



IBM Software Group

The Rational Team Concert Client for Microsoft® Visual Studio™ IDE: Beyond 2.0

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Rational. software



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
- Powered by Jazz



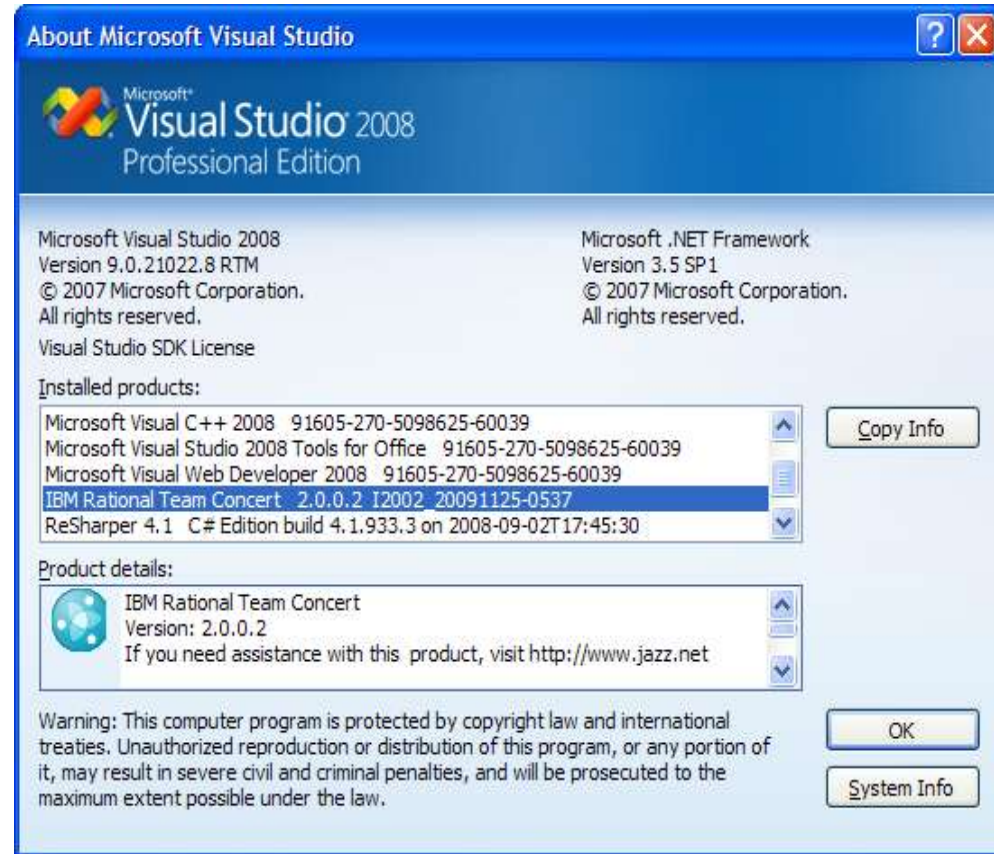
Vision

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

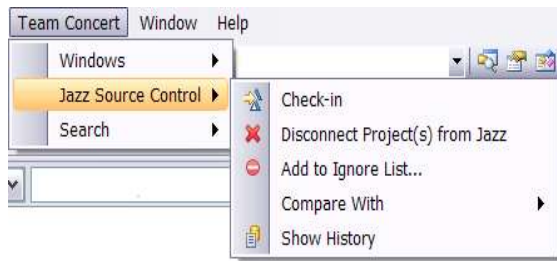
- **Natively implemented in Visual Studio**
 - ▶ **A first class integration into Visual Studio**
- An extension of the Visual Studio IDE
 - ▶ Integrates into Solution Explorer, Options pages, Toolbars, Menus, Tool Windows
 - ▶ Integrates into Visual Studio as a source control provider
 - ▶ Integrated Help
- Supports Visual Studio 2005 and 2008
 - 2.0.0.2 being tested against Visual Studio 2010 Beta 2
- Developed using WPF
- **The first Jazz client written in C#**
- Follows Visual Studio international settings



RTC Visual Studio™ 2.0 at a glance

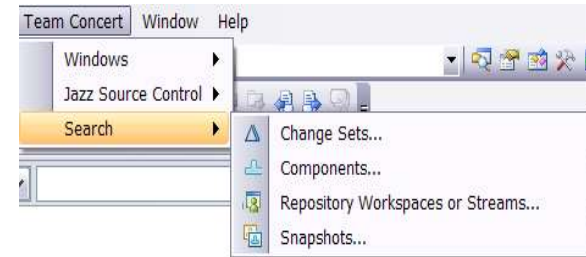
Visual Studio IDE extended with Jazz/RTC capabilities for

- ▶ Artifacts management
 - Repository connections, Project areas, streams, workspaces, components
- ▶ Work items management
- ▶ Build management



▶ Source control management

- ▶ Repository search
 - Change sets, components, streams and workspaces, snapshots



Beyond 2.0: New & Noteworthy in 2.0.0.1

- Feeds
- File locking
- Planning
- Integrating Pending Changes with the Error List
- Richer Work Items Editor
- Richer integration with the Web UI
- Usability Improvements



Feeds

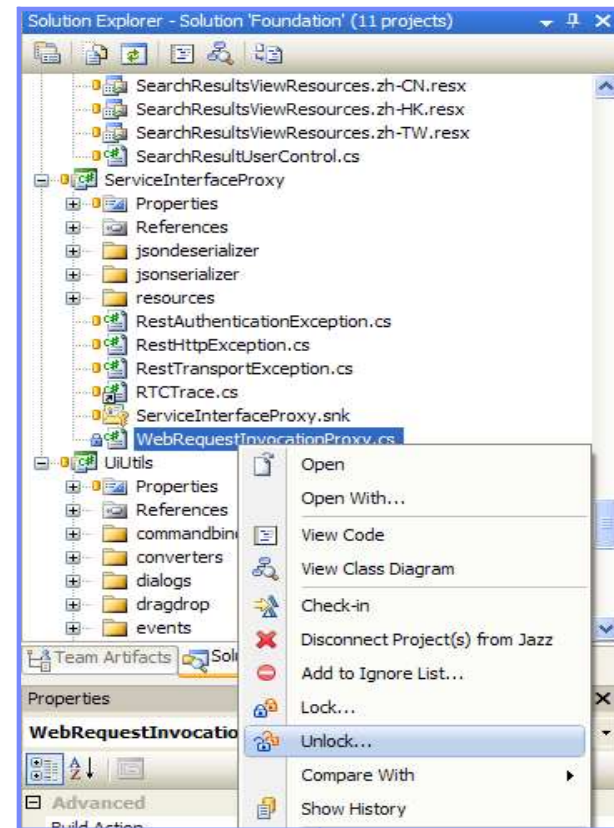
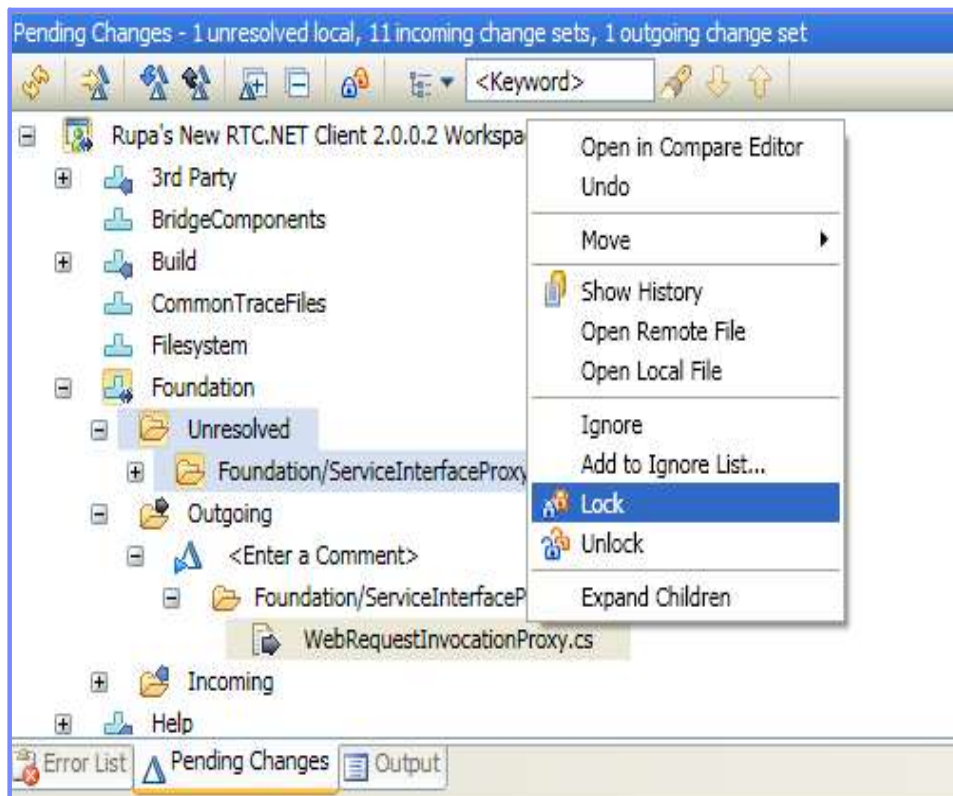
- You can now keep in sync with your team via feeds
- Sign up for feeds on your work item changes, build events, team events, queries...
- Customize your feeds - editable Feeds Properties

The screenshot shows the Microsoft Visual Studio interface with the 'My Work Item Changes' feed displayed in the Team Artifacts window. The feed is titled 'My Work Item Changes' and shows 49 items. The items are categorized by time: Today (3 items found), Yesterday (7 items found), and Earlier this Week (39 items found). The 'Today' section includes items like '[8] Error while Upgrade of VS client (100403)' and '[3] Change the Plans Subtree in the VS Client to look like the Eclipse one (100442)'. The 'Yesterday' section includes items like 'track iteration 2.0.0.2 RC2 (100031)' and '[2] Track rtc.200x.integration - 2.0.0.2 (week of Nov 23, 2009) (100070)'. The 'Earlier this Week' section includes items like 'System.OutOfMemoryException while refreshing Pending Changes (99321)' and 'Builds no longer include CLI bits (100311)'. The right-hand side of the window shows the 'Team Artifacts' tree with 'Feeds' expanded, and a 'Show' section with various options checked, such as 'Approvals', 'Build', 'Messages @Me', 'Other', 'Source control changes', 'Source control components', 'Source control streams', 'Team process changes', and 'Work Items'. There is also an 'Exclude' section with 'Modified by me' and 'News older than 1 day' options.



File Locking

- You can lock file(s) in a stream via Pending Changes and Solution Explorer



Planning

- You can plan your iterations from within the RTC Client for Visual Studio.
- You can create new plans or work with existing plans.

The screenshot shows the Visual Studio Client interface within Microsoft Visual Studio. The main window is titled 'Visual Studio Client' and displays a 'High Level Plan Items' list. The list includes the following items:

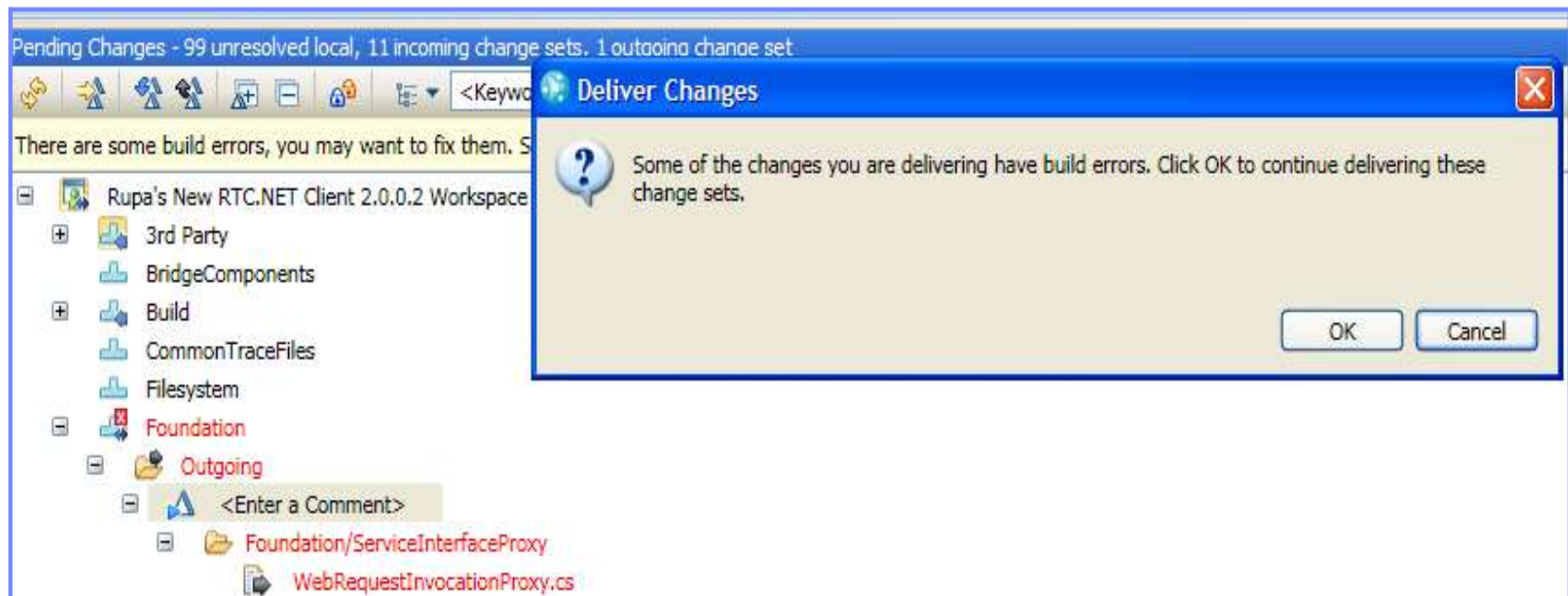
- Feeds support
- Getting the mandatory attributes in the work item creation dialog from the repository. They're hard coded right now. This'll let us support mandatory custom attributes during work item creation and make the dialog somewhat process aware.
- Support for tagging builds
 - Dependencies
 - Allow updating tags via REST service and web UI (83742)
- Support for assigning work items to builds
 - Dependencies
 - Ability to assign a work item to a build result in VS client (85141)
- Support for opening multiple solutions from within a sandbox in multiple Visual Studio instances
 - Dependencies
 - Show keys on 'scm daemon start <cf>' conflict (87887)
- Bulk edit support for work item status
 - Dependencies:
 - Need a REST API for bulk-editing status of work items (88009) - We need more information on this one.
- Important fixes we are waiting for
 - Exception thrown on manual refresh for non-logged in repository (92930)
 - com.ibm.team.filesystem.rest.client.locks.StreamLockReportDTO should include repository information (93112)
- Have a Plans folder in the TAN, that brings up the plans in an embedded web ui similar to work items. A common gripe that users have is that we have no planning support in VS. This would be an inexpensive way of letting them plan without getting out of VS.

The right-hand side of the screenshot shows a 'Team Artifacts' tree view with a hierarchy of plans and builds. The tree structure is as follows:

- Repository Connections
 - sreerupa@jazz-development
 - Rational Team Concert [jazz-development]
 - Builds
 - Plans
 - 1.0.1.1 iFix 1
 - 2.0 iFix 1 (doc translations)
 - 2.0 iFix 1 RC2
 - 2.0.0.2
 - 2.0.0.2 RC2
 - 3.0
 - 3.0 M2
 - +> 1.0 Patches
 - +> 1.0.1.X Maintenance
 - +> 2.0.0.X Maintenance
 - 2.0.0.1
 - 2.0.0.1 RC1
 - Agile Planning [2.0.0.1]
 - Build [2.0.0.1]
 - 2.0.0.1 RC2
 - ClearCase Connector 2.0.0.1 -- A Maintenance Odyssey
 - ClearQuest Bridge [2.0.0.1]
 - 2.0.0.1 M2
 - SCM [2.0.0.1]
 - Team Concert 2.0.0.1 [2.0.0.1]
 - 2.0.0.1 RC3
 - User Assistance [2.0.0.1]
 - Visual Studio Client [2.0.0.1]
 - Work Item [2.0.0.1]
 - 2.0.0.1 M1
 - 2.0.0.2
 - 2.0.0.2 iFix 1
 - +> Main Development
 - +> Maintenance

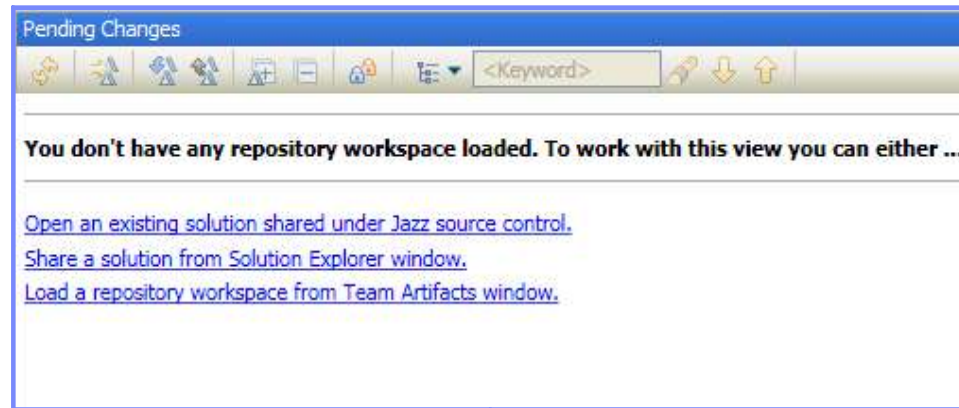
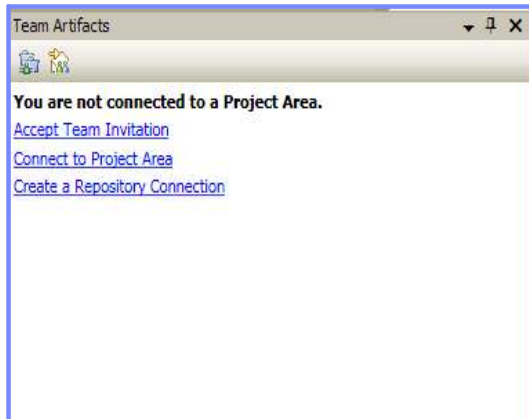
Pending Changes/Error List

- The Pending Changes View now proactively informs you if you try to deliver changes that have errors
- Errors can be simple compile time errors, or logged by more sophisticated tools for code analysis or review, such as FxCop.



A Richer Client altogether

- Richer menu options for SCM, Work Items
- Mandatory custom fields are now added automatically when you create a new work item via quick edit capability for work items
- The embedded web based editors are now more closely integrated into Visual Studio.
- Ease of use



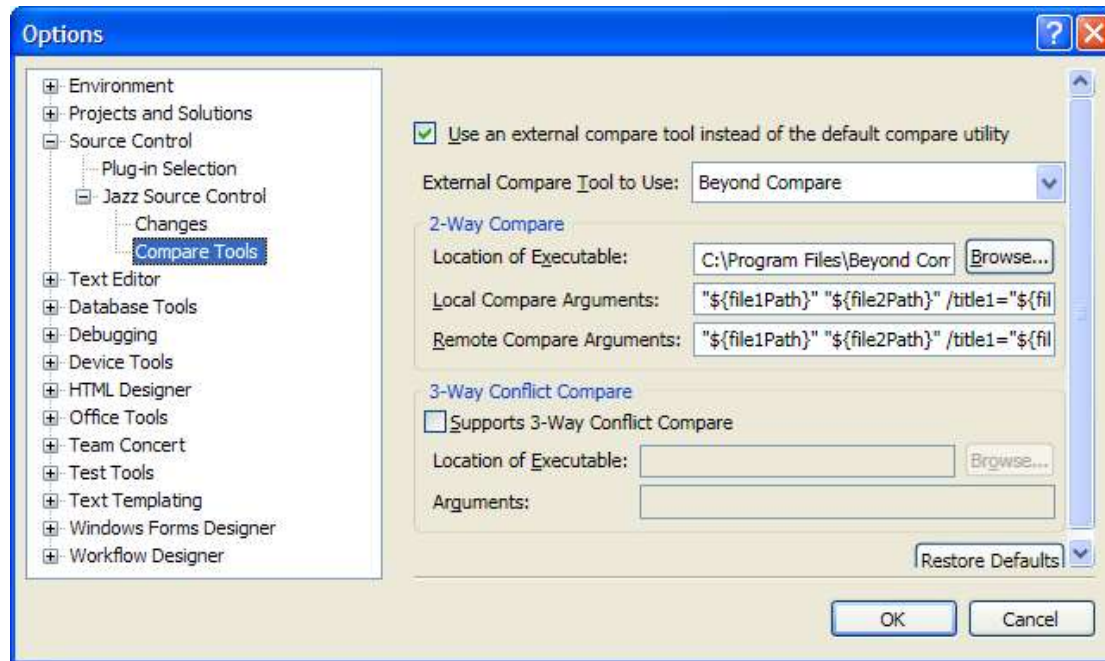
Coming up: 2.0.0.2

- SCM
 - ▶ Integration with external compare editors
 - ▶ Flexible Load Scenarios
 - ▶ Non-atomic check-ins
 - ▶ Deliver and Resolve
- Work Items
 - ▶ History
 - ▶ Work Items drag and drop
- Reports



External Compare Editors

- The RTC Client now lets you use your favorite compare/merge Editor
- Out-of-the-box support for Beyond Compare, DiffMerge, P4Merge, WnMerge
- Customizable



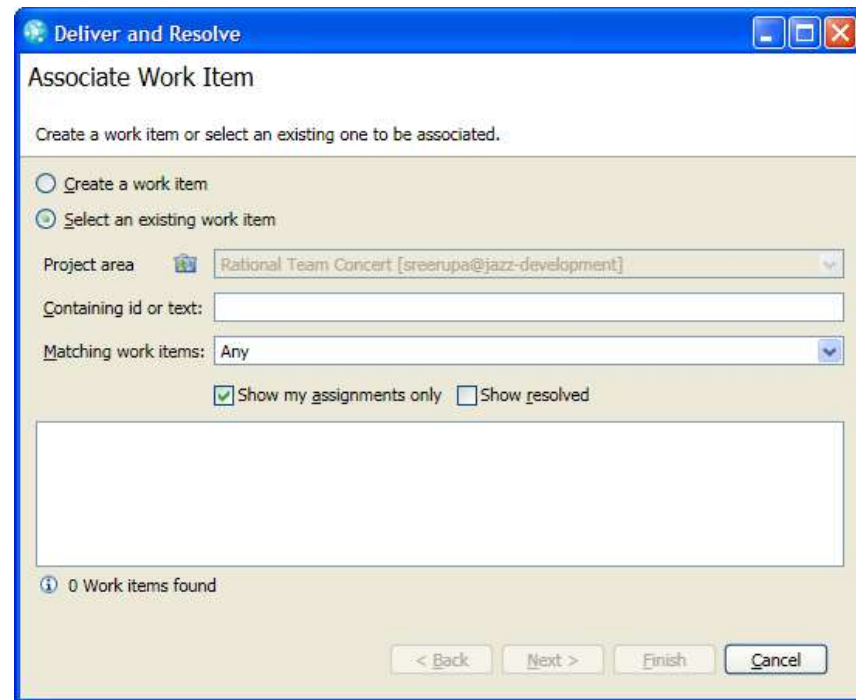
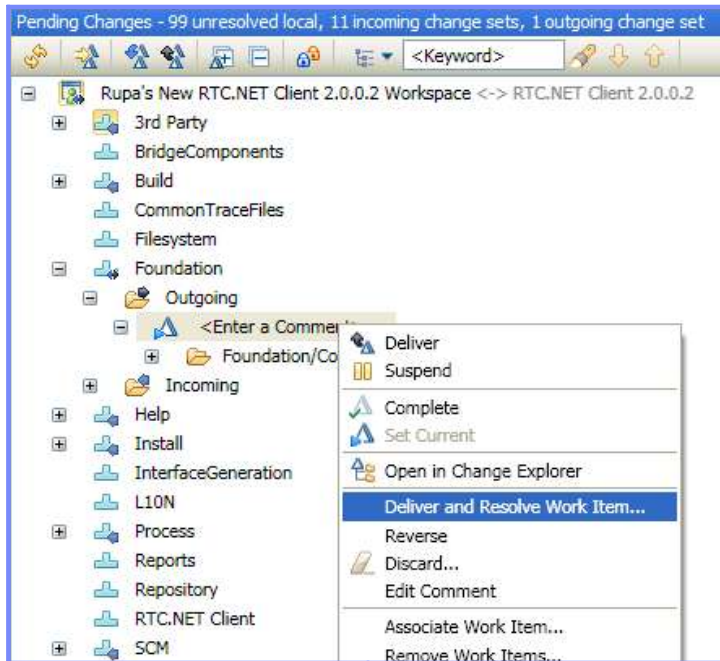
Flexible Load Scenarios

- We've overhauled the way the client manages the mapping between files of a repository workspace and files on the local disk, as an effect of which you can now:
 - ▶ load only selected folders and files of a repository workspace
 - ▶ load components as root folders in the sandbox
 - ▶ load with an alternative name or at a different relative path



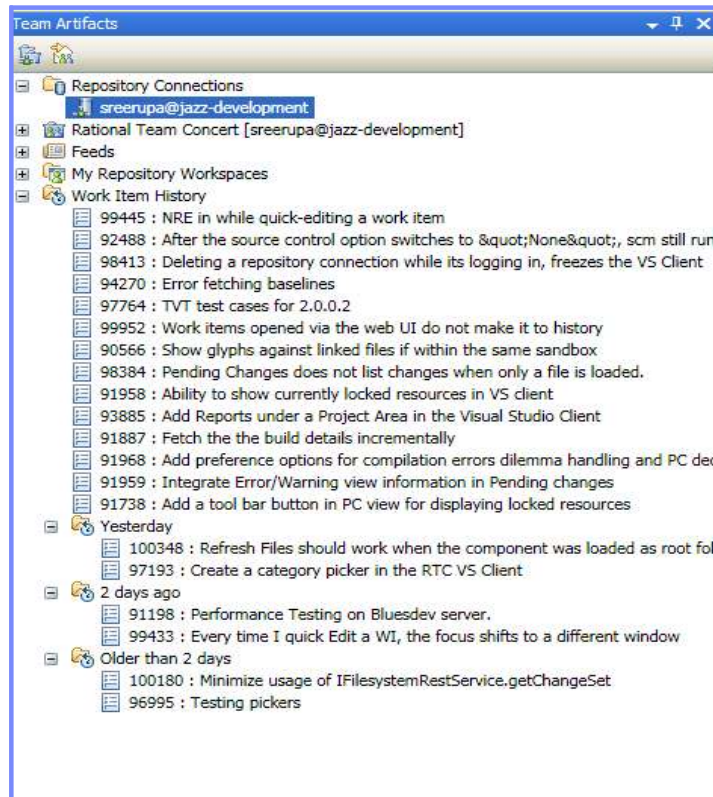
Deliver and Resolve

- You can deliver and resolve your work items at one shot.
- You can add approvers for your work items.



Work Item History

- Team Artifacts maintains a list of your most recently accessed work items.
- You no longer have to search for the work items you're working on – you can open or edit them directly from the History list.



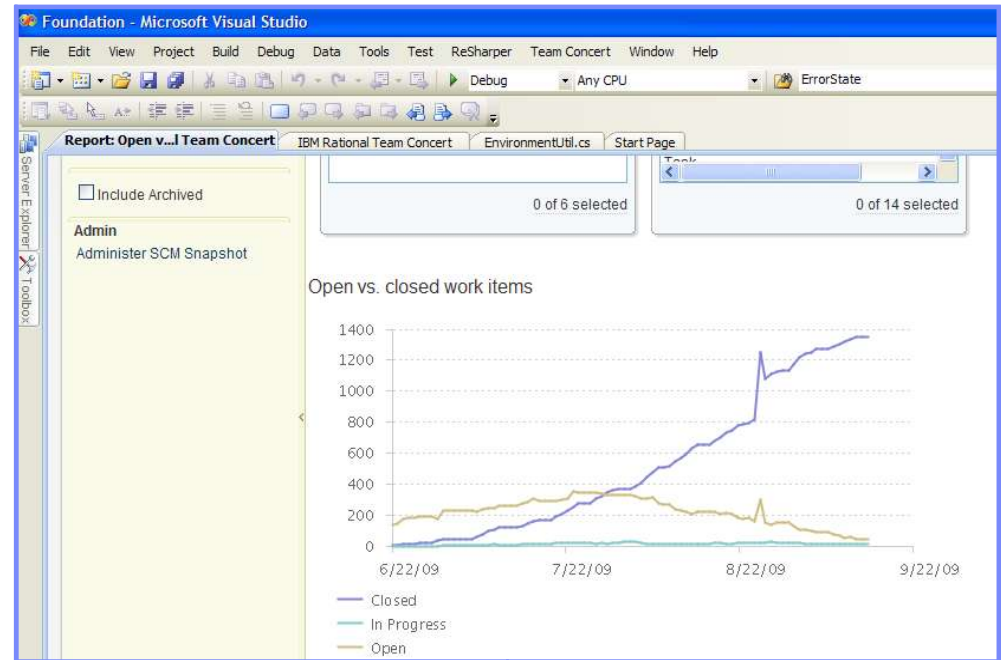
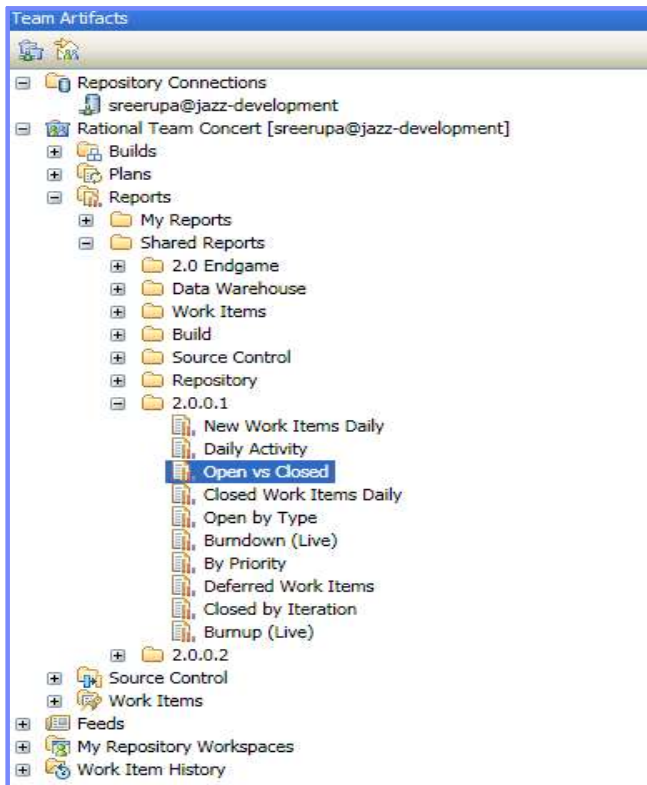
Drag and Drop

- Drag and Drop Work Items
 - ▶ Drag work items and drop them on change sets in pending changes view to associate a work item with a change set
 - ▶ Drag work items and drop them on any external application supporting "text drop" like word pad, chat clients, email clients etc



Reports

- Create/browse reports from within the RTC Client for Visual Studio



QUESTIONS



Thank You

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