PROMCODE

PROject Management for COntracted DElivery

An Introduction to PROMCODE (PROject Management of COntracted DElivery for Software Supply Chain)

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Scenario

- Challenges
- Approach
- Key Contributions
- Technology
- Use Cases
- Collaboration with OSLC/OASIS
- **Call for Contributions**

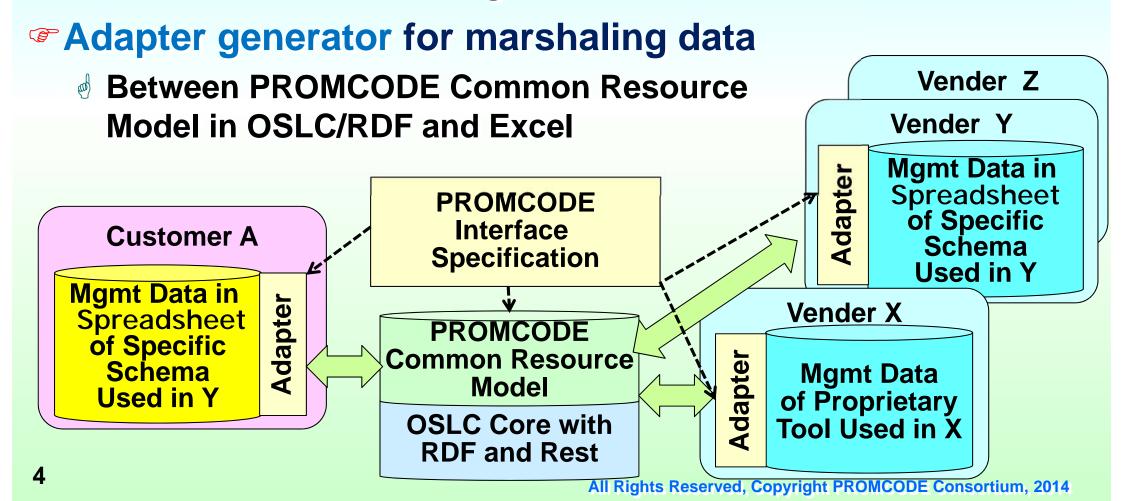
Challenges

- Management of a contracted delivery across organizational boundaries is increasing attention
 - Global software development including outsourcing and offshore development
- Conventional project management of contracted delivery is very ad hoc and causes a big risk
 - Error prone and tedious human task for data conversion
 - Lack of visibility and traceability especially in the largescale software development



Key Contributions

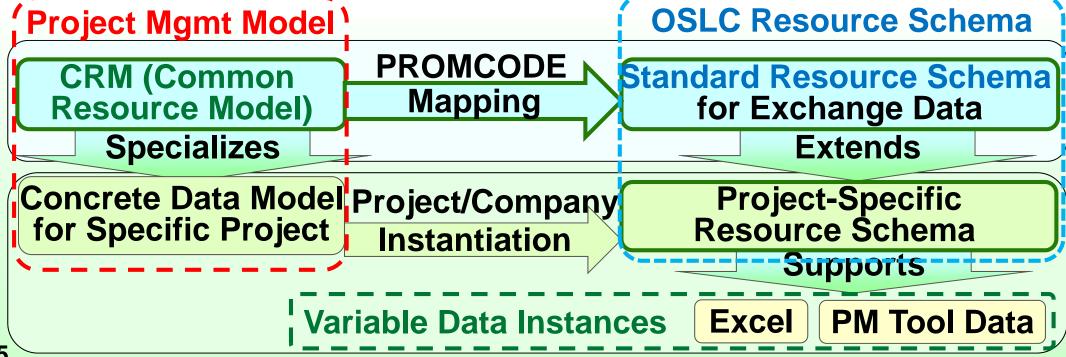
- Standard interface for exchanging project mgmt data across different organizations/ platforms
 - Each organization can keep the conventional management method and tool unchanged



Technology PROMCODE Modeling Framework

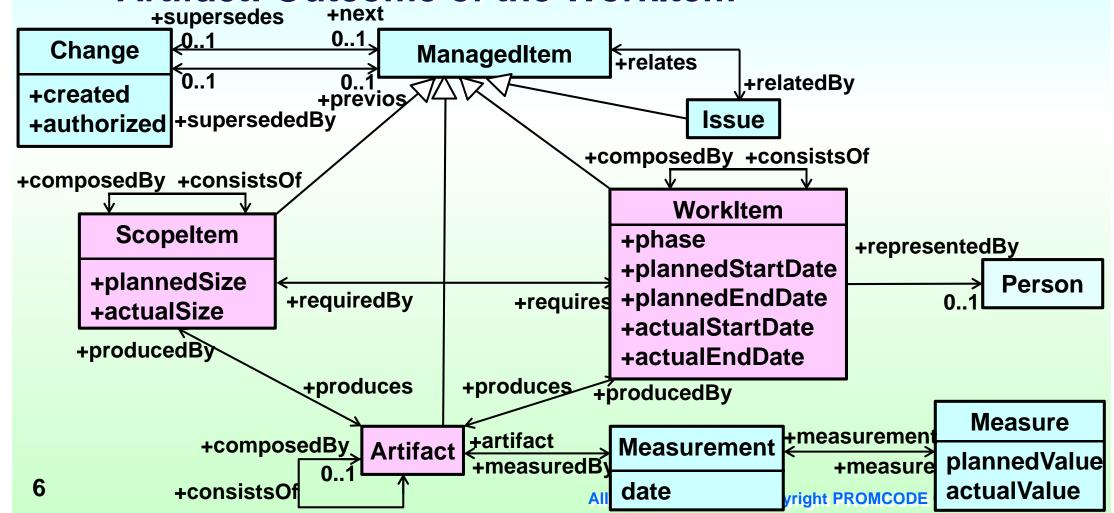
- Common schema for data exchange through a SSC
 - CRM(Common Resource Model): Domain model of project management
 - Standard Resource Schema: Mapping CRM to OSLC resources
- Project-Specific Schema for data exchange in a project

Supporting data exchange across tools



Technology CRM (Common Resource Model)

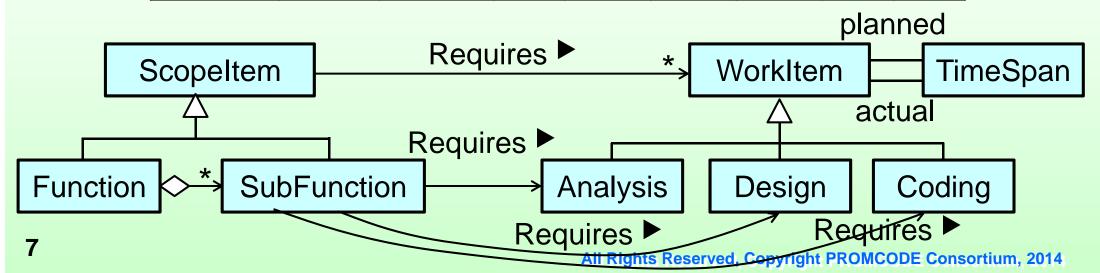
- Managing contracted delivery by sharing TRIPLE
- Scopeltem: Unit of contract and its scope
- WorkItem: Unit of Wok and its structure
- Artifact: Outcome of the WorkItem



Technology CRM (Common Resource Model): An Example

A contracted is decomposed into two functions

Eupotion	Sub-Function		Analysis		Design		Coding	
Function			Start	End	Start	Start	End	Start
	A1	Planned	6/4	6/11	6/12	6/19	6/20	6/27
^		Actual	6/4	6/10	6/11	6/19	6/20	6/26
A	A2	Planned	6/4	6/11	6/12	6/19	6/20	6/25
		Actual	6/4	6/12	6/13	6/20	6/21	6/26
	B1	Planned	6/4	6/11	6/12	6/19	6/20	6/27
D		Actual	6/4	6/12	6/13	6/20	6/21	6/28
В	B2	Planned	6/4	6/11	6/12	6/19	6/20	6/26
		Actual	6/5	6/11	6/12	6/19	6/20	6/25



Technology Mapping PROMCODE CRM to OSLC Resource Schema

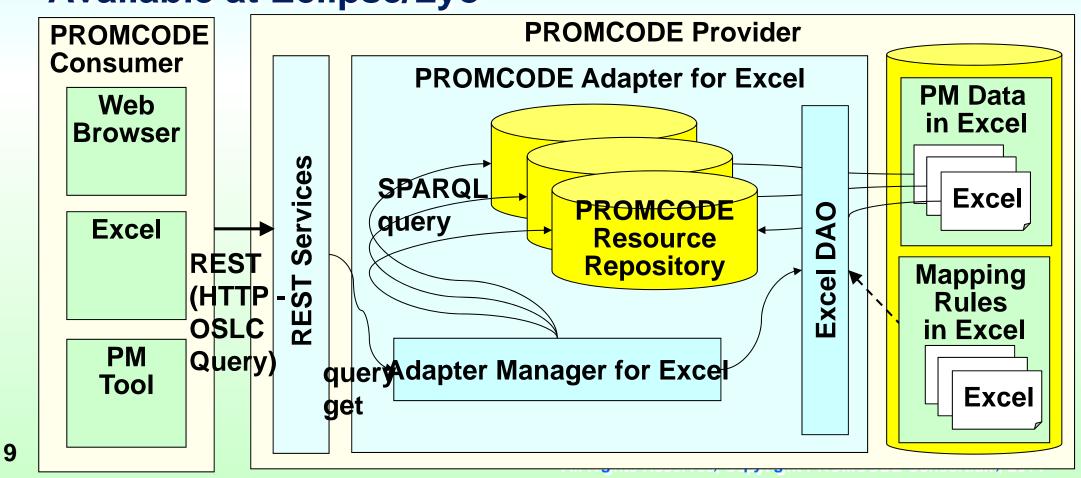
Mapping PROMCODE CRM to Standard Resource Schema in OSLC RDF

ID	Drooppe/Activity	Person In Charge	PI	an	Actual							
ID			Process/Activity	Start	End	Start	End					
1		Requirements Eng.	Suzuki	2012/05/21	2012/06/21	2012/05/21	2012/06/15					
1	1.1	Req. Elicitàtion		2012/05/21	2012/05/30	2012/05/21	2012/05/29					
1	1.1.1	Stakeholder Analysis		, ,								
1	1.1.2						1					
	promcode_pm:requires promcode_pm:plan											

promcode_pm:requires promcode_pm:plan
promcode_pm:UseCase promcode_pm:Worktem promcode_pm:TimeSpan
promcode_pm:composedBy promcode_pm:TimeSpan
promcode_pm:Worktem promcode_pm:TimeSpan
promcode_pm:Worktem promcode_pm:TimeSpan
promcode_pm:actual
promcode_pm:TimeSpan
promcode_pm:actual
promcode_pm:TimeSpan

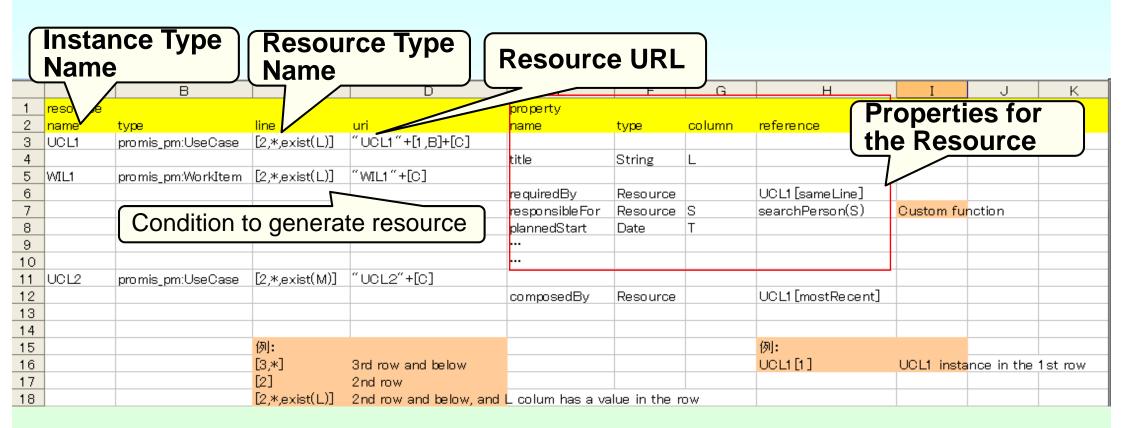
Technology Automatic Data Conversion by Support Tool for Excel

- Generation of adapters between PROMCODE Standard Resource Schema and Excel
- Define mapping rules in Excel
- Available at Eclipse/Lyo



Technology Automatic Data Conversion by Support Tool for Excel

Customization of adapter for Excel by specifying mapping file in Excel



Use Cases

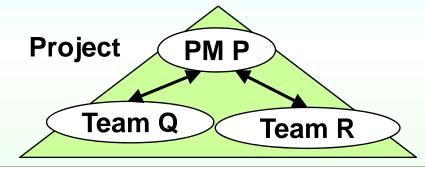
Customer (Vendor)



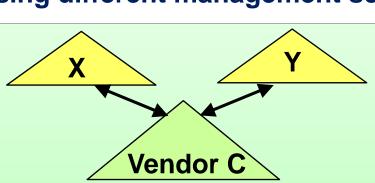
- Four scenarios of contracted delivery on a SSC
- We conducted a set of experiments

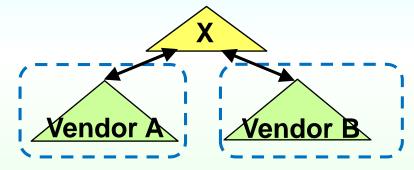
Scenario 1: Collaboration between PM and multiple teams Using different management schema within a project

Scenario 2: Collaboration between a customer and multiple vendors using different management schema

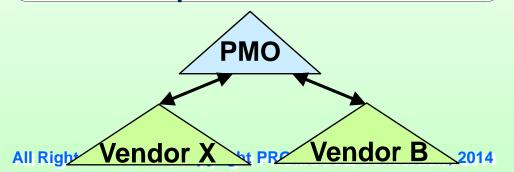


Scenario 3: Collaboration between a vendor and multiple customers (X, Y) using different management schema





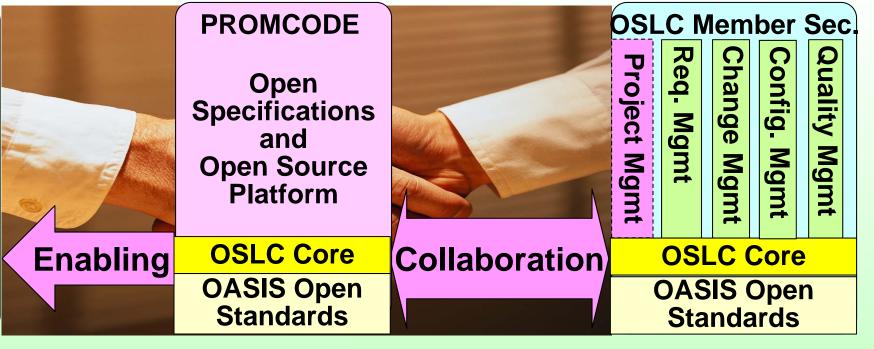
Scenario 4: Collaboration between a PMO and multiple projects using different management schema within a corporation



Collaboration with OSLC/OASIS Call for Contribution

- PROMCODE specification is intended to standardize at OASIS OSLC Lifecycle Integration for Project Management of Contracted Delivery for Software Supply Chain (OSLC-PROMCODE) TC
 - Registration will due on 18 March, 2014

Collaborative
Project
Management
for Contracted
Delivery
across SCC
with
Customers
and
vendors



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Thank You!

For Further Information
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http://www.promcode.org/en/