



IBM®

Extending Rational Team Concert

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Rational. software

SDP023

Imagine...

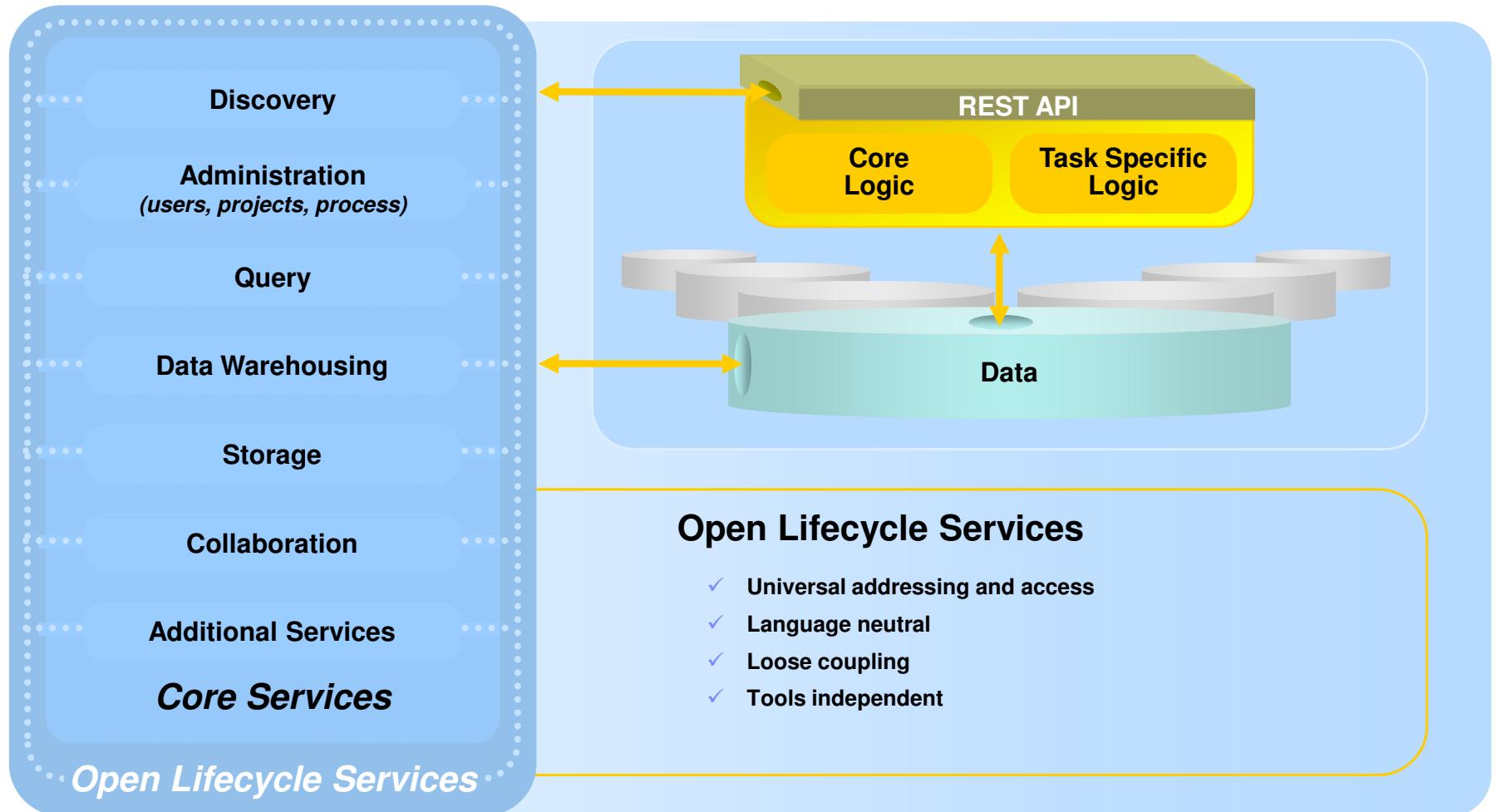
- A platform that could be extended from many different languages
- A platform that was massively scalable
- A platform with world wide information visibility
- A platform that promoted collaboration on unprecedented scale

Incremental progress...

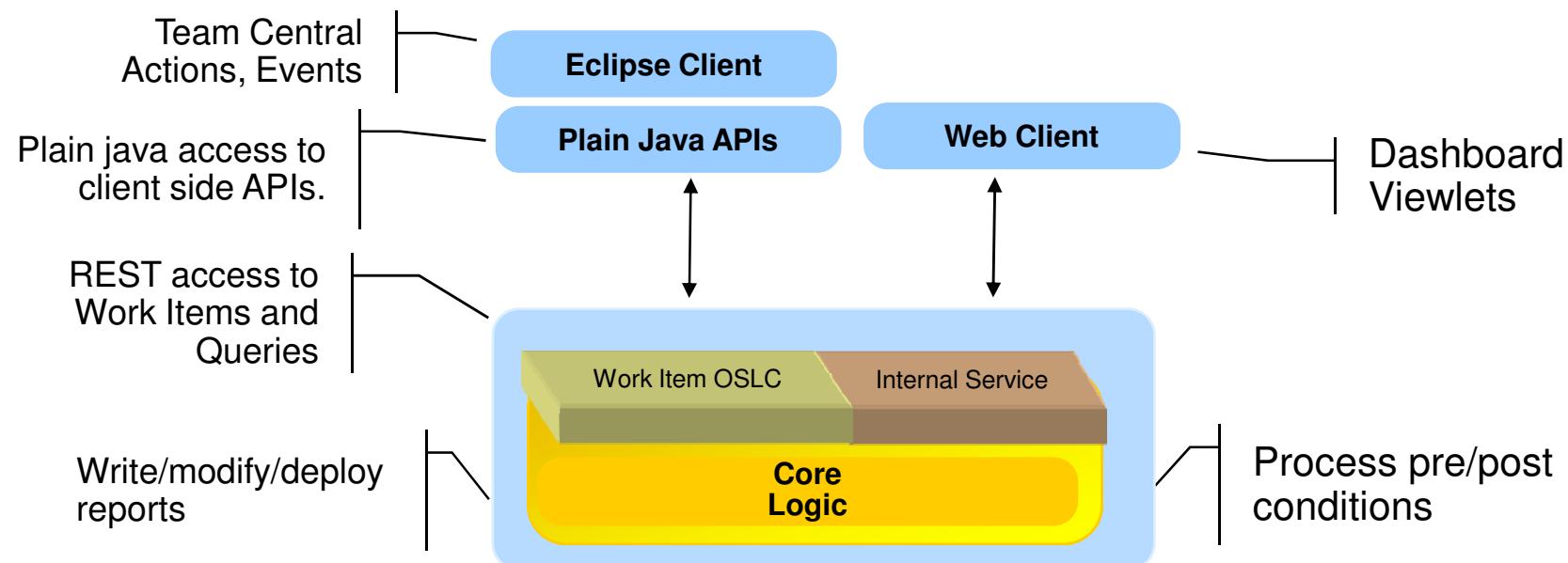
- Big push on the products, platform is evolving.
- Active work on open services, CM shipped as part of RTC 2.0
 - ▶ Completed change management specification
(<http://open-services.net/bin/view/Main/CmRestApiV1>)
- Mostly client side Java APIs today.
- Working towards more REST based language independent APIs on client and server.
- Real usage today in the C/ALM integrations

RTC 2.0 includes REST/OSLC access to Jazz work items and Clear Case Records and client side Java APIs for all other components.

The future... in progress



Where can you extend Team Concert?



Don't take notes

- All this material is being made available at

<https://jazz.net/wiki/bin/view/Main/RtcSdk20>

- Videos and examples coming for GA at the end of June.

API contracts

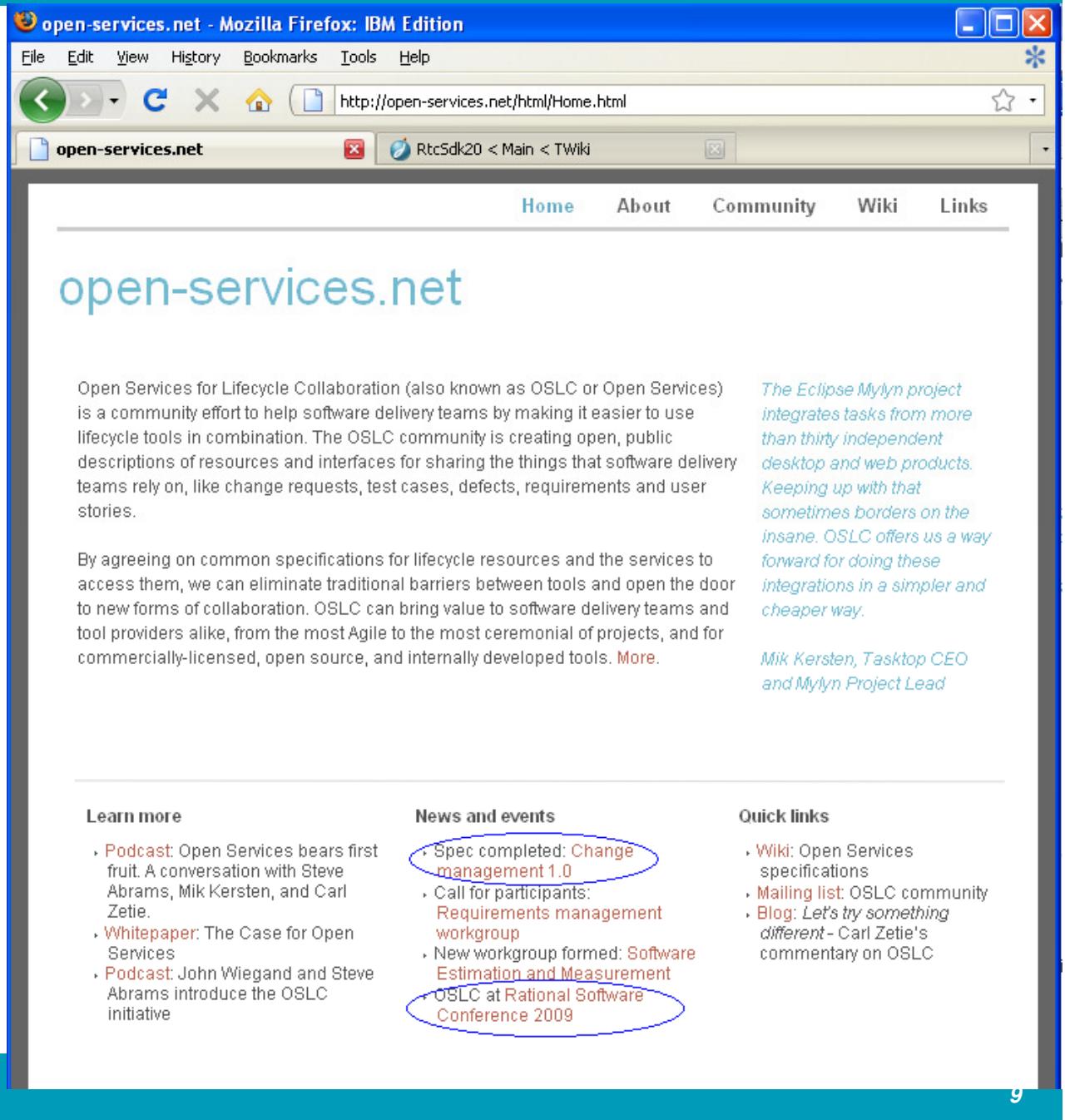
- The Client Java APIs are stable between 'dot' releases (eg, 1.X, 2.X)
- The REST APIs are stable for ever

Migrating from 1.X to 2.0

- The Java APIs have some changes, but generally only small changes.
- Server programming model is the same.
- Your 1.X extensions are not binary compatible.

Work Item APIs

OSLC Change Management specification implementation



open-services.net

Open Services for Lifecycle Collaboration (also known as OSLC or Open Services) is a community effort to help software delivery teams by making it easier to use lifecycle tools in combination. The OSLC community is creating open, public descriptions of resources and interfaces for sharing the things that software delivery teams rely on, like change requests, test cases, defects, requirements and user stories.

By agreeing on common specifications for lifecycle resources and the services to access them, we can eliminate traditional barriers between tools and open the door to new forms of collaboration. OSLC can bring value to software delivery teams and tool providers alike, from the most Agile to the most ceremonial of projects, and for commercially-licensed, open source, and internally developed tools. [More](#).

The Eclipse Mylyn project integrates tasks from more than thirty independent desktop and web products. Keeping up with that sometimes borders on the insane. OSLC offers us a way forward for doing these integrations in a simpler and cheaper way.

Mik Kersten, Tasktop CEO and Mylyn Project Lead

Learn more

- › [Podcast](#): Open Services bears first fruit. A conversation with Steve Abrams, Mik Kersten, and Carl Zetie.
- › [Whitepaper](#): The Case for Open Services
- › [Podcast](#): John Wiegand and Steve Abrams introduce the OSLC initiative

News and events

- › [Spec completed: Change management 1.0](#)
- › [Call for participants: Requirements management workgroup](#)
- › [New workgroup formed: Software Estimation and Measurement](#)
- › [OSLC at Rational Software Conference 2009](#)

Quick links

- › [Wiki: Open Services specifications](#)
- › [Mailing list: OSLC community](#)
- › [Blog: Let's try something different - Carl Zetie's commentary on OSLC](#)

OSLC in a nutshell

GET <https://localhost:9443/jazz/rootservices>

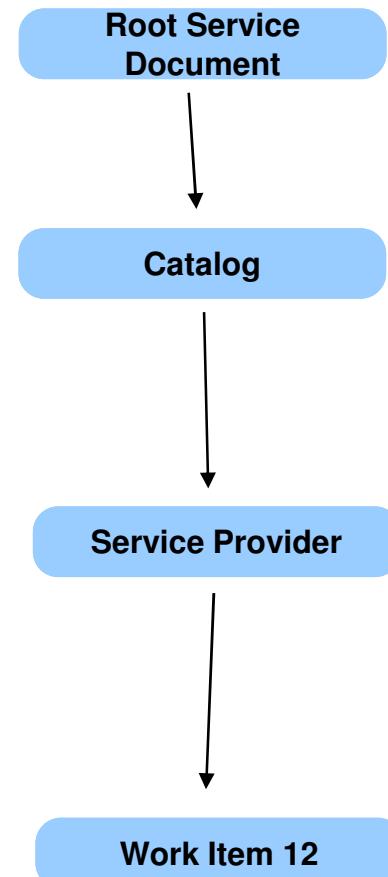
GET <https://localhost:9443/jazz/oslc/workitems/catalog>

GET https://localhost:9443/jazz/oslc/contexts/_T6OcMEOpEd6VKKtA31M9Jg/workitems/services.xml

...

[workitems.xml?](#)

`oslc_cm.query=dc:identifier="12"`



Demo

Step through the service, catalog, service provider, and find a work item.



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Quick Java Development Environment Setup

- Use the RTC Eclipse Client
- Download the source
- Setup the target platform
- Import the snippet examples
 - ▶ 5 snippets which demonstrate a lot of the basic java APIs.
 - ▶ Creating projects, teams, work items, streams, change sets
- Run the server
- Debug and step through the code

Monkey see, monkey do!

- Setup to browse the source
- F3 and CTRL+SHIFT+G are your friends!

Pre/post condition extensibility

- Running the server
 - ▶ Debug mode, osgi console, update site structure
- Develop a server side plug-in, deploy
 - ▶ Jetty versus runtime options for running the server
- Ensure your plug-ins are active
- Connect in remote java debug
- Put a break point and enjoy
- Create code changes, stop the server, delete the WORK directory

Demo

Pre and post conditions

- How to find the extension points
- How to find examples
- A simple fail pre-condition for work item save

Resources

- <https://jazz.net/wiki/bin/view/Main/RtcSdk20>
- <http://jazz.net/forums/rss.php?f=2>



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