What's New and Next with IBM Rational Team Concert

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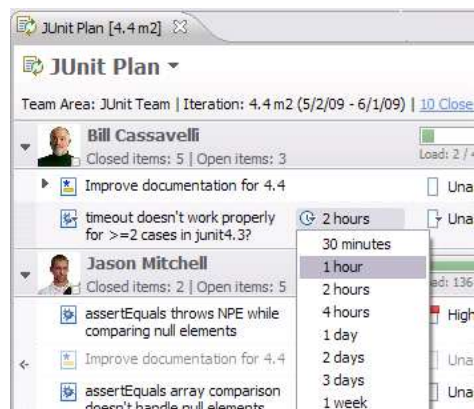
Agenda

- What is Rational Team Concert?

- What's New in Rational Team Concert 4.0?

- Questions

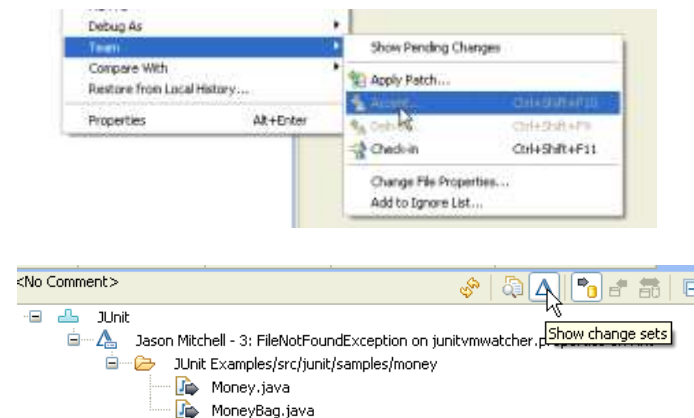# Rational Team Concert – A single tool, many capabilities

- Work Items
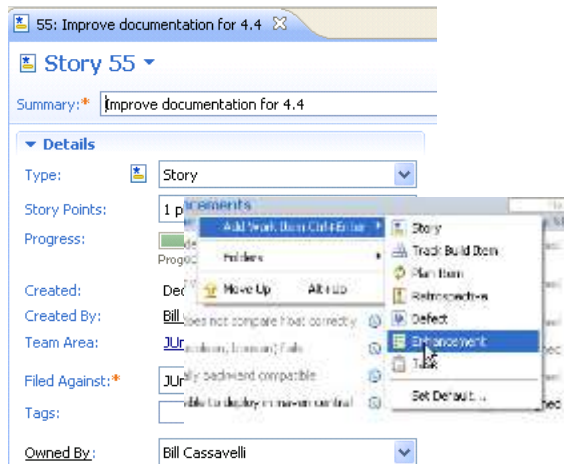
- Planning

- Source Control

- Builds – Continuous Integration

- Dashboards & Reporting

- Method Enforcement and Automation

Next NOW!

Rational Team Concert: Built on an open, Web 2.0 platform
Supporting a broad range of desktop clients, IDE's and languages

Eclipse Clients

Jazz Client Extensions

Eclipse Platform

Web Clients

Web 2.0

Microsoft .NET Clients

Visual Studio

Rational Desktop Clients

Rational Software Architect

Rational Systems Developer

Rational Business Developer

Rational Developer for z

Rational Developer for i

Rational Team Concert

Best Practices

Collaboration

Presentation: *Mashups*

Discovery

Query

Storage

Administration: *Users, projects, process*

JAZZ SERVICES

Business Partner Extensions

Your Extensions

IBM Rational Extensions

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Our ALM is unique – a PLATFORM that can integrate with any tool

COMMUNITY
Transparent collaboration and exchange of ideas

PRODUCTS
Application lifecycle tools that leverage the Jazz platform and/or OSLC

PLATFORM
Common Services – ONE process, security, reporting model across ALM

OPEN SERVICES
Open Services for Lifecycle Collaboration - Works with ANY ALM tool

Link Resources Across ALM
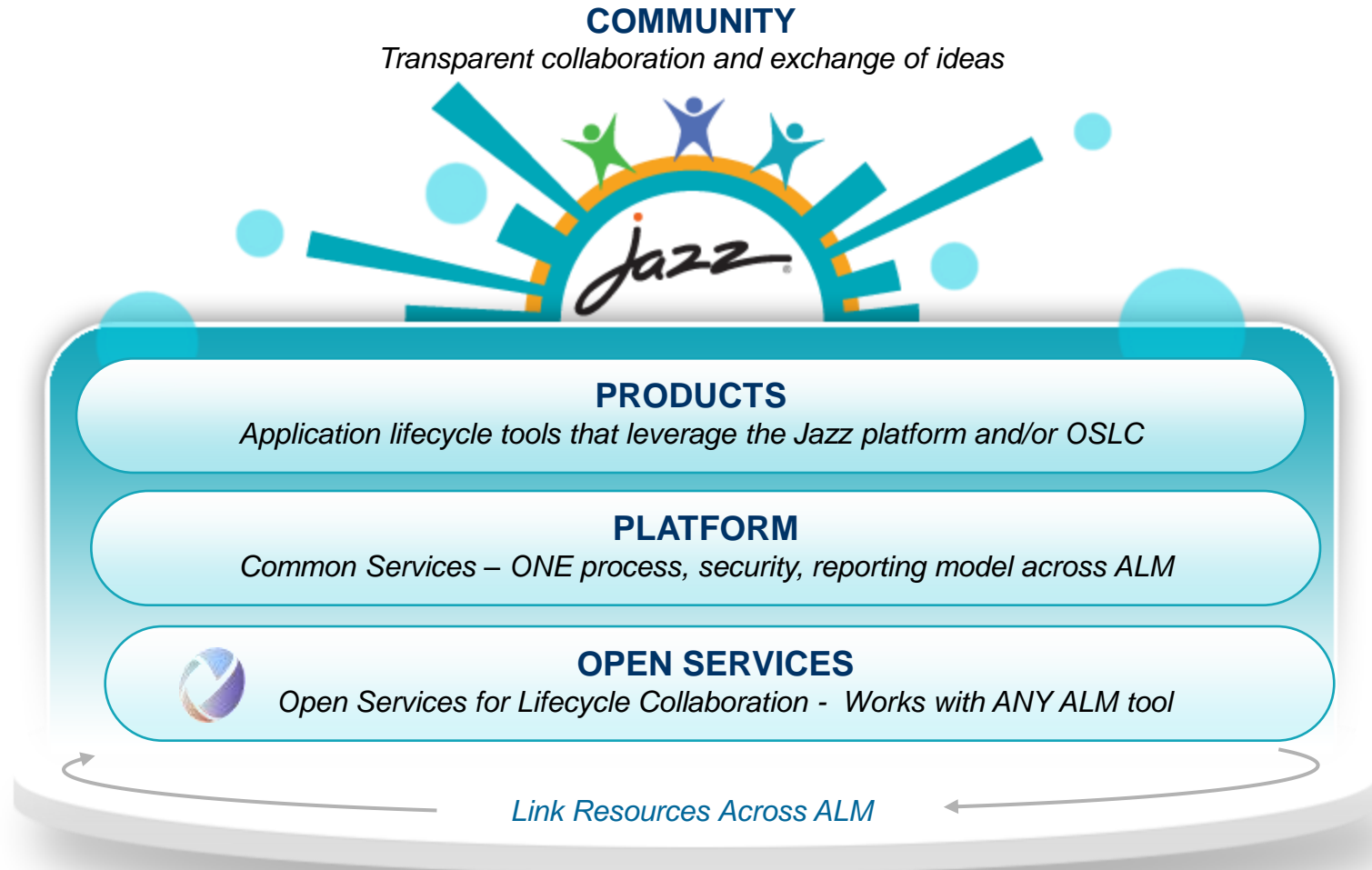
Open Services for Lifecycle Collaboration (OSLC)
Working to improve the way software lifecycle tools share data

Open Services for Lifecycle Collaboration
Lifecycle integration inspired by the web

- Community driven and governed
    - 400+ registered community members
    - Workgroup members from 34+ **organizations**
- Wide range of interests, expertise, & **participation**
- Open specifications for numerous disciplines
- Defined by scenarios – solution oriented
- Implementations from IBM, BPs, and Others
- Based on W3C Linked Data

ALM

Change Management

Automation

Linked Lifecycle Data (OSLC)

Requirements Management

Monitoring

Quality Management

PLM

DevOps
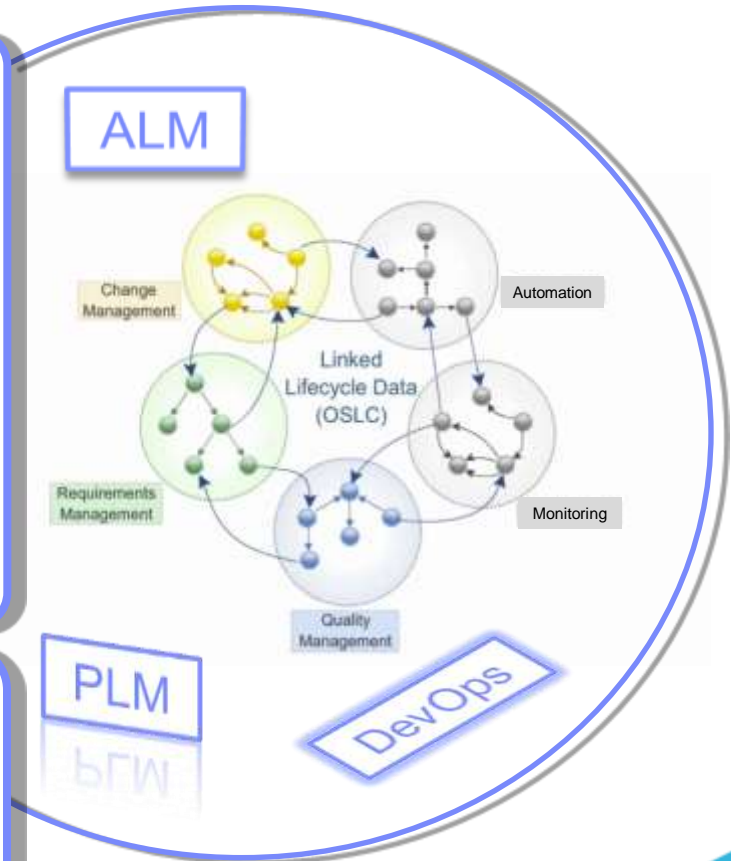
Inspired by the web	Free to use and share	Changing the industry
Proven	**Open**	**Innovative**

open-services.net

GET INVOLVED AND CONTRIBUTE!

Next NOW!

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Platform, Shmatform - What's in it for me as a developer?

Developer Empowerment
Communication is friction free with RTC

As a Developer…

Everything I need to do my job is in one place

All my code, my tasks, my builds, my to do lists

I know what's going on

Work items track everything -- change sets, builds, and approvals

I know where we are and I know the impact of a change to the plan. I am empowered.

Everyone else knows what's going on

People stop asking me questions they can answer themselves now.

When can I test your fix? What's your status? When will you be done? Did the plan change?

I can be a hero

Fix goofs, juggles tasks, patch in seconds, easily add or remove features.

I can figure out and fix my mistakes AND the "other guys" mistakes…

IBM

What's different about Rational Team Concert?

- In Team Concert EVERYTHING is a resource (link)
- Automated traceability is achieved as work is performed

Release

found in

promoted

Iteration Plan

planned for

reported against

Work Item

Build

included

implements   included

subscribes
approves
reviews

related

built from

User

Snapshot

Change Set

Artifacts

Stream

included

change flow

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)

Workspace

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Agenda

- What's New in Rational Team Concert 4.0?

High-Availability Before CLM 4.0

- Manual Fail-over for CLM applications (hot standby, cold standby)
- Can independently use clustering for caching proxies or database servers.
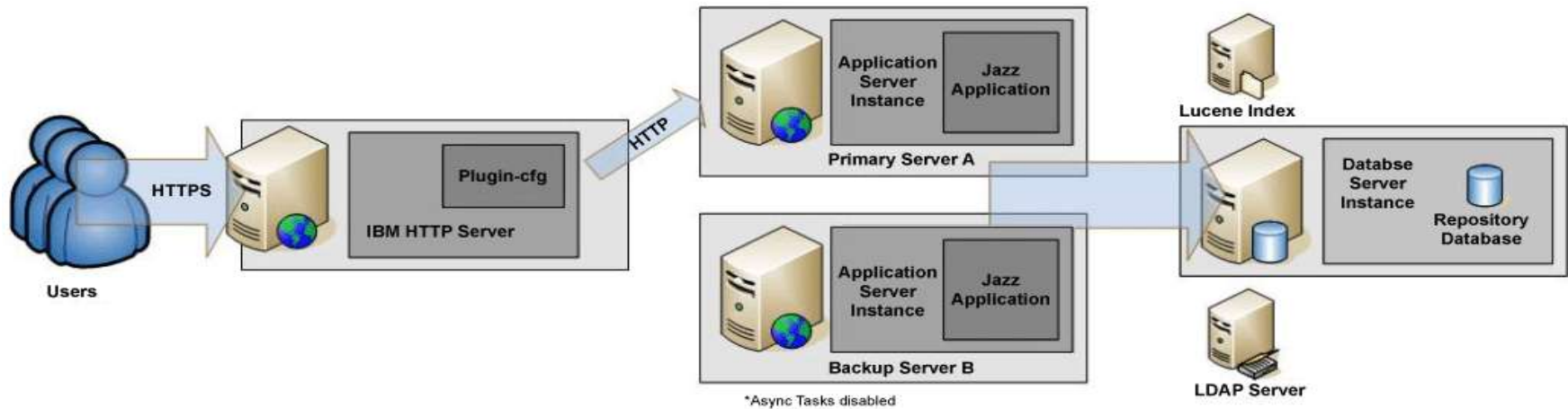
http://publib.boulder.ibm.com/infocenter/clmhelp/v3r0m1/index.jsp?topic=/com.ibm.jazz.install.doc/topics/t_setting_up_ha.html

CLM 2012 - Clustering for High Availability

2011	**2012**	2013

- **CLM High Availability / Clustering on WAS**

  - Redundant application/JTS instances sharing central DB

  - Front load balancer dispatching, provides automatic failover across the cluster

  - WAS supported cluster solution is WAS ND:

    - Deployment management

    - Workload management

    - Session failover

  - WebSphere eXtreme Scale is the technology Jazz uses for a shared look-aside cache – Object Grid – This is bundled for use with CLM 2012 applications.

Prerequisite: Will require licensed WAS-ND (which is not bundled with CLM 2012) Also will require a freely available feature key to activate capability

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Clustered CLM 4.0 in WAS ND – "all-in-one" topology

CELL 'CLM'

| Load Balancer |
| Deployment Manager |

| Node Agent 01 | Node Agent 02 | Node Agent 03 |

CLUSTER 'CLM'

| WAS | WAS | WAS |

CCM	CCM	CCM	Object Grid
QM	QM	QM	Object Grid
RM	RM	RM	Object Grid
JTS	JTS	JTS	Object Grid

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Resource Database

Next
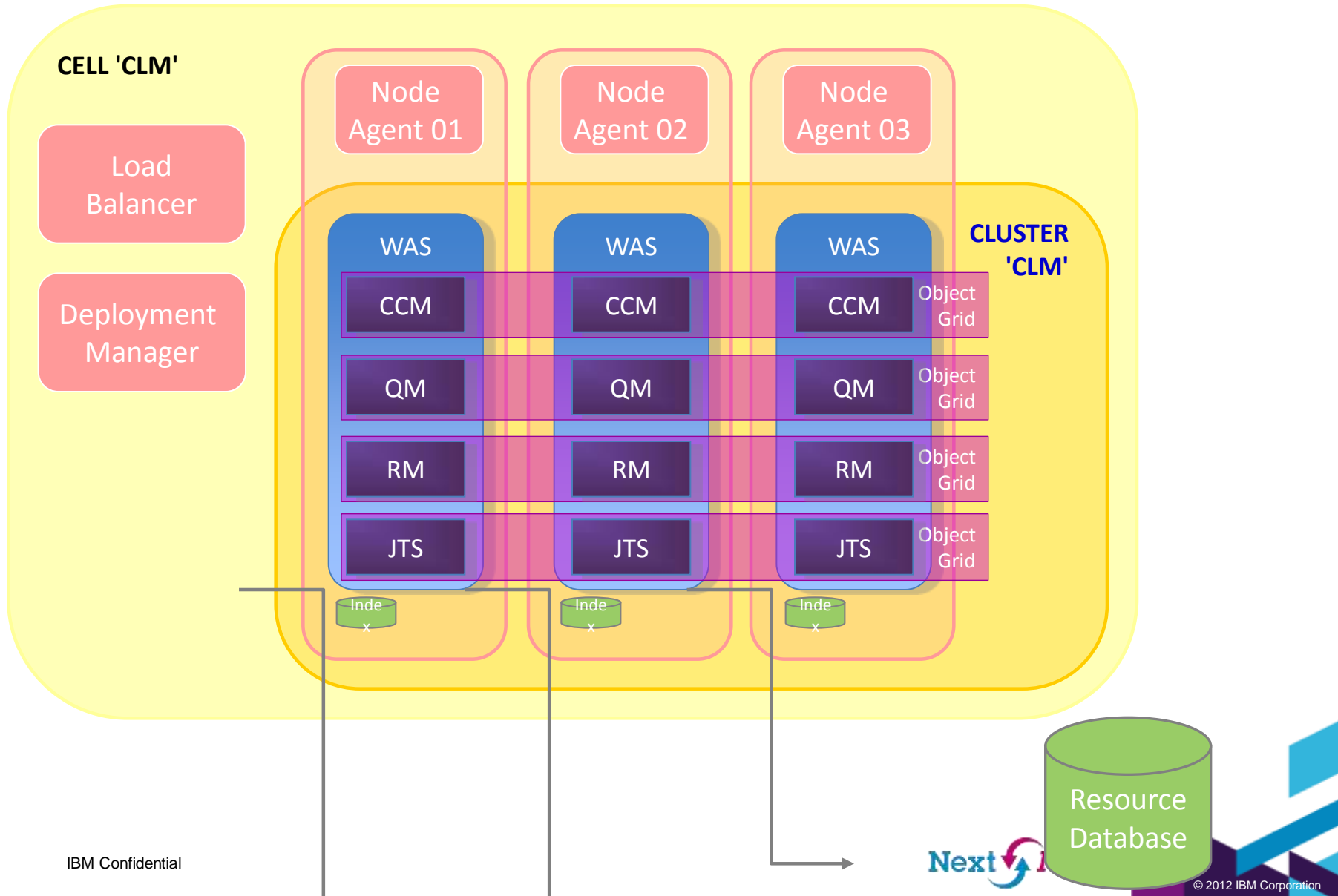
Clustered RTC 4.0 in WAS ND – "distributed" topology

CELL 'RTC'

| Load Balancer |
| Deployment Manager |

Node Agent 01
Node Agent 02
Node Agent 03

WAS — CCM
WAS — CCM
WAS — CCM

CLUSTER 'CCM'

Object Grid

Index
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Index

CLUSTER 'JTS'

WAS — JTS
WAS — JTS
WAS — JTS

Object Grid

Node Agent 04
Node Agent 05
Node Agent 06

Resource Database

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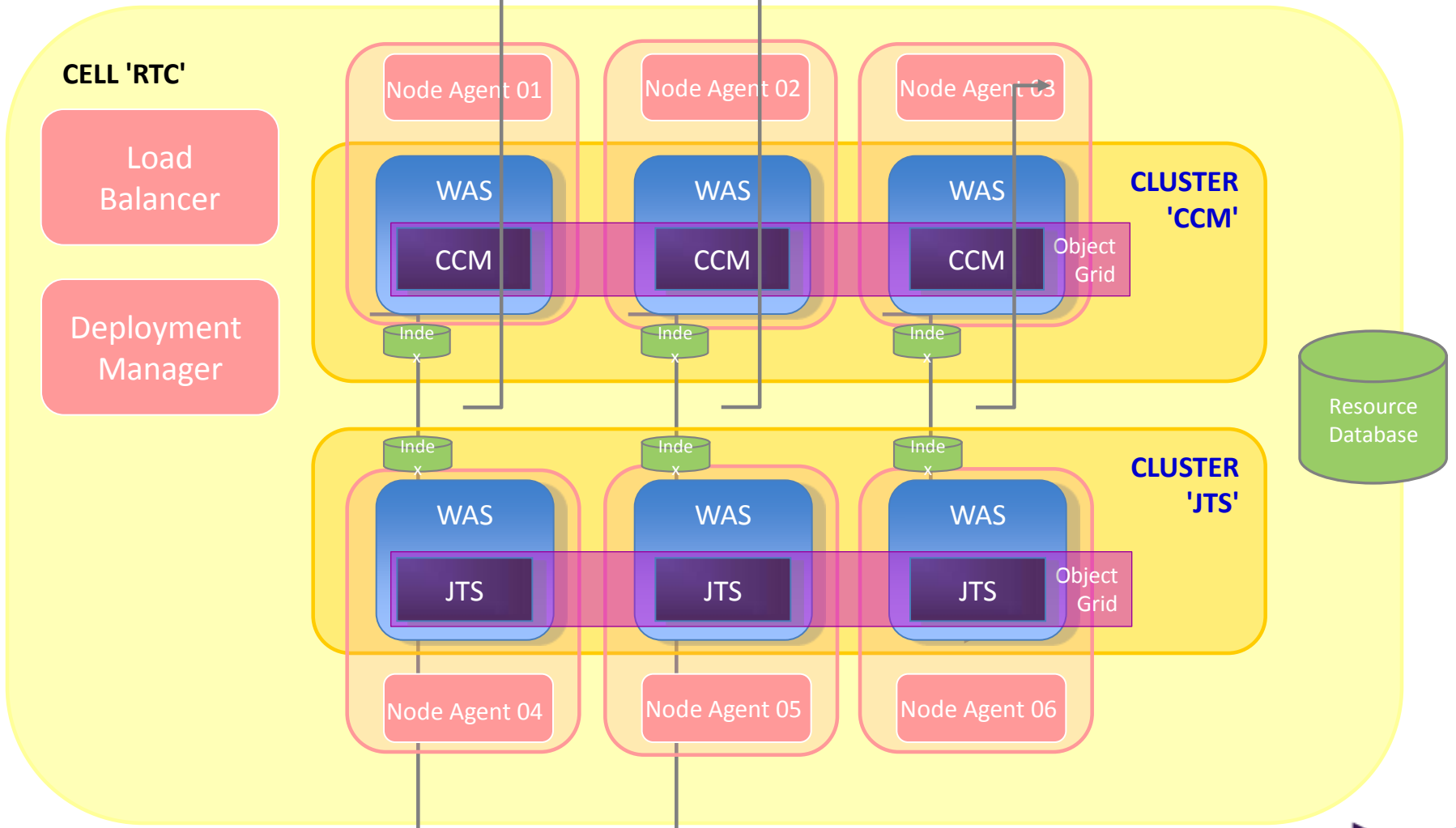
CLM 2012 - I can upgrade in stages, rename a pilot/test server and share process across RTC repositories

2011	2012	2013

- **Support rolling upgrade capability for CLM**
  - I can upgrade one project at a time
    - Upgrade my Jazz Team Server to 4.0 and support both RTC 3.0.1 and RTC 4.0 clients
  - I can upgrade one CLM application at a time
    - Allow RTC, RQM, RRC to upgrade incrementally

- **Support Server URL Rename**
  - Support server URL rename initial use case
    - Production to Staging.
    - Pilot to Production* (specific rqts)

- **Cross Repository Process Inheritance**
  - I can share a project's process template across multiple JTS servers
  - Today this sharing can only occur in RTC 3.x on the same RTC/JTS repository

jazz

IBM Confidential

RTC 4.0 - Now I can track what's going on across projects

| 2011 | 2012 | 2013 |

- **Planning Across Projects**

  - Master Plan tracks cross cutting tasks

  - See a schedule roll-up of tasks

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RTC 4.0 - Are we optimizing the flow of work?

| 2011 | **2012** | 2013 |

- **New Kanban Taskboard**

  - Where is capacity available?

  - Am I exceeding my desired limits?   Customize limits to reflect ideal state.

What are the benefits of Kanban?

- **Allow teams to set "work in process" limits and visualize the flow of work**

  – Where is capacity available? Am I exceeding my desired limits?

- **Helps to optimize the ideal flow of work through the system using a "pull" model**

  – For example: "Idle" resources creates inefficiency, we might encourage testing to focus their efforts to address the work backlog in the "ready to test" state below.
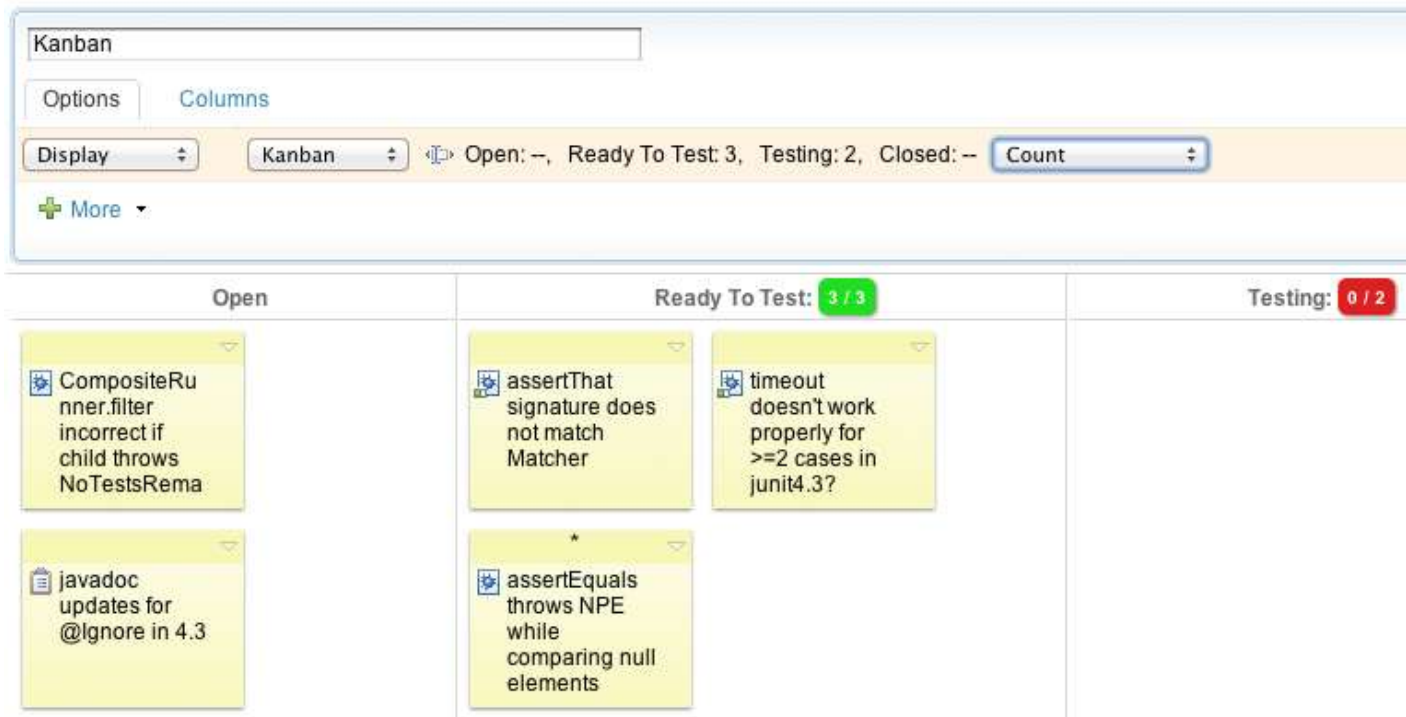
RTC 4.0 – Improved MS-Project Import, Re-Import, and Export

| 2011 | 2012 | 2013 |

- **New or Improved Use Cases**

  - Import large files and let me know the progress

  - Re-import and update only the new tasks

  - Export RTC Status back to a clean MS-Project Plan

Import Microsoft Project XML file

Import
View the progress of the import.

Importing 'msp-data.xml' ... (17% complete)

⇨ **117 of 350 work items created (estimated 2 minutes left)**

Updating 350 work items

< Back   Next >   Finish   Cancel
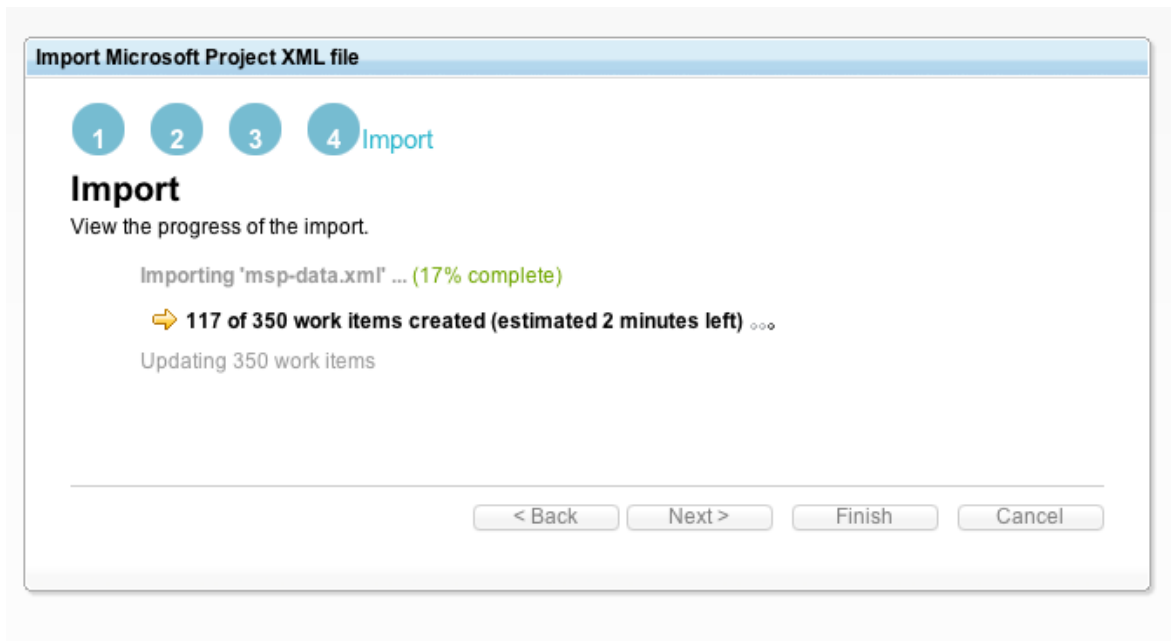
RTC 4.0 – I can manage WI access control across projects, team areas and users to better support contract teams and suppliers

| 2011 | **2012** | 2013 |

Flexible read access control for Work Items

– Access groups define the scope.

– An access group is a collection of project areas, team areas, and users. They have a name and description and can be shared at various levels (the entire repo, a project area, a team area, etc.)

– For example: You could make a work item visible to "These two team areas and these two other users" by creating an access group which included two team areas and two contributors.

Create an Access Group

Configure the details of the access group.

Name: *
Customers and Team Business Recovery Matters

Description:
Group of customers and Business Recovery Matters Team

Members: *

- Business Recovery Matters
- Curtis
- Deb
- Marco
- Tanuj
- Ursula

Save   Cancel

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RTC 4.0 - I can get user input on queries, I can pull in external data

2011	2012	2013

- **More Work Item Enhancements**

  - **Variables** in Work Item Queries

  - **External Data** Set Providers (HTTP)
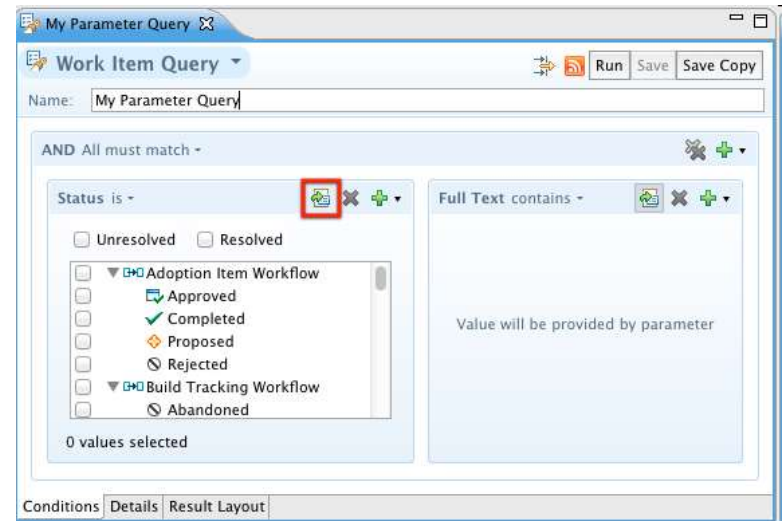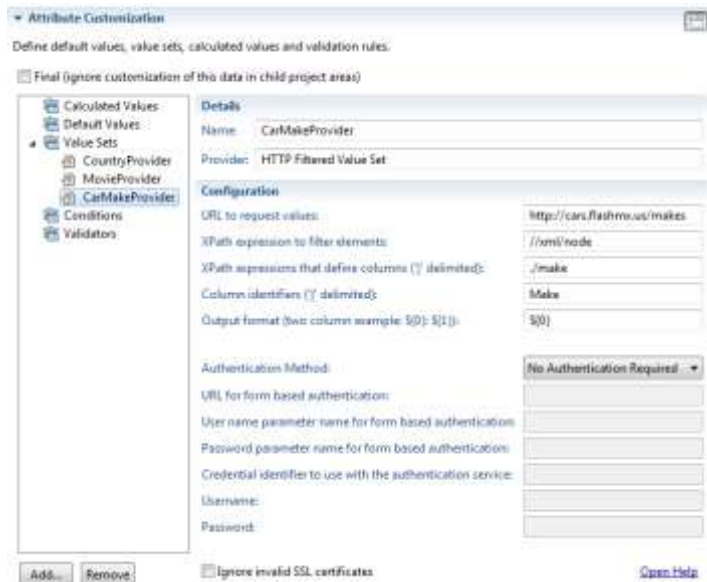
"Now I don't' have to manage lots of queries just to get variable input"

"I want to fetch attribute values from an external data source, such as a HTTP REST service so I can always have the most up to date data"

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RTC 4.0 – I can control SCM permissions at the file/folder level, control how files get loaded and locate changes across streams.

2011	2012	2013

- **Advanced SCM**
  - Deletion and Artifact Level Read Permissions
    - Provide **read permissions** at the versioned artifact granularity in SCM
    - Permanently **delete files** (Administrators only)
  - More Flexible Workspace and Load Management:
    - Check-in History to **easily revert** to any checked-in version
    - Save and Re-load load rules from files
  - **Variant Management**:
    - Where have my changes flown? (Locate Change Sets Editor)

RTC 4.0 – I can version anything easily outside the IDE, integrate my existing build engine or tool and use the CLI for more scripting

2011	2012	2013

- **Simple SCM UI**
  - Windows 7 **Explorer SCM integration**
- **Built-In Hudson/Jenkins Build Integration**
  - View build health and control builds from RTC
- **MSCCI Support – Basic versioning API**
  - Tested with Rhapsody and Matlab
- **CLI Scripting and New Commands**
  - Improved SCM command line scripting
  - Many new SCM CLI commands
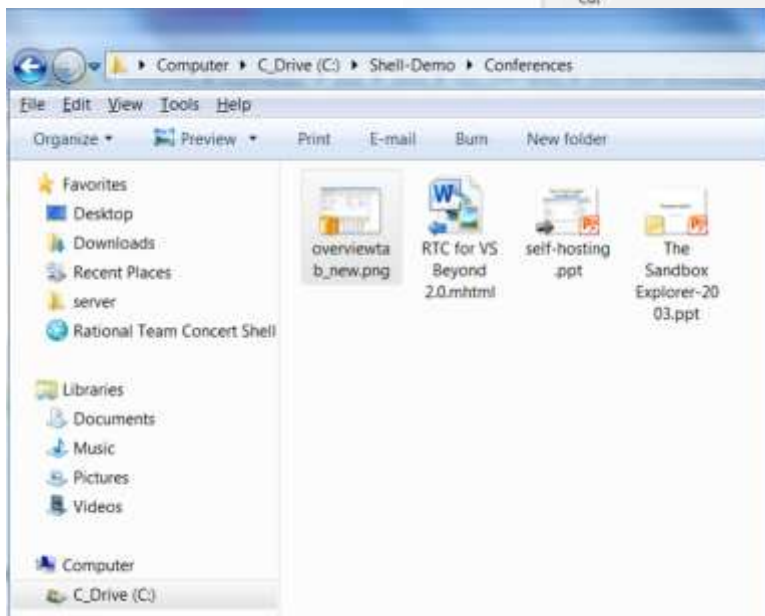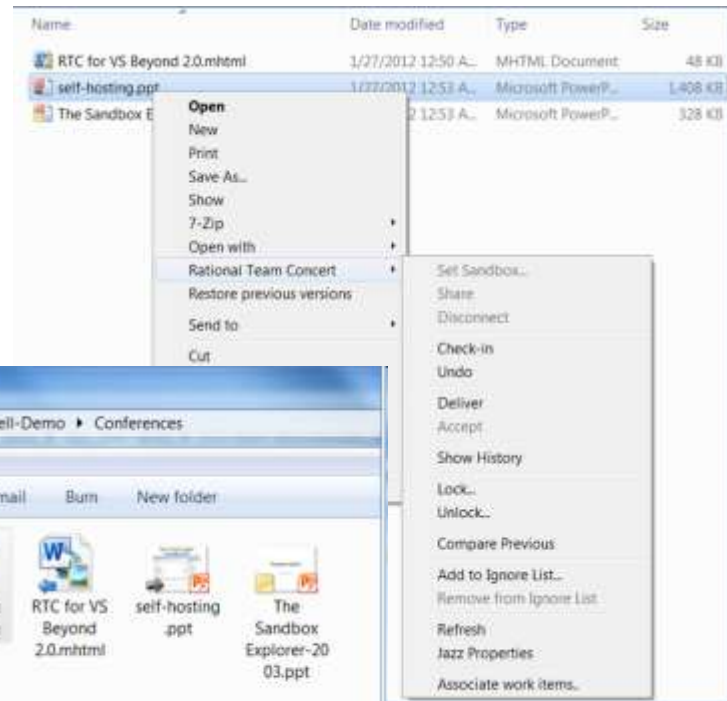
RTC 4.0 – IBM Enterprise Platform – Build, promote and deploy on z/i

2011 | 2012 | 2013

- **Dependency build enhancements**
  - Build preview
  - Load with dependencies
  - Build subsets populated by Work Items
  - Post build report
- **Enhanced support for IBMi**
  - Full Dependency build with link support
  - Work Item based promotion and Deployment

25
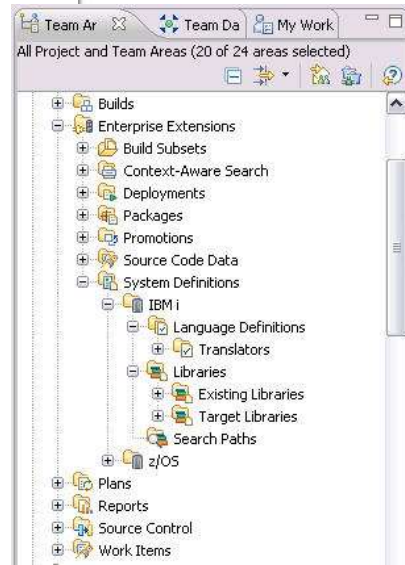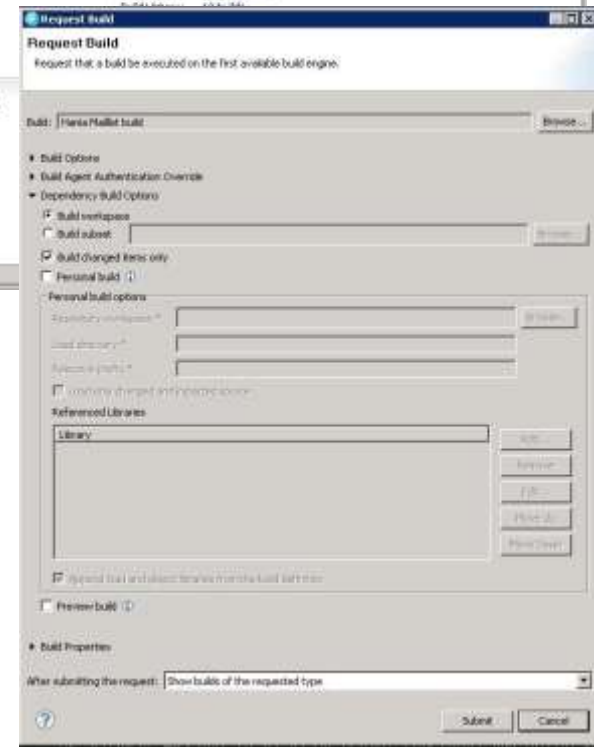
New Jazz.net: I can find answers quicker, and rate answers by others

- We've re-designed it to appeal to a developer audience and provide more community value
  - New forums with user ratings and with the "answer" identified
  - RTC takes a more front and center role – developer focus

Summary

- *CLM 2012:*

  – *Clustering for HA, Incremental Upgrades, Faster Upgrades*

- *Planning:*

  – *Plan across projects; Support Kanban; Improved MS-Project Import/Export*

- *Work Items:*

  – *User input on queries, manage external data, more flexible access control*

- *SCM:*

  – *Improved variant management - locate change sets across release streams*

  – *Flexible workspace layout and control – load rules from files*

  – *Version anything outside the IDE – Windows Shell SCM integration*

  – *Improved CLI ; more CLI commands and enhanced scripting*

  – *Integrate SCM better with MSCCI tools*

- *Build:*

  – *Out of the box support for Jenkins and Hudson*

  – *Improved build, promote and deploy for system Z and IBM I*

- *Jazz.net - find answers faster, more developer focus and value*

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