



議程：

08:45-09:00	貴賓報到	
09:00-09:10	開場歡迎	IBM軟體事業處 Rational資深技術經理 林裕隆
09:10-10:10	Rational Team Concert 3.0 敏捷協同開發介紹 - RTC 3.0 架構與功能介紹 - 多點 (Multi-Site) 開發管理 - 專案管理與風險管理 - 稽核及法規遵循	IBM軟體事業處 Rational資深技術經理 林裕隆
10:10-10:30	中場休息	
10:30-11:00	使用RTC3.0實行委外專案管理案例分析 (RTC 3.0 - Outsourcing Management)	IBM軟體事業處 Rational資深技術顧問 張向昇
11:00-11:30	使用RTC3.0實行軟體建構與發佈管理案例分析 (RTC 3.0 - Build & Release Management)	IBM軟體事業處 Rational資深技術顧問 吳志忠
11:30-12:00	RTC 3.0 Java及.NET等跨平台支援介紹 (RTC 3.0 - Java & .net Support)	IBM軟體事業處 Rational技術顧問 林炫伯
12:00-13:20	午餐時間 (在恆逸用餐)	
13:20-13:50	上機操作—分組角色模擬 (分為PM, developer, builder, tester) (Workshop -- Team Up)	
13:50-14:20	上機操作—各角色分工準備 (Workshop -- Plan your work items)	
14:20-14:50	上機操作—模擬跨地協同開發 (Workshop -- Collaborative development)	
14:50-15:10	中場休息	
15:10-15:40	上機操作—整合式建構與發佈管理 (Workshop -- Collaborative development)	
15:40-16:10	上機操作—建立即時儀表板與報表 (Workshop -- Dashboard & Report)	
16:10- 16:30	Q&A	





IBM Software Group

Rational Team Concert 3.0 敏捷協同開發介紹

Rational. software

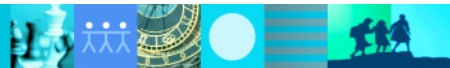
[Go to IBM](#)

IBM軟體產品處
資訊顧問 林裕隆 (Jason Lin)

© 2011 IBM Corporation

Agenda

- 專案開發所面臨的挑戰
- **RTC3.0**架構與介紹
- 專案管理與風險管理
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- 總結



Agenda

- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- 專案管理與風險管理
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- 總結



您對軟體開發的速度及品質滿意嗎?

- 成員間的溝通是協同開發最困難之處

只有 **37%** 的業主滿意公司內部軟體開發速度...
 只有 **42%** 的業主滿意開發的品質.
50% 的外包專案 品質不符要求.

團隊成員, 作業流程和專案管理的隔閡
 阻礙了協同開發

地理上的限制

- 不良的溝通
- 語言文化時區的差異
- 新成員上手時間長
- 切割過細的組織

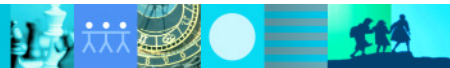
組織上的限制

- 缺乏有意義的業主意見參與
- 作業流程的間隙造成錯誤與重工
- 高階主管無法見到整體狀況
- 不佳的專案治理

IT 基礎設施的限制

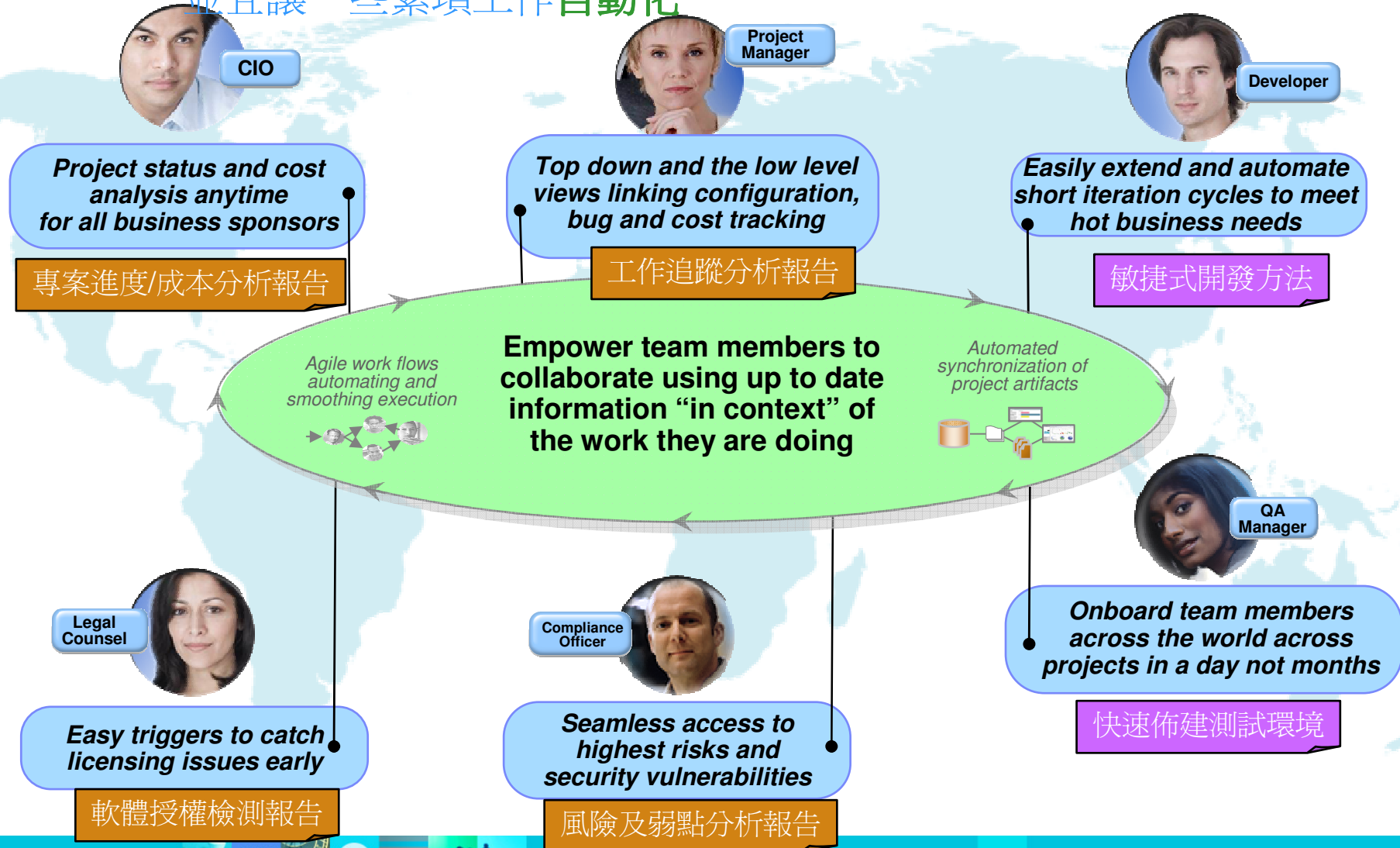
- 不相容的工具及資料儲存方式
- 無法正可靠取得一般的專案產出
- 淺薄且脆弱的工具整合

*Forrester, Gartner



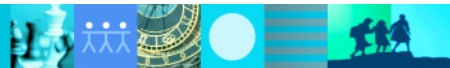
開發團隊的心聲:

如果開發工具能夠**即時**提供這些我想要的資訊.....
並且讓一些繁瑣工作**自動化**



Agenda

- 專案開發所面臨的挑戰
- **RTC3.0架構與介紹**
- 專案管理與風險管理
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- 總結



建構一個平台 - 軟體交付協同合作的創新模式

一個旨在通過變革團隊協作方式，提高團隊績效、提高軟體投資回報的創新專案



- 強壯,高度可擴展可擴容
- 全球分佈的模式,適應動態變化
- 以社群為基礎,通過 jazz.net 開發架構

Collaborate in Context

- **團隊工作透明**: 實時知道“誰、作什麼、何時、為什麼”
- **加強協作**, 打造高效團隊
- **自動傳遞訊息**, 使團隊無縫交接任務



Right-size Governance

- **自動化工作流**提升效率
- **自動數據**收集減少管理成本
- **即時報告**提示項目風險



Day One Productivity

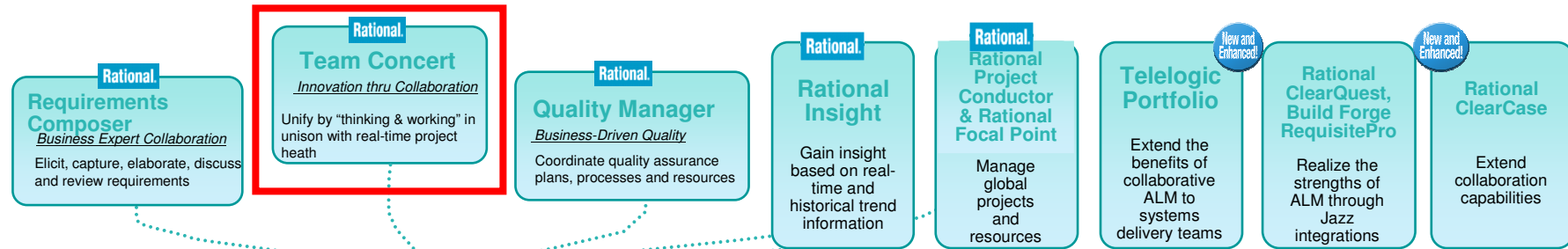
- **動態的**專案和團隊管理, 快速啟動
- 即時**反覆**計畫
- **統一整合**團隊的工具

跨越軟體交付全生命週期的人、流程、專案和工具的即時整合



Rational Products on Jazz

可參考 <http://jazz.net> 上所有 Jazz-based 的產品



Client Integrations

Server Integrations

Rational Software Architect / **Rational** Application Developer
Rational Developer for z / **Rational** Developer for i
Lotus Quickr / **Microsoft** SharePoint

- Existing Rational offerings
- Business partner offerings
- Open source offerings
- Others to come...

Jazz architecture overcomes the limitations of the past

Open choice and rich integration

Uniform Resource Identifiers (URIs)

“I can link any resource to any other resource, regardless of where the resource lives!”

Standard interfaces

“Each tool can evolve independently without breaking integrations!”

Open standards for the lifecycle

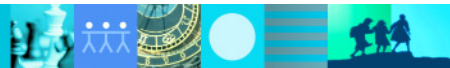
“Each domain can create standards without having to wait on the others or get the whole industry to agree!”

Open Services for Lifecycle Collaboration
open community. open interfaces. open possibilities

Integration services

“Each vendor can evolve their tool to exploit the services that are valuable to customers like me!”

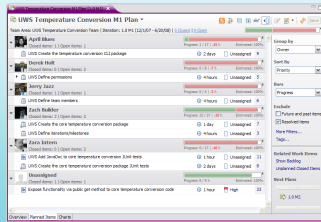
Evolutionary and incremental adoption



Rational Team Concert: RTC (協同開發平台)

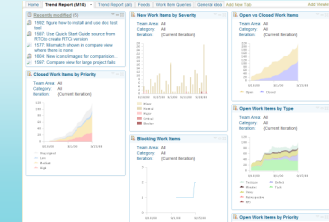
專案計劃

- 整合專案疊代計劃及執行管理
- 連結工時估算及專案里程碑
- 內建敏捷開發流程模版



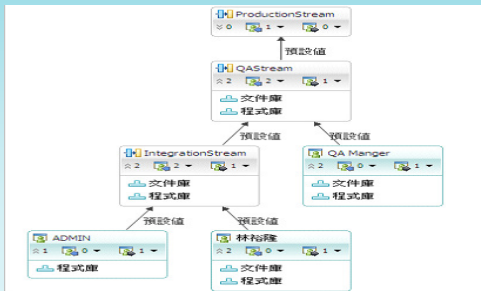
專案監控

- 可客製化的儀表板
- 即時的工作追跡資訊及報告
- 專案里程碑及工作狀態追蹤



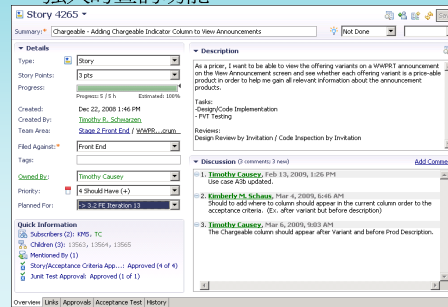
版本管控

- 整合的stream, Component, baselines 功能，提供完整的版本(version) 追跡資訊
- 支援Server-based sandboxes



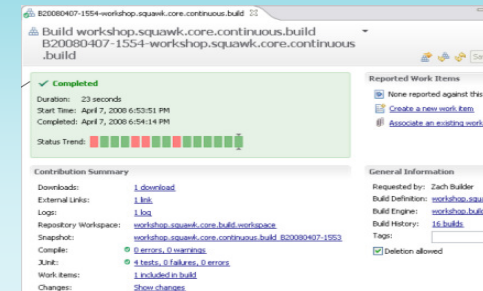
工作項目管理

- 內建 缺陷單、新需求功能單, 工作單及客製表單, 及連結, 簽核, 稽核記錄
- 強大的查詢功能



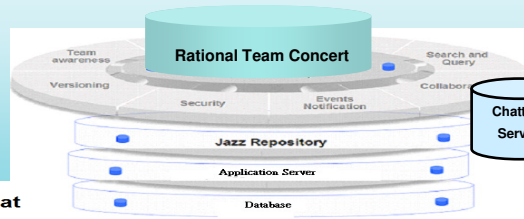
建置管理

- 週成記錄可與工作表單、變更記錄迴趨
- 支援本端及遠端編譯



Jazz 團隊伺服器

- 單一基礎平台支援全生命週期開發
- 世界級的專案開發組織架構，成員快速上手
- 依角色身分的權責管理，依專案規模、性質選擇專案流程模版



- Team advisor 功能，可定義專案流程規則，持續改善專案交付品質
- 可定義專案流程並強制流程落實
- 以工作產出為基礎的協同合作，即時顯示成員的狀況及進行中的工作



IBM 全球 125 個研發團隊採用 Rational Team Concert 大中華軟體研發中心透過敏捷式開發 聚焦核心競爭力

	挑戰	效益
 Ginger Tsai, IBM 大中華軟體研發中心 副總經理	過去傳統的協同開發模式，無法即時地掌握開發進度，專案的彈性也不足以應對變化，這些額外增加的成本在在都影響利潤與效率	研發的品質與速度是我們的核心競爭力，透過 RTC 統一的平台，不僅能管理不斷改變的需求，更能使其與業務目標保持一致，落實以軟體開發價值體現策略性業務資產
 Curtis Wei, IBM 大中華軟體研發中心 經理	在團隊開發上，最大的問題是成員間彼此的資訊不能即時互通，得透過每日、每週定期開會報告專案進度，常常耗費許多時間、精神	RTC 幫助我管理追蹤每個人工作量，將整個開發流程透明化並量化成圖表，隨時精確掌握開發進度、專案執行或工作外包
 Jeffrey Liu, 台灣 IBM 公司資深工程師	專案需要敏捷式的彈性開發，過去開發工具即使使用各種 open source，但資源往往無法整合	RTC 不僅可整合跨系統開發工具，而且容易管理追蹤組員進度，讓團隊更容易發現[問題解決問題，把專案管理變簡單了！
 Weasley Hung, 台灣 IBM 公司 IT 架構師	過去沒有系統方式管理專案，還可能得到處救火，整個專案的成功率與品質常常無法掌握	但 RTC 讓工作進度及工作內容一目了然，有了報表，分配工作、控制進度變得更加方便

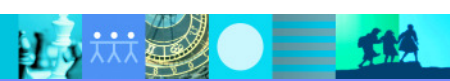
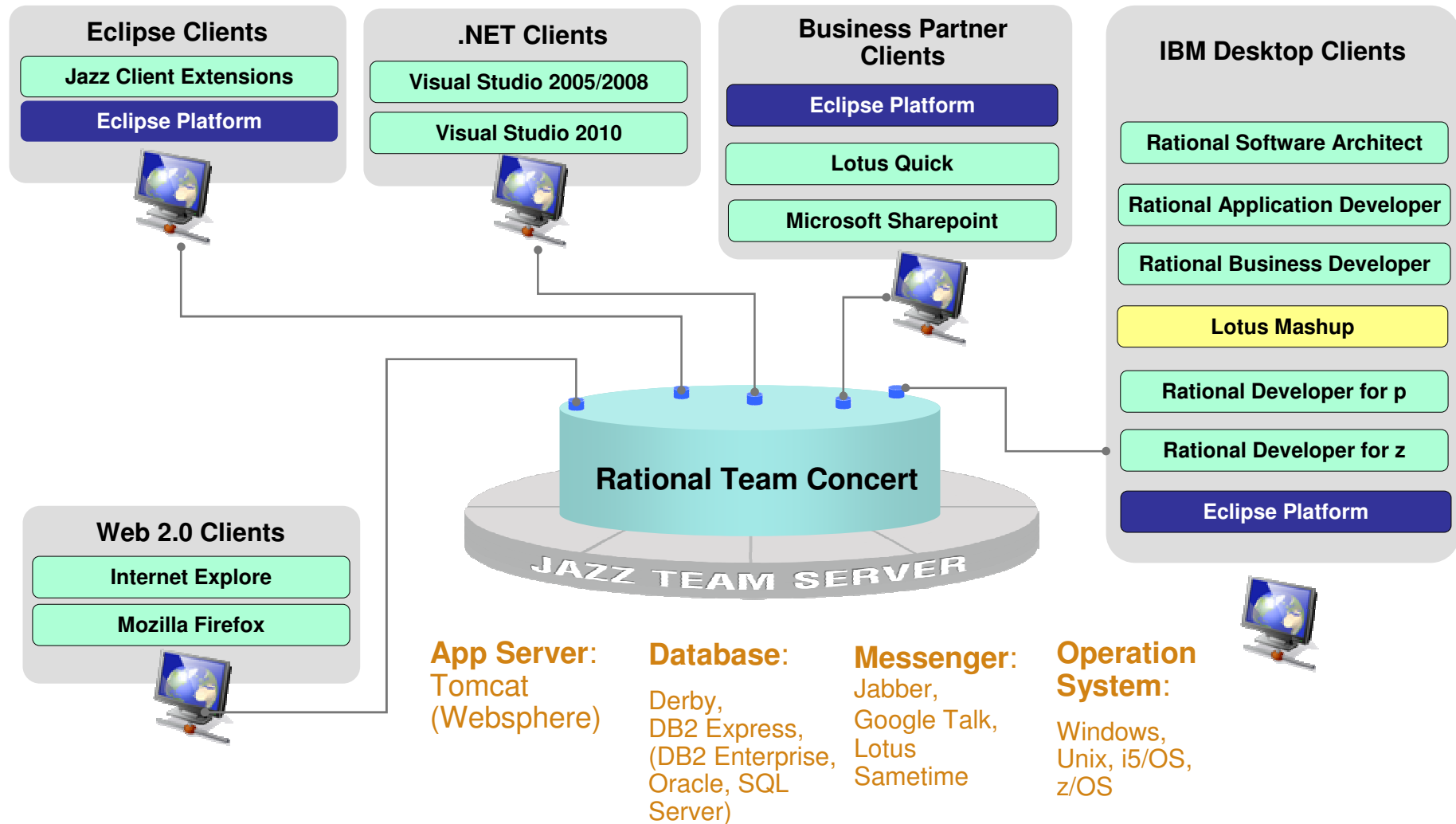
■根據 IBM Global Services 的調查，**59% 的開發專案不是完全失敗**，要不就是**不符合成本、時效或是設定的目標**，這對於以開發為核心競爭力的組織而言，是損失相當高額の企業成本。

■Jeffrey 所帶領的團隊有別於一般研發團隊，主要的任務是參考大中華區市場的重要議題，訂定研發專案計畫，再將創新成果延續到產品端，有時還得**跨地域與國外合作**。由於創新過程中，合作團隊常常需要不斷開會討論，開發流程管理不易，加上各個專案研發過程長達一年，客戶需求會不斷改變，如果用傳統專案開發過程通常採用的瀑布模型（Waterfall Model），往往在成果驗收時才發現不符客戶需求，嚴重影響專案完成的進度。

■為了讓專案流程更為快速，Jeffrey 開始採用 Rational Team Concert（RTC），希望能透過這個兼有**協同開發、開發流程自動化和報表三合一**的平台，讓開發團隊能專注於監控實際、客觀且有意義的數據，顯著提升軟體交付的業務流程。

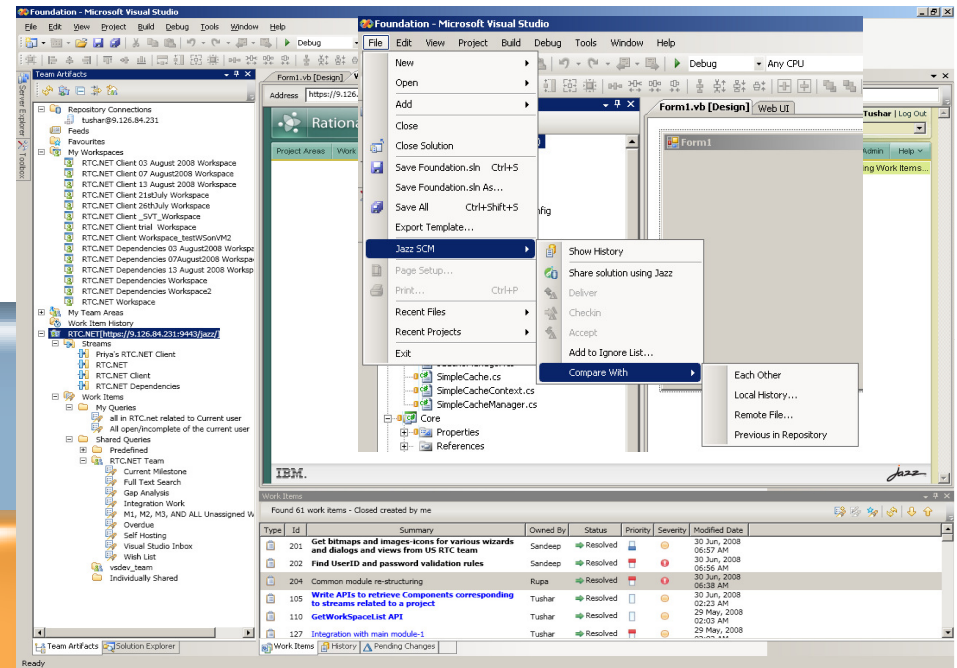
■事實上，IBM 全球超過 125 個研發團隊都採用 RTC，因為透過 RTC 可以讓每個人很清楚的看到，專案從模糊到清晰的發展過程，把軟體視為企業最重要的策略性資產。

Rational Team Concert 架構概觀



Rational Team Concert 對微軟開發平台提供最好的支援

Visual Studio 2005/2008/2010 professional and Standard Editions



Open and extensible on

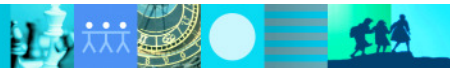


- ✓ Collaborate in context
- ✓ Right-size governance
- ✓ Day one productivity



Agenda

- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- **專案管理與風險管理**
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- 總結



RTC提供的 Process Templates

-RTC 提供了多種的程序範本，可讓專案以開箱即用(out-of-box)的方式快速使用，亦可自行修改或訂制

應用程式管理 Jerry Jazz

應用程式 使用者 專案區域 範本 報告

範本管理 管理範本

程序範本

匯入範本 | 部署預先定義的範本

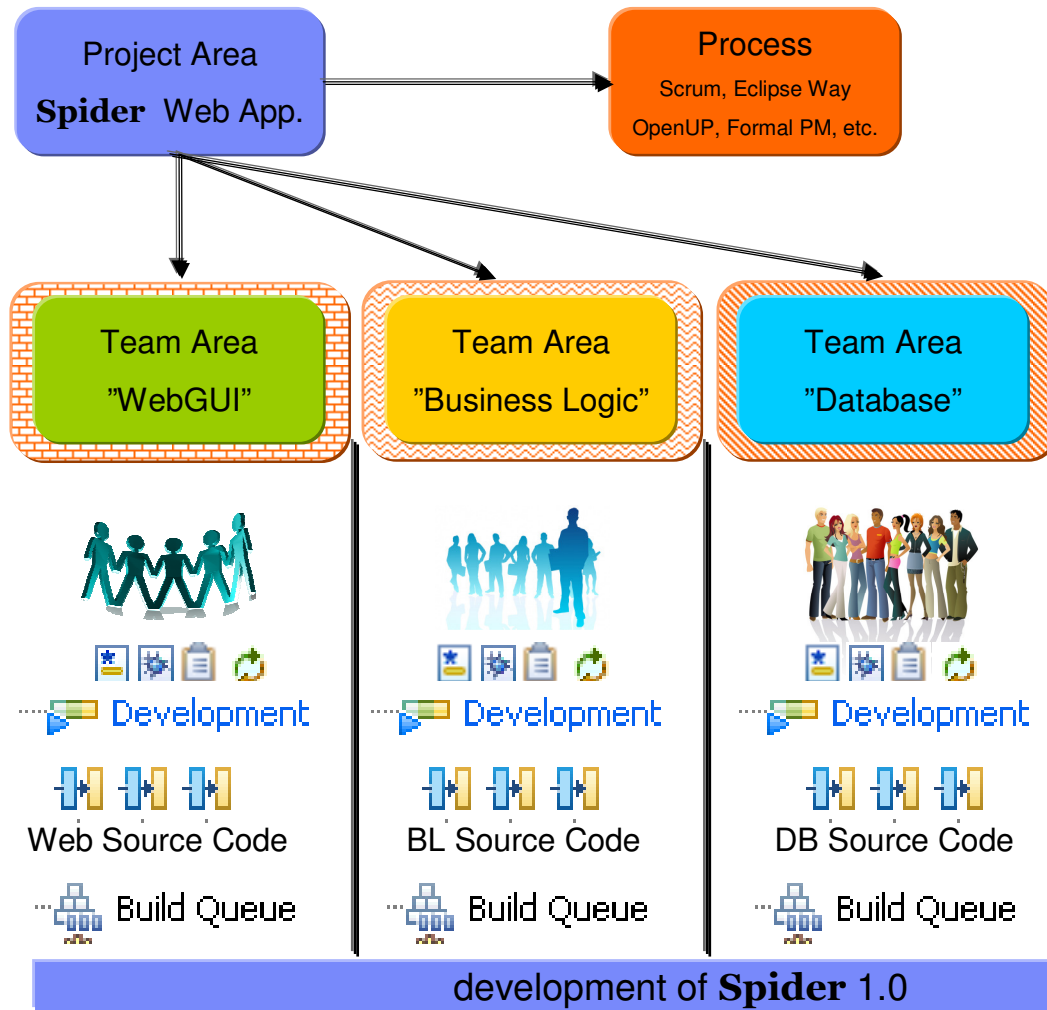
這個頁面用來操作範本。如果要匯入新的範本，請按一下「匯入範本」鏈結。如果要匯出現有的範本，請在下表中，按一下適當列中的匯出動作。

上一頁 | 1 - 9 / 9 | 下一頁

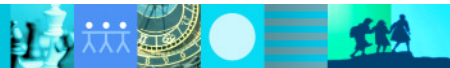
名稱	ID	摘要	動作
Agile Process	agile.process.ibm.com	The process is a mash-up of best practices of several existing agile processes.	
Cloudburst Sample Process	sample.process.ibm.com	The process used for the Cloudburst examples and tutorials. Project areas created with this process will have a number of teams created with sample users assigned to those teams.	
Eclipse Way Process	eclipse.process.ibm.com	The process originally developed by the Eclipse Development Team. The 'Eclipse Way' is an agile, iteration-based process with a focus on consistent, on-time delivery of quality software.	
Formal Project Management Process	formalpm.process.ibm.com	A traditional project management process where development progresses in sequential phases: Requirements, Design, Implementation, and Testing.	
OpenUP Process	openup.process.eclipse.org	The OpenUP process is one of the processes created by the eclipse process framework project (EPF). It is included here as one example of how to integrate existing processes. For more details see http://www.eclipse.org/epf	
Scrum	scrum2.process.ibm.com	A process template for Scrum. Scrum is a popular approach to manage projects in an agile way.	
Scrum	scrum.process.ibm.com	A process template for Scrum. Scrum is a popular approach to manage projects in an agile way.	
Simple Team Process	simple.process.ibm.com	A simple process to get you started quickly. Team members are entitled to perform modifications of any kind, outsiders are not.	
Unconfigured Process	unconfigured.process.ibm.com	This process should be used for project areas that consume a shared process or that are used to manage unconfigured process control. It does not provide any...	

RTC 專案區域、團隊區域的使用

-RTC可以讓大型的開發團隊協同合作



- 專案區域(Project Area)是系統的軟體專案表示法。專案區域定義專案的交付項目、團隊結構、程序及排程。
- 專案小組的結構用團隊區域階層來定義。團隊區域會管理團隊成員資格、角色指派及團隊構件。



專案計劃:檢視方式為“工作分類”

Iteration plans are composed of a set of work items, which PMs can create and team members can use to manage work

計劃期間

專案進度(本階段已完成工時/本階段總工時)

工作項目

工作子項 (含負責人, 預計工時, 重要性.....等資訊)

The screenshot displays the 'JUnit Sprint Backlog' interface. At the top, it shows the project name 'JUnit Sprint Backlog' and its duration '2011/1/7 - 2011/2/6'. Below this, team members are listed with their progress bars and statistics. For example, Bill Cassavelli has 2 items, Jason Mitchell has 4 items, and Markus Kent has 6 items. Each team member's section lists specific work items with details like priority, status, and estimated time. A callout box points to the 'View Mode' dropdown menu on the right, which is currently set to 'Work Classification' (工作分類). Other options include 'Priority List', 'Kanban', and 'Timeline'. The bottom right corner shows the 'JUnit Release Backlog [4.4]'.

專案計劃-規劃的項目 :檢視方式為 "作業板"

-可以圖示化看所有的工作項目

The screenshot displays the Rational Team Concert interface for a project named 'JUnit Sprint Backlog - 4.4 s2'. The main area shows a backlog of tasks categorized by status: '待辦事項' (To Do), '進行中' (In Progress), and '已完成' (Completed). The '作業板' (Board) view is selected in the right-hand sidebar.

Task ID	Description	Priority	Status
818	Provide improved Assertion syntax	High	待辦事項
817	Based on the assertThat syntax we should provide assumptions and theories support	High	待辦事項
813	Improve documentation for 4.4	High	待辦事項
784	javadoc updates for @Ignore in 4.3	High	待辦事項
777	[Docs] Cookbook TestRunner section incorrect	Medium	已完成
775	Typo in cookbook: wrong package for JUnitCore	Medium	已完成
797	Runner throws confusing exception "no runnable methods"...	Medium	待辦事項
804	4.1 missing in maven-metadata.xml on ibiblio	Medium	待辦事項
795	shows green bar while assert false	Medium	待辦事項
781	testCount hard-coded to 1 for childless Description	Medium	待辦事項
813	Improve documentation for 4.4	Medium	待辦事項
787	assertEquals array comparison doesn't handle null elements	Medium	待辦事項
794	Ignored method fails	Medium	待辦事項
790	JUnit version on the website is still 4.1	Medium	待辦事項

The interface includes a left-hand navigation pane with options like '工作項目', '企業延伸', and '來源控制'. The bottom status bar shows 'Initializing Help: (60%)' and a search bar.

風險控管

-透過風險(Risks)清單管理風險，透過 Risk Action來監控風險

■ Risks and Risk Actions

- ▶ Every project has some known and unexpected risks. As a project manager, you can define risks, add strategies, and create work items to take action against risks. The risks work items are available in the Formal Project Management process template.

The screenshot displays the IBM Rational software interface for managing risks. The main window shows a risk entry for 'Risk 828' with the summary '團隊成員流動率'. The interface includes a navigation bar with options like 'Overview', 'Links', 'Approvals', and 'History'. The 'Details' section is highlighted, showing various attributes for the risk:

- Type:** Risk (highlighted with a red box)
- Creation Date:** 2011/1/17 下午6:14:18
- Created By:** Jerry Jazz
- 專案區域:** 愛合購
- 團隊區域:** 愛合購
- Filed Against:** Category 1
- Tags:** (empty)
- Owned By:** 未指派
- Priority:** Unassigned
- Identified For:** 尚未指派
- Resolution Date:** 未解析
- Resolved By:** 未指派
- Probability:** 20% - Very Low
- Impact:** 20% - Minor
- Exposure(%):** 4
- Precision:** Medium
- Consequence Cost:** 0
- Probability Cost:** 0
- Risk Category:** Socio-cultural
- Identification Date:** (empty)

A risk matrix chart is visible on the right side of the interface, showing a grid of colored cells representing different risk levels. The chart has '機率%' (Probability) on the vertical axis (0 to 100) and '影響率%' (Impact) on the horizontal axis (20 to 100). The matrix shows a mix of green, yellow, and red cells, indicating varying levels of risk severity.

甘特圖(Gantt Charts)

- **Now you can visualize a plan based on a timeline**
 - ▶ Gantt charts for traditional planning based on schedule constraints and dependencies
 - ▶ Shows work breakdown and schedule

Phase Plan Auto-Save Save

Plan Details Edit

Planned Items | Links | Snapshots | Resources | Notes

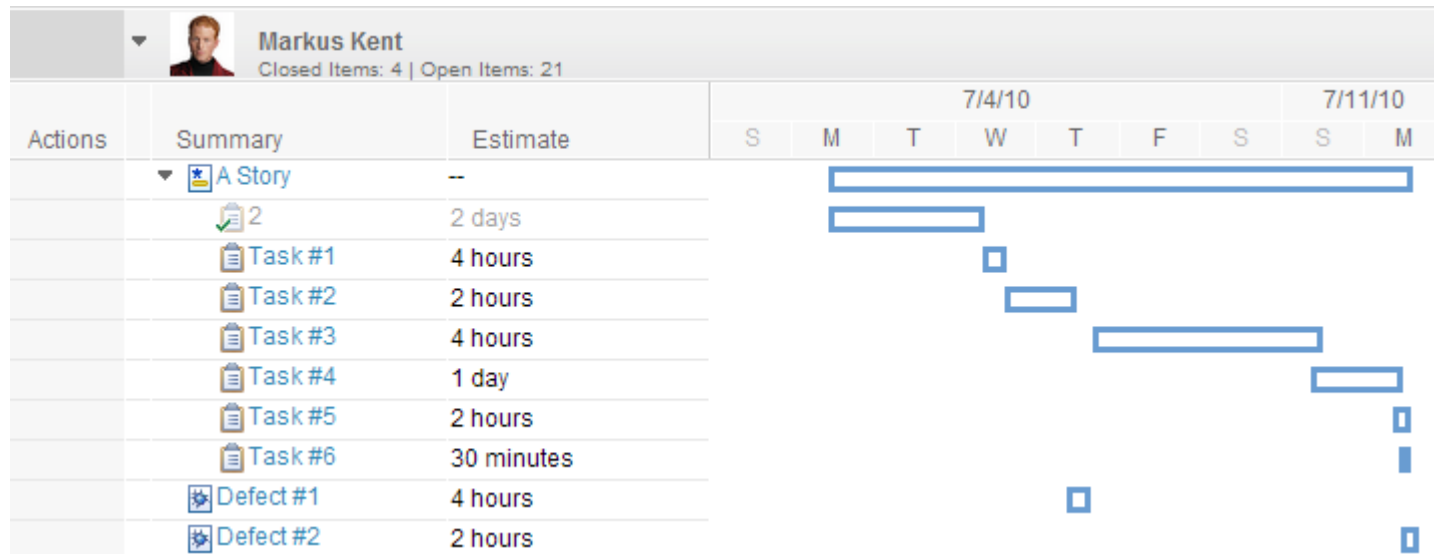
View As: **Work Breakdown and Schedule**

Actions	Summary	Owned By	Effective Estin	Predecessor	Id
	Write the rules down	Jean-Miche	1 day	-	28
	Add more items to our list	Heather Fr	1 day	-	22
	Create the schedule for the team	Jean-Miche	3 days	-	23
	Write the requirements	Heather Fr	2 days	Task <03:3	21
	Prepare the milestone plans	Heather Fr	2 days	-	24
	Setup more work for the team	Heather Fr	1 week	24: Prepare	26
	WAN access from WTP site is slow - need to invest	Jean-Miche	1 day	-	27

Roadmap Charts

- **Designed for agile teams**

- ▶ Shows a time projection of a roadmap based on iterations
- ▶ The scheduled time of work items can now be shown as a roadmap on a timeline.
- ▶ The roadmap can also show blocking or depends on relationships between work items



資源的分派

Resource Allocation

- ▶ Search and add a resource to your plan based on availability
- ▶ You can now allocate ranges of availability to a project or team.

The screenshot shows the 'Phase Plan' interface with a 'Resources' tab selected. It displays resource allocation for Heather Fraser-Dube and Jean-Michel Lemie. An 'Add Users' dialog box is open, allowing the user to search for resources based on start and end dates and hours required. The dialog shows search criteria: Start date: 10/15/2010, End date: 11/26/2010, Hours required: 80. The 'Availability results' table shows one result: Andrew Hoo, allocated 100% for 80.00 hours from Oct 15, 2010 to Oct 28, 2010.

Work Allocations

Associate resources to teams and timelines:

Team	Allocation	Allocation Dates	Actions
Agile Project		(No Date Restriction)	
-[-+] Main Development *	16 %	(No Date Restriction)	
Analysis		Oct 11, 2010 - Nov 26, 2010	
-[-+] Main Development	5 - 16 %	Oct 11, 2010 - Nov 26, 2010	
└─ Allocation	16 %	Oct 11, 2010 - Nov 15, 2010	
└─ Allocation *	5 %	Nov 15, 2010 - Nov 26, 2010	

工時回報 (Time Tracking)

A **Time Tracking** tab has been added to the formal project template. This allows you to move a task between people and track time towards different time codes. The time codes are configurable in the process specification. The time tracking function is not limited to the formal project template and can be added to any work item type presentation.

The screenshot shows the 'Time Tracking' tab for 'Task 751'. The summary section indicates the task is '初始化' (Initialization) and has a total of 14 hours. The time tracking table shows the following data:

擁有者	時間碼	星期日	星期一	星期二	星期三	星期四	星期五	星期六	每週總計	總計
Jerry Jazz	Default	0	2	2	3	4	3	0	14	14

Navigation buttons include '上一個' (Previous), '2011/1/16 - 2011/1/22', and '下一個' (Next). Action buttons on the right include '新增時間項目...' (Add time item...), '編輯時間項目...' (Edit time item...), and '刪除時間項目...' (Delete time item...). The bottom navigation bar shows 'Overview', 'Links', 'Approvals', 'History', and 'Time Tracking'.

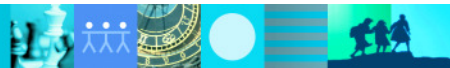
專案快取(snapshots)的比較

- **How has my plan changed over time?**
 - ▶ What is the quality of our planning?
 - ▶ Did we make our date because we changed the plan and/or our estimates?

Planned Items Links **Snapshots** Resources Notes

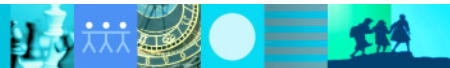
[Back to Snapshots](#)

	Comparison - Oct 15, 2010 4:53:52 AM	End - Oct 15, 2010 4:53:45 AM	Start - Oct 15, 2010 4:44:47 AM
Overview			
Start Date	0	Oct 15, 2010	Oct 15, 2010
End Date	8 weeks 3 days 1 hour	Oct 25, 2010	Dec 23, 2010
Work Items Total	2	5	7
New	2	4	6
In Progress	0	0	0
Closed	0	1	1
Work Done	6 hours	1 day	1 day 6 hours
Work Estimated	2 weeks 2 days 4 hours	2 days 4 hours	3 weeks
Progress	-	8/20 h <input type="text" value=""/>	100% 14/120 h <input type="text" value=""/> 100%
Work Items			
	Modified Items	Added Items	Removed Items
	Write the requirements	-	Create the schedule for the team
	Add more items to our list	-	WAN access from WTP site is slow - need to
	Setup more work for the team	-	-
	Prepare the milestone plans	-	-



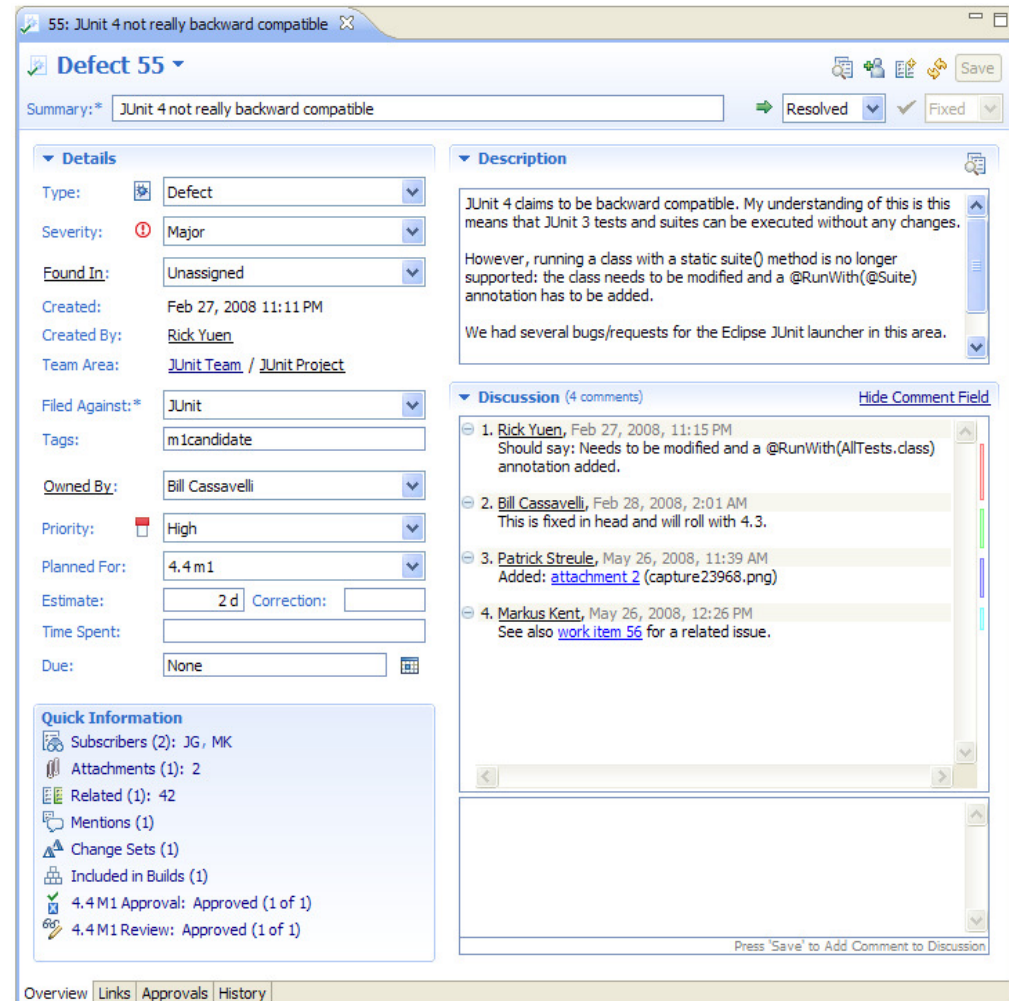
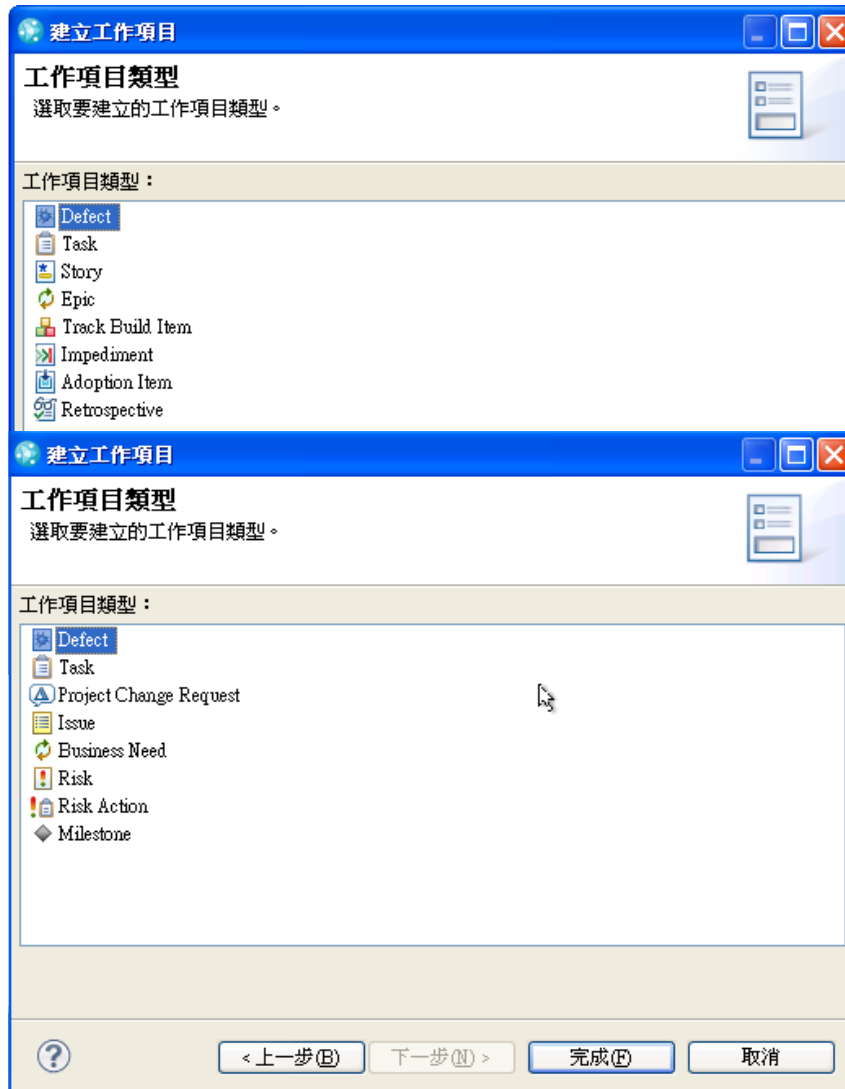
Agenda

- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- 專案管理與風險管理
- **工作項目管理**
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- 總結



工作項目 (Work items)

-工作項目種類依專案的各種元件或功能範圍來分組工作項目。每個種類都會有相關聯的團隊區域，團隊區域成員負責開發該元件。



工作項目流程編輯 (Work Item Workflow)

-可以依據不同流程的需要編輯工作項目流程狀態(state)與轉移的動作(Action)

專案區域

751: 初始化 | Phase Plan [Testing] | Release Plan [Releas] | 變合購 | Phase Plan [Requirem] | Phase Plan [Design] | *<03:39:23>: <未命名> | 754: A1 | Formal Project

配置

- 角色
- 專家配置
 - 專家區域起始設定
 - 許可權
 - 作業行為 (未配置)
 - 事件處理 (未配置)
 - 配置資料
 - 工作項目
 - 類型和屬性
 - 列舉
 - 屬性自訂作業
 - 工作項目** (highlighted)
 - 編輯器呈現
 - 快速資訊呈現
 - 預先定義的查詢
 - 查詢編輯器呈現
 - 核准追蹤 (未配置)
 - 範本 (未配置)
 - 變更管理類型連結
 - 建置
 - 計劃
 - 儀表板
 - 小組件型錄項目
 - 儀表板範本
 - 團隊配置
 - 許可權
 - 作業行為
 - 事件處理 (未配置)

工作項目

顯示於團隊組織 開啟專家的 Web 用戶端

工作流程

定義工作項目狀態轉移 (工作流程)。工作流程是用「狀況」、「動作」及「解析」來建置的。如果要新增「動作」,請在「狀況」表格中定義至少兩個「狀況」。然後在所需要的「轉移」表格組合框中,選取「新建動作...」。請對狀況指定 (已開啟、進行中、已關閉) 其中一個群組,以向系統提供必要的環境定義。

最終 (在子項專案區域中,忽略這個資料的自訂作業)

選擇要編輯的工作流程:

Default Workflow [新增...] [複製...] [移除...] [檢查這項工作流程在儲存庫中的使用情形](#)

工作流程

名稱: Default Workflow

說明: This workflow is inspired by the standard Bugzilla workflow and appropriate for defects and tasks.

啟動動作: Initialize [解析動作: Resolve [重新開啟動作: Reopen

轉移

從	至	✓ Closed	□ In Progress	⇒ New	↻ Reopened	⇒ Resolved	⇒ Triaged	⚙ Ve
✓ Closed		<無>	無	無	↻ Reopen	無	無	無
□ In Progress		無	<無>	⇒ Stop Working	無	⇒ Resolve	無	無
⇒ New		無	□ Start Working	<無>	無	⇒ Resolve	⇒ Triage	無
↻ Reopened		無	□ Start Working	無	<無>	⇒ Resolve	⇒ Triage	無
⇒ Resolved		✓ Close	無	無	↻ Reopen	<無>	無	⚙ Ve
⇒ Triaged		無	□ Start Working	⇒ Untriage	無	⇒ Resolve	<無>	無
⚙ Verified		✓ Close	無	無	↻ Reopen	⇒ Set Resolved	無	⚙ Ve

概觀 鏈結 程序配置 程序配置來源 存取控制 工作項目種類 版本

55 jazz-server 正在載入矩陣...

工作項目表單畫面編輯

-可以編輯工作項目所需之畫面屬行與呈現方式

The screenshot shows the 'Work Item Editor Presentation' configuration window in Rational Team Concert. The left sidebar contains a tree view of configuration categories, with '快速資訊呈現' (Quick Information Presentation) highlighted. The main workspace is titled '編輯器呈現' (Editor Presentation) and contains the following text and controls:

- 定義工作項目編輯器的呈現結構：頁面、區段，以及區段內的屬性。
- 最終 (在子項專案區域中，忽略這個資料的自訂作業)
- 選擇要編輯的編輯器呈現：
com.ibm.team.workitem.editor.default [新增... 複製... 移除...]
- 編輯器呈現** (List of presentation elements):
 - 編輯器標頭
 - 標頭區段 [共用內容]
 - Overview
 - Details (佈置位置:詳細資料)
 - Quick Information (佈置位置:快速資訊) [共用內容]
 - Description (佈置位置:說明) [共用內容]
 - Discussion (佈置位置:討論) [共用內容]
 - Links [共用內容]
 - Attachments (佈置位置:附件) [共用內容]
 - Subscribers (佈置位置:訂閱者) [共用內容]
 - Links (佈置位置:鏈結) [共用內容]
 - Approvals [共用內容]
 - Approvals (佈置位置:<無>) [共用內容]
 - Custom [共用內容]
 - Miscellaneous (佈置位置:左) [共用內容]
 - Miscellaneous (佈置位置:右) [共用內容]
 - History [共用內容]
 - History (佈置位置:<無>) [共用內容]
 - Time Tracking [共用內容]
 - Time Tracking (佈置位置:說明) [共用內容]

On the right side of the list, there are buttons for '編輯(E)...', '新增呈現(P)...', '新增區段(S)...', '新增標籤(T)...', '新增標頭(H)...', '複製(U)...', '移除(R)', '上移(U)', '下移(D)', and a checkbox for '顯示ID(I)'.

工作項目表單內容

訂閱(有變動會通知)

問題單工作單內容

查詢條件

子附件，關連工作單，關連建置單

簽核記錄

The screenshot displays the Rational Team Concert interface. The main window shows 'Task 488' with details: 'Lion_student19 Implementation Squawk', 'In Progress' status, and a history of updates. Below this, a table lists work items:

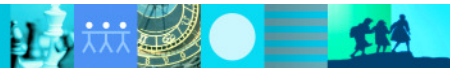
I	Status	P	S	Summary	Owned By	Created By
484	New			Lion_student1 Documentation	student1	student1
482	New			Implement Additional Squawkers	student1	student1
480	New			Lion_student1_Implementation	student1	student1
358	New			[Joining a Team] Set Up Instant Messaging	student1	
357	New			[Joining a Team] Find Your Work Items	student1	Jerry Jazz
356	New			[Joining a Team] Create a Repository Workspace	student1	Jerry Jazz

稽核軌跡
(凡走過必留下痕跡!!)

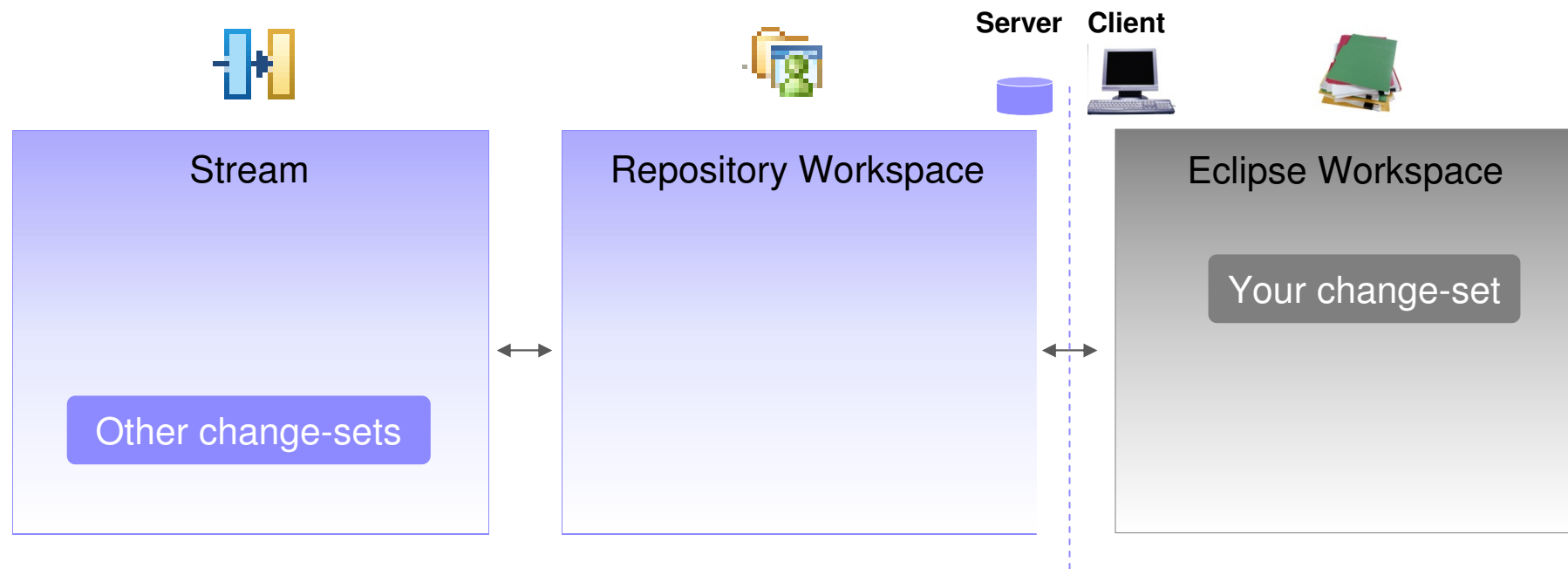
查詢結果
(待辦工作)

Agenda

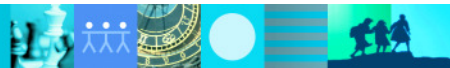
- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- 專案管理與風險管理
- 工作項目管理
- **版本管控與多點(Multi-Site)開發管理**
- 專案監控與管理
- 總結



RTC 版本管控概念



- Eclipse workspaces are where you work
- Repository workspaces are your personal space
- Streams are for sharing
- Change-sets flow back and forth



程式變更 簽出/簽入

The screenshot shows the Rational Team Concert interface with a code editor displaying a Java class `Dog.java`. A context menu is open over the 'Commit Changes' button, showing options like 'Commit', 'Pause', 'Cancel', and 'Revert'. Callout boxes provide instructions for each step.

點選開啓檔案 (Click to open file)

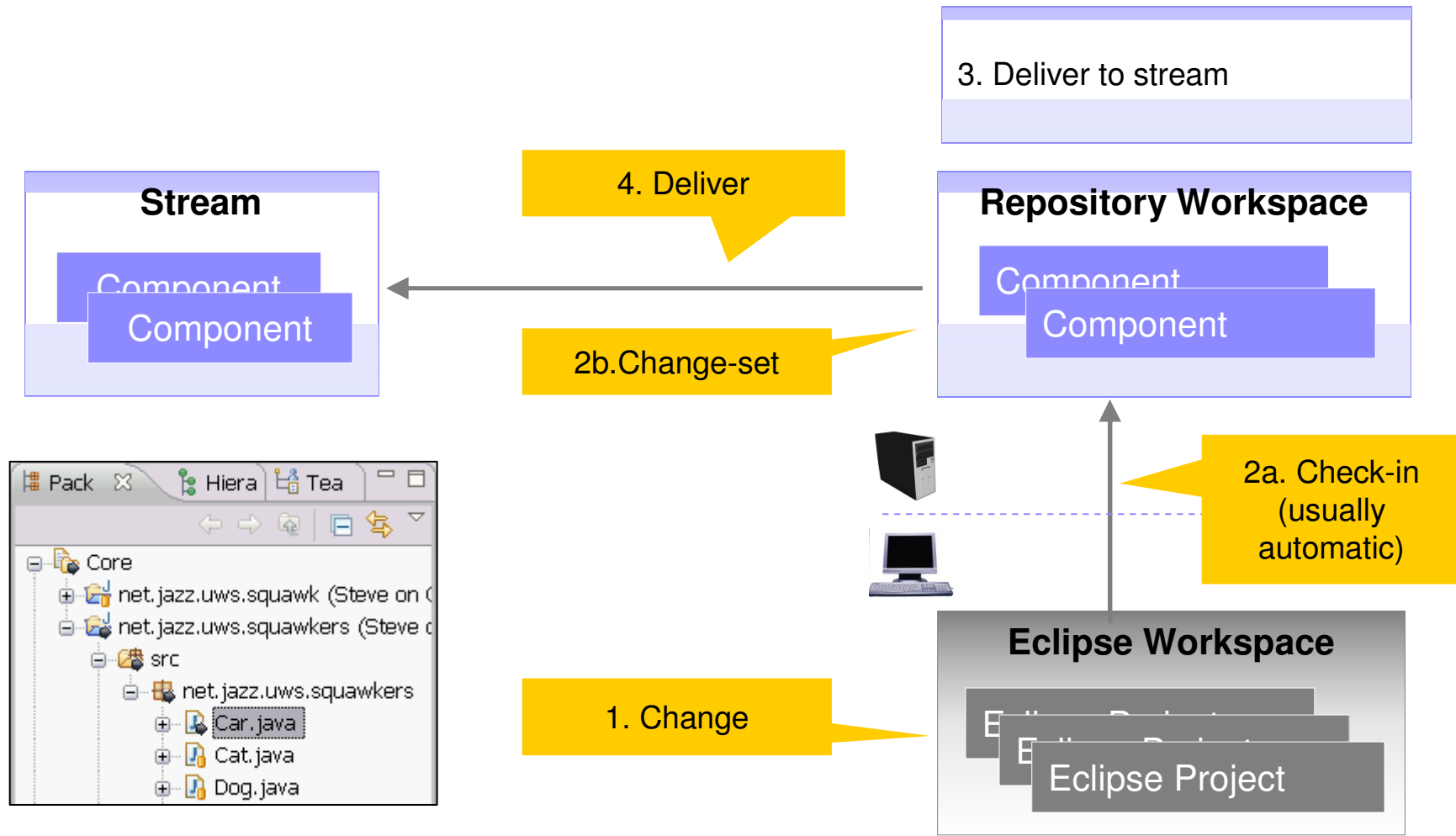
編修檔案 (Edit file)

暫停功能可支援超單 (Pause function supports work items)

存檔後顯示擱置變更清單(可填寫註解或關聯工作單) (After saving, display pending change list (can fill in comments or related work items))

交付後程式進入團隊工作區 (After delivery, code enters team workspace)

RTC 版本管控運作



版本管理

程式修改歷程

元件 (元件版本)

前後版本比較

個人工作區

元件內容

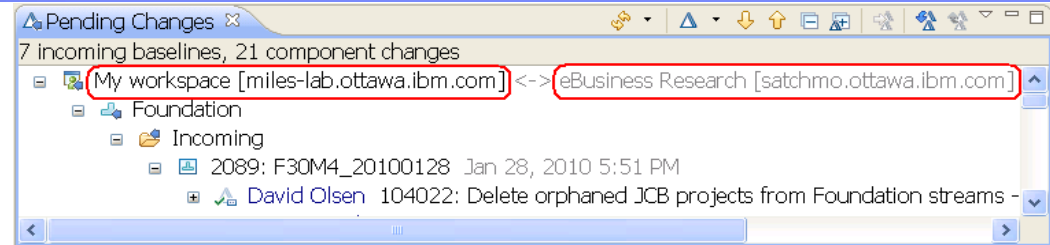
The screenshot displays the Rational Team Concert (RTC) interface for a Java project named 'TestDog.java'. The interface is divided into several panes:

- Left Pane (Project Explorer):** Shows a hierarchical view of the project structure, including 'Core Library M1 Maintenance' and various sub-components like 'Core Tests' and 'Documentation'. A callout points to this area as '元件 (元件版本)' (Component / Component Version).
- Top Right Pane (History):** Displays a table of changes for 'TestDog.java'.

合併	註解	建立者	建立日期
	24: Problem with build B20080123-1621-workshop.squawk.core...	April Blues	2008/1/24 上午 8:23
	Share projects	Jerry Jazz	2008/1/24 上午 4:05

A callout points to this pane as '程式修改歷程' (Code Change History).
- Middle Right Pane (Diff View):** Shows a side-by-side comparison of code between two versions of 'TestDog.java'. The left version has 'assertEquals("Bow-wow", ...)' and the right version has 'assertEquals("Woof", ...)'. A callout points to this pane as '前後版本比較' (Before/After Version Comparison).
- Bottom Right Pane (Component Content):** Shows a tree view of the project's file structure, including folders like 'src', 'net', 'jazz', 'uws', 'squawkers', and 'tests'. A callout points to this pane as '元件內容' (Component Content).
- Bottom Left Pane (Personal Workspace):** Shows a list of workspace elements, including 'Core Library [Main Development Line]' and 'Documentation [Main Development Line]'. A callout points to this area as '個人工作區' (Personal Workspace).

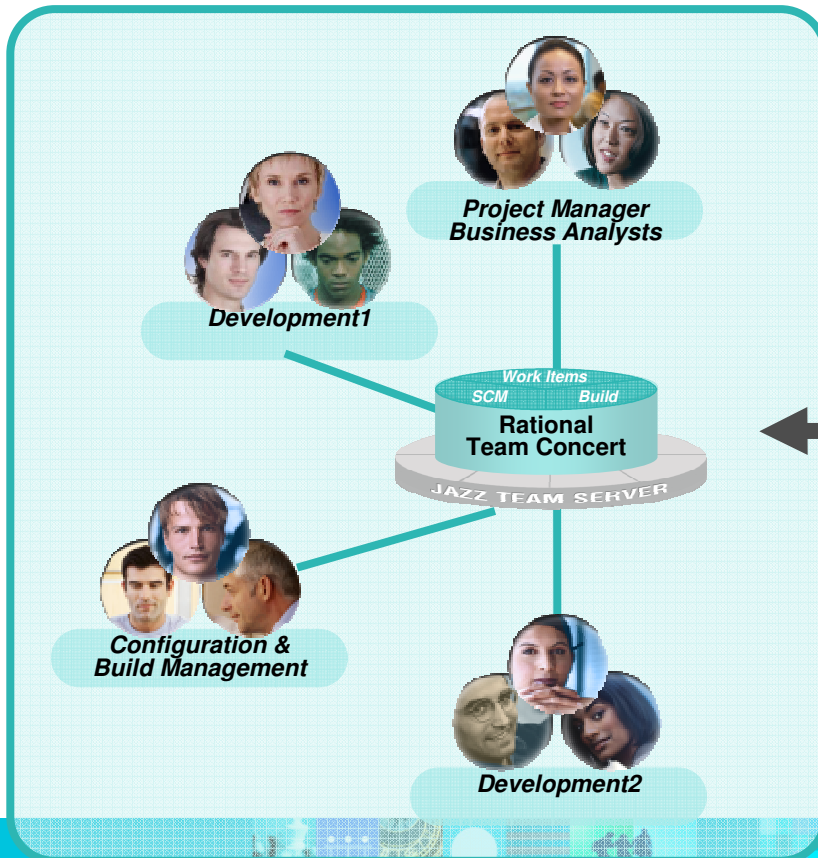
分散式的程式碼控管



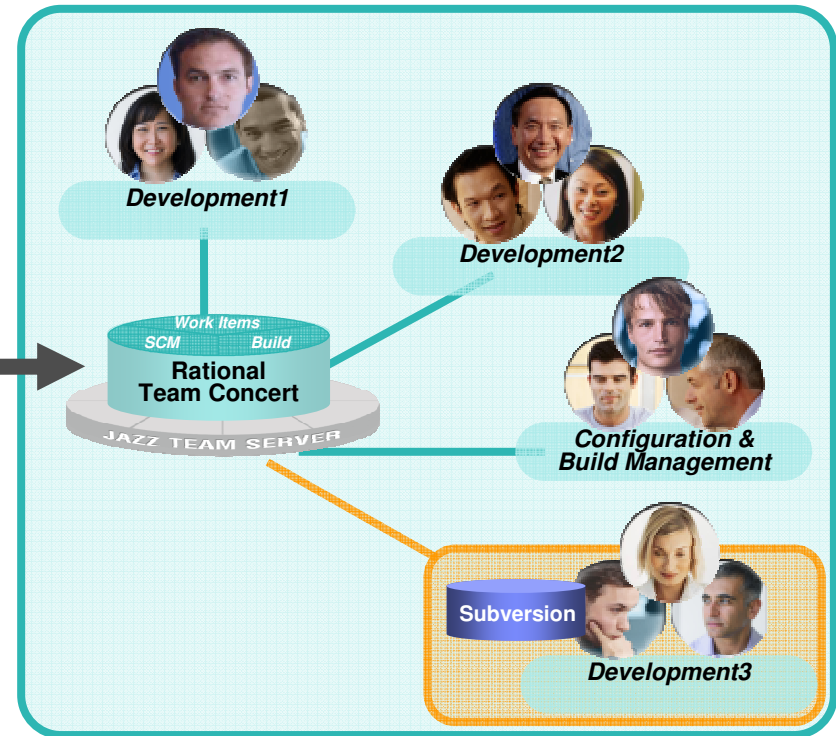
Distributed source control

You can now flow components and change sets between workspaces and streams hosted on different repositories. In the Pending Changes view, select a workspace and pick "Change Flow Target". The dialog now lets you pick a stream or a workspace from any repository you are connected to.

Site1

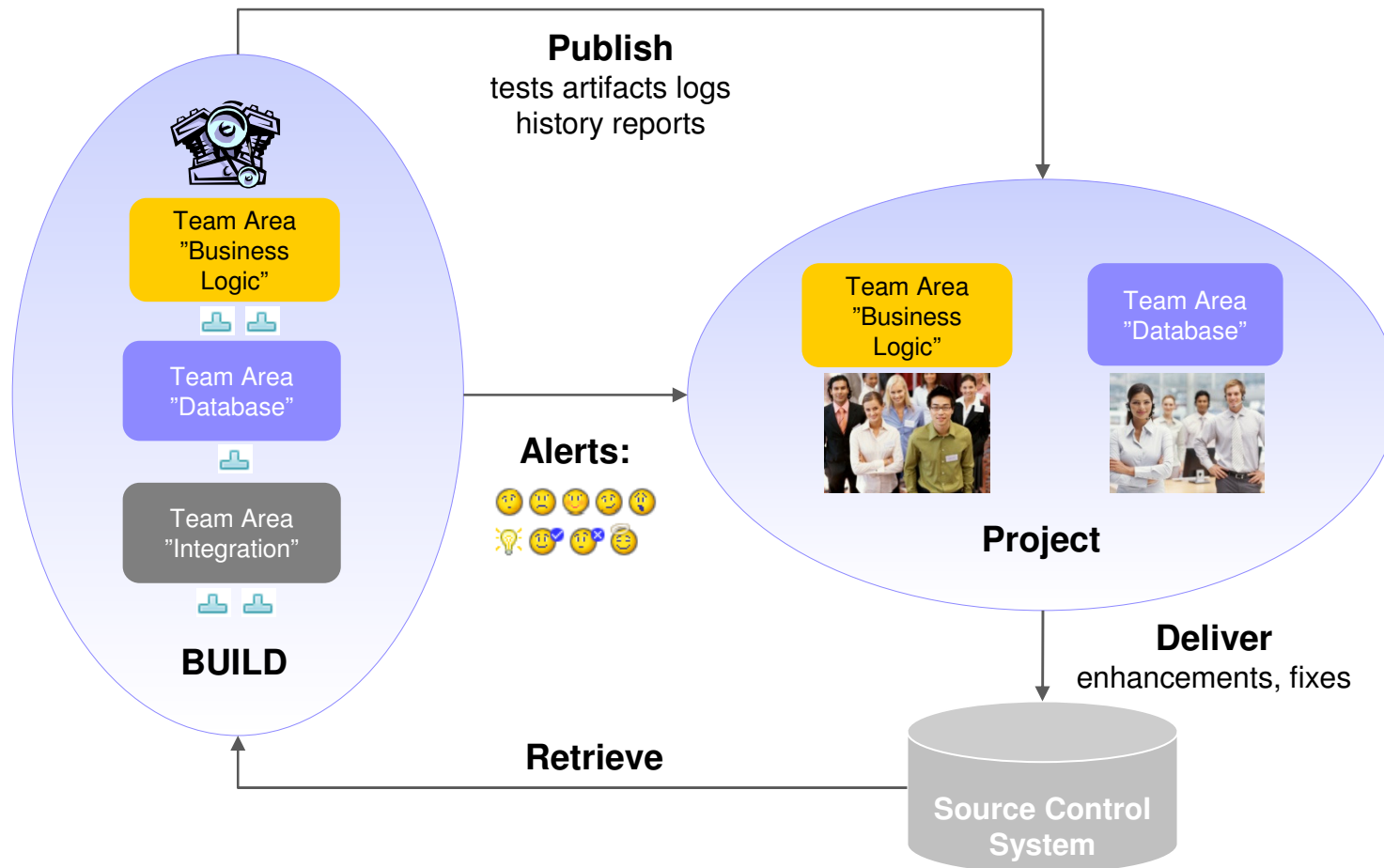


Site2



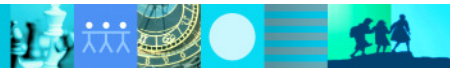
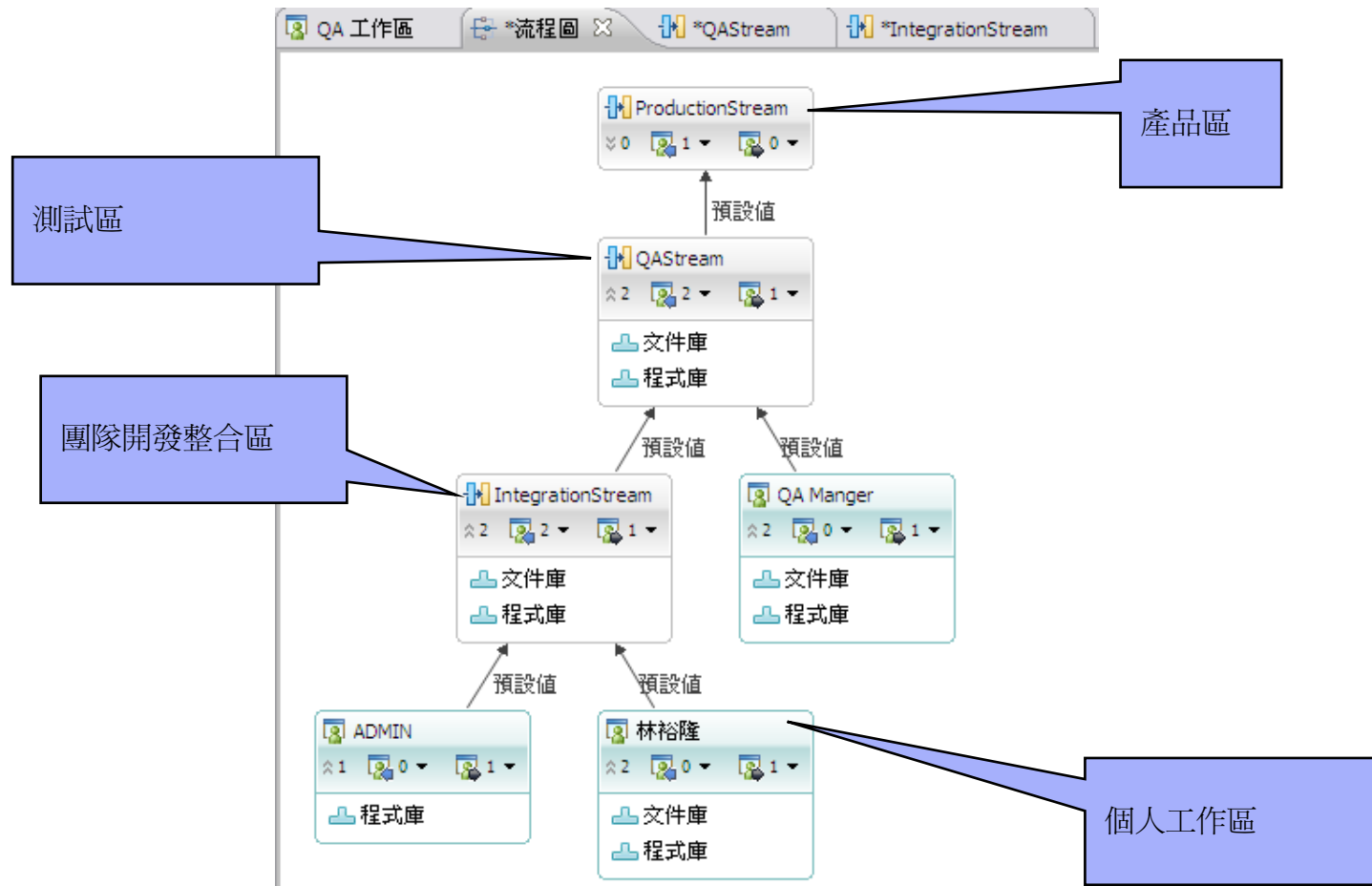
建置管理- Building the software

All build-related items belong to a project area, and build-related operations are governed by project progress



RTC 程式流程圖

-可以圖示化了解程式流向管理



建置管理(建置定義)

建置定義功能

建置引擎定義

建置排程

建置參數管理

建置程式源

建置腳本 (build script)

- 可用的建置範本 (I) :
- Ant - Jazz Build Engine
 - IBM i 建置規格 - Rational Build Agent
 - IBM i 指令 - Jazz Build Engine
 - IBM i 連續載入 - Jazz Build Engine
 - Jazz Build for Microsoft Visual Studio 解決方案 - Jazz Build Engine
 - Maven - Jazz Build Engine
 - Rational Build Forge
 - 含企業延伸的 Ant - Rational Build Agent
 - 指令行 - Jazz Build Engine
 - 指令行 - Rational Build Agent
 - 相依關係建置 - Rational Build Agent
 - 通用

建置發動及建置記錄

團隊構件 團隊組織

所有團隊區域 (已選取 7 個團隊區域, 總共有 7 個)

- 儲存庫連線
 - Squawk [192.168.44.133]
 - 工作項目
 - 串流
 - 建置
 - 建置引擎
 - Synchronize RTC_CC_Connector_Squawk_Rel1
 - squawk.m1.core.continuous.maintenance.build
 - squawk.m1.maintenance.build
 - workshop.squawk.core.continuous.build**
 - workshop.squawk.core.continuous.vs2005
 - workshop.squawk.core.integration.buildforge
 - workshop.squawk.integration.build
- 計劃
 - 報告
 - My Reports
 - Shared Reports
 - 報告範本
- 工作項目歷程
 - 474: Clean up the Car-squawker
 - 昨天
 - 471: Support other types of technologies like auc
- 我的最愛
 - 我的團隊區域
 - Squawk Maintenance Team [M1 Maintenance]
 - April Blues
 - Jason Lin
 - Jerry Jazz
 - Zach Builder
 - Zara Intern
 - 我的儲存庫工作區
 - Jason Squawk Integration 工作區 (已載入)
 - Core (16 : v20080321-publish-m5)
 - Core Tests (10 : v20080321-publish-m5)
 - Documentation (9 : v20080321-publish-m5)
 - UI (6 : v20080321-publish-m5)
 - UI Tests (7 : v20080321-publish-m5)
- 資訊來源
 - squawk.m1.maintenance.build 的建置事件 (1)
 - Squawk 中的我的團隊 (35)
 - 我的工作項目變更 (1)
 - 我的團隊的建置事件 (1)
 - 疊代計劃 : Core for M2 1.0 M2 (5)

要建

建置 workshop.squawk.c...

✓ 已完成

持續時間: 23 秒

開始時間: 2008年4月8日 上午 6:53:5...

已完成: 2008年4月8日 上午 6:54:1...

狀態趨勢: [Progress Bar]

要素項摘要

下載項目: 1 個下載項目

外部鏈結: 1 個鏈結

日誌: 1 個日誌

JUnit: 4 個測試, 0 個失敗, 0 個錯誤

Snapshot: workshop.squawk.core...

編譯: 0 個錯誤, 0 個警告

儲存庫工作區: workshop.squawk.core...

工作項目: 包含在建置中的 1

變更: **顯示變更**

變更瀏覽器

比較 workshop.squawk.core.continuous.build_B20080407-1553 和 workshop.squawk.core.continuous.build_B20080314-1507

Build Scripts

- Zach Builder - 37: Build scripts need to be adapted to conform to https connection requirement - Revert: debug repo address property value
- net.jazz.uws.build_scripts/net.jazz.uws.build.squawk.core
- build.xml
- Zach Builder - 37: Build scripts need to be adapted to conform to https connection requirement - debug repo address property value
- Zach Builder - 37: Build scripts need to be adapted to conform to https connection requirement

針對這項建置沒有產生任何報告

歷程

5 : workshop.squawk.core.continuous.build_B20080407-1553 中的 build.xml

合併	詳細	建立者	建立日期
37: Build scripts need to be adapted to conform to https connection require...		Zach Builder	2008/4/8 上午 6:52
37: Build scripts need to be adapted to conform to https connection require...		Zach Builder	2008/4/8 上午 6:50
37: Build scripts need to be adapted to conform to https connection require...		Zach Builder	2008/4/8 上午 6:44
34: Add a build property for the build label prefix - add build prefix to the se...		Zach Builder	2008/3/14 上午 4:30
33: Build Activities page incorrect - minor refinements		Zach Builder	2008/3/8 上午 6:58
33: Build Activities page incorrect - add autocomplete property to startBuild...		Zach Builder	2008/3/8 上午 6:03
33: Build Activities page incorrect - added completeTaskActivity		Zach Builder	2008/3/8 上午 5:51
30: Problem with build 20080303-1017 - cleanup core build. add changes in ...		Zach Builder	2008/3/4 上午 2:54
30: Problem with build 20080303-1017 - replace activityId with activityIdPro...		Zach Builder	2008/3/4 上午 2:47
30: Problem with build 20080303-1017 - removed taskDef for task ChangeS...		Zach Builder	2008/3/4 上午 2:41
29: Update compile task progress text		Zach Builder	2008/2/14 上午 5:36
26: Simplify build setup - Remove checks for compiler and junit jars not that ...		Zach Builder	2008/1/29 上午 5:50
19: Add Support of build of the integrated Squawk application - Share projects		Zach Builder	2008/1/24 上午 7:34

相關聯的版本

已建立版本的建置會提供作為工作項目

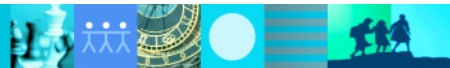
建立版本並和這項建置產生關聯

文字比較

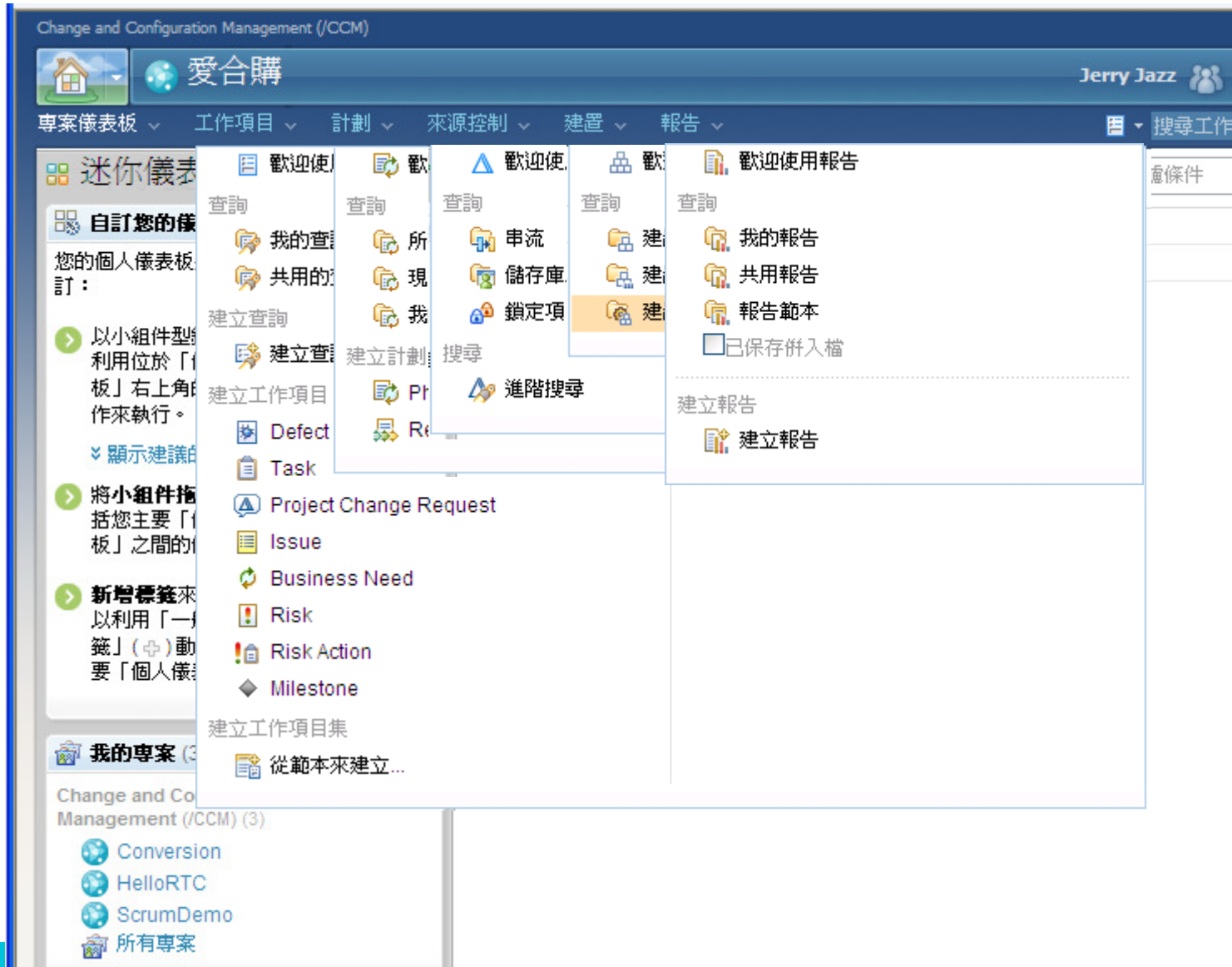
build.xml	build.xml
depends="checkEnv, runBuild" />	depends="checkEnv, runBuild" />
<target name="runBuild">	<target name="runBuild">
depends="setBuildLabel, compile, test, publishLinks">	depends="setBuildLabel, compile, test, publishLinks">
<echo message="Build \${buildDefinitionId} completed." />	<echo message="Build \${buildDefinitionId} completed." />
</target>	</target>
<target name="setBuildLabel">	<target name="setBuildLabel">
<tstamp>	<echo>"repo address: \${repositoryAddress}"</echo>
<format property="label" pattern="yyyyMMdd-HHmm" />	<tstamp>
</tstamp>	<format property="label" pattern="yyyyMMdd-HHmm" />
</target>	</tstamp>
buildResultUUID="\${buildResultUUID}"	<buildResultPublisher label="\${buildLabelPrefix}\${label}"
repositoryAddress="\${repositoryAddress}"	buildResultUUID="\${buildResultUID}"
userId="\${userId}"	repositoryAddress="\${repositoryAddress}"
password="\${password}" />	userId="\${userId}"
</target>	password="\${password}" />
<target name="compile">	</target>
<!-- Update the build progress in Jazz by setting the curr	<target name="compile">
<startBuildActivity activityIdProperty="compileActivity"	<!-- Update the build progress in Jazz by setting the
label="Compile"	label="\${buildLabelPrefix}\${label}"
autoComplete="true"	activityIdProperty="compileActiv
</target>	label="Compi">

Agenda

- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- 專案管理與風險管理
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- **專案監控與管理**
- 總結



RTC Web 2.0 介面



專案/團隊/個人儀表板

The dashboard displays several key metrics and trends:

- Recently modified (5):** A list of recent updates, including items like "1592: figure how to install and use doc test tool" and "1587: Use Quick Start Guide source from RTC to create RTCi version".
- Closed Work Items by Priority:** A stacked area chart showing the number of closed items over time, categorized by priority: Unassigned, Low, Medium, and High.
- New Work Items by Severity:** A bar chart showing the frequency of new work items, categorized by severity: Minor, Normal, Major, Critical, and Blocker.
- Blocking Work Items:** A line chart showing the count of blocking work items over time.
- Open vs Closed Work Items:** A stacked area chart comparing the number of open and closed work items over time.
- Open Work Items by Type:** A stacked area chart showing the distribution of open work items by type: Testcase, Minutes, Story, Retrospective, RFS, Defect, and Task.
- Open Work Items by Priority:** A chart showing the distribution of open work items by priority.

Callouts provide additional context for these charts:

- 已結案工作項目統計:** Points to the 'Closed Work Items by Priority' chart.
- 障礙工作統計:** Points to the 'Blocking Work Items' chart.
- 新開立工作數時間序列:** Points to the 'New Work Items by Severity' chart.
- 開立/結案工作統計:** Points to the 'Open vs Closed Work Items' chart.
- 依類別統計之未結案工作:** Points to the 'Open Work Items by Type' chart.

成員溝通

可看見團隊成員的進度

可透過Instant Messengers 與其他專案成員討論

我的工作 團隊構件 團隊核心

我的開發工作項目 依優先順序 (下午 9:02)

事件日誌 79 個未讀取

團隊工作量 Core Library · 現行 [1.0 M2]

	工作量: 0 / 522 +522 小時	預估: 100%
	工作量: 8 / 522 +514 小時	預估: 100%
	工作量: 8 / 326 +318 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%
	工作量: 0 / 326 +326 小時	預估: 100%

Work Items - Mailing List 2 - Rational Team Concert

File Edit Navigate Search Project Run Window Help

MLGMTNC.CLP *42: RPG component - Add "internal address" feature

Task 42

Summary: * RPG component - Add "internal address" feature

Attachments

ID	Name	Created	Created by
1	Design Document for new RPG feature.doc		

Links

Change Sets

Changes in Mailing List RPG Component - Joe Demo Dev1 10/13/08 6:28 PM

Jabber

Work Items Tag Cloud Problems Team Advisor Chat Builds

Chat (2 Participants) [jazz-server]

Student1: Hi Dear SA, please review my work item [task 42](#).

Manager: Ok I see. Good Job

Participants: Jerry Jazz, student2, student1

<No Current Work>

Sametime

Kevin_Haaland@ca.ibm.com [started: 18:28:50]

Type to find name

Kevin (K.G.)

Kevin (K.G.) Haaland
Eclipse Project Lead
1-615-356-5029 / Ottawa, Ontario, CA
I am available @ 2670 Queensview Drive (Sametime 7.5.1)

kartik@ca... story 45274

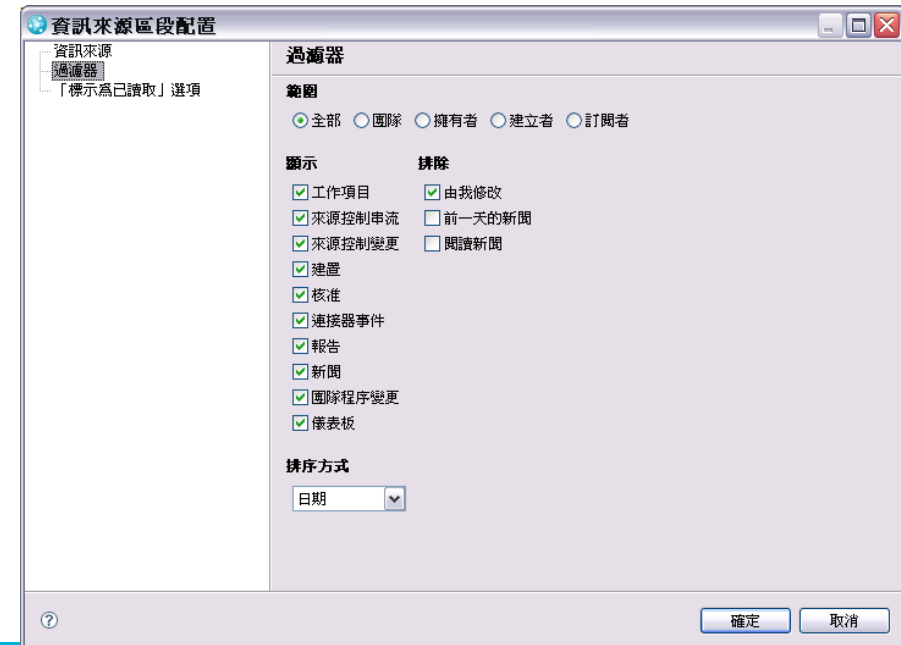
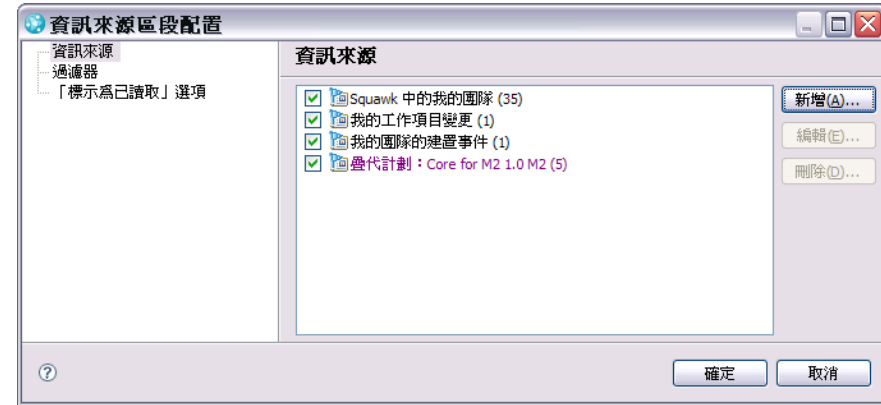
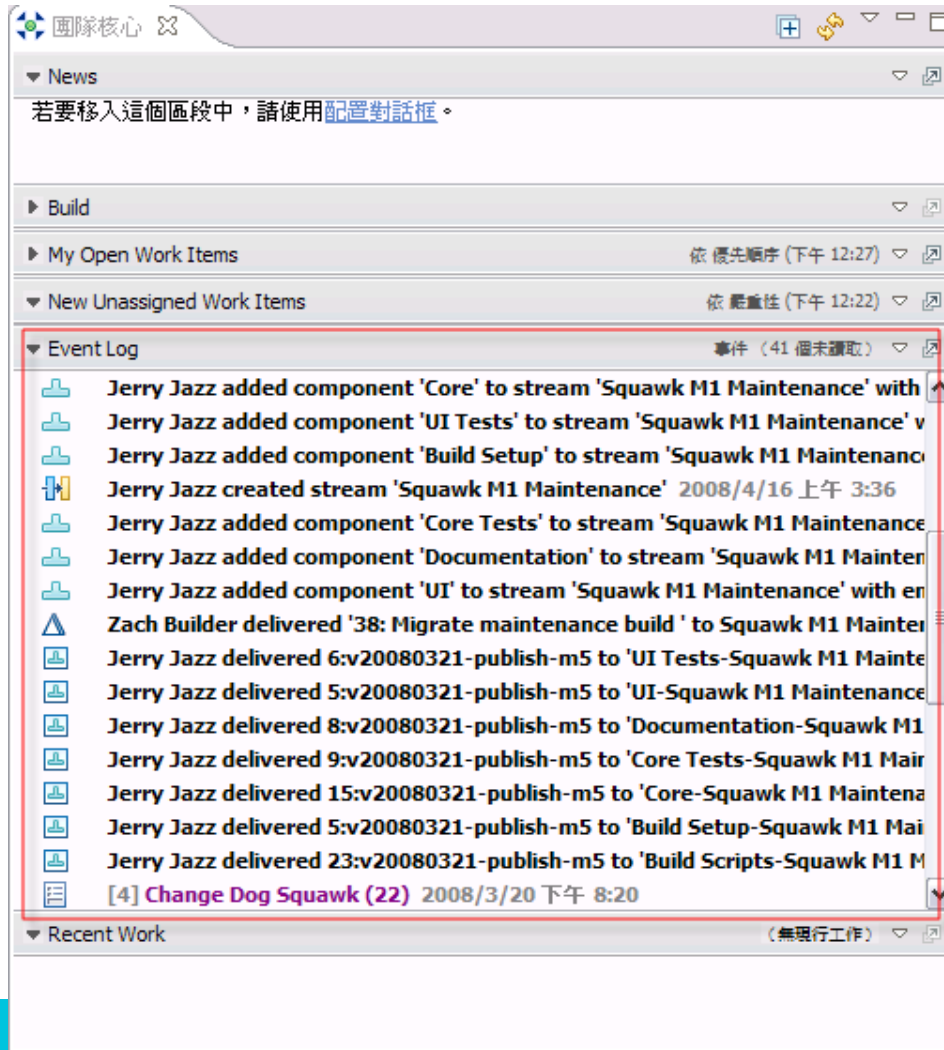
Kevin_Ha... looking at it now

* Yes we are on track, the next build will have
of these issues addressed

kartik@ca... thanks

Kevin_Ha... np

RSS事件訂閱-掌握即時資訊



RTC 可設定專案的存取權限原則

專案區域 ▾
Duke Project [顯示於團隊組織](#) [開啓專案](#)

存取控制
配置哪些使用者具有專案區域和其構件的讀取權。如果您授與存取權給專案區域階層中的成員，任何人只要在任何團隊中新增成員，就隱含授與存取權給整個專案。為求授與存取權給存取清單中的使用者。請注意，儲存庫管理者一律具備存取權。

授與讀取權給：

- 每個人
- 無人 (僅儲存庫管理者)
- 專案區域階層中的成員
- 專案區域階層中的成員和下列存取清單中的使用者
- 僅存取清單中的使用者

瀏覽存取清單
瀏覽存取清單中的現行使用者。請輸入使用者名稱，以搜尋特定的使用者 (* = 任何字串，空格 = 單字邊界)。

比對存取清單中的使用者 (找到 0 位使用者)：

管理存取清單
在存取清單中新增與移除使用者。擱置的變更會顯示於下方，直到儲存編輯器為止。在儲存之後，請使用上方區段來瀏覽存取清單。

擱置的變更：(新增 1 位)

張向昇 擱置的新增



RTC 可依角色設定各項動作的權限

專案區域 ▾ Duke Project 顯示於團隊組織 開啟專案的 Web 使用

配置 ▾

- 角色
- 專家配置
- 團隊配置
- 許可權
- 作業行爲
- 事件處理 (未配置)
- 疊代類型
- 時間表

許可權

配置允許各角色執行的動作。使用者可以執行已授予他們的任何指派角色的所有動作。儲存庫中的所有使用者都有隱含的「每個人」角色。當團隊自訂作業授予角色的許可時，這些許可權只適用於這個團隊區域及任何子項團隊區域。團隊自訂作業能夠以較少的許可權來重新配置作業，以移除角色的許可權。

依角色顯示動作 顯示所有動作及角色

角色：

- 每個人 (預設值)
- 產品擁有者
- Scrum 主體
- 團隊成員
- 股東

允許的動作：

- 工作項目
 - 刪除查詢 (伺服器)
 - 儲存工作項目 (伺服器)
 - 儲存查詢 (伺服器)
- 來源控制
 - 交付 (伺服器)
 - 儲存 Snapshot (伺服器)
 - 儲存元件 (伺服器)
 - 儲存串流 (伺服器)
 - 儲存基準線 (伺服器)
- 建置
 - 刪除建置引擎 (伺服器)
 - 刪除建置定義 (伺服器)
 - 刪除建置結果 (伺服器)
 - 取消擱置的建置要求 (伺服器)
 - 放棄建置 (伺服器)
 - 要求建置 (伺服器)
 - 控制建置的生命週期 (伺服器)
 - 儲存建置引擎 (伺服器)
 - 儲存建置定義 (伺服器)
 - 儲存建置結果 (伺服器)
- 計劃
 - 刪除計劃 (伺服器)
 - 儲存計劃 (伺服器)
- 報告
 - 部署報告 (伺服器)
 - 部署報告範本 (伺服器)

可針對不同角色設定所允許的動作

最終 (在子項團隊區域中，忽略這項作業的自訂作業)

許可權遭拒時所要顯示的說明：

隱含地指派給每位使用者的預設角色。不能指派、移除或重新排序這個角色。

概觀 | 鏈結 | 程序配置 | 程序配置來源 | 存取控制 | 工作項目種類 | 版本

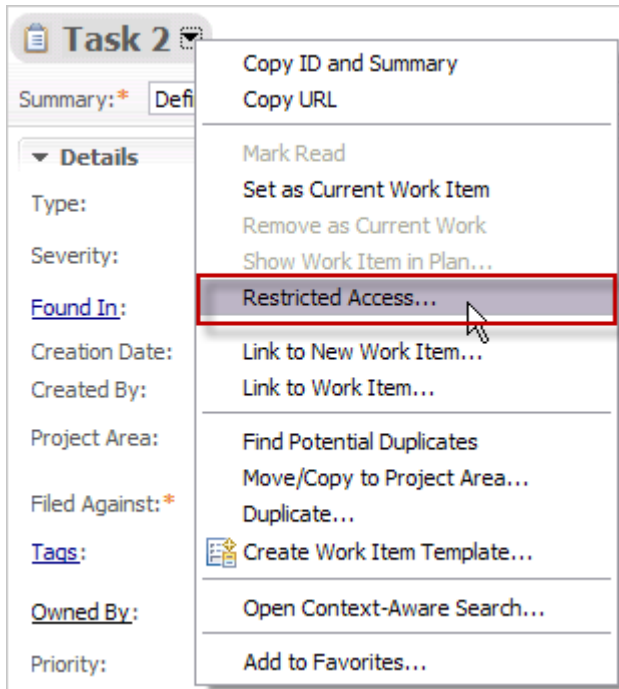
RTC 的檔案權限管控

The screenshot displays the IBM Rational Team Concert (RTC) interface. On the left, a tree view shows the project structure, including 'IntegrationStream (團隊 1)' and its sub-elements like '文件庫 (1: 起始基準線)' and '程式庫 (1: 起始基準線)'. The main window shows the 'IntegrationStream' details, including the owner '團隊 1' and a description '團隊 1 的主要協同作業串流'. A dialog box titled '選擇使用者或團隊區域' is open, showing a list of users and teams, with '團隊 1 [主要開發]' selected. A context menu is open over a file named 'HelloWorld.java', with the '鎖定 (L)' option highlighted. Two blue callout boxes provide additional context: one points to the user selection dialog with the text '可設定有權存取元件的群組或個人', and the other points to the '鎖定' menu item with the text '可針對單一程式鎖定(Lock)權限避免被修改'.

資料權限的控制

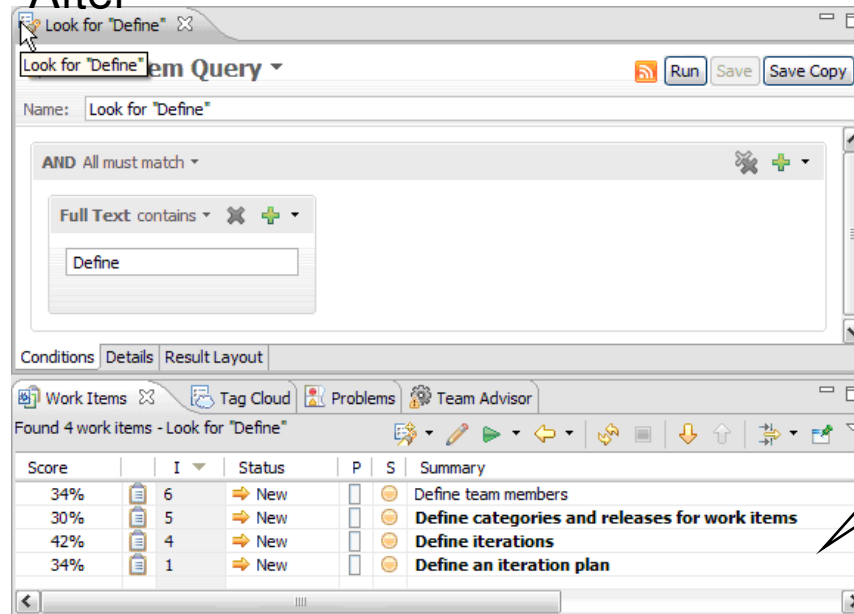
-透過 Retricted Access 来控制有权限的人才可看到

Before

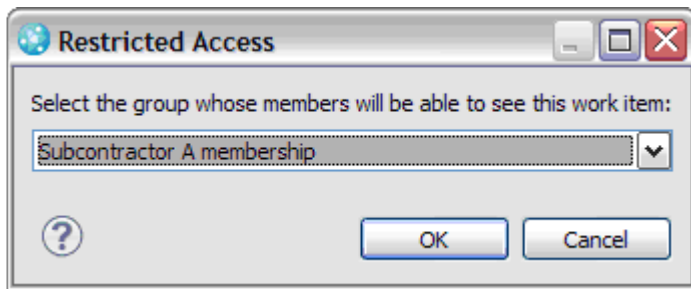


Score	I	Status	P	S	Summary	Owned By
34%	6	New			Define team members	Philippe (Main)
30%	5	New			Define categories and releases for work items	Philippe (Main)
42%	4	New			Define iterations	Philippe (Main)
34%	2	New			Define a new build	Philippe (Main)
34%	1	New			Define an iteration plan	Philippe (Main)

After



看不到 Task2



Agenda

- 專案開發所面臨的挑戰
- RTC3.0架構與介紹
- 專案管理與風險管理
- 工作項目管理
- 版本管控與多點(Multi-Site)開發管理
- 專案監控與管理
- **總結**



Gartner Report for ALM(11 Nov 2010)

Figure 1. MarketScope for Application Life Cycle Management

	RATING				
	Strong Negative	Caution	Promising	Positive	Strong Positive
AccuRev			X		
Aldon			X		
Atlassian				X	
CollabNet				X	
Digite			X		
HP				X	
IBM					X
Kovair			X		
Micro Focus			X		
Microsoft				X	
MKS				X	
Parasoft			X		
Polarian Software			X		
Rally Software				X	
Seapine Software			X		
Serena Software				X	
SmartBear Software			X		
TechExcel			X		
ThoughtWorks			X		
VersionOne				X	

IBM是唯一的
Strong Positive

RTC 3.0輕鬆上手體驗營

Welcome to RTC 3.0 Lab !!

歡迎參加 RTC 3.0輕鬆上手體驗營。RTC 的設計理念是希望讓軟體開發團隊成員在簡單容易上手的工具當中，落實最佳化軟體開發流程。

RTC 支援的工作包括專案進行前的規劃、進行中的工作溝通、以及事後的稽核。讓真實專案進度呈現出來，讓煩瑣的追蹤報告由工具代勞，讓專案成員專注核心開發工作。

現在就開始進入我們的體驗課程。



Driving Business Differentiation



Learn more at:

- [IBM Rational software](#)
- [IBM Rational Software Delivery Platform](#)
- [Process and portfolio management](#)
- [Change and release management](#)
- [Quality management](#)
- [Architecture management](#)
- [Rational trial downloads](#)
- [developerWorks Rational](#)
- [IBM Rational TV](#)
- [IBM Rational Business Partners](#)

© Copyright IBM Corporation 2007. 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, the on-demand business logo, Rational, the Rational 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.

