What's *New* in the Rational® Team Concert™ Client For Microsoft® Visual Studio™ IDE

Sreerupa Sen
(sreerupa.sen@in.ibm.com)

CCM-2221

Innovate2010
The Rational Software Conference

Let's build a smarter planet.

The premiere software and product delivery event.
June 6–10 Orlando, Florida

Disclaimer

- **Disclaimer:** **© Copyright IBM Corporation 2010. All rights reserved. These materials are intended solely to outline our general product direction and should not be relied on in making a purchasing decision. Information pertaining to new product is for informational purposes only, is not a commitment, promise, or legal obligation to deliver any material, code or functionality, and may not be incorporated into any contract. The development, release, and timing of any features or functionality described for our products remains at our sole discretion. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM products. IBM, the IBM logo, Rational, the Rational logo, Telelogic, the Telelogic logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.**

About the Presenter

- Sreerupa Sen, **IBM Rational, Rational® Team Concert™ Client For Microsoft® Visual Studio™ IDE**

Agenda

- What is the Rational® Team Concert™ Client For Microsoft® Visual Studio™ IDE?
- Themes we have been working on, in our recent releases
  - 2.0.0.1
  - 2.0.0.2
  - Upcoming releases
- A quick tour of the Client

Agenda

- What is the Rational® Team Concert™ Client For Microsoft® Visual Studio™ IDE?
- Themes we have been working on, in our recent releases
  - 2.0.0.1
  - 2.0.0.2
  - Upcoming releases
- A quick tour of the Client

What is RTC for Microsoft® Visual Studio™ IDE?

Team Collaboration for .NET Developers

-A Team Collaboration environment for .NET developers.

-Provide source control, work item tracking, build, process & collaboration services

-Leverage and extend the Jazz Platform

A Visual Studio Client Integration

A First Class Integration with Microsoft Visual Studio

to enhance developer productivity

Innovative Software Engineering

Heterogeneity

-A Common Team Collaboration Server infrastructure based on Jazz.

-A Visual Studio Client for .NET developers

-An Eclipse Client for Java developers

-A Web Client for contributors

-Powered by Jazz

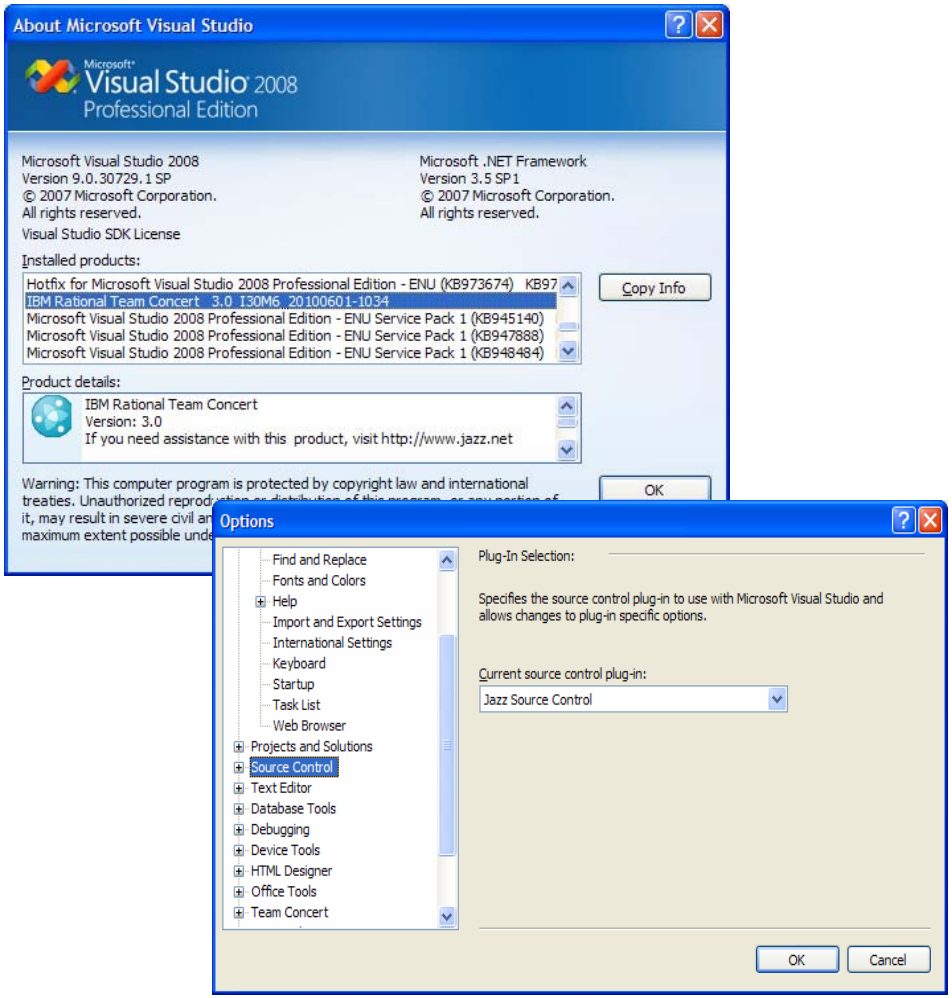
Vision

Brings the Jazz vision to .NET developers :

The value and experience that future Rational products can bring to software and systems delivery teams

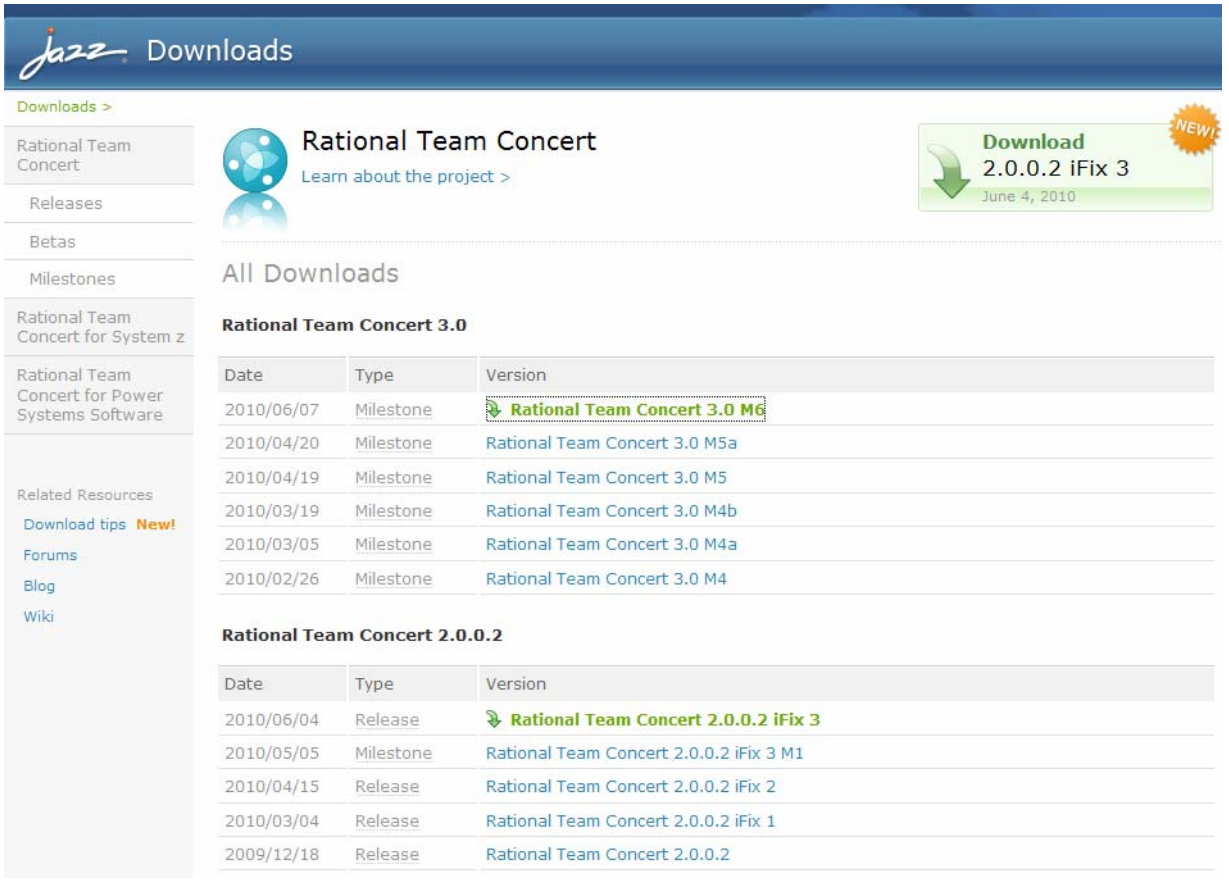
RTC for Microsoft® Visual Studio™ IDE

- **Natively implemented in Visual Studio**
  - **A first class integration into Visual Studio**
- An extension of the Visual Studio IDE
  - Integrates/will integrate into Editors, Properties View, Solution Explorer, Options pages, Toolbars, Menus, Tool Windows, Error View
  - Integrates into Visual Studio as a source control provider
- Supports all flavors of Visual Studio 2010 (from 2.0.0.2 iFix3 onwards), 2008 and 2005
- Developed using WPF - NET 3.5 is the minimum requirement
- Follows Visual Studio international settings



Installs and Downloads

- Installable via IBM Installation Manager
- Downloadable from jazz.net
  - https://jazz.net/downloads/rational-team-concert/milestones
    - https://jazz.net/downloads/rational-team-concert/milestones/3.0M6
  - 2.0.0.2 iFix3 (and other iFix releases), 2.0.0.2, 2.0.0.1, 2.0, 1.0.1.1 …
  - **2.0.0.2 iFix3 was our first release with support for Microsoft® Visual Studio™ 2010**



Agenda

- What is the Rational® Team Concert™ Client For Microsoft® Visual Studio™ IDE?
- Themes we have been working on, in our recent releases
  - 2.0.0.1
  - 2.0.0.2
  - Upcoming releases
- Demo: A quick tour of the Client

Themes for 2.0.x

- **Jazz Product Family (Parity with the Rational Team Concert Client for Eclipse)**
  - Emphasis on Team First
- Visual Studio Integrations

- Our aim was to add features
  - That were at the top of the prioritized list of the user feedback that we'd received
  - That we'd missed the most when we self-hosted.

Noteworthy Features

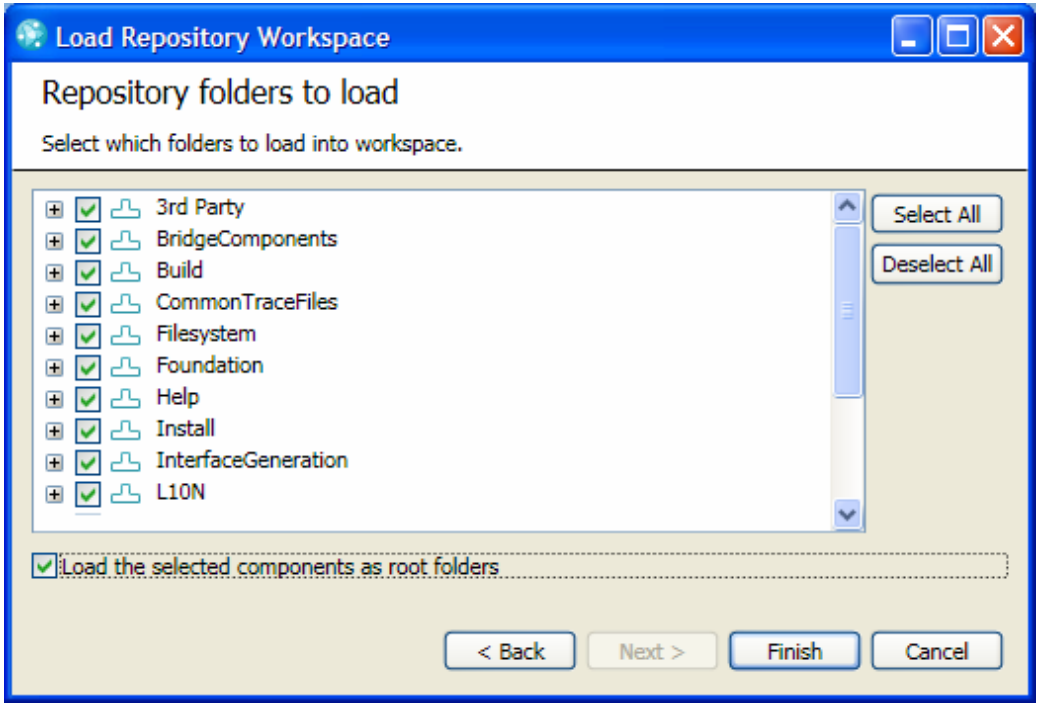
- Parity with Eclipse
  - Flexible Load
  - Work Item History
  - Drag and Drop of Work Items
  - External Compare Editors
  - Feeds
  - Plans
  - Reports

  Team-First
- Native Integrations
  - Integration with Error View

PARITY WITH ECLIPSE

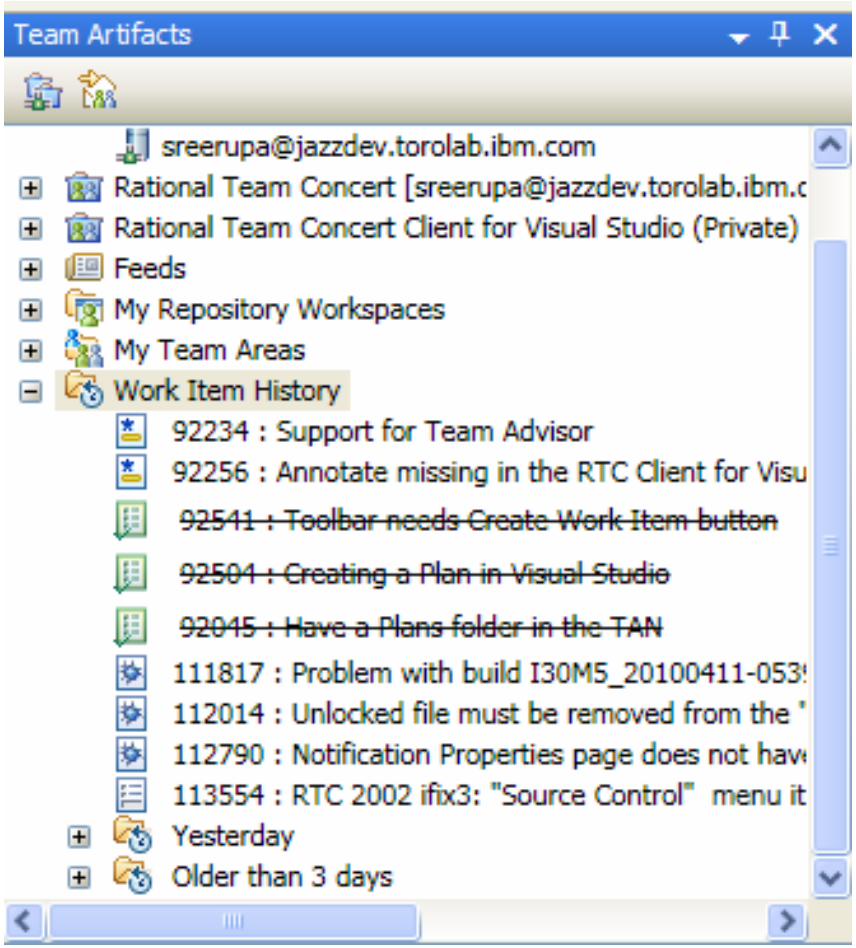
Flexible Load Scenarios

- Useful for users who are migrating from other source control systems such as ClearCase
- You can
  - Load components as root folders
  - Load files and folders (Load As)
  - Load with a different name or path



Work Item History

- Work items are listed in the Team Artifacts Navigator in the order you accessed them
  - You no longer need to remember work items of interest to you, the RTC Client for Visual Studio will remember them instead.

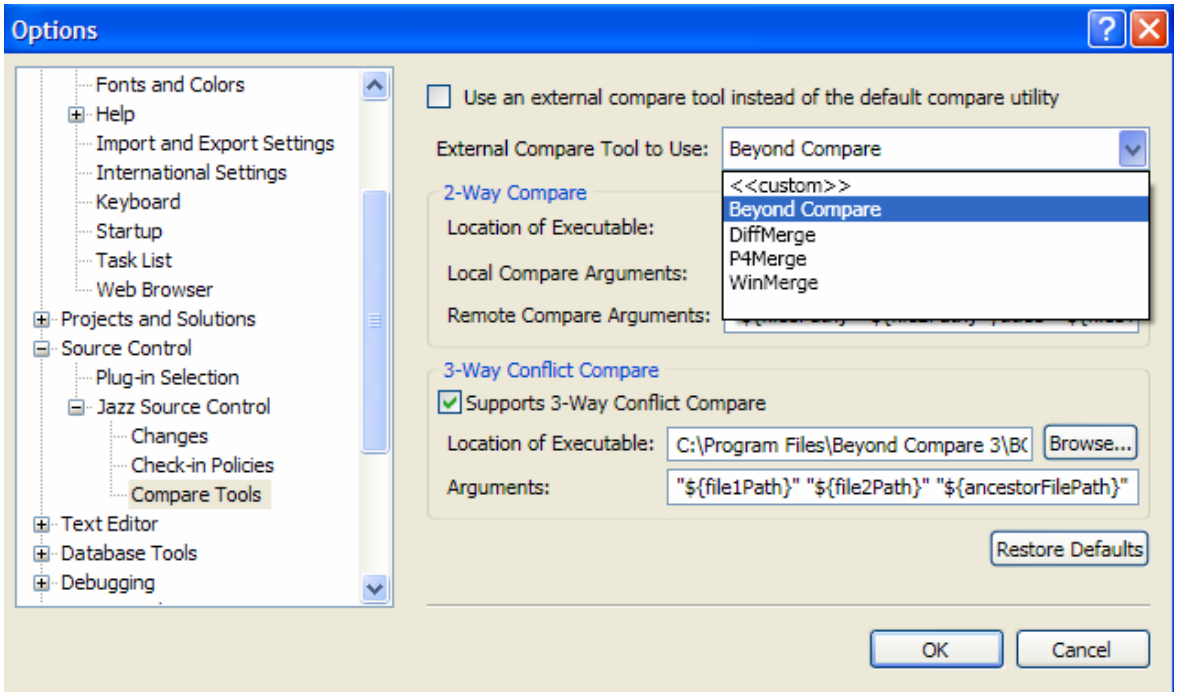


Drag and Drop of Work Items

- You can drag and drop work items on change sets
- Also a way for you to integrate with your email or chat client
  - IBM Lotus Notes
  - IBM Lotus Sametime
  - Google Talk
  - Yahoo Messenger
  - MSN Messenger…

External Compare Editors

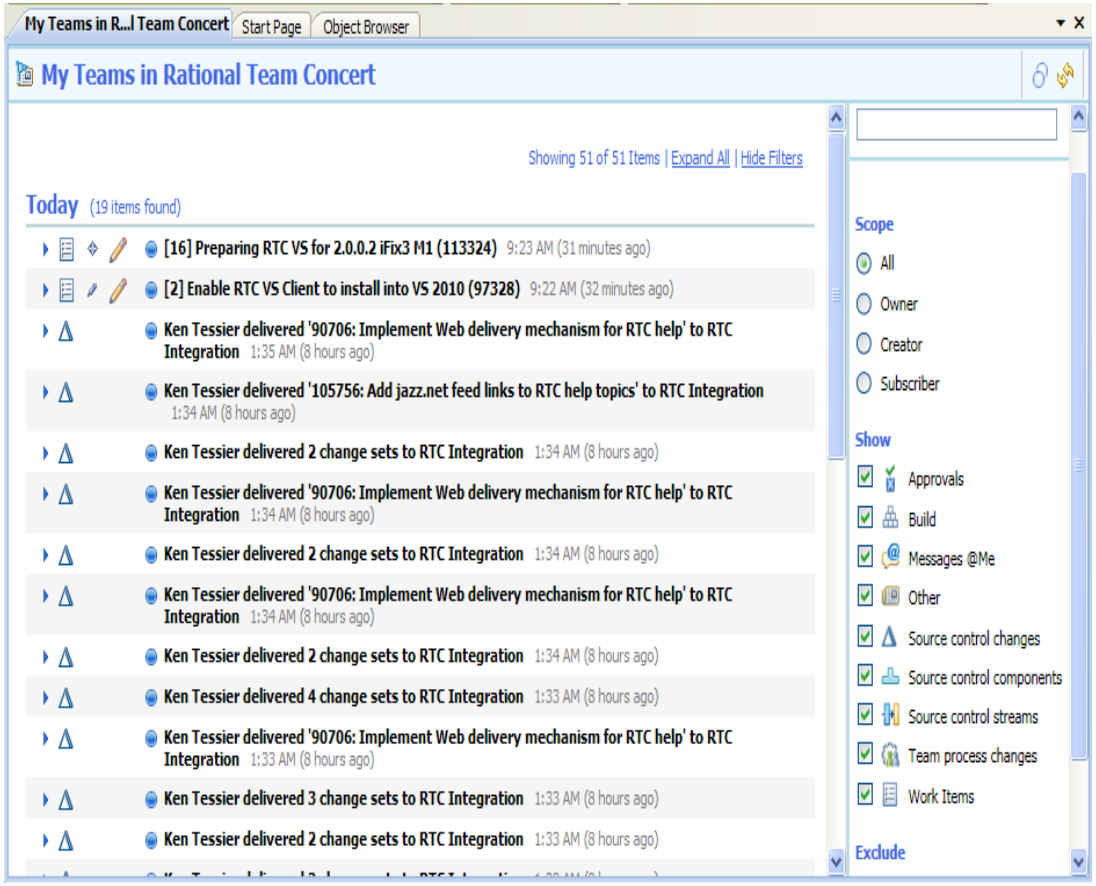
- You can now use a compare editor of your choice for comparing file versions, conflict resolutions, merges.
- We provide configurations for a few popular compare merge tools out of the box.
- You can add your own custom tool as well.
- Especially for Visual Studio developers, using a compare editor of their choice significantly improves ease of use.



TEAM FIRST

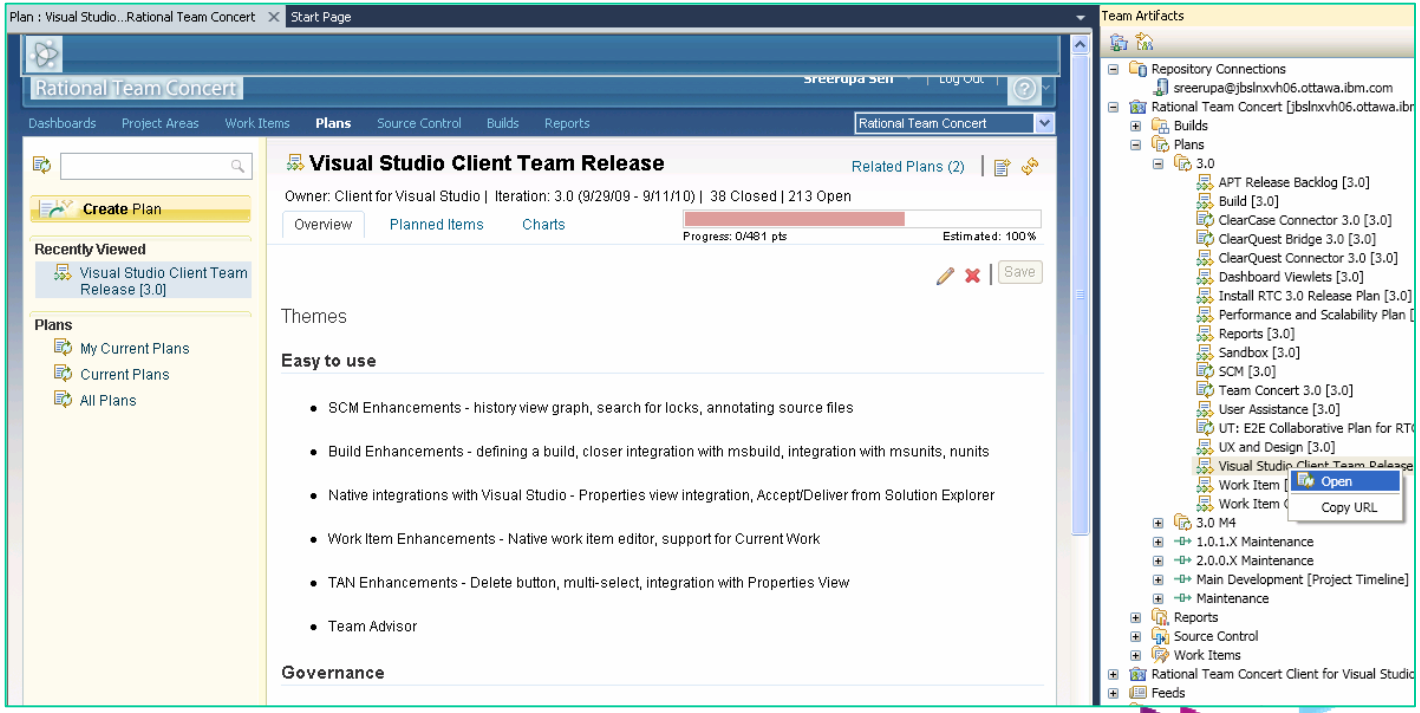
Feeds

- You can subscribe to feeds for
  - Team events
  - Work items
  - Builds
  - Queries
- You can configure your feed subscriptions
- You can participate in work item discussions as you browse feeds



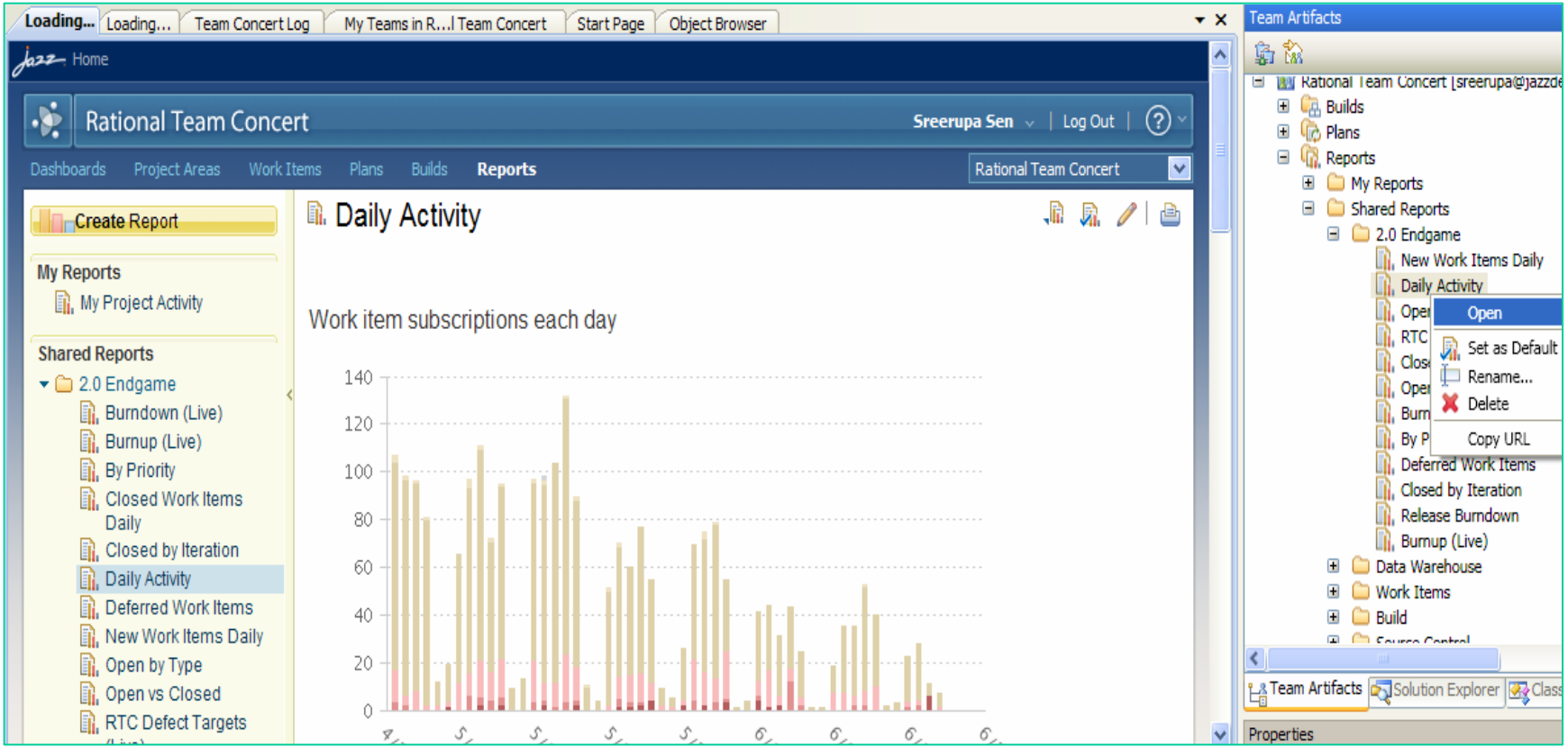
Plans

- You can now use the Visual Studio client for agile planning
  - Browse/edit plans
  - Create new plans
- Agile planning using the Visual Studio client has made our daily scrum meetings more meaningful.



Reports

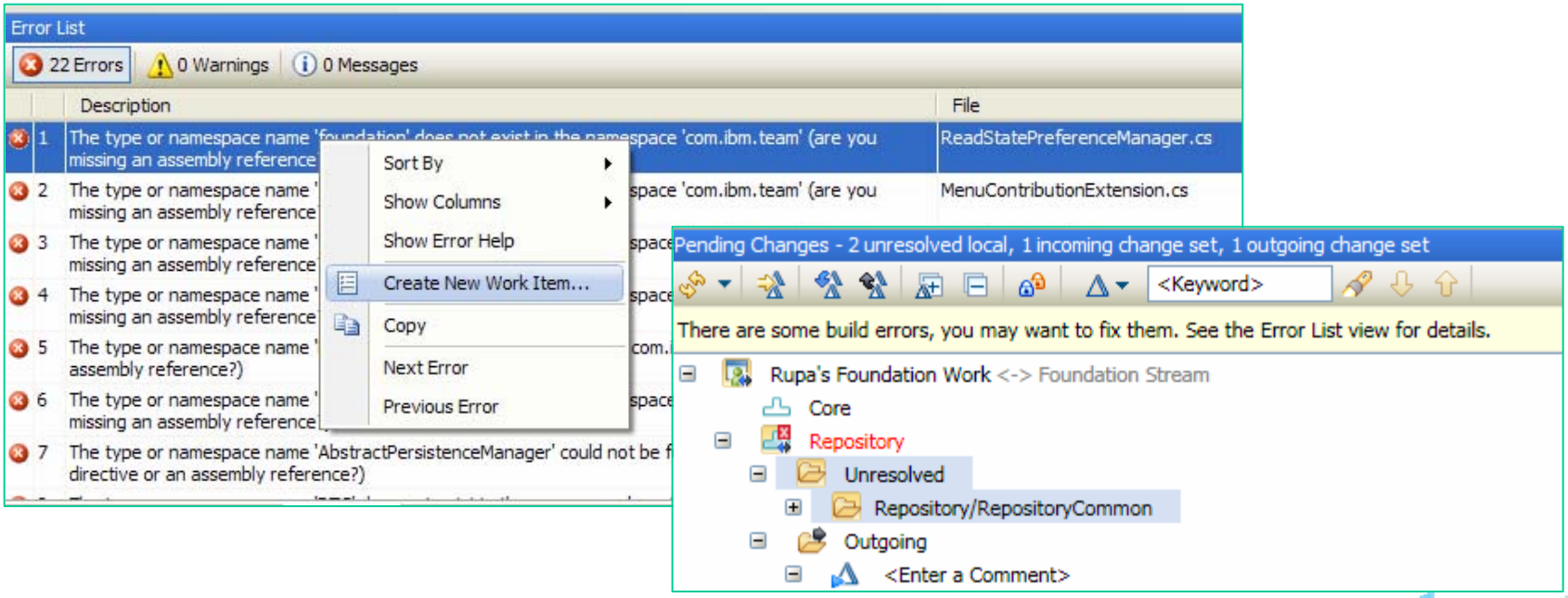
- You can now view/work with your reports from the Team Artifacts Navigator.
- You can create new reports based on the templates that come with RTC.



NATIVE INTEGRATIONS

Integration with the Error View

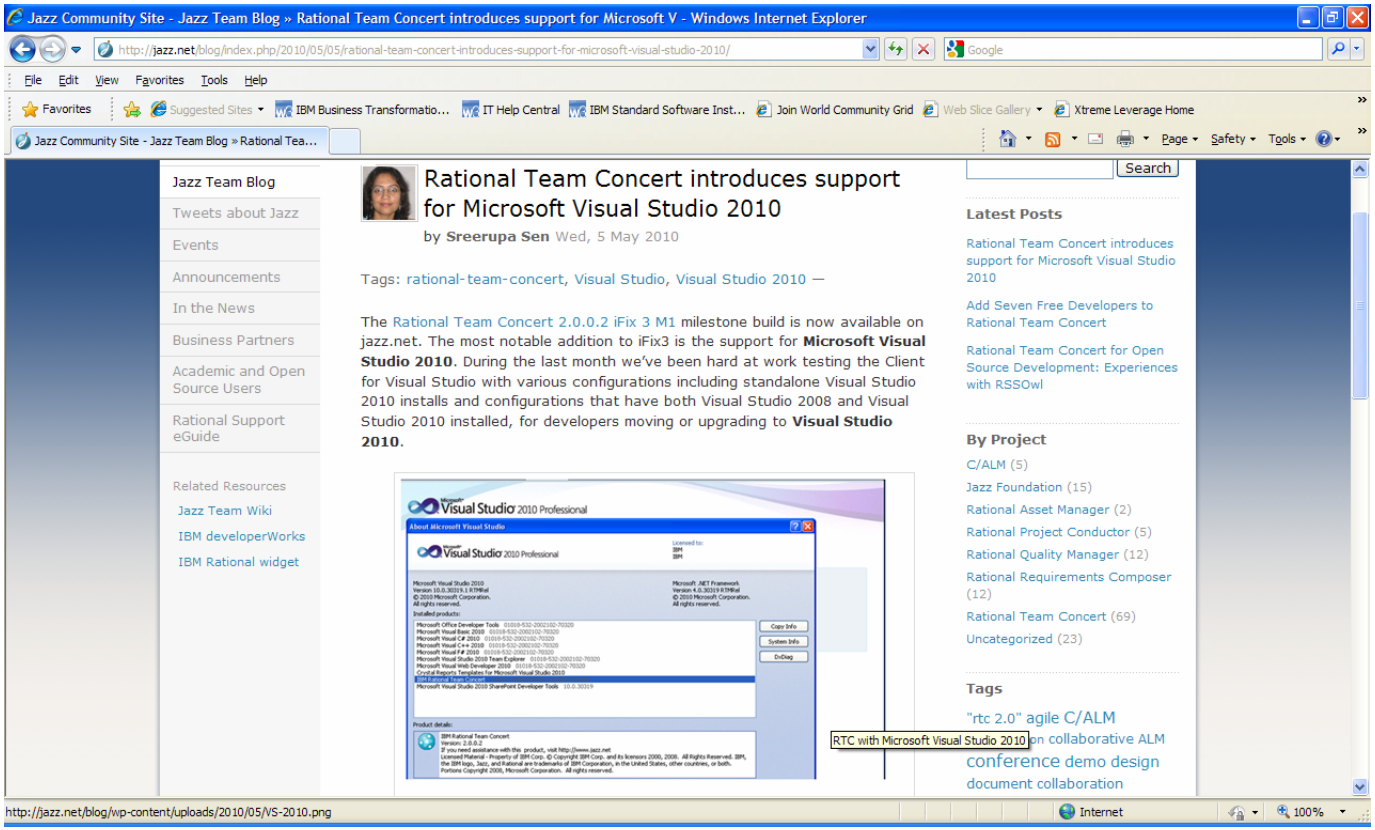
- You can now create work items on build errors
- The Pending Changes view is also sync'ed with the Error View
  - If the user tries to deliver source that have compile errors, the Pending Changes view shows up dilemmas



2.0.0.2 IFIX3: SUPPORT FOR MICROSOFT® VISUAL STUDIO™ 2010

Supporting Microsoft® Visual Studio™ 2010

- With 2.0.0.2 iFix3 RTC integrates with **Microsoft® Visual Studio™ 2010**
- You can download the 2.0.0.2 iFix3 client from https://jazz.net/downloads/rational-team-concert/releases/2.0.0.2iFix3



The RTC 4Q10 Plan

- Here's the overview of our plan for the next version of the Visual Studio Client
- Note that for this release, the emphasis is on
  - Native integrations
  - Ease of use
  - Team awareness
  - Client side process configuration
  - Better error reporting
- By 2.0.0.2 we built a feature-rich client, now our emphasis is on improving the user experience

Visual Studio Client Team Release

Owner: Client for Visual Studio | Iteration: 3.0 (9/29/09 - 9/11/10) | 42 Closed | 259 Open

Themes

Easy to use

- SCM Enhancements
  - History view graph
  - Annotating source files
  - Native stream/workspace editor,
  - Sandbox explorer
  - Search for locks
- Build Enhancements
  - Out-of-the-box templates for msbuild, Visual Studio Builds
  - Integration with msunits, nunits
- Native integrations with Visual Studio
  - Properties view integration
- Work Item Enhancements
  - Native work item editor
  - Support for Current Work
- TAN Enhancements
  - Multi-select
  - Integration with Properties View

Team First

- Team Advisor
- Notifications

Governance

- Integrations with static analysis/code review tools such as FxCop, AppScan etc
- Component and workspace access control

Collaborative ALM

Wish list from Users

- Native work item editor
- More “advices”, less error dialogs
- Working with files and folders outside of the solution hierarchy
- Friendlier error reporting
- More team awareness
- Jazz product family: Current work, annotations, merge graphs…

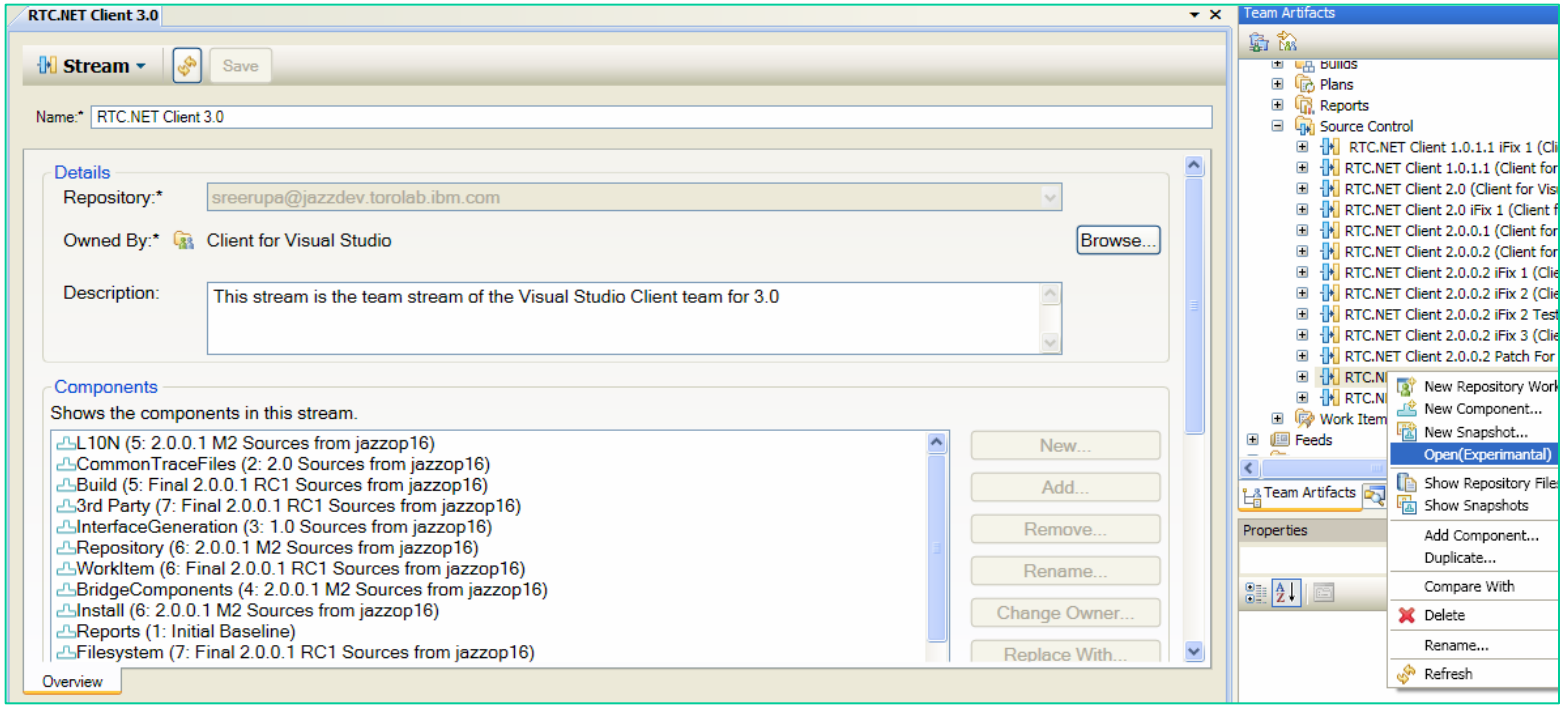
Goals

- Richer in-shell experience
- Ease of use for the Visual Studio user
- Better integration with the Jazz Platform
- Greater team awareness
- Support for Visual Studio 2010, 2008 and 2005

NATIVE INTEGRATIONS

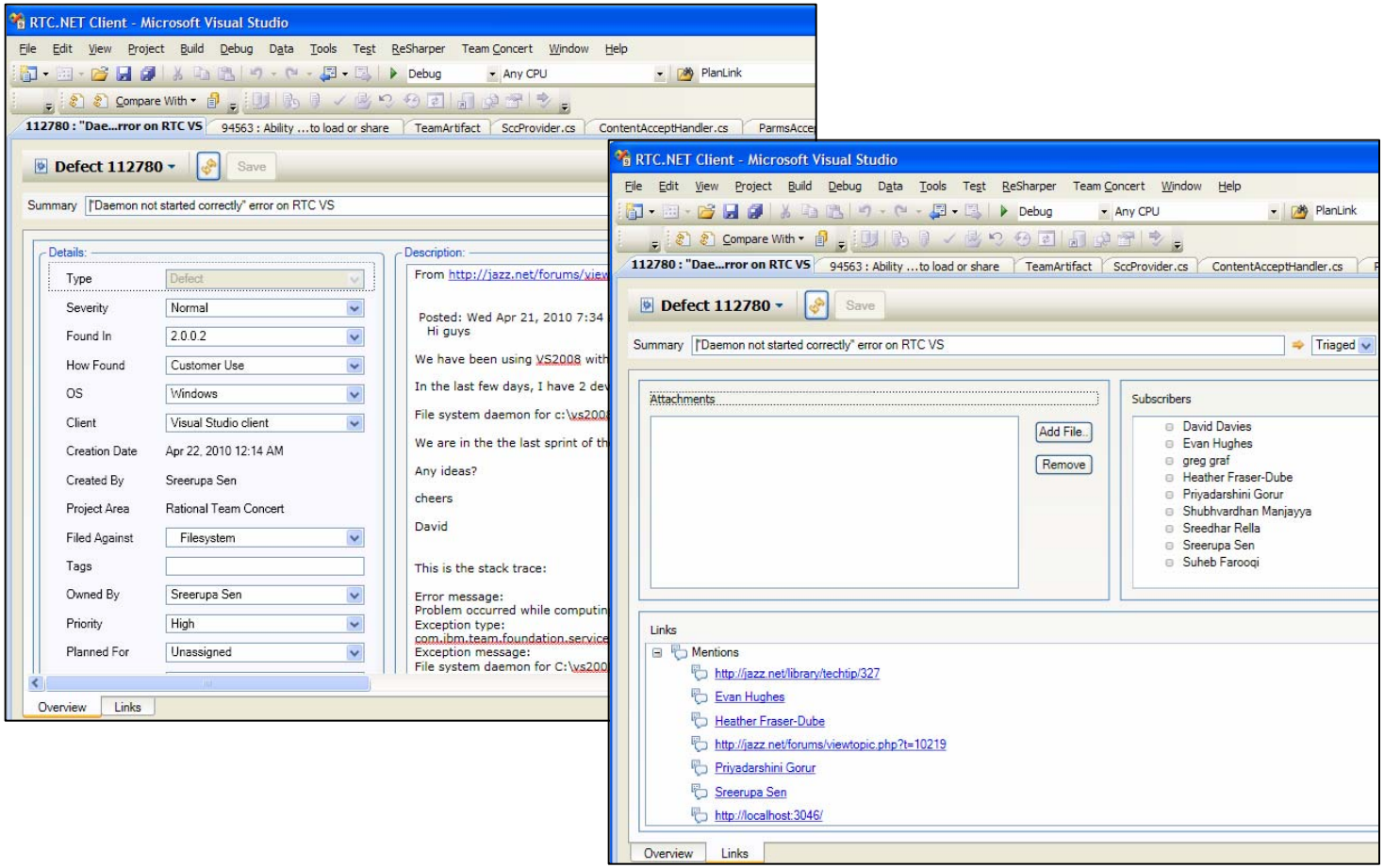
Native Editors (Stream/workspace/work items)

- An important goal for the Visual Studio Client will be to provide rich native editors
  - Work item, Stream, Repository Workspace
- Extends the Editor Framework of Visual Studio.
- Has a native look and feel.



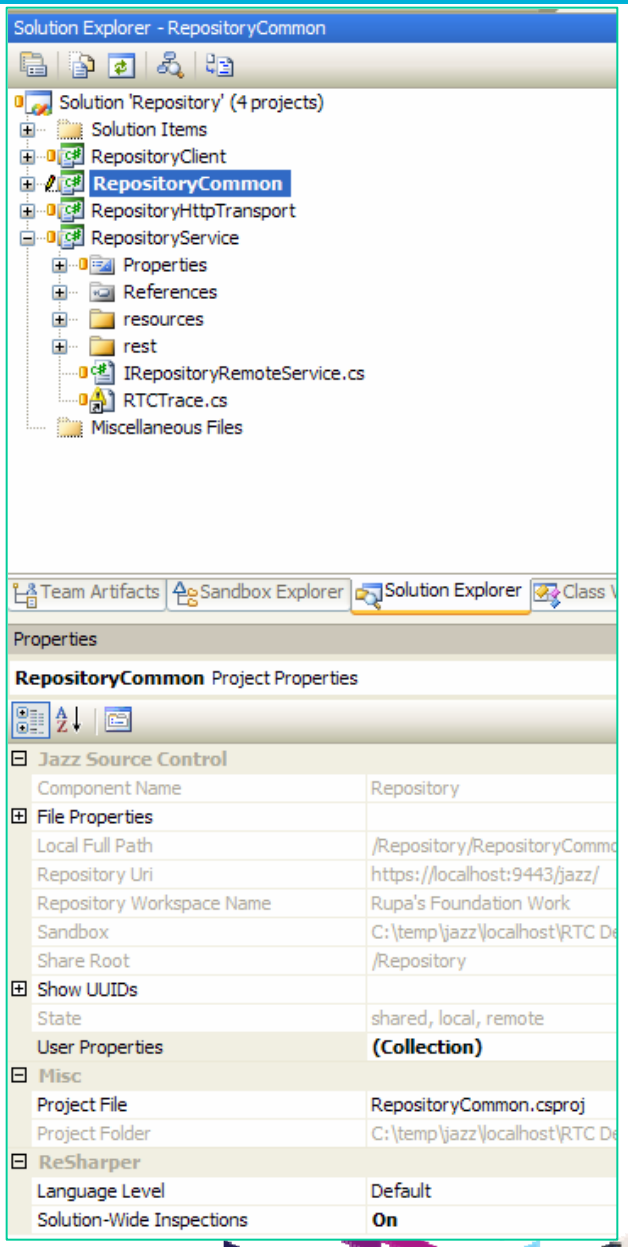
Work Item Editor

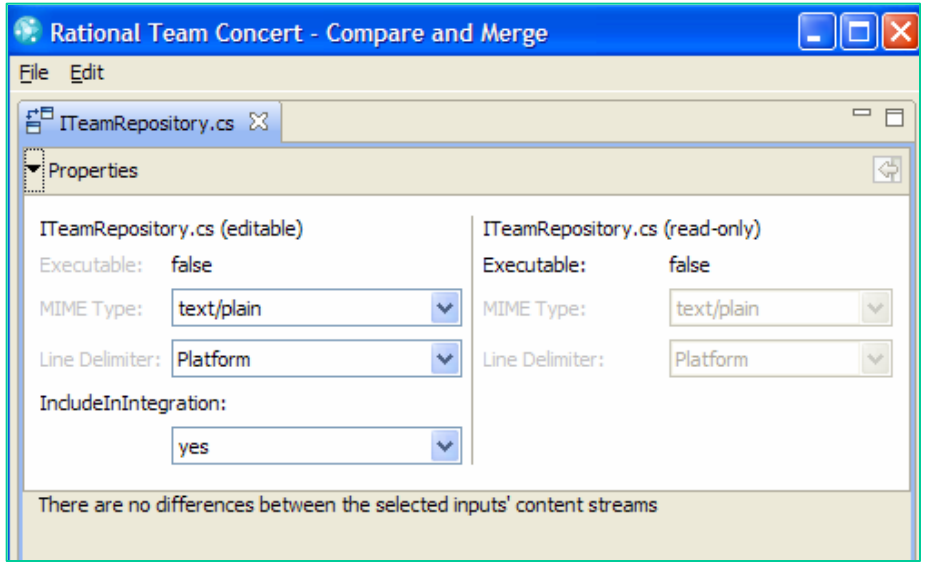
- We plan to have a rich native editor for work items
  - Will support most of the common use cases



Integration with File/Folder Properties

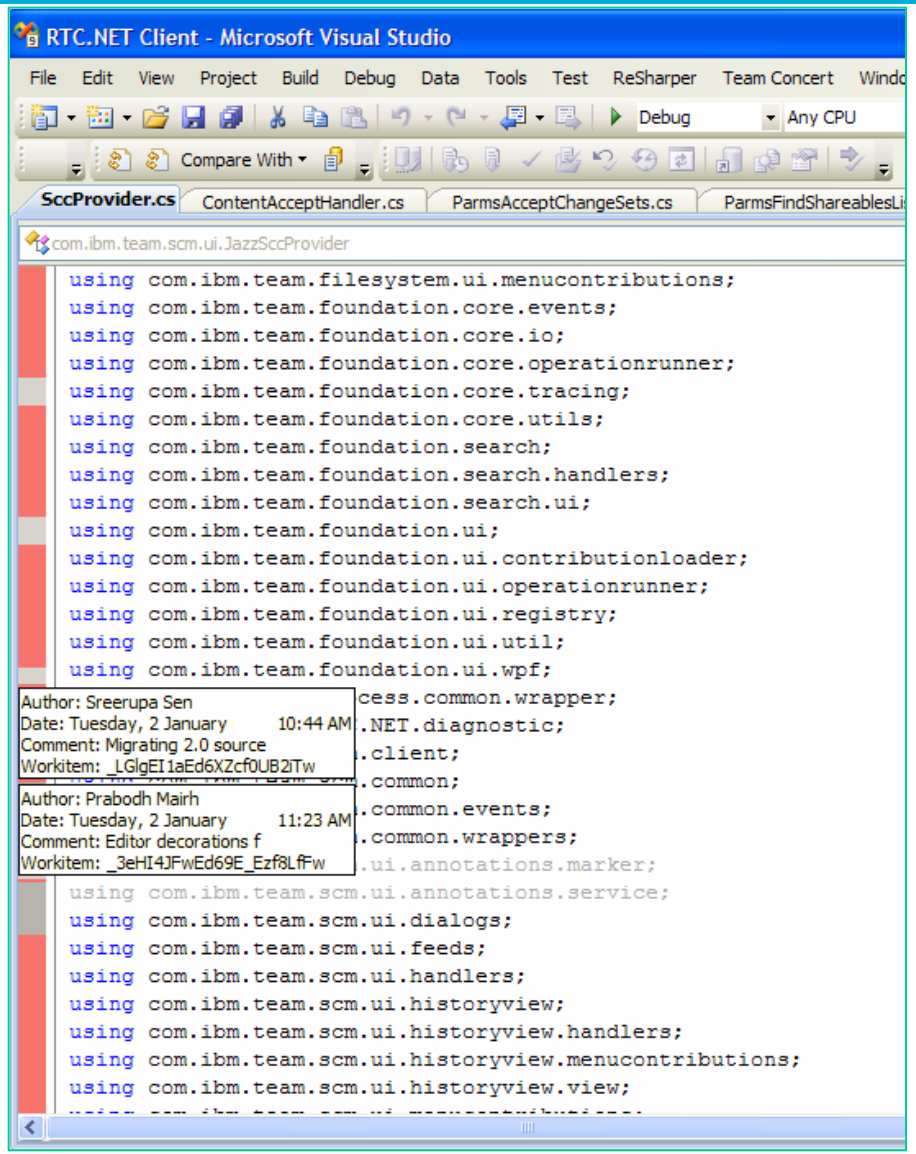
- You can now view RTC/Jazz specific properties in the Properties View for a file.
- Edit RTC/Jazz specific Properties
- Version and compare properties





File Annotations

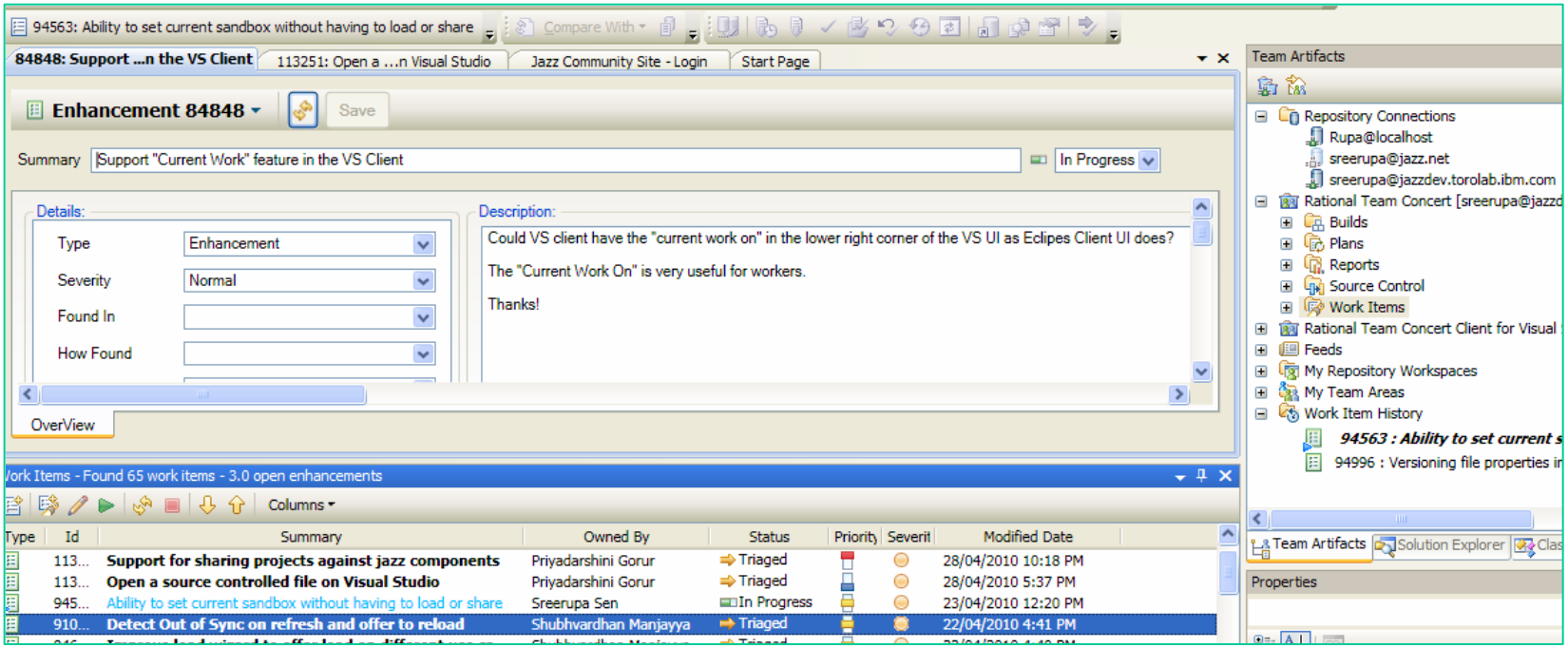
- Will let you figure out who modified a particular line in a source file
  - Change set comment
  - Work items
  - Modification date and time
- Jokingly referred to as ‘Blame’!



EASE OF USE

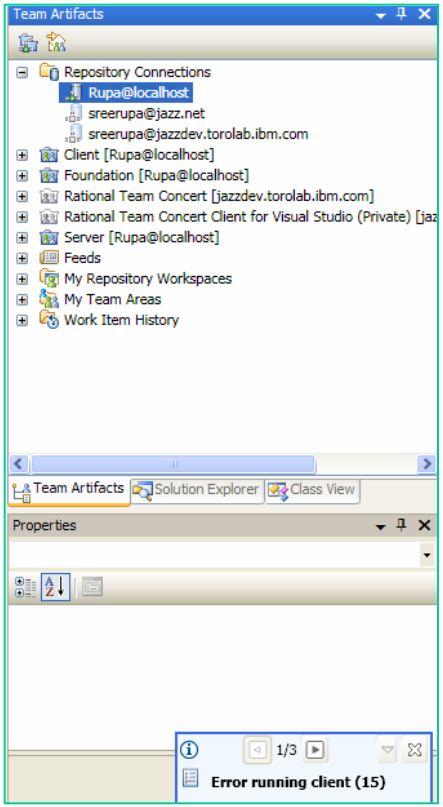
Current Work Item

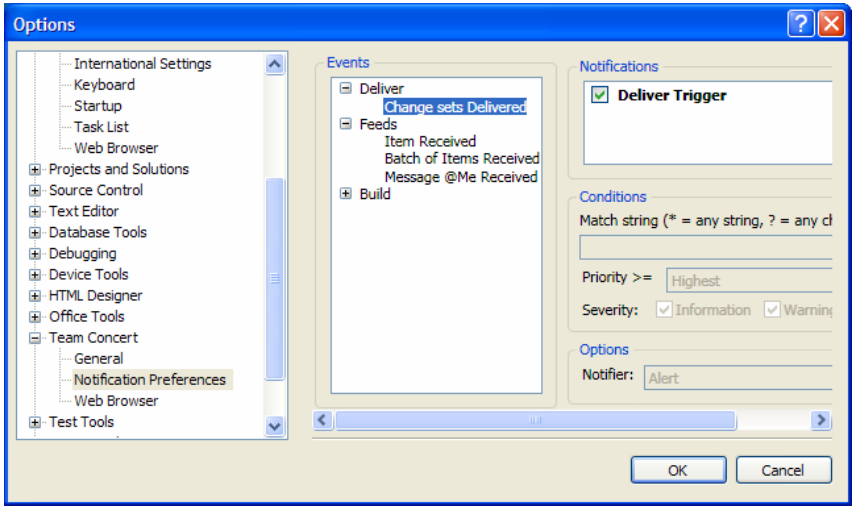
- A current work item is the “Active” work item for your Visual Studio session.
- Your current change set will be associated automatically with this work item
- The current work item shows up in the RTC tool bar and the status bar of the Work Items tool window.



Notifications

- Pop-up notifications are available as instant alerts while you work.
  - Work items
  - Build events
  - Change set delivers
- You can configure notification alerts via Tools->Options

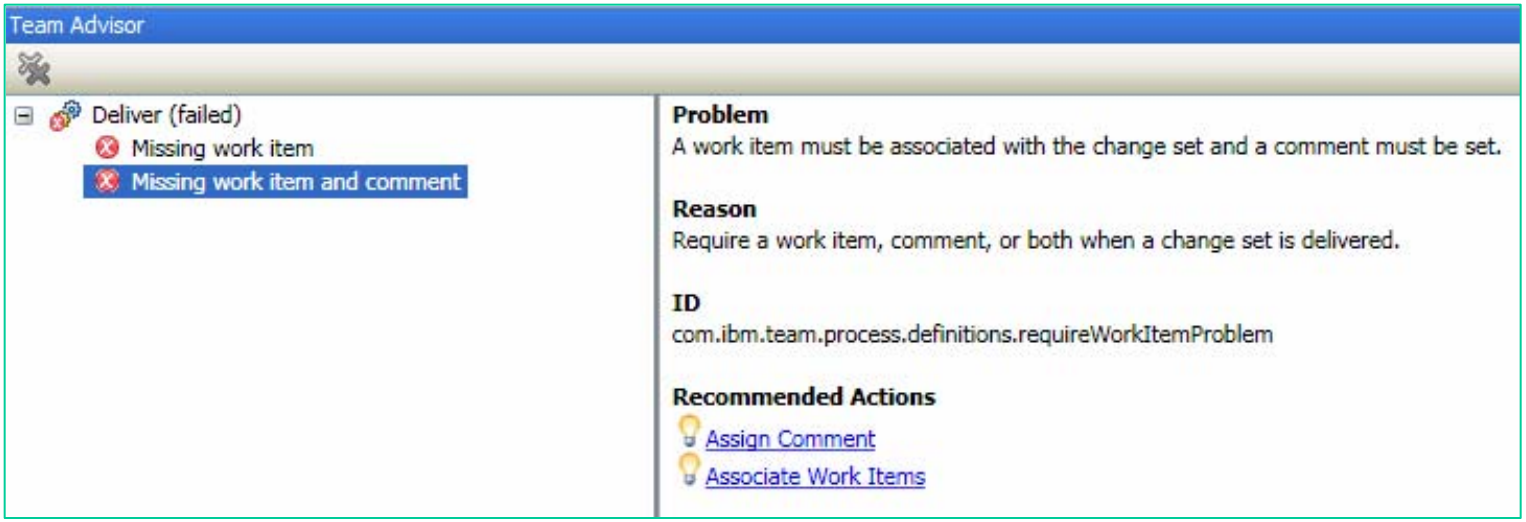




TEAM AWARENESS / PROCESS AWARENESS

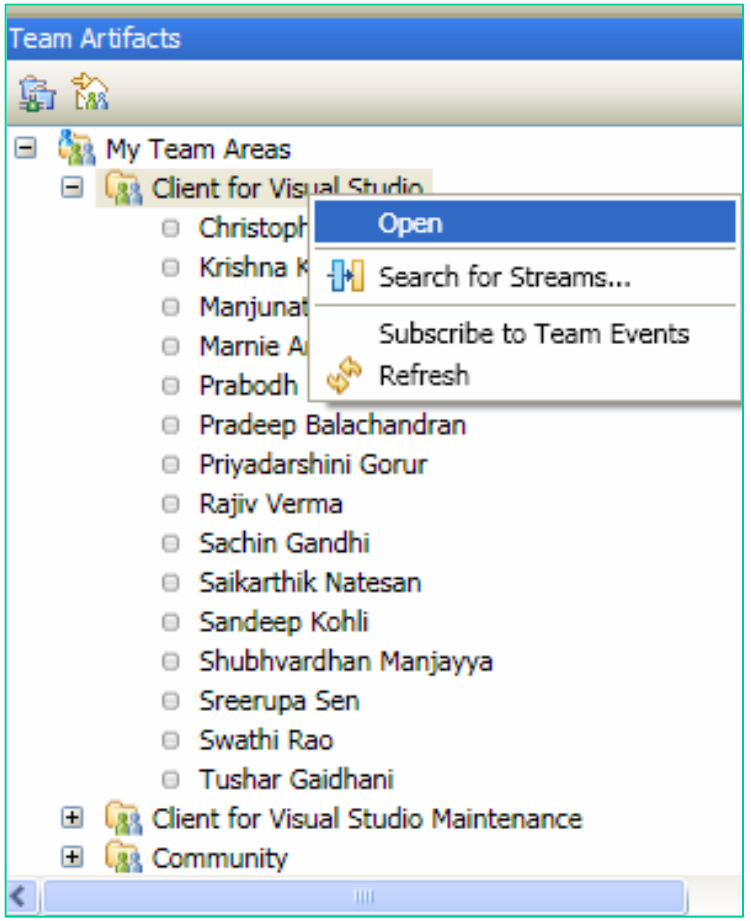
Team Advisor

- The RTC Client for Visual Studio now has closer links to your team's process.
- Process related errors are surfaced via "Team Advisor" instead of error pop-ups.
- Errors are accompanied by
  - The reason behind the error
  - Often links for actions to fix the error



Team Areas

- The Visual Studio Client has now made your teams more visible by the Team Areas node in the Team Artifacts Navigator
- You can browse your teams and look up your team members, subscribe to team events, search for streams and repository workspaces and so on.



RICHER SCM

Rich History View

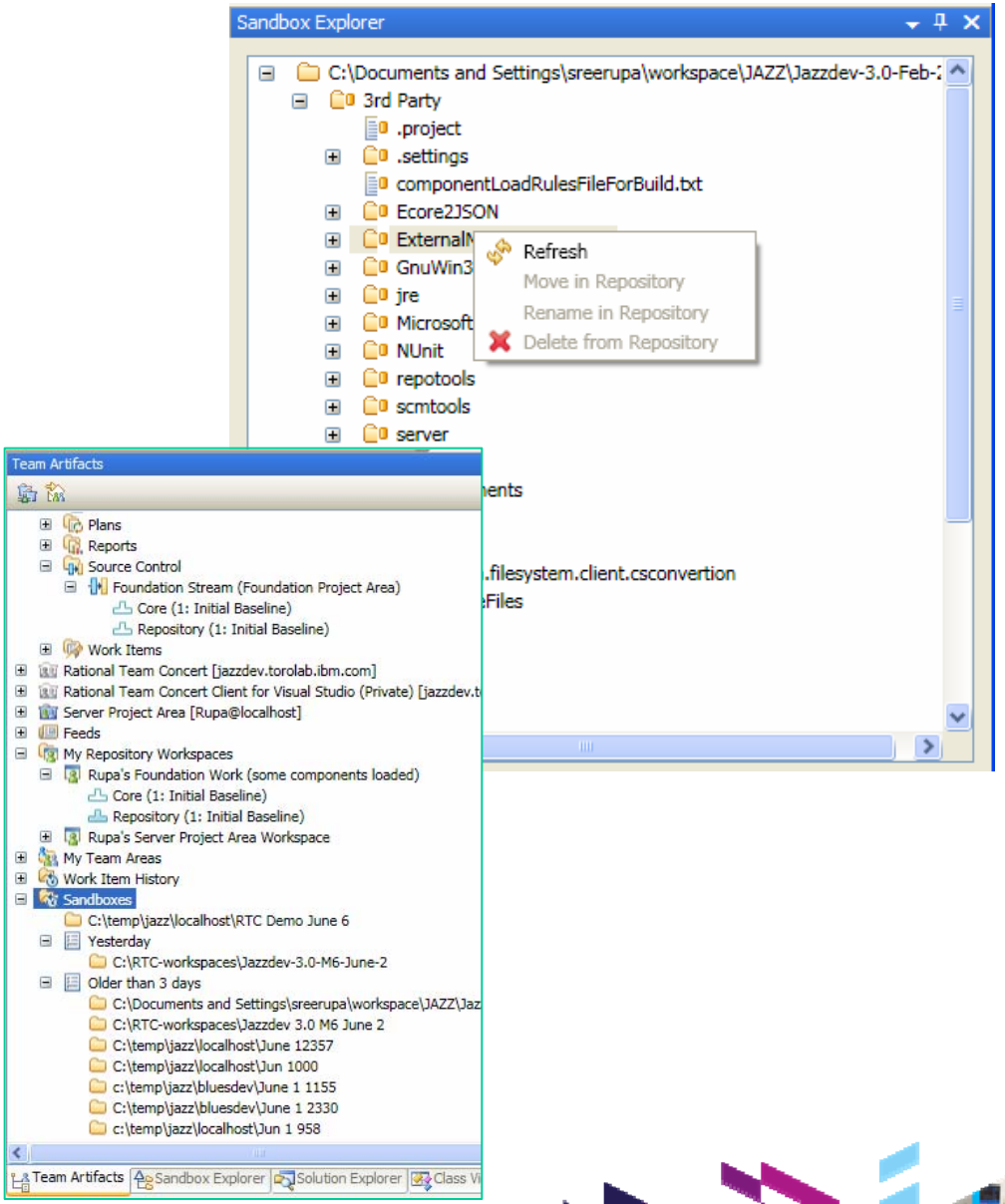
- We plan on having a richer history view that shows merge graphs.

History - 'FilesystemClient.cs' in workspace 'Priya's RTC.NET Client 2.0.0.1 Workspace' (40 entries)

Merges	Comment	Creator	Date Created
	94563: Ability to set current sandbox without having to load or share - Adding the Explore option	Sreerupa Sen	5/5/2010 11:43 AM
	94563: Ability to set current sandbox without having to load or share - Setting the current sandbox	Sreerupa Sen	4/26/2010 6:14 PM
	112329: Create a new stream via the editor - Creating a new stream	Sreerupa Sen	4/16/2010 11:20 AM
	91013: Search for locks in the Visual Studio Client	Krishna Kishore	3/23/2010 2:14 PM
	106651: Create a Workspace/Stream Editor	Sreerupa Sen	3/18/2010 11:21 PM
	92256: Annotate missing in the RTC Client for Visual Studio - Testcase for annotation	Prabodh Mairh	3/18/2010 12:47 PM
	106651: Create a Workspace/Stream Editor - Add methods to the FileSystemClient to fetch a bunch of workspace details at one sho	Sreerupa Sen	3/15/2010 11:38 PM
	108863: Update to new DTOs interfaces, daemon and server post 3.0 M4 - Updated DTOs and interfaces	Sreerupa Sen	3/13/2010 12:09 AM
	106651: Create a Workspace/Stream Editor - Work in progress: stream/workspace editor	Sreerupa Sen	3/11/2010 6:09 PM
	106651: Create a Workspace/Stream Editor - Saving edits for workspace/stream	Sreerupa Sen	3/10/2010 6:22 PM
	106651: Create a Workspace/Stream Editor - Refactoring code to use exising methods in the edit mode	Sreerupa Sen	3/8/2010 4:44 PM
	106651: Create a Workspace/Stream Editor - Stream/workspace specific field layout	Sreerupa Sen	3/3/2010 12:44 PM
	102233: Editor Framework in the VS Client - Work in progress: stream/workspace editor	Sreerupa Sen	2/23/2010 11:04 PM
	106420: Move Check-in Options to a new page.	Priyadarshini Gorur	2/19/2010 6:38 PM
	106117: Add the Concurrent threads option to the source control page	Priyadarshini Gorur	2/15/2010 12:29 PM
	102964: Bug with checkin when there are multiple workspaces are loaded with same components - Fixing test failure, caused by typ	Rajiv Verma	1/18/2010 1:52 PM
	102964: Bug with checkin when there are multiple workspaces are loaded with same components	Rajiv Verma	1/13/2010 7:04 PM
	100180: Minimize usage of IFilesystemRestService.getChangeSet	Priyadarshini Gorur	12/2/2009 11:48 AM
	100180: Minimize usage of IFilesystemRestService.getChangeSet	Priyadarshini Gorur	11/24/2009 6:07 PM
	97990: Pending changes doesn't track changes in component folders	Priyadarshini Gorur	11/23/2009 2:58 PM
	97990: Pending changes doesn't track changes in component folders	Priyadarshini Gorur	11/20/2009 4:38 PM
	98436: Open local file, compare with local fail after loading Component as root folder using Load As - use getFindShareables	Priyadarshini Gorur	11/17/2009 4:50 PM
	99460: Problem opening changeSets with SymLinks in CE - fixed issues with CE	Krishna Kishore	11/16/2009 1:28 PM
	98391: When non-atomic commit is enabled, check in failing	Rajiv Verma	11/10/2009 6:00 PM
	98391: When non-atomic commit is enabled, check in failing	Rajiv Verma	11/9/2009 1:27 PM
	86353: Post 2.0 some code probably can be refactored with IFilesystemRestClient.getSandboxPaths - Setting the includeNonRegiste	Sreerupa Sen	11/4/2009 12:53 AM
	86353: Post 2.0 some code probably can be refactored with IFilesystemRestClient.getSandboxPaths - Created the GetCopyFileAreaN	Sreerupa Sen	11/1/2009 9:04 PM
	97072: Preference page & Checkin support for a limit allowing a non-atomic commit	Rajiv Verma	10/29/2009 9:48 PM
	91534: Implement load for files in VS client - display target path	Priyadarshini Gorur	10/29/2009 4:13 PM
	91534: Implement load for files in VS client - work in progress	Priyadarshini Gorur	10/21/2009 5:30 PM
	96188: (VS) Adopt IFileSystemRestClient changes	Rajiv Verma	10/20/2009 7:04 PM
	96188: (VS) Adopt IFileSystemRestClient changes	Rajiv Verma	10/20/2009 4:45 PM
	90958: Would like a "Load As" function in the VS client, as is provided in the Eclipse client - test first	Priyadarshini Gorur	10/19/2009 3:17 PM
	94047: Notification thread already started error after sandbox migration - reset current sandbox after repair	Priyadarshini Gorur	9/10/2009 6:24 PM
	94047: Notification thread already started error after sandbox migration - Reversing changes for 94047 - they didn't help the migrat	Sreerupa Sen	9/10/2009 4:54 PM

Sandbox Explorer

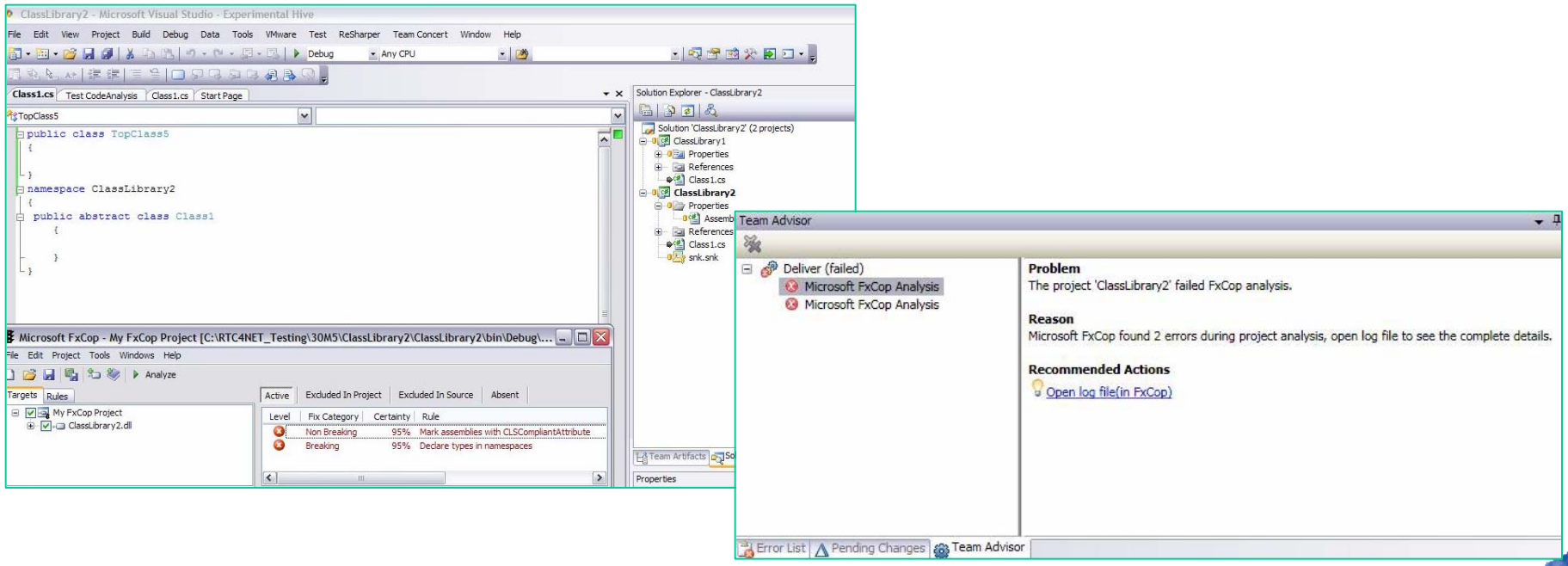
- The Visual Studio Client will remember your recent sandboxes in the order that you used them.
- This will let you work directly with the files and folders in your sandbox, that may or may not be a part of your solution hierarchy.
- This will open up new ways of mapping your .NET source code to Jazz components



TOOLS INTEGRATIONS

Integration with Static Analysis Tools

- Our plan is to integrate RTC for Visual Studio with popular static analysis tools such as FxCop.
  - Running such tools would be mandated by the team's process
  - In case of errors, the team advisor view provides guidance on what went wrong.

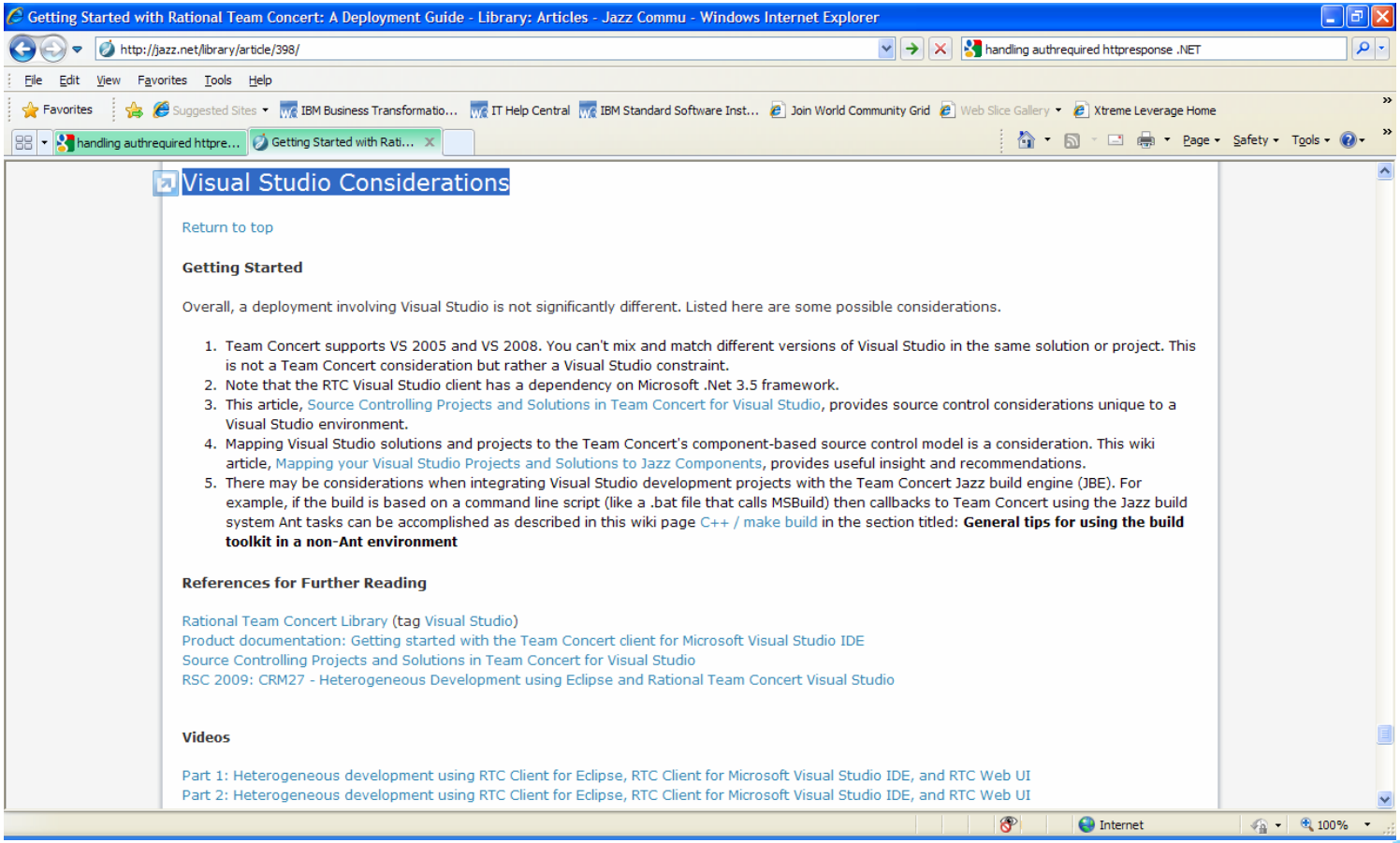


Your Favorite Missing Feature

- ???

Where do I find more information?

The RTC Deployment Guide at http://jazz.net/library/article/398/



How do I give feedback/ask questions?

- jazz.net forums
- Work Items

DEMO

Questions

Daily iPod touch giveaway

SPONSORED BY

AllianceTech
Intelligent EVENTS

- Complete your session surveys online each day at a conference kiosk or on your Innovate 2010 Portal!
- Each day that you complete all of that day's session surveys, your name will be entered to win the daily IPOD touch!
- On Wednesday be sure to complete your full conference evaluation to receive your free conference t-shirt!

www.ibm.com/software/rational

© Copyright IBM Corporation 2010. All rights reserved. The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. IBM, the IBM logo, Rational, the Rational logo, Telelogic, the Telelogic logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.