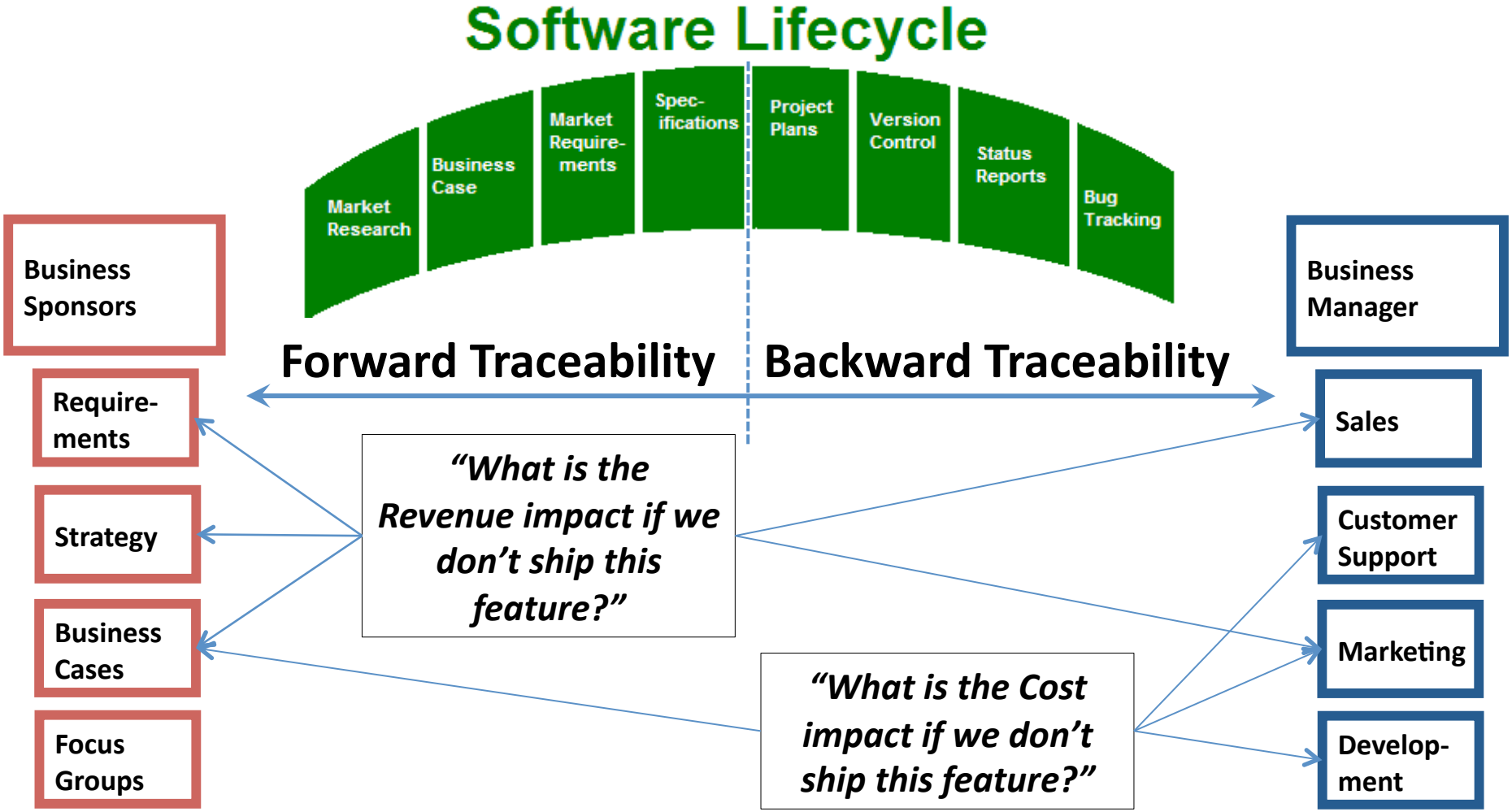
The Open Source Leader
in Information Collaboration

Model-driven Framework for Process Deployment, eXtreme Traceability

Agenda

- Traceability Challenge
- eXtreme Traceability Defined
- MetaModel and Ontology Architecture
- Tool Chain Automation Architecture
- Questions

The Traceability Challenge



"All I can see is the DNA on the Bark of the Tree. Where is the Forest?"

eXtreme Traceability

Traditional Traceability	eXtreme Traceability
Focus within the Organizational Silo	End-to-End focus from concept idea to deployment
Software Development Lifecycle Focus	Knowledge Development Lifecycle Focus
Software Re-Use	Knowledge Re-Use
“Things”	“Relationships”

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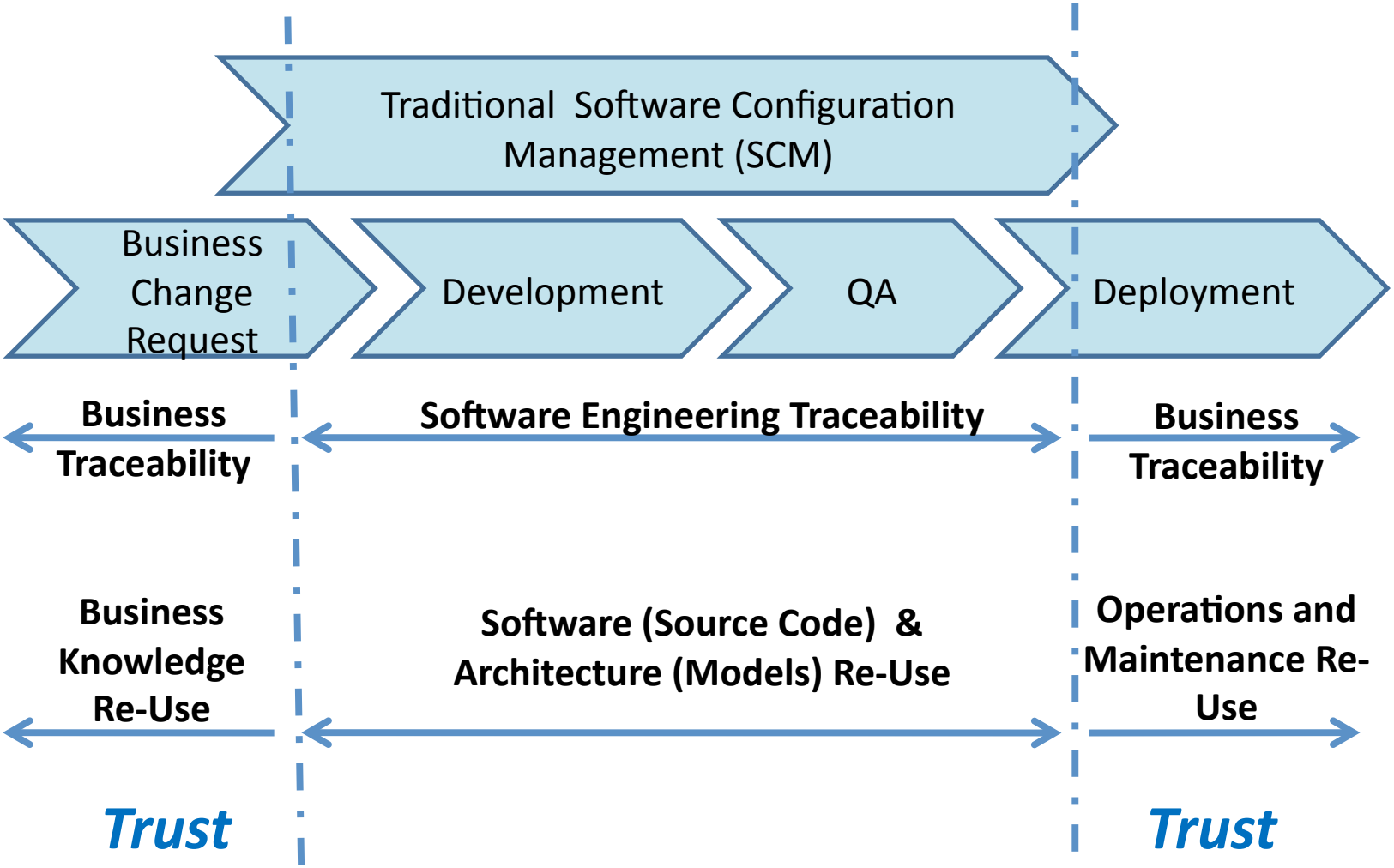


Why a Model Driven Approach?

- Process Automation will not scale unless you have Re-Use of Process Fragments to
- Models enable both Standardization and Flexibility through Extension Mechanisms
- Agility requires “programmable granularity” of just the right level of process complexity for the organization’s process maturity.
- Process Tailoring

Information Integration Across the Enterprise

Software Engineering Teams

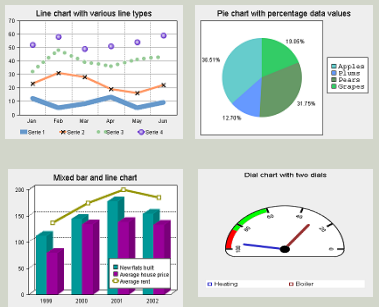
Project Sponsor

Managers

Tools

- Project Artifacts
- Version Control
- Product Artifacts
- Project Planner
- Forums
- Defect Tracking
- Other Applications & Widgets
- Instant Messaging
- Build Tools

Dashboard and Applications

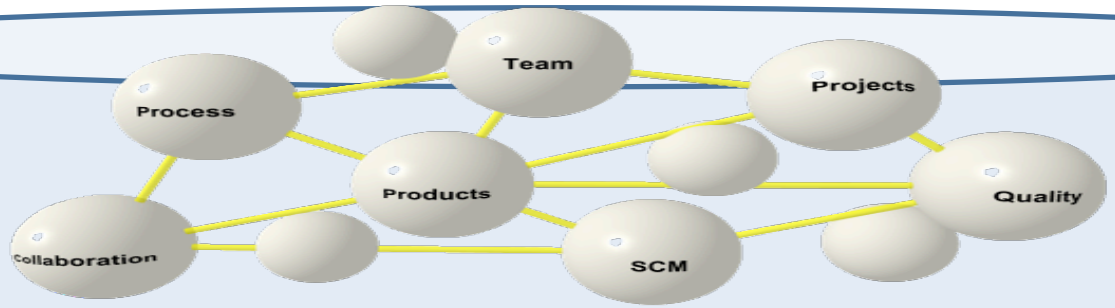


- Asset Management
- Team Management
- Product Management
- Auditing & Compliance
- Project Management
- Quality Management
- Change Management
- Process Management

Capture & Integrate

Deliver Unified View

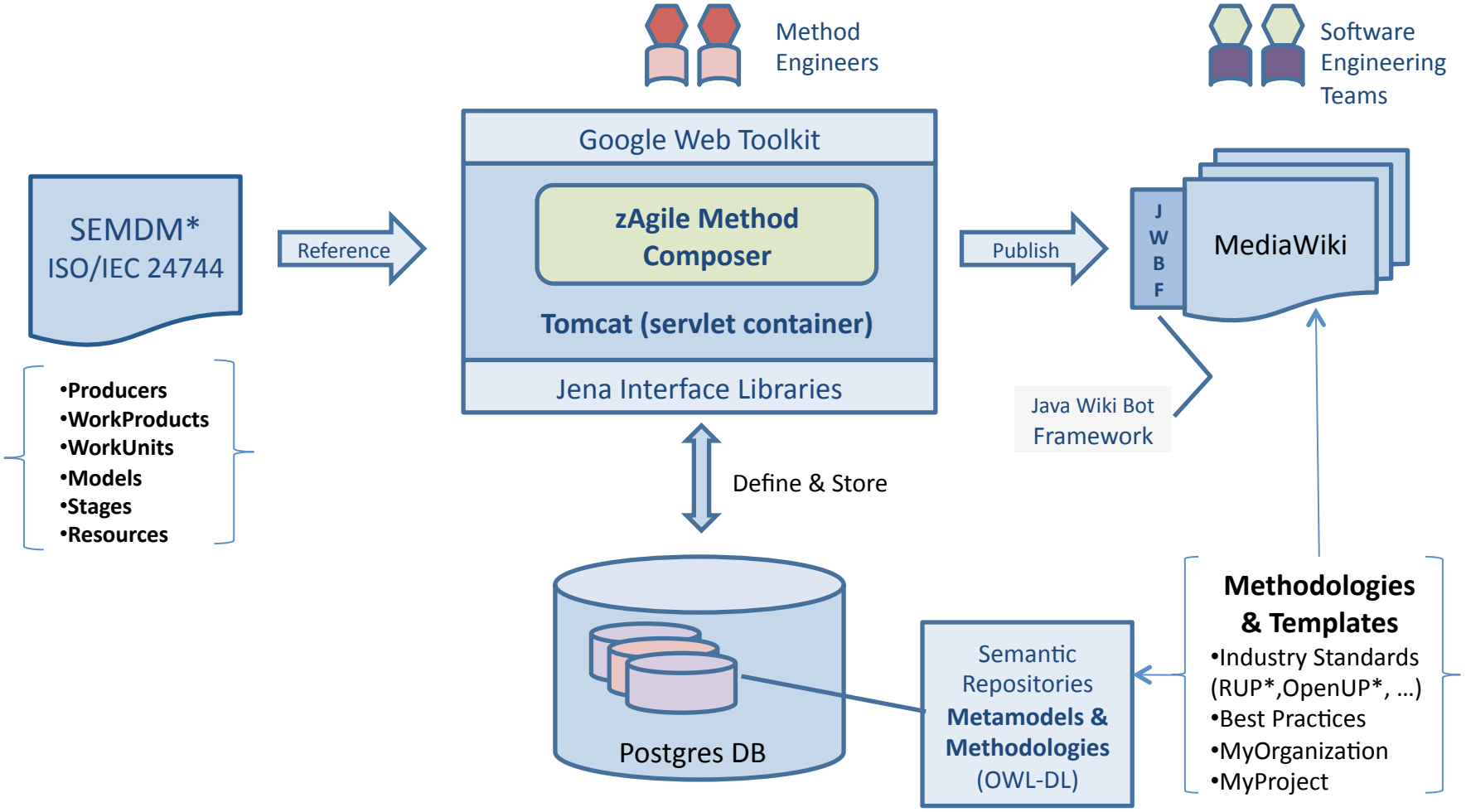
zAgile Semantic Repository



zAgile Method Composer

1. Establish Guidelines for Software Engineering Teams

Define and Publish Reusable Methodologies Based on an Industry Standard Metamodel



•**SEMDM** – Software Engineering Metamodel for Development Methodologies, copyright ISO/IEC 2007
•**RUP** -- Rational Unified Process, copyright IBM Corp.
•**OpenUP** -- Open Unified Process, copyright IBM Corp.

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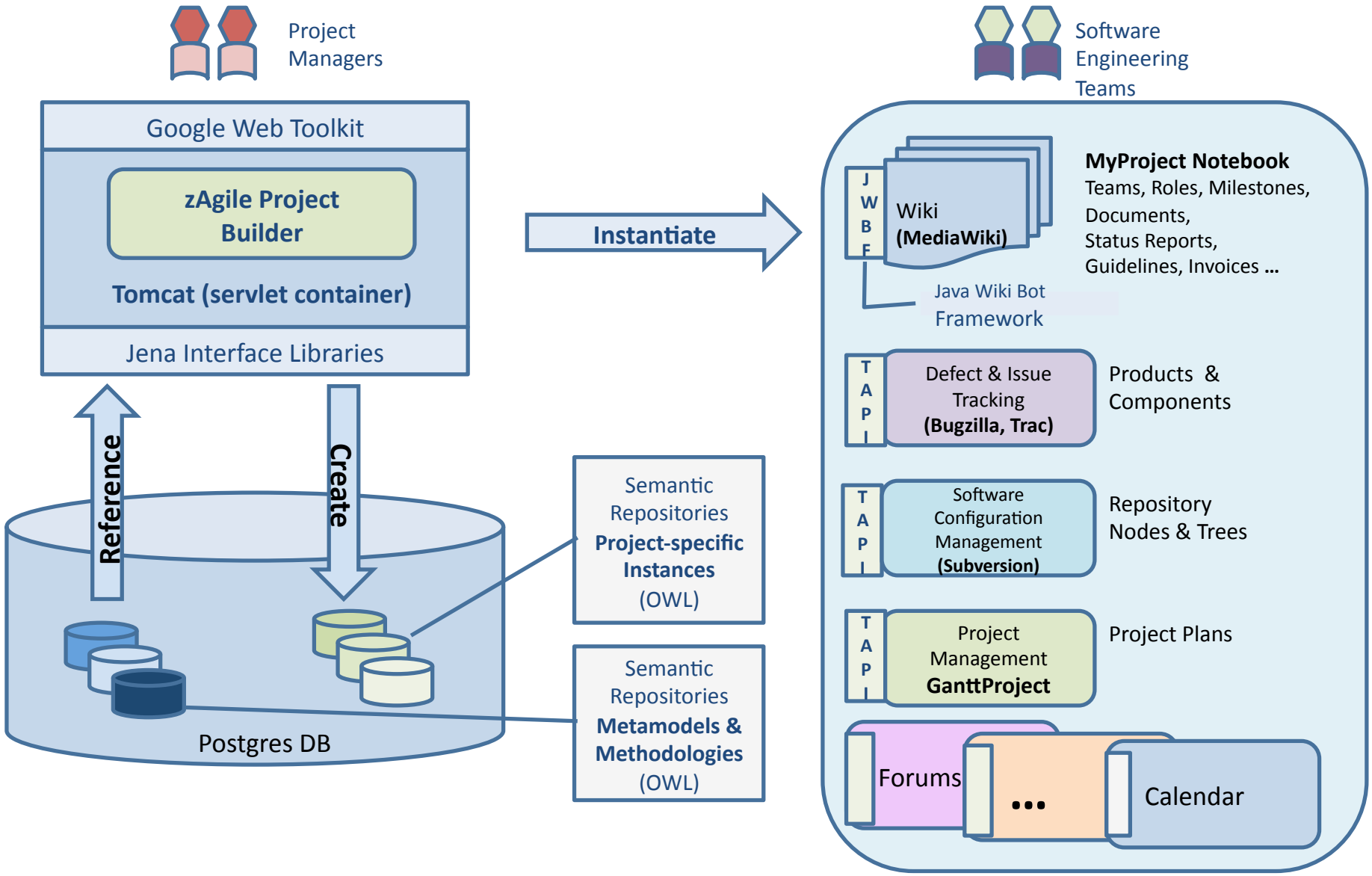
2. Implement Methodology For Projects & Configure Tools

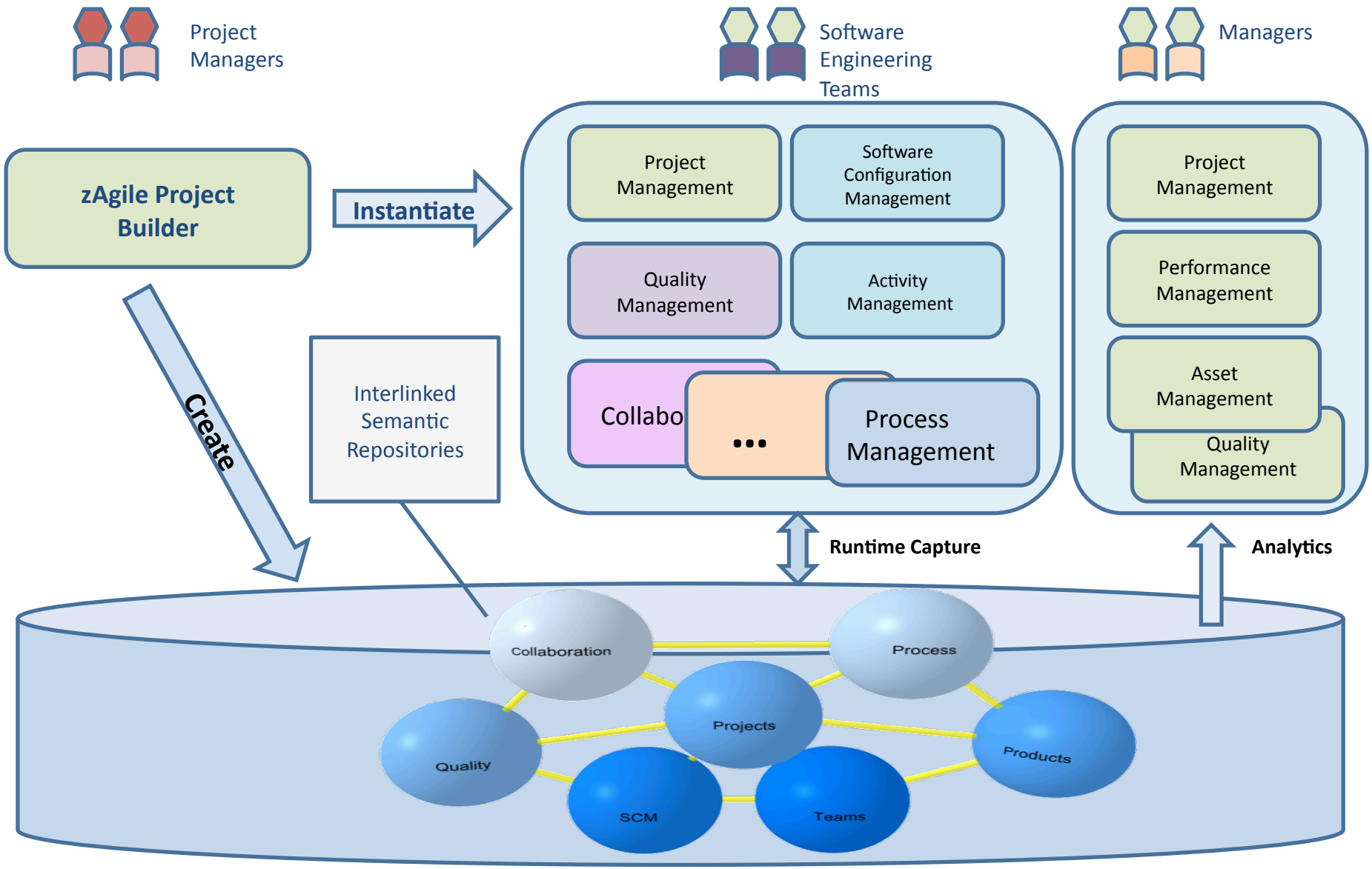
Implement Methodology Elements for specific Projects, Configure Project Environment and Tools



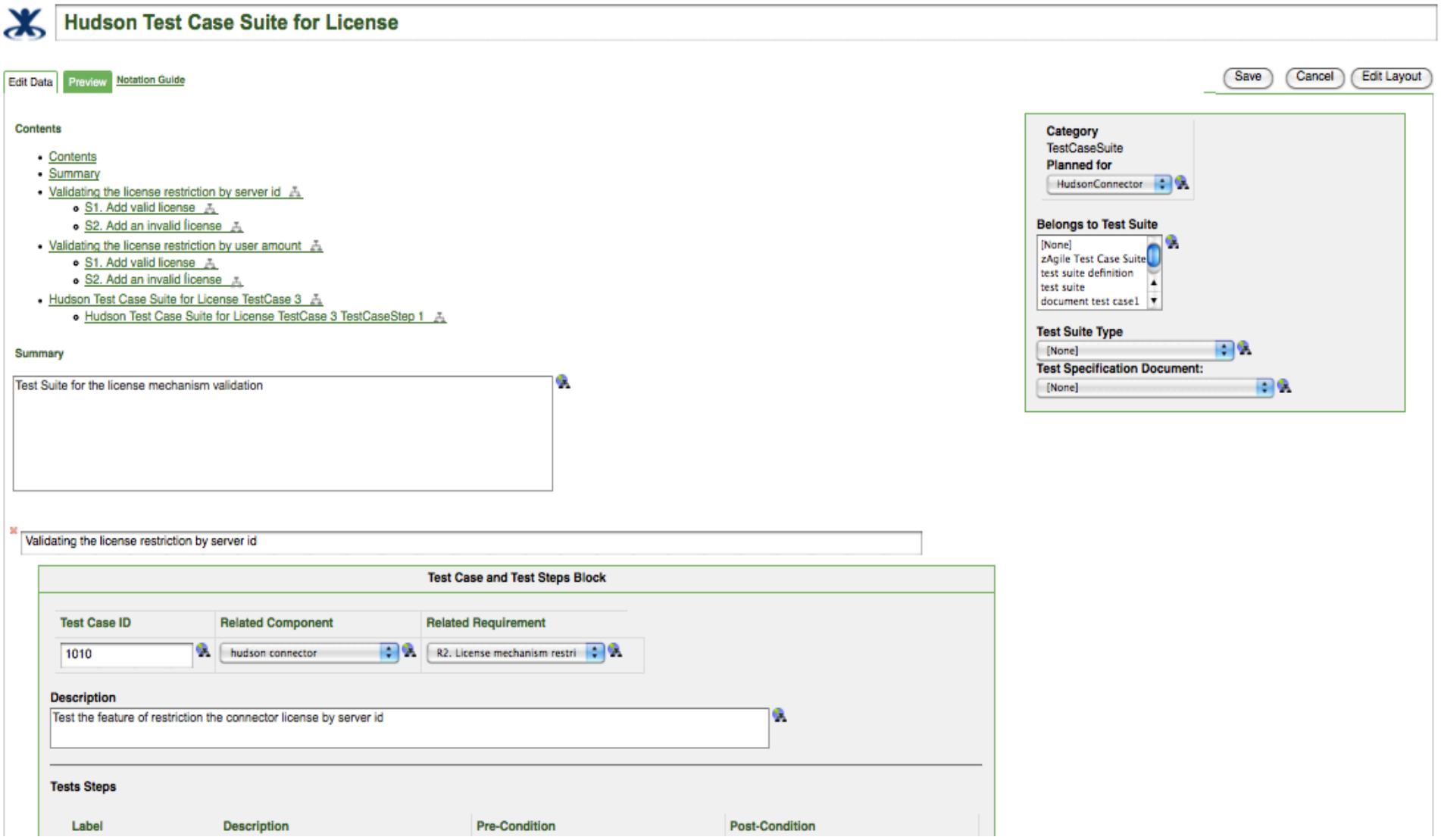
zAgile Process Manager

3. Capture Runtime Data and Manage Project Process

Capture runtime activities in interlinked semantic repository, generate analytics , manage process



Ontology-driven Forms



The Information Dashboard

View Properties - release2.0

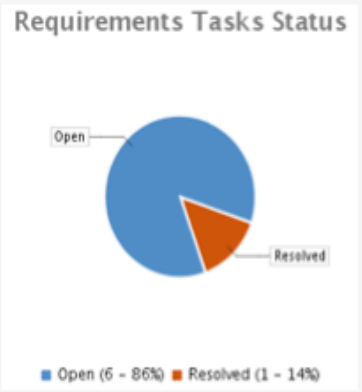
Labels: (None)
Go to source

Description	Project	Release Date
release2.0	• HudsonConnector	Aug 18, 2010

Requirements and Related Task for this Release

Requirement	ReqTask	ReqStatus	Task	TaskStatus	DueDate
New GTech Requirements Document Requirement 1			PT-40	Open	Thu Sep 30 00:00:00 CDT 2010
R2. Capture build information			PT-22	Open	Mon Aug 23 00:00:00 CDT 2010
R1. Develop an Administrative UI			PT-4	Open	Tue Aug 10 00:00:00 CDT 2010
R1. Develop an Administrative UI			PT-3	Open	Mon Aug 09 00:00:00 CDT 2010
RD2. Commits Build Detail Requirement			PT-9	Resolved	Thu Aug 12 00:00:00 CDT 2010
R2. License mechanism restriction			PT-5	Open	Wed Aug 11 00:00:00 CDT 2010
R1. Develop an Administrative UI			PT-48	Open	Mon Jan 31 00:00:00 CST 2011

Requirements Tasks Status

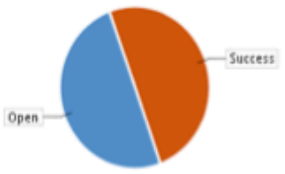


Requirements Tasks Assignee

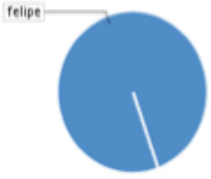
Requirements and Test Case Step Execution for this Release

Requirement	TestCase	TestExec	TestStatus	Step	StepExec	StepStatus	DueDate
R2. License mechanism restriction	Validating the license restriction by server id	PT-6	Success	S1. Add valid license	PT-11	Success	Wed Aug 11 00:00:00 CDT 2010
R2. License mechanism restriction	Validating the license restriction by server id	PT-6	Success	S2. Add an invalid license	PT-12	Success	Wed Aug 11 00:00:00 CDT 2010
R2. License mechanism restriction	Validating the license restriction by user amount	PT-8	Open	S2. Add an invalid license	PT-14	Open	Wed Aug 11 00:00:00 CDT 2010
R2. License mechanism restriction	Validating the license restriction by server id	PT-16	Open	S1. Add valid license	PT-17	Open	Wed Aug 11 00:00:00 CDT 2010

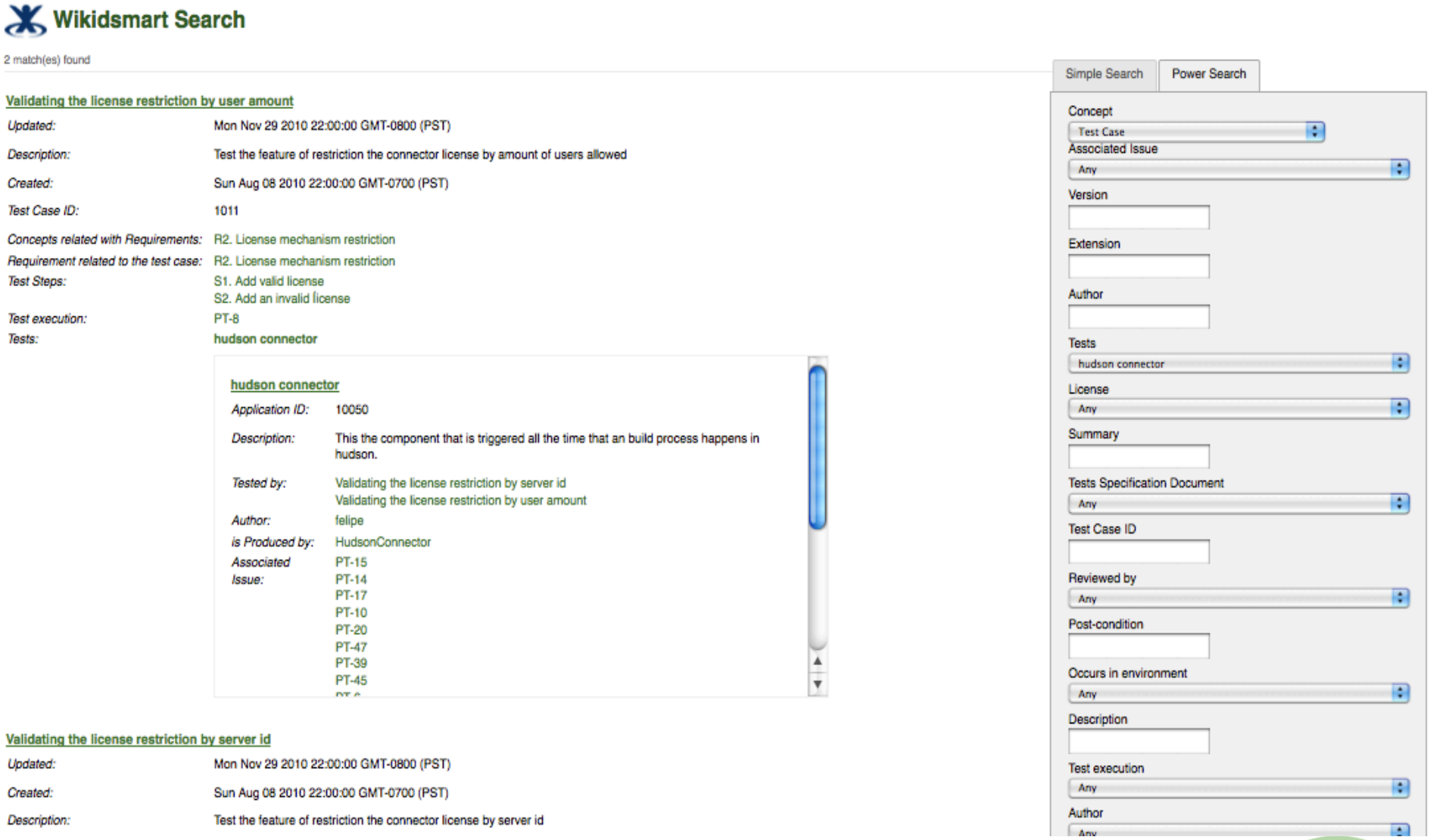
Tests Steps Status



Tests Steps Assignee



Semantic (Concept-based) Search



Summary

Problem

- Project Mgmt is Costly
  - Siloed Tools
  - Distributed Environment
  - Lack of Formal Processes
  - Lack of Traceability

Solution

- Integration of People, Tools and Processes
  - Application Integration Platform & Connectors
  - Methodology and Process Modeling
  - Integrated BI
  - Model-driven Architecture

Technology

- Semantic Technology-based Architecture
  - Domain and application-specific Ontologies
  - Jena-based Framework
  - RESTFul Interfaces
  - SPARQL support

Business Benefit

- Reduced Costs and Increased Visibility
  - Effective Collaboration
  - Efficient Project Tracking
  - Rapid Knowledge Access

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Thank you

- Test-drive hosted zAgile Teamwork at zTeamwork.zAgile.org/confluence
- Download open source Wikidsmart (semantic extension for Confluence Wiki) from Sourceforge for your own projects
- Correspond with zAgile at info@zagile.com, we can help