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Agile Development with RTC and 3rd party products

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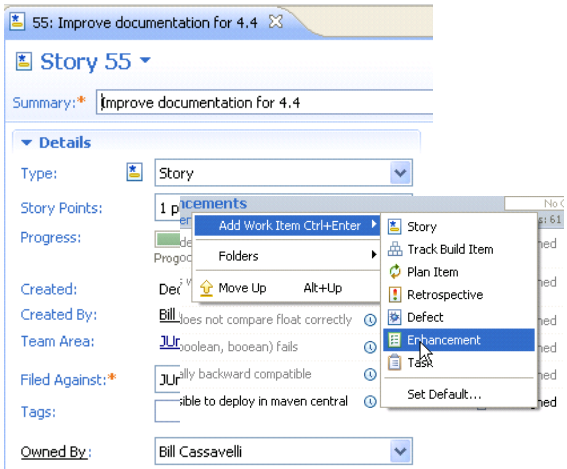
Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

- *Brief RTC Overview*
- *Agile Planning with RTC*
- *Demo of RTC Planning*
- *Integration Challenges*
- *Rational and OSLC Integrations*
- *OSLC overview & building integrations*

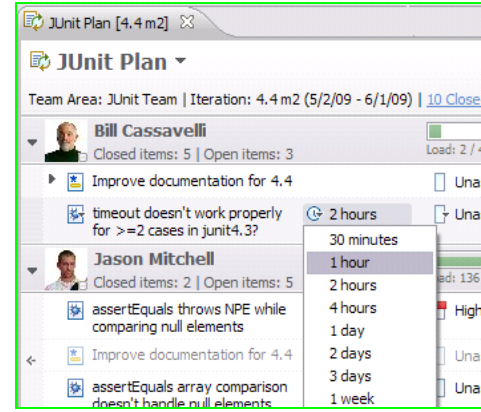
RTC Overview

Rational Team Concert – A single tool, many capabilities

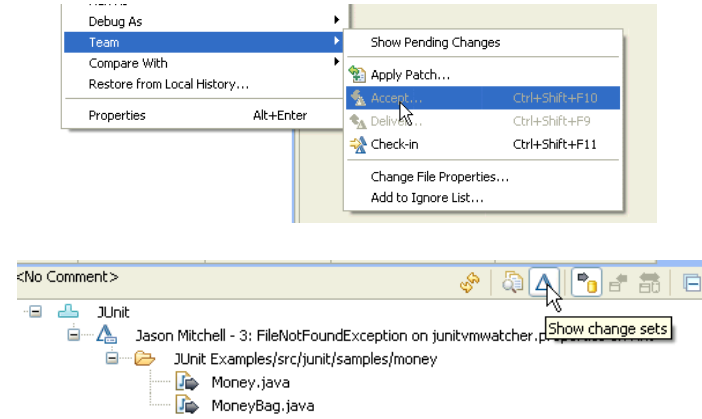
Work Items



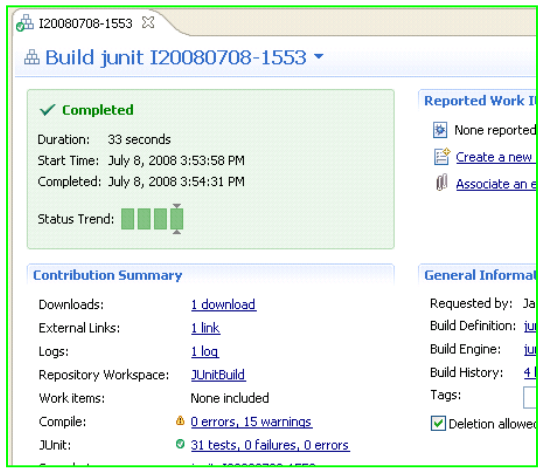
Planning



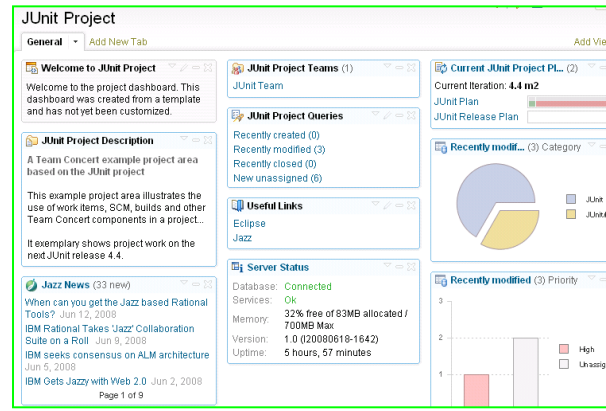
Source Control



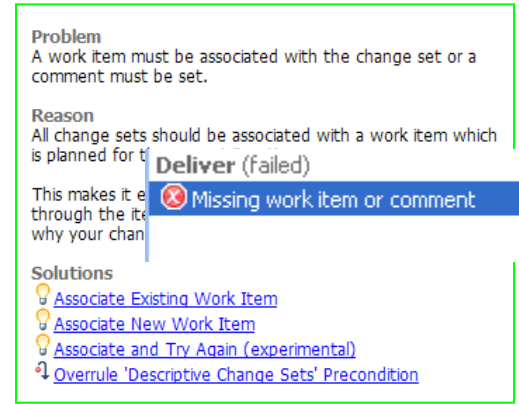
Builds – Continuous Integration



Dashboards & Reporting

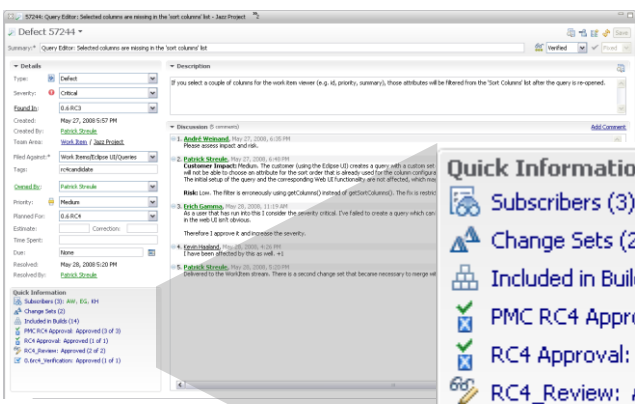
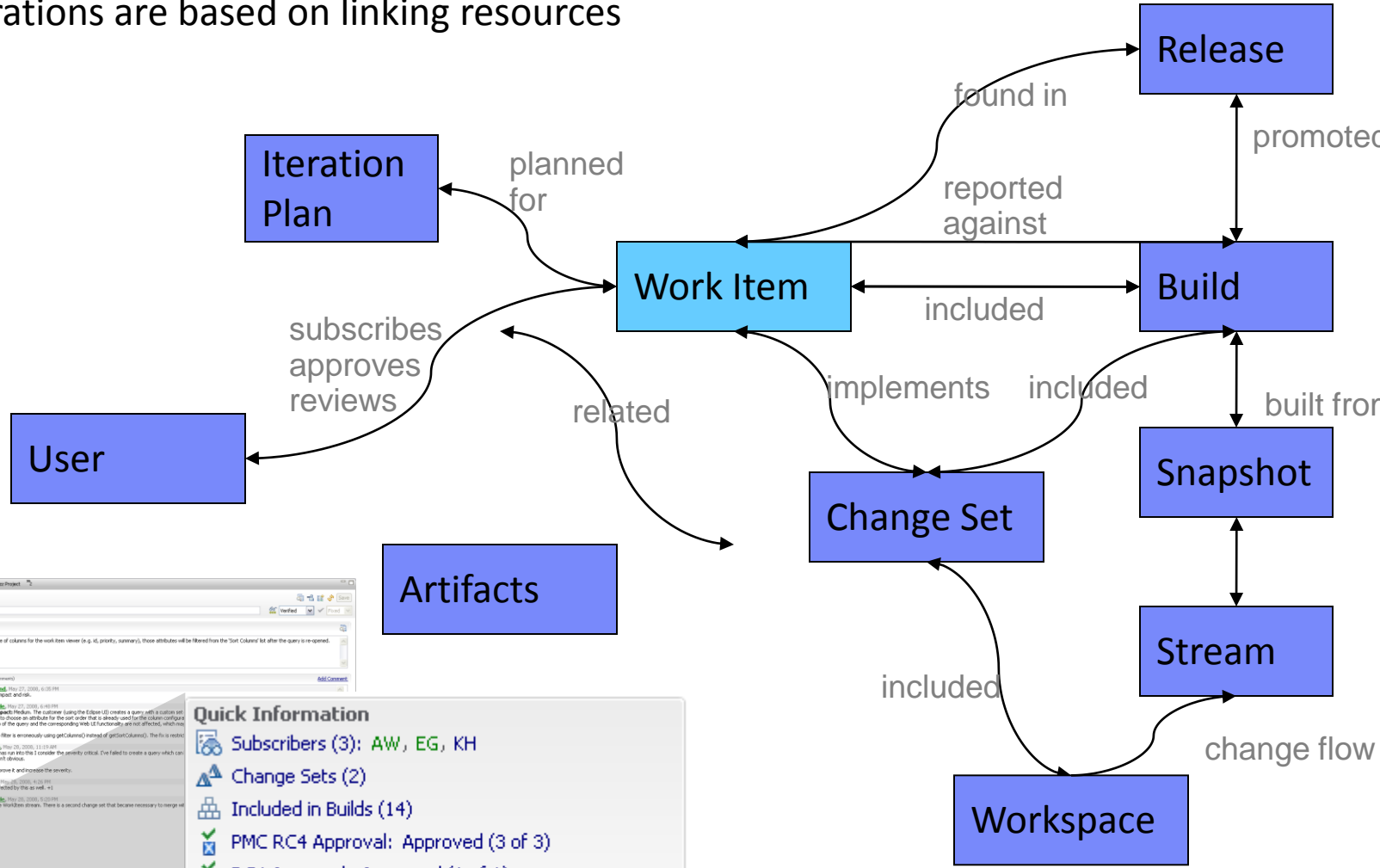


Method Enforcement and Automation



What's different about Rational Team Concert?

- In Team Concert EVERYTHING is a resource (link)
- OSLC integrations are based on linking resources



Quick Information

- Subscribers (3): AW, EG, KH
- Change Sets (2)
- Included in Builds (14)
- PMC RC4 Approval: Approved (3 of 3)
- RC4 Approval: Approved (1 of 1)
- RC4_Review: Approved (2 of 2)
- 0.6rc4_Verification: Approved (1 of 1)

Agile Planning with RTC

Discussion & Demo

RTC Plan Definition

- Unified view of Information
 - **What** - Work Items
 - **Who** – Project Area / Team Area
 - **When** – Iteration
- Plans are owned by a team or project and are associated with an iteration
- Plan content is derived from All work items which have a Filed Against value set to a category owned by the Plan’s team or project and are planned for plan’s iteration.
- Plans have a plan type, which define the layer in the planning “onion”.

Sprint Backlog

6 items: 3 open, 3 closed | Ends in: 24 days

▼ Plan Details Edit

Owner: JUnit Project

Iteration: 4.4 s3 [5/21/12 - 6/15/12]

Plan Type: Sprint Backlog

Include All Items

Burndown Progress Load

Progress: 3/8 pts Estimated: 100%

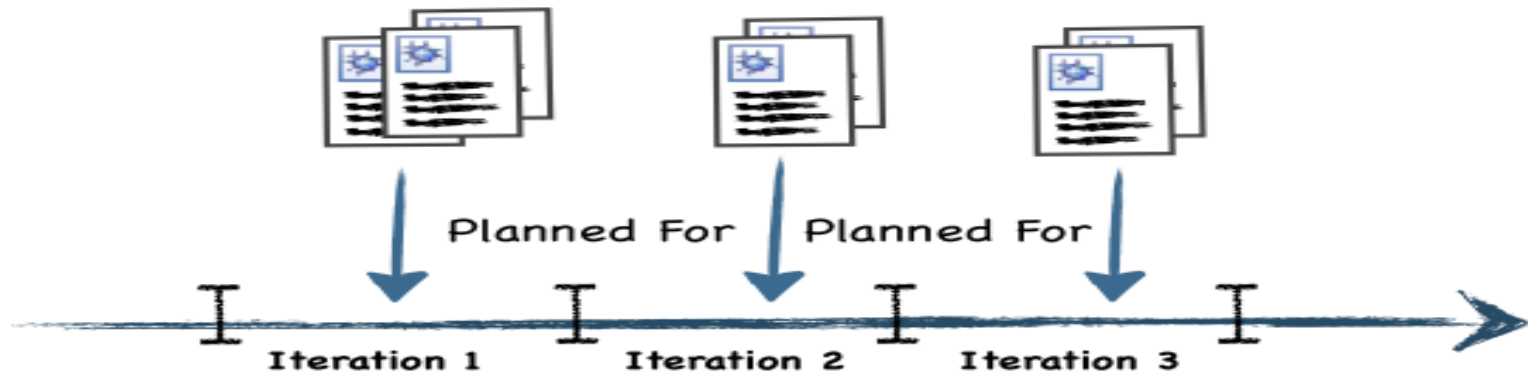
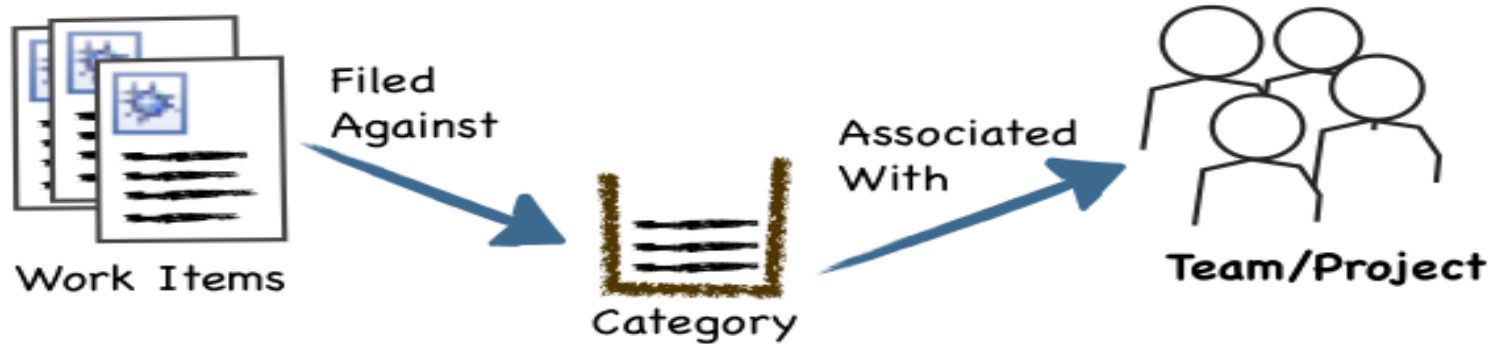
Progress: 24/56 | +19 h Estimated: 100%

Planned Items Links Snapshots Dashboard Notes

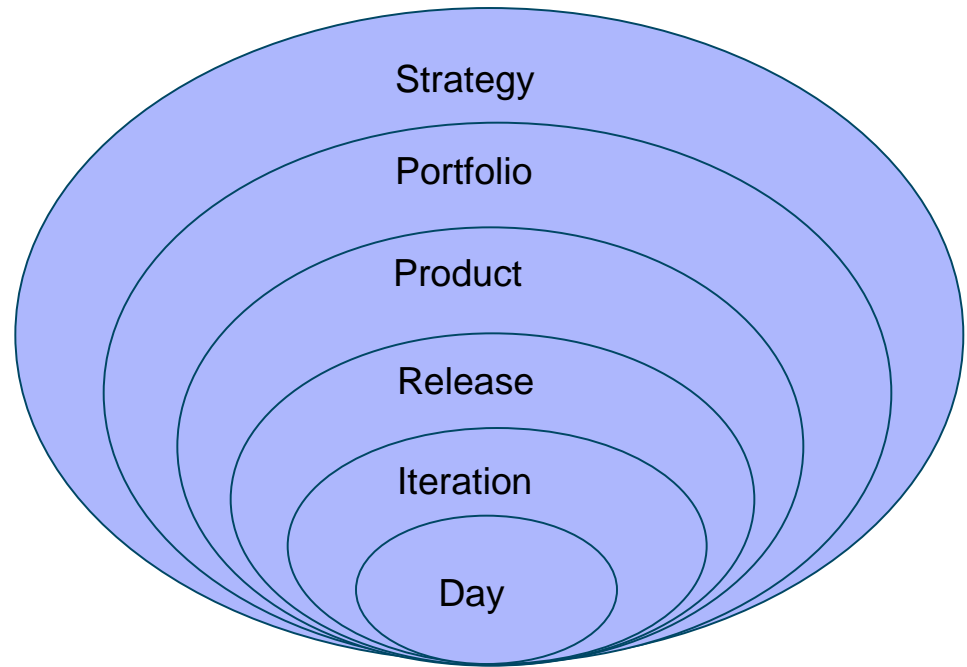
View As: Work Breakdown Type to Filter Add Work Item

| Summary | Story Points |
|--|--------------|
| As a user I want my phone to call someone randomly | 3 pts |
| Implement a user interface that presents the chosen one | -- |
| Implement a function that selects someone from my contact list | -- |
| As a user I want to be able to skip a randomly propose contact | 5 pts |
| Design an icon for the user interface | -- |
| Implement user interface to skip a proposal | -- |

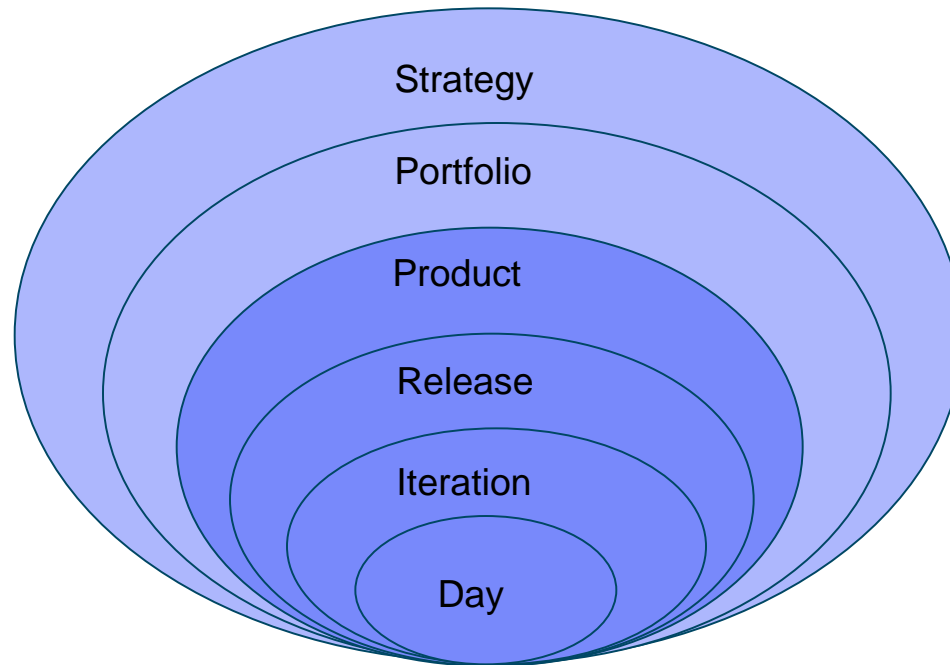
Rational Team Concert (RTC) Plan Definition



- **Strategy** – defines the vision associated with a business need or direction.
- **Portfolio** – defines the overall product offering that consists of applications and tools and how they integrate.
- **Product** – defines a product vision and outlines the road-map for the product.
- **Release** – represents a prioritized backlog of product features that are committed to be delivered in a given time period.
- **Iteration** – defines short, fixed-length subsets of releases, typically 1-4 week time frame.
- **Day** – represents the actions taken in a day to achieve the iteration goals.



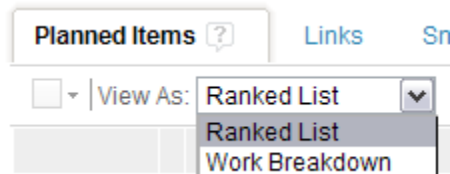
Most Agile teams plan at the four innermost levels of the onion. RTC provides support of this.



- Prioritized feature list

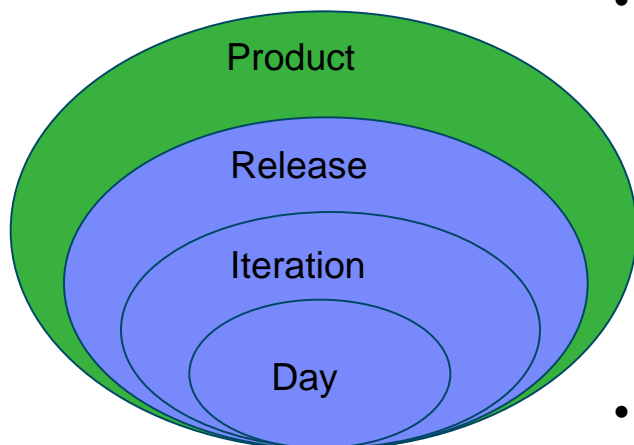
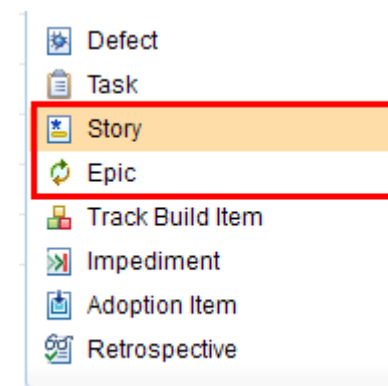
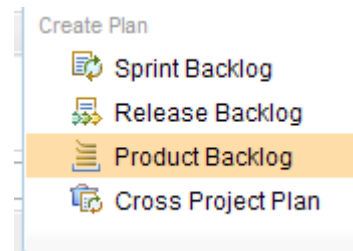
- **Plan Views**

- Ranked List
- Work Breakdown



- **WorkItem Types**

- Plan items: Work items that are relevant for planning. Ex: Epics, Stories, etc.



- **Reports**

- How your product backlog is evolving?
- How many items are there on the product backlog?
- Can we find out how long it would take to complete the product backlog?

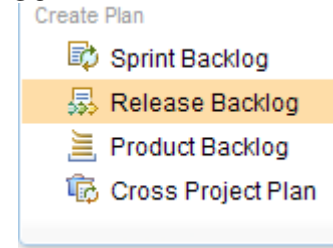
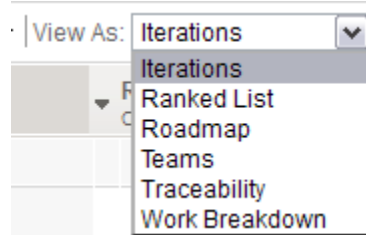
- **Top down Planning**

Planning Onion Layer: Release Backlog

- Planned/Committed features for the release of the product

- Plan Views**

- Iterations
- Ranked List
- Roadmap
- Teams
- Traceability (optional)
- Work Breakdown



- WorkItem Types**

- Plan items: Work items that are relevant for the planning. Ex: Themes, Epics and Stories

- Reports**

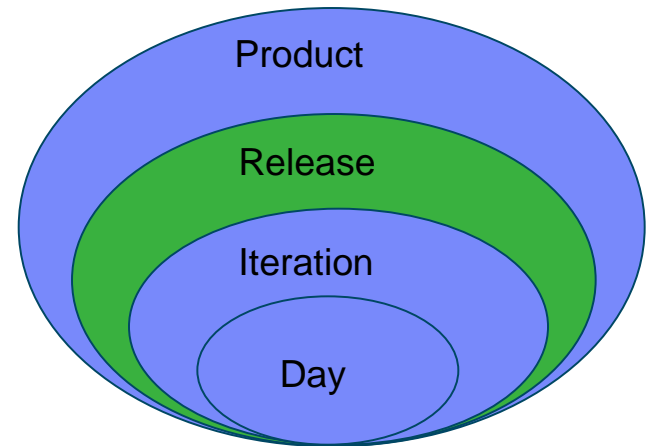
- Team Velocity

All the story points that were 'achieved' grouped by the iteration they were targeted for.

- Release Burndown

Amount of outstanding work for the release, broken down by iteration.

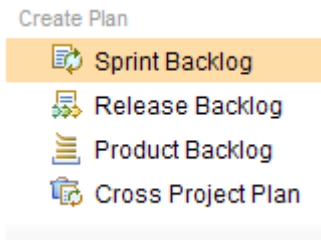
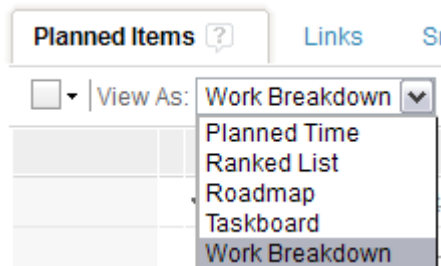
- Top down Planning**



- Tasks planned for the iteration

• Plan Views

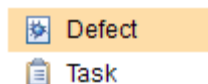
- Planned Time
- RankedList
- Roadmap
- Taskboard / Kanban
- Workbreakdown



• WorkItem Types

- Execution items: Work items which have work assigned.

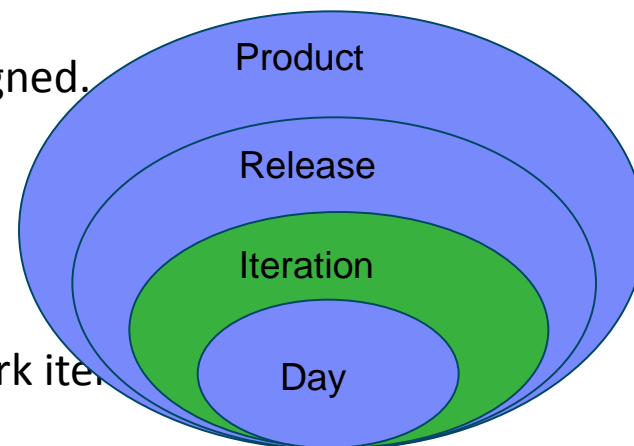
Ex: Task and Defect.



• Reports

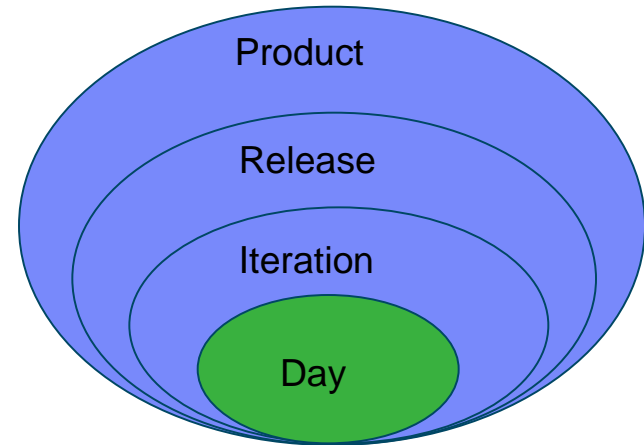
- Sprint Burndown

Estimated hours required to complete remaining work items



- **My Work View:** Developers plan their assigned work and adjust estimates

- Managing new work
- Managing current work
- Managing future work
- Work Load
- Find, filter, and colorize planned work items

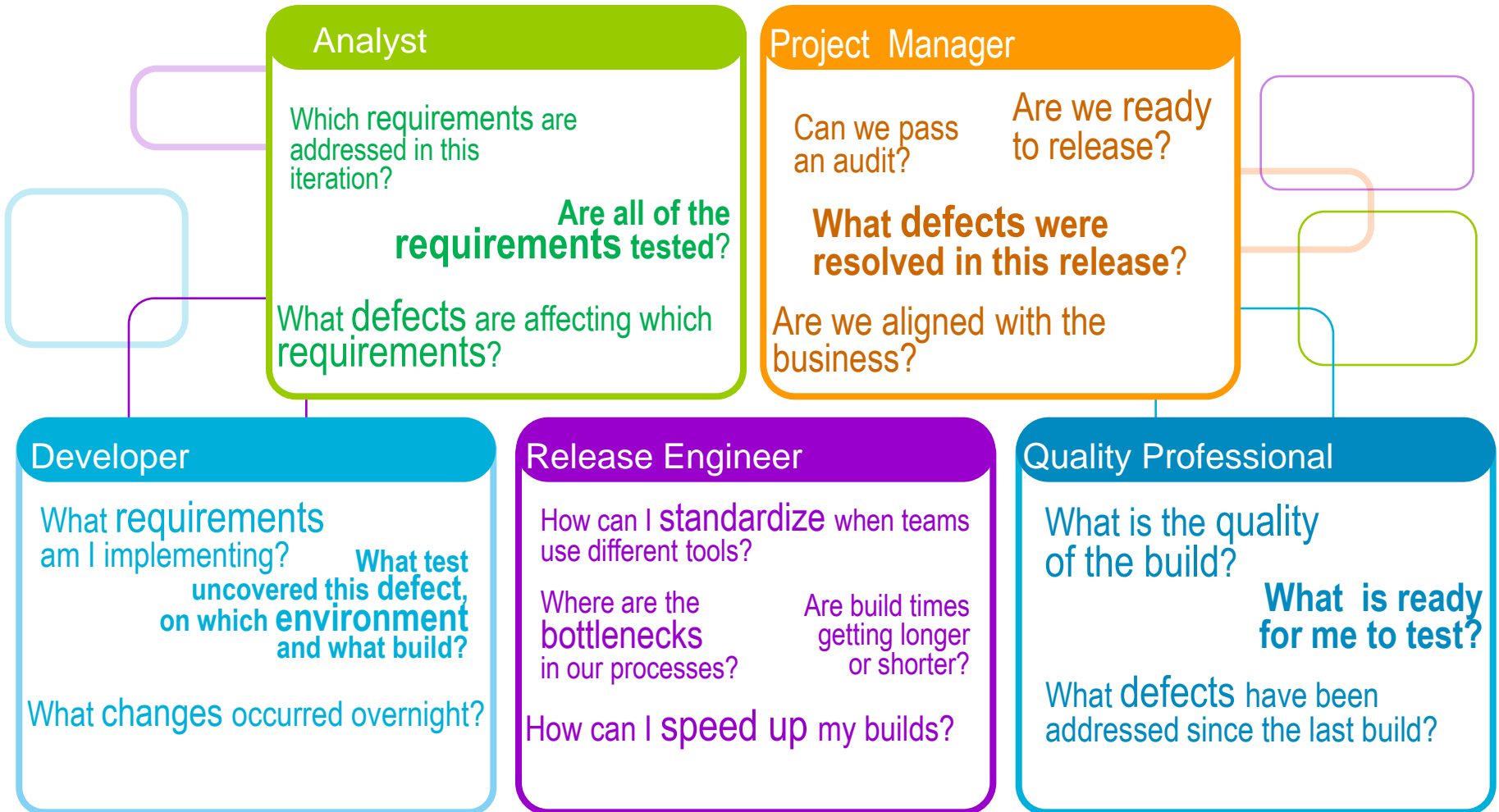


- Daily **Stand ups:** Developer **Taskboard** view to see what people are working on.

- **Planned Time:** Developers sort the work items in the order in which they intends to work on them

- **Bottom Up** Planning

Integration challenges

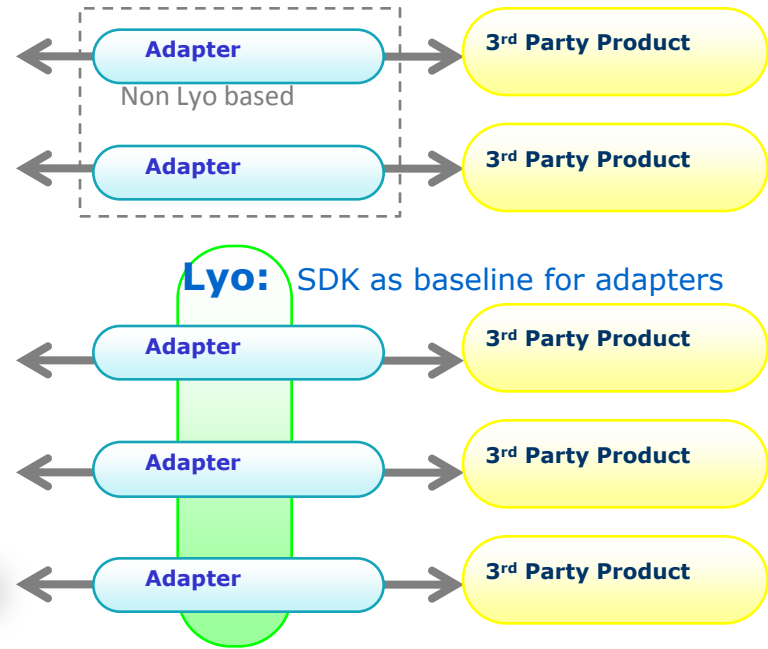
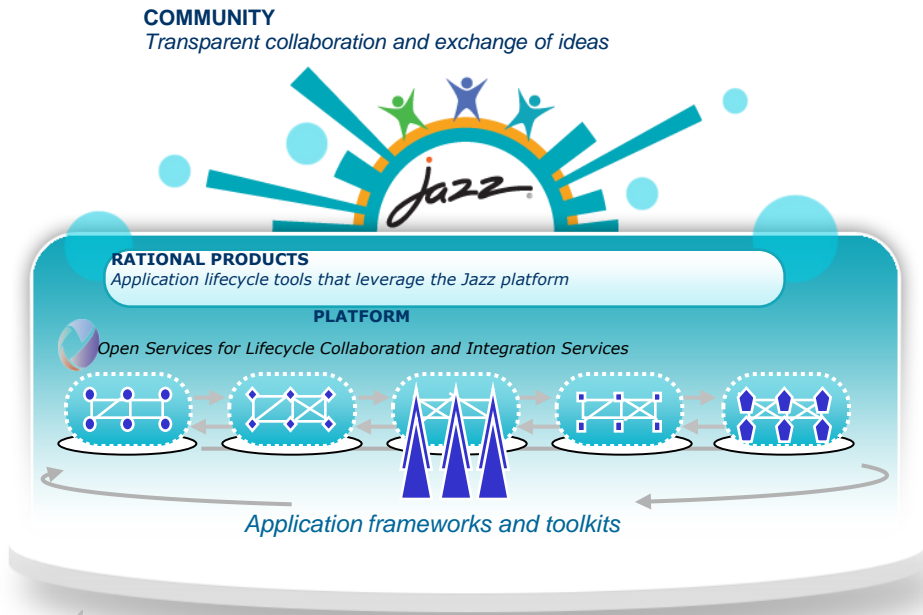


Common Scenarios that drive 3rd party integrations with Rational Team Concert



- *“We outsource the development of some of our components to a company that uses Jira for defect mgt, but need to track their defects in our RTC planning efforts...”*
- *“We are using Git and we don’t want to move off our SCM right now although we see the benefit in RTC’s other capabilities (dashboarding, planning, build, collaboration, etc...”*
- *“Our testing effort has standardized on HPQC, which they also use for defects and test requirements. We need to ensure that our testing organization can properly coordinate their efforts with our development teams and requirement management efforts...”*
- *“We want to be able to have the flexibility to integrate RTC with any of our tooling whether vendor provided, open source, or homegrown...”*

Rational & OSLC integrations



OSLC as the standard that enables integrations within and beyond Jazz

- Value driven by diverse scenarios:
 - Jazz provides an integration platform
 - Eclipse Project Lyo provides an OSLC SDK
 - Adapters provide endpoints (in-house, partners, community, service assets)

Highlighted RTC OSLC integrations

CM – Rational OSLC Adapter for Atlassian Jira

- When there are pockets of JIRA users that need to integrate their change management artifacts with other phases of the lifecycle, the Rational OSLC adapter for JIRA provides traceability across the Rational tools involved.
 - Rational solution for CLM 3.0.1.x – 4.0
 - JIRA 4.4.0.x
 - Available now as tech preview from jazz.net: <https://jazz.net/library/article/766>

SCM – Rational OSLC Adapter for Git

- When users of Git need to integrate their SCM artifacts with Rational Team Concert, the Rational OSLC adapter for Git provides traceability across the tools involved.
 - Rational Team Concert 4.0
 - Git 1.7.1 and above
 - Available now as a tech preview from jazz.net: <https://jazz.net/library/article/854>

ALM – Rational OSLC Adapter for HP ALM/QC

- When users of HP ALM/QC need to integrate their ALM artifacts in HP with those in Rational's tools, the Rational OSLC adapter for HP ALM provides traceability across development lifecycle
 - Rational solution for CLM 4.0
 - HP ALM/QC 11.0
 - Available now as a tech preview from jazz.net: <https://jazz.net/library/article/855>

OSLC Overview & building integrations

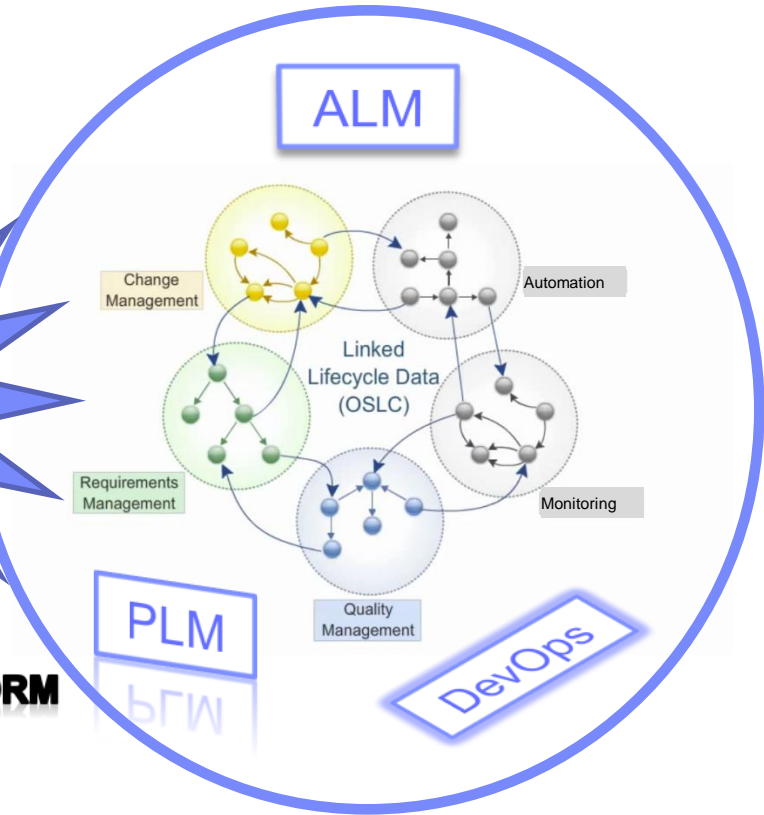
Leveraging the power of linked data through OSLC



- Growing industry impact
 - Integrate over 40 tools natively and through 3rd-party adapters
 - Foundation for major interoperability projects
 - Deepening and expanding scope



Now available:
OSLC4J & test suite for
CM and Core



- Lyo makes OSLC integrations easier
 - SDK, Test suites, Reference implementation



- Standardizing part of the OSLC Core specification
 - Co-submitters: DERI, EMC, IBM, Oracle, Red Hat, SemanticWeb.com, Tasktop

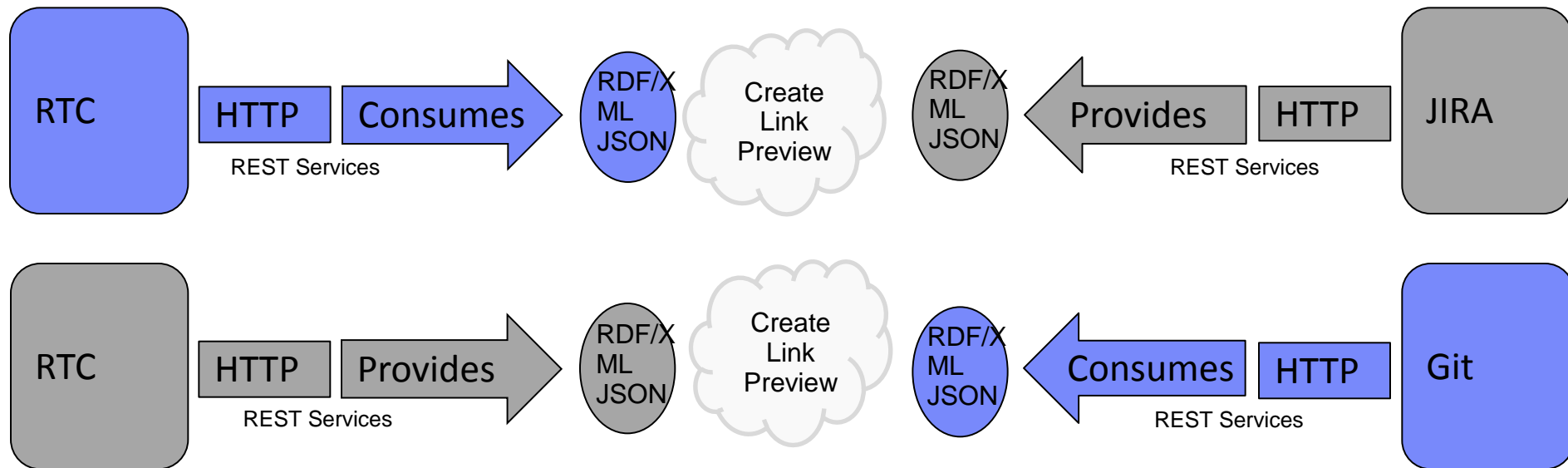
 **Open Services for Lifecycle Collaboration**
Lifecycle integration inspired by the web

- OSLC Steering Committee
 - Founding members: Accenture, Creative Intellect, EADS, IBM, Siemens, Tasktop

OSLC Integrations are facilitated by Providers and Consumers



- An OSLC provider is responsible for exposing domain data in accordance with the OSLC specification to allow for creating, updating and querying linked data
- An OSLC consumer is responsible for consuming the OSLC provider services so that it can in turn, create, update, and query data via the delegated interfaces

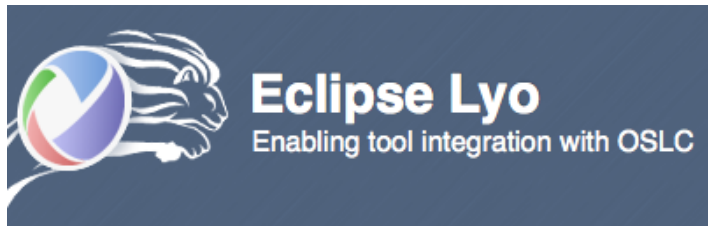


OSLC builds on the architecture of the WWW and follows the REST architectural pattern. This means that OSLC Services provide a uniform HTTP interface, OSLC URIs are stable and opaque and, in simple terms, OSLC works like the web.

http://open-services.net/bin/view/Main/OslcCoreSpecification#Design_considerations

Keys to adopting OSLC

- What scenarios do you want to support?
 - Are these well-known scenarios at open-services.net?
 - Do I need to define new scenarios?
- What tools are involved with this scenario?
 - What versions and what level of OSLC do they support?
 - Can I leverage their support or will I need to extend/adapt it?
- What specifications should I support?
- Do I need to do both consumers and providers?



- Lyo 1.0 planned for September
 - SDKs – OSLC4J (JAX-RS + bean annotations), query syntax parser
 - Test Suites – assessment reports, domain coverage (CM, QM, Asset, RM, AM)
 - Samples – OAuth, Bugzilla, Excel, CM & QM ref impls, workshop/tutorial, Perl, C#

Learn about other Integrations; Jazz.net Integration Directory

External Jazz.net Integration Directory

- Information sourced from Integration Dashboard
- Ability to filter by any Rational or non-Rational tool, or narrow by a second tool
- Raise visibility of request for integrations not listed

The screenshot shows the 'Jazz COMMUNITY SITE' with a search bar. The main heading is 'Integrations. What works with what?'. Below this, it states: 'Our products work with a wide variety of 3rd party tools and are a part of a diverse ecosystem of integrated Rational solutions. To get the most out of your tools, find out what works with what.' There is a dropdown menu for 'Choose a tool:' with 'Rational Team Concert' selected. A list of 'All tools' is provided, including Atlassian JIRA, BMC Remedy, Bugzilla, HP Quality Center, HP Service Manager, IntelliJ IDEA, Microsoft MSP, Rational Application Developer, Rational Asset Manager, Rational Build Forge, Rational Change, Rational ClearCase, Rational ClearQuest, Rational DOORS, Rational Developer for System z, Rational Method Composer, Rational Quality Manager, Rational Requirements Composer, Rational RequisitePro, Rational Rhapsody, Rational Software Analyzer, Rational Software Architect, Rational Software Modeler, and Rational Synergy. The right side of the page features a search bar and a 'Show Details' checkbox. Below this, there are three integration entries: 'Integrations with Rational Team Concert', 'BMC Remedy to RTC', and 'BSDGroup HPQC RTC Bridge'. Each entry includes details like 'Provided by:', 'Release type:', and a 'Learn more >' link. The 'BMC Remedy to RTC' entry describes how tickets are created in Remedy using REST calls to create RTC WIs. The 'BSDGroup HPQC RTC Bridge' entry explains how it links defects and requirements between RTC and QC. The 'CM Logic JazzConnect JIRA Integration with RTC and RQM' entry notes that there may be a charge for this solution and describes its support for automation. The 'HPSM Integration Framework with RTC' entry states that it allows HPSM items to cause the creation of WIs in RTC and keeps them in sync over time.

Where to get more information

- jazz.net Integration Directory: <https://jazz.net/extend/integrations/#>
- OSLC community: <http://open-services.net>
- Eclipse Lyo: <http://eclipse.org/>
- Rational 3rd Party Integrations DPP': Email to ratldpp@us.ibm.com
- Ready for Rational (Business Partners):
 - ▶ Partners: <http://www-304.ibm.com/isv/rational/readyfor.html>
 - ▶ Customers: <http://www.ibm.com/developerworks/rational/downloads/ready.html>

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