

| IBM Software Group

使用RTC3.0實行委外專案管理案例分析

Rational software

Go to IBM

Senior IT/Specialist
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IBM, SWG, Rational

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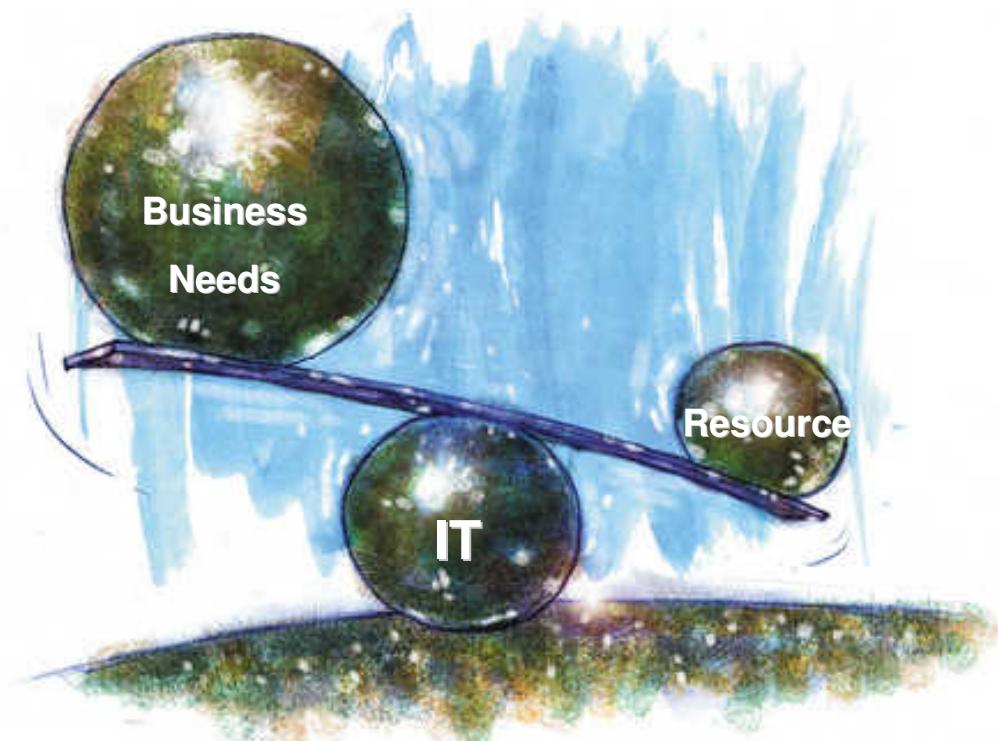
軟體開發團隊的窘境

—Software Development Must Deliver

- ✓ More business solutions
- ✓ More flexibility
- ✓ More quality
- ✓ More business value

-yet-

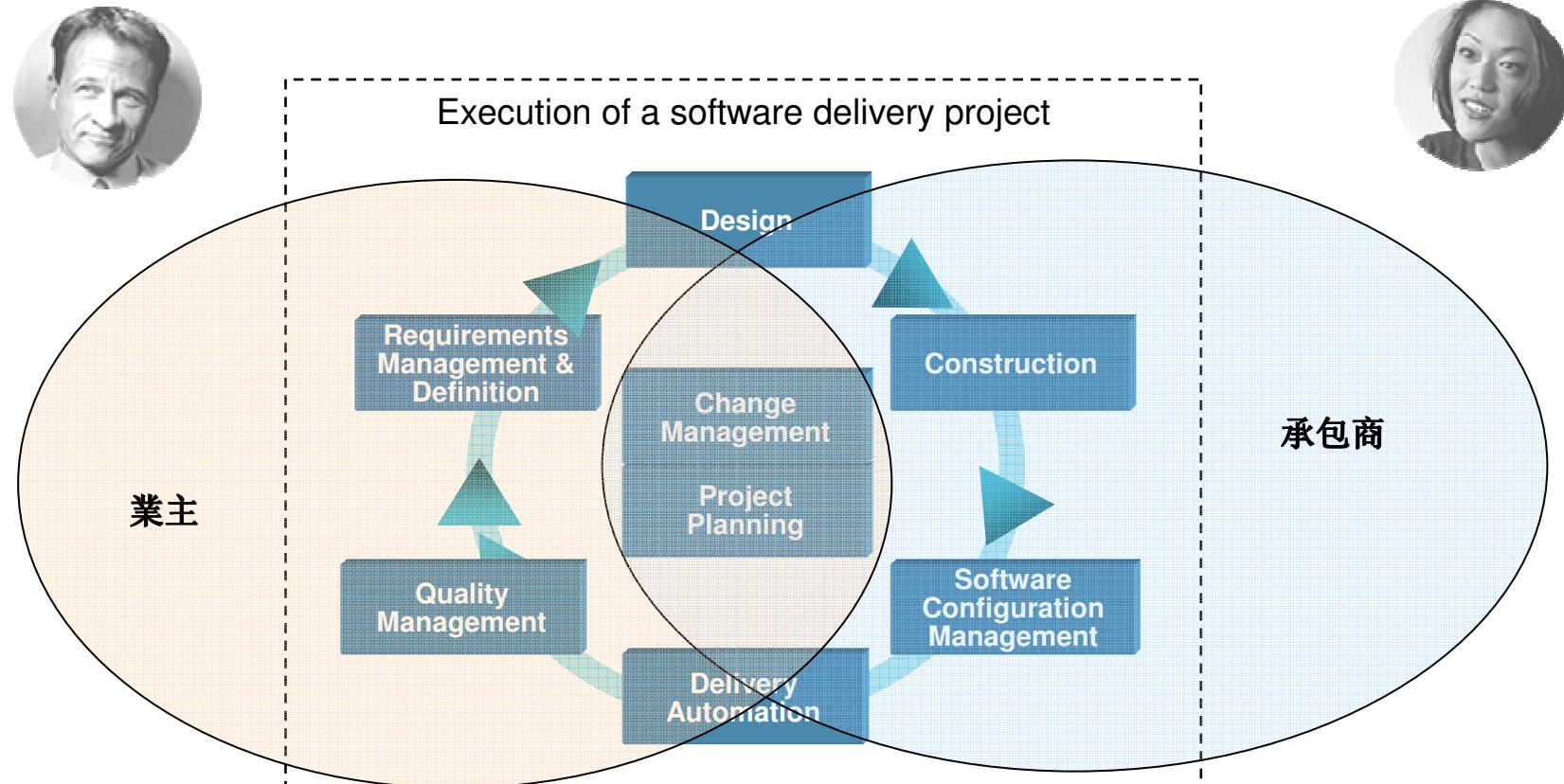
- ✓ Less risk
- ✓ Less costs
- ✓ Less or flat resources



有限的時間、開發人力下，**外包**成爲**IT Manager** 考量的選項之一。

但**外包**是否真能解決問題？還是製造更多問題？

協同開發的角色分工



COLLABORATE

Achieve common goals by optimizing how people work together

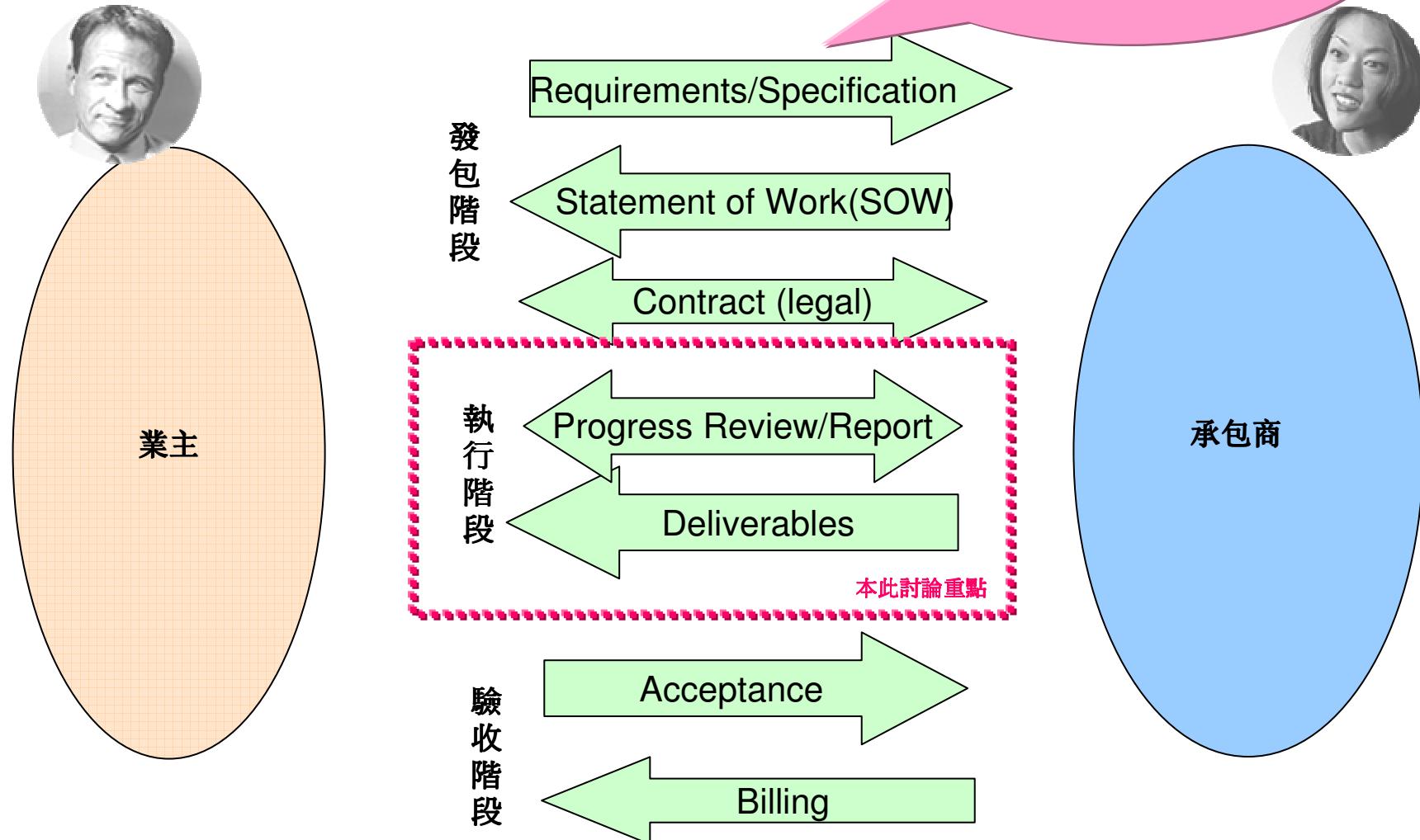
AUTOMATE

Increase efficiency and predictability automating non-creative tasks

REPORT

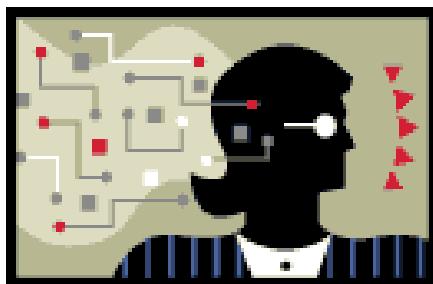
Continuously improve by measuring and steering progress in real time

業主與承包商之間的作業流程



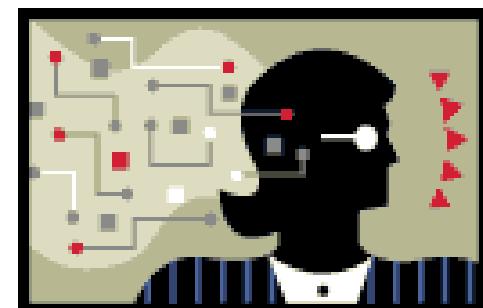
外包執行階段所面臨的議題 ---從**業主**的角度

- 如何保持核心競爭力，又能彈性運用外包資源？
- 如何掌握承包團隊的工作進度及交付品質？
- 如何知道承包人力是否合理評估，是否高估人力？
- 如何限制承包團隊的程式存取，如何整合外包團隊的程式交付？
- 現行核心團隊的工作流程已順暢運行，在融入承包團隊時，可否僅量減少改變？
- 建立外包工作管理平台時，如何避免冗長的導入時間，快速看到成果？
- 承包團隊處在遠地時，平台是否支援？



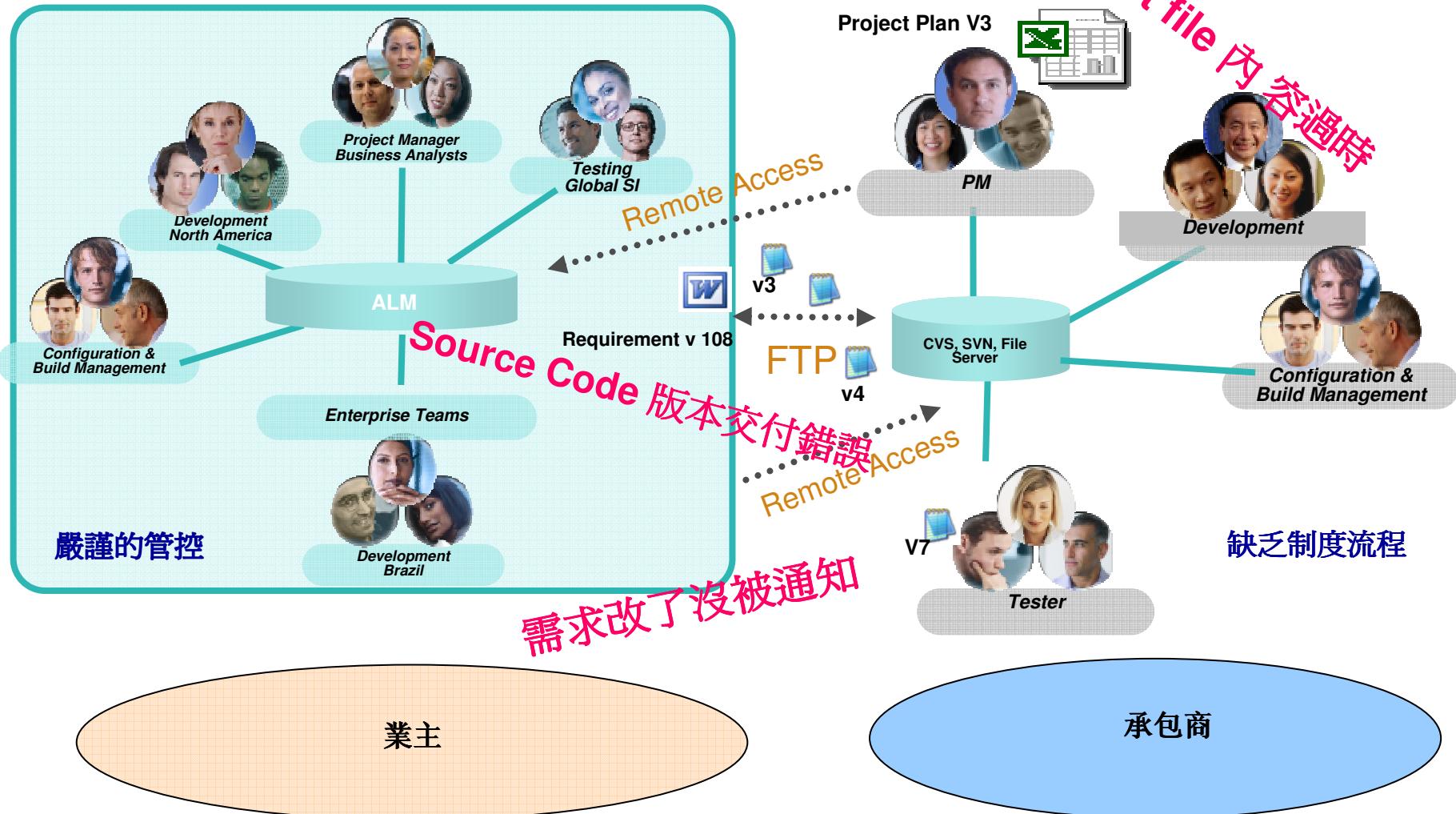
外包執行階段所面臨的議題 ---從**承包商**的角度

- 如何建立雙方認同的工作範圍、工作細項，以利控制專案成本？
- 如何掌握團隊的工作進度及交付品質？
- 如何知道承包人力是否合理評估，是否低估成本？
- 擁有自己的專案程式管控區，階段性測試完成之後再行交付。
- 開發管理平台是否容易上手，現有版控系統是否容易轉換？
- 導入平台時，如何避免冗長的導入時間，快速看到成果？
- 承包團隊處在遠地時，平台是否支援？



現行常見的外包開發合作模式

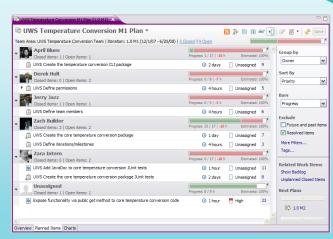
業主已建立開發流程，但外包人員不得使用，不受管控



Review: Rational Team Concert 主要功能

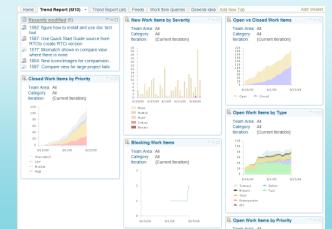
專案計劃

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



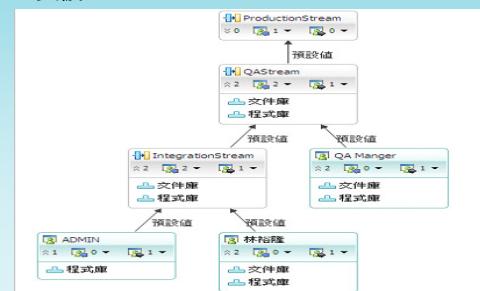
專案監控

- 可客製化的儀表板
- 即時的工作追蹤資訊及報告
- 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) 追溯資訊
- 支援Server-based sandboxes

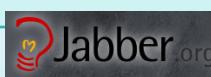


表單及流程管理

- 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

- 回版記錄可與工作單、變更記錄追蹤
- 支援本端及遠端編譯



- 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板



Apache Tomcat

Jazz 團隊伺服器

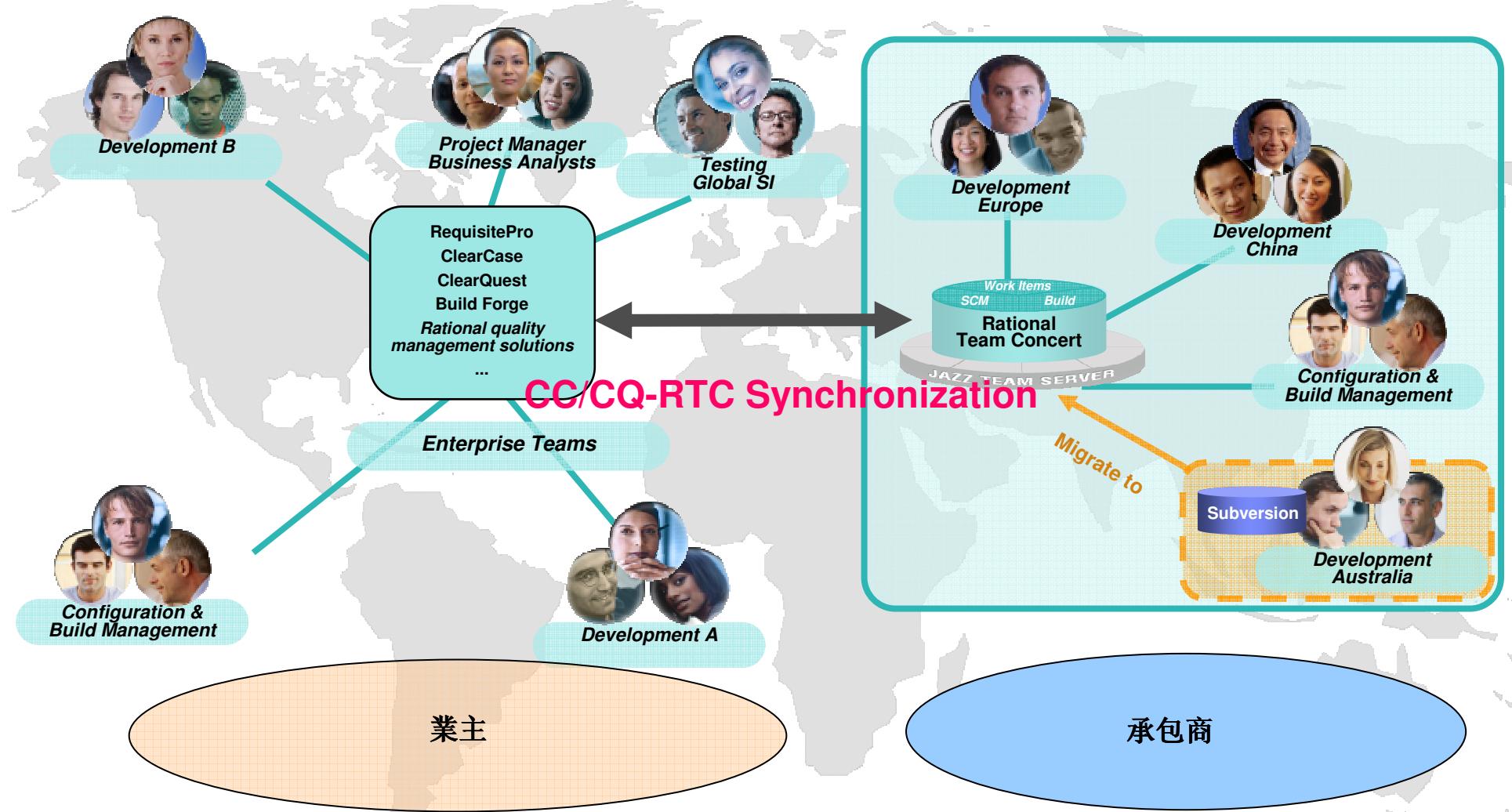


- Team advisor 功能，可定義專案流程規則，持續改善專案交付品質
- 可定義專案流程並強制流程落實
以工作產出為基礎的協同合作，即時顯示成員的狀況及進行中的工作

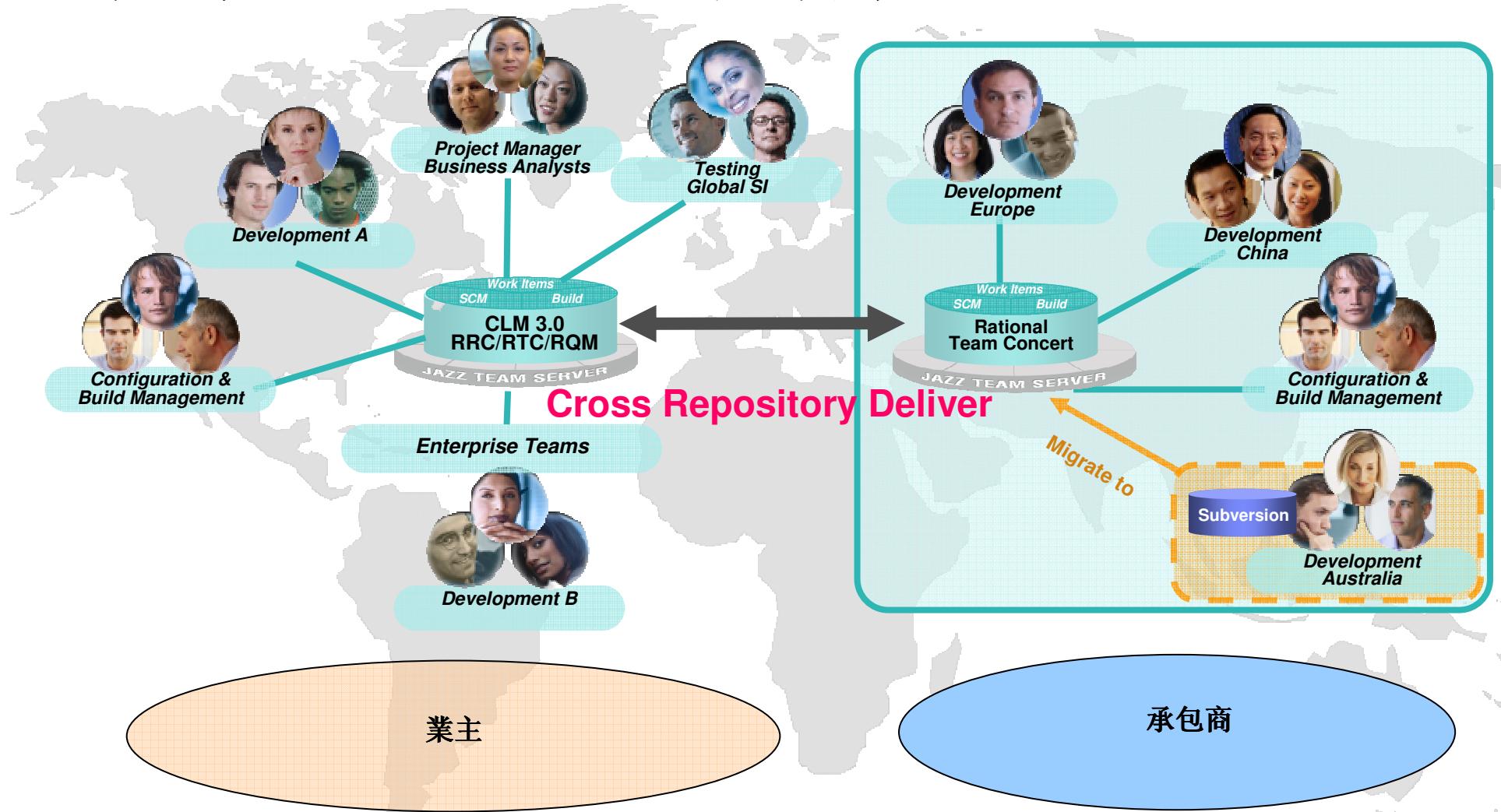


Solution 1: CC/CQ – RTC 整合平台

承包商導入RTC 平台，並建立自動化交付機制

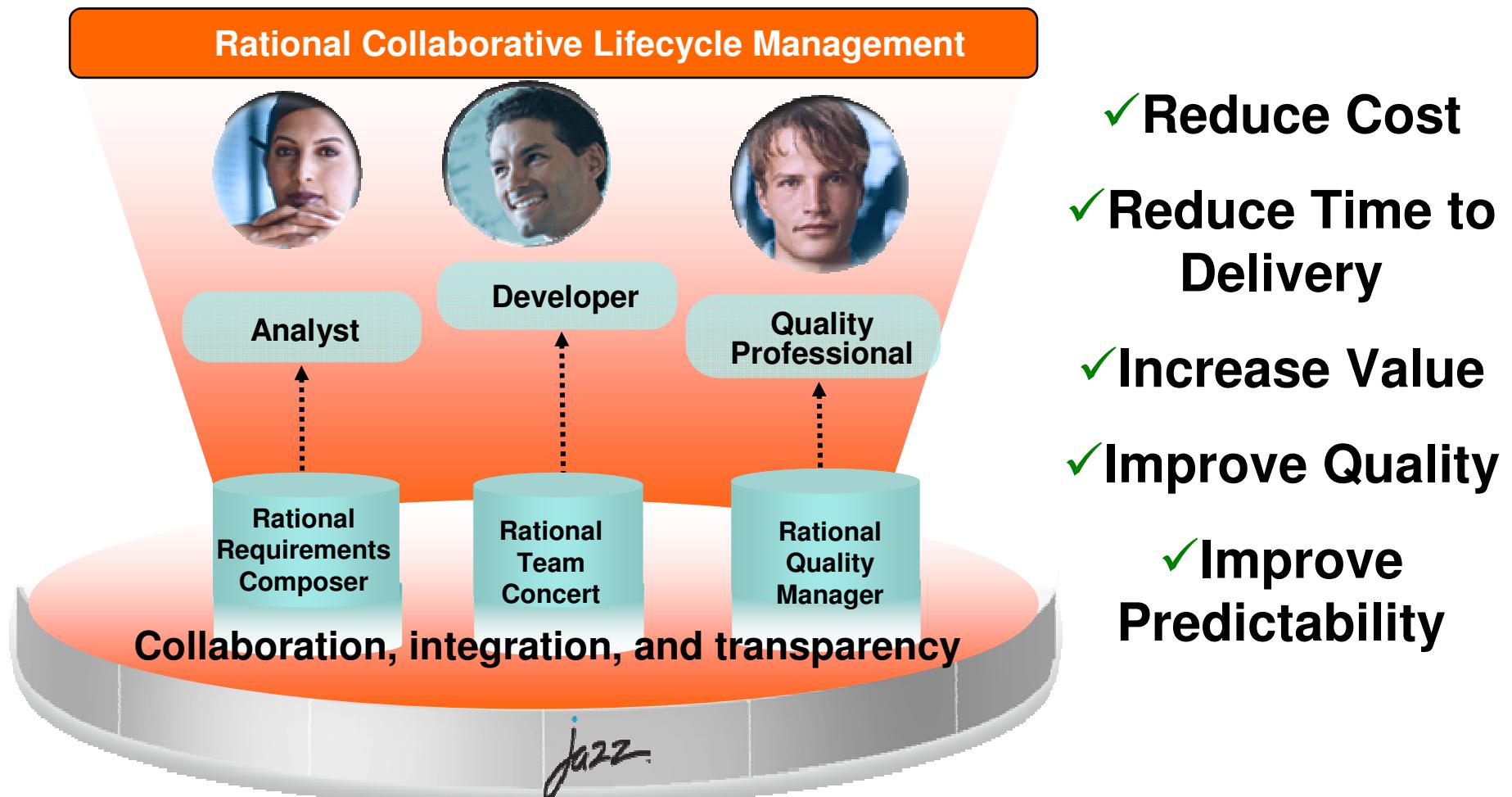


Solution 2 : RTC 3.0 分散式SCM平台 業主導入RRC/RTC/RQM、承包商導入RTC



Collaborative Lifecycle Management 3.0

Deliver greater value through integration



承包商使用 RTC 3.0 的案例說明

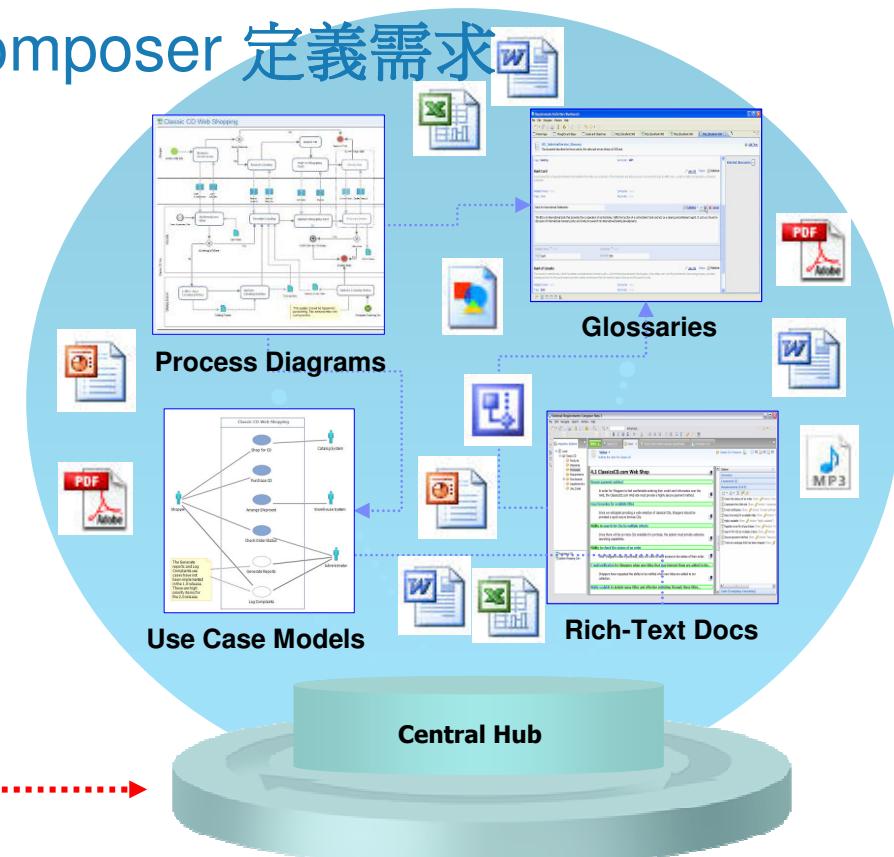
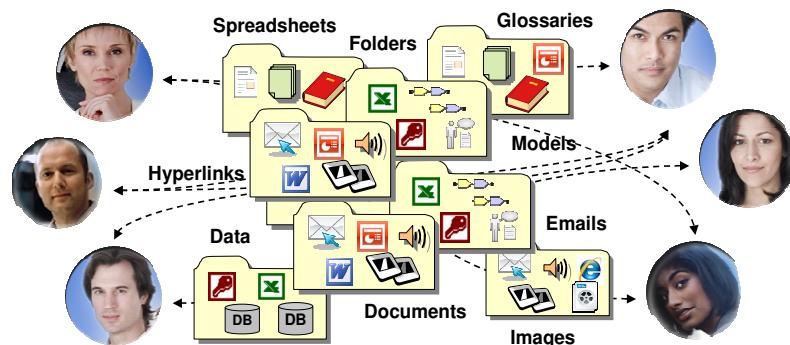


需求階段



業主:

使用 Rational Requirements Composer 定義需求



- **Engage stakeholders** early and often to converge on the “right” requirements faster
- Improve agility and align project activities with customer value
- **Reduce rework and get to market faster**

“The vast array of options linking artifacts sensibly with one another [in RRC] give it a definite benefit over using older, document-based approach to defining requirements ... This product is clearly a step up from our current methodology.”

- Randy Haven, IBM Global Business Services

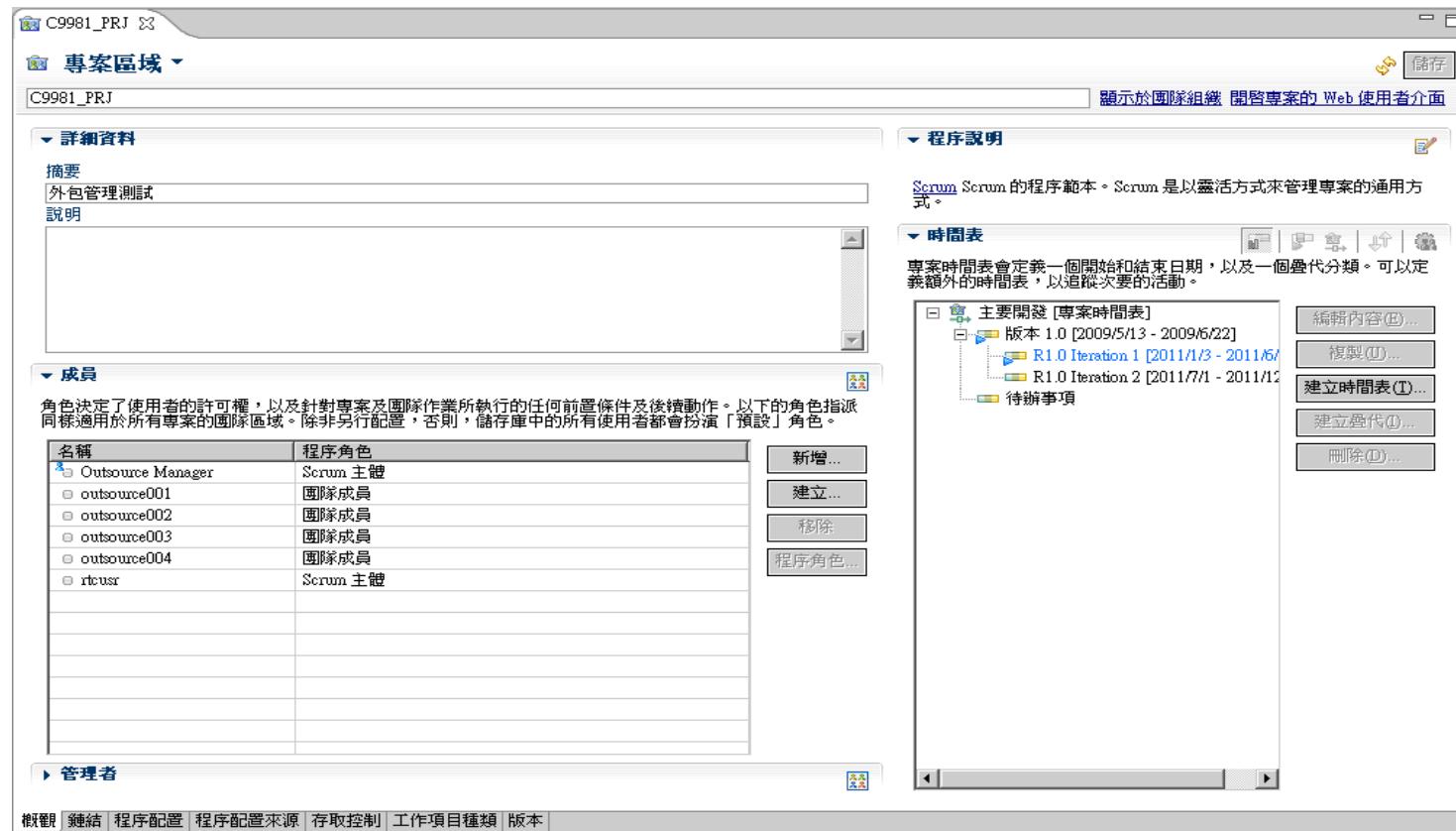


執行階段



業主:

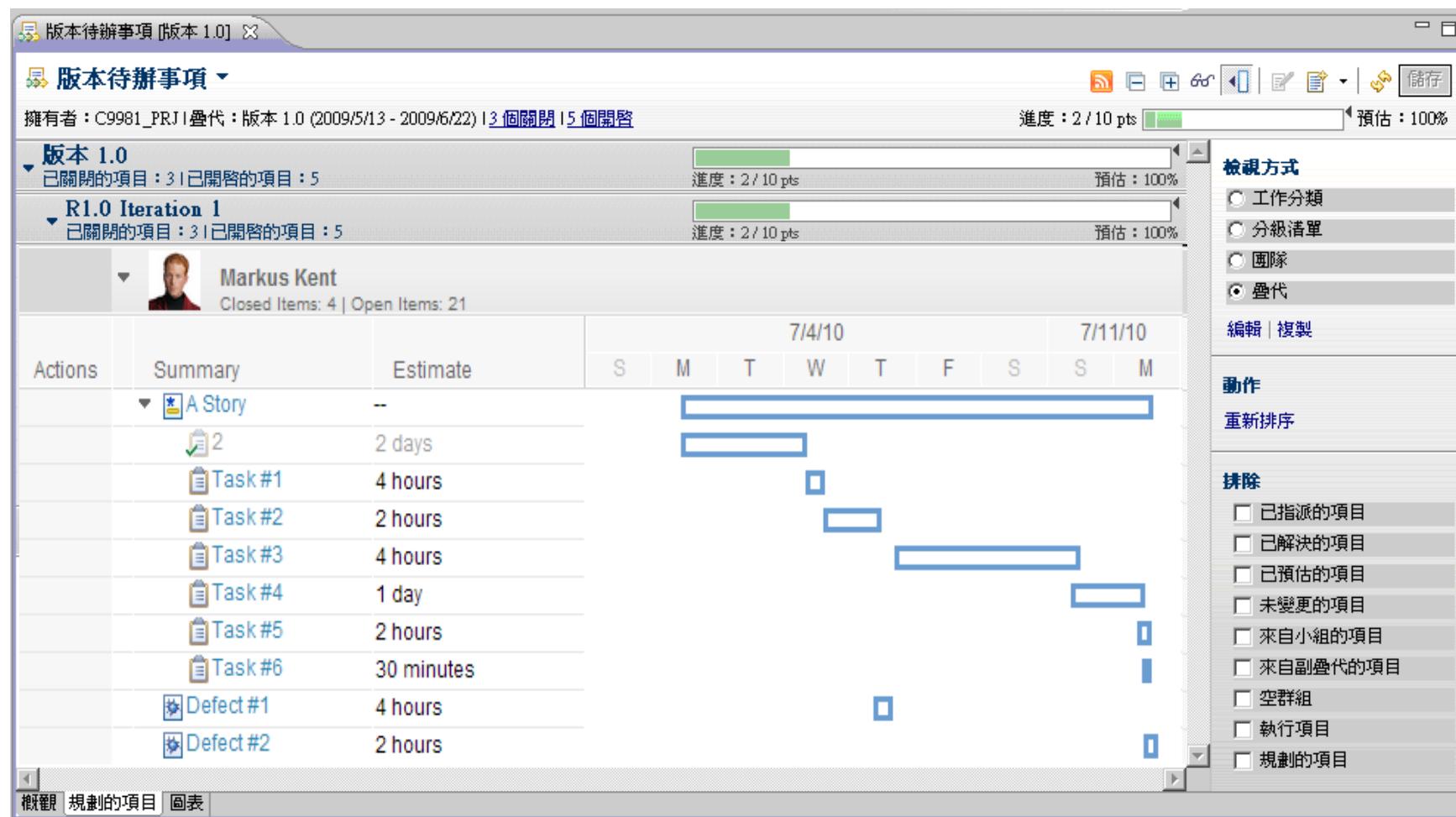
將雙方成員及專案計劃時程 鍵入專案區域



Alternative: 由承包商鍵入，業主核可

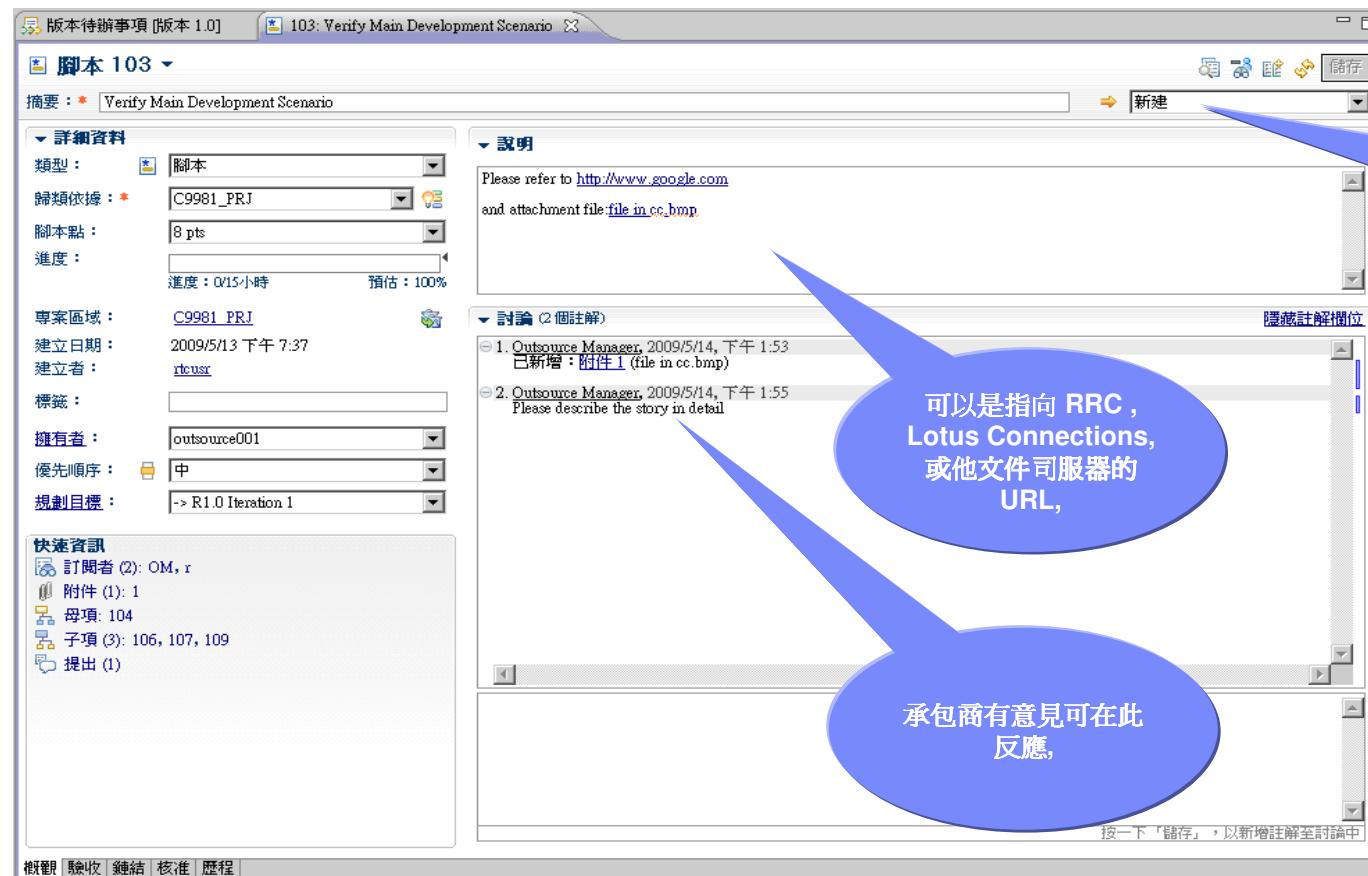
業主:

建立雙方工作的WBS



業主: | 承包商:

將需求細部內容鍵入 RTC 系統，由承包商確認



承包商接受此需求時，將
狀態推向已接受

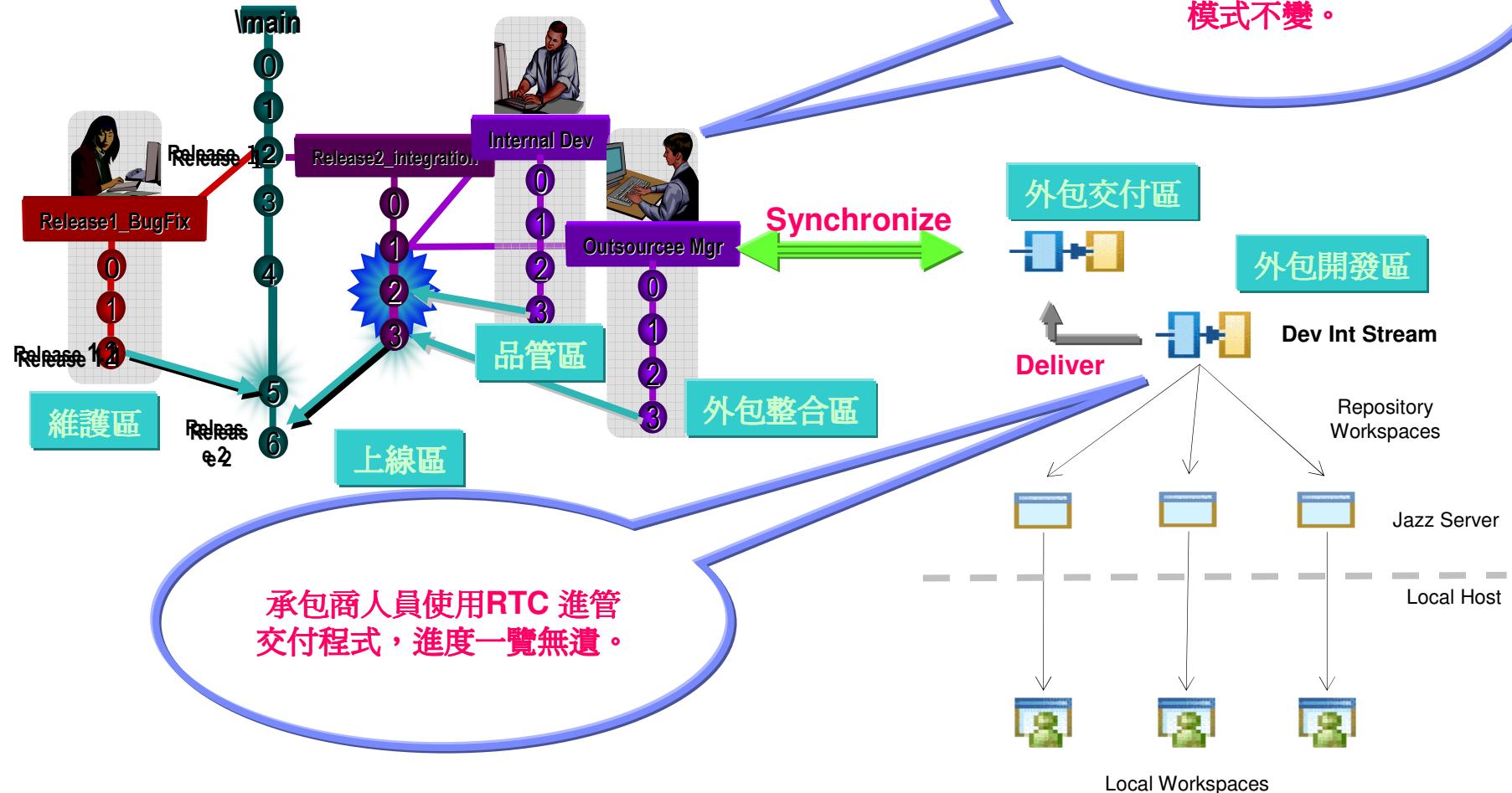
可以是指向 RRC ,
Lotus Connections,
或他文件伺服器的
URL,

承包商有意見可在此
反應,

業主: 承包商:

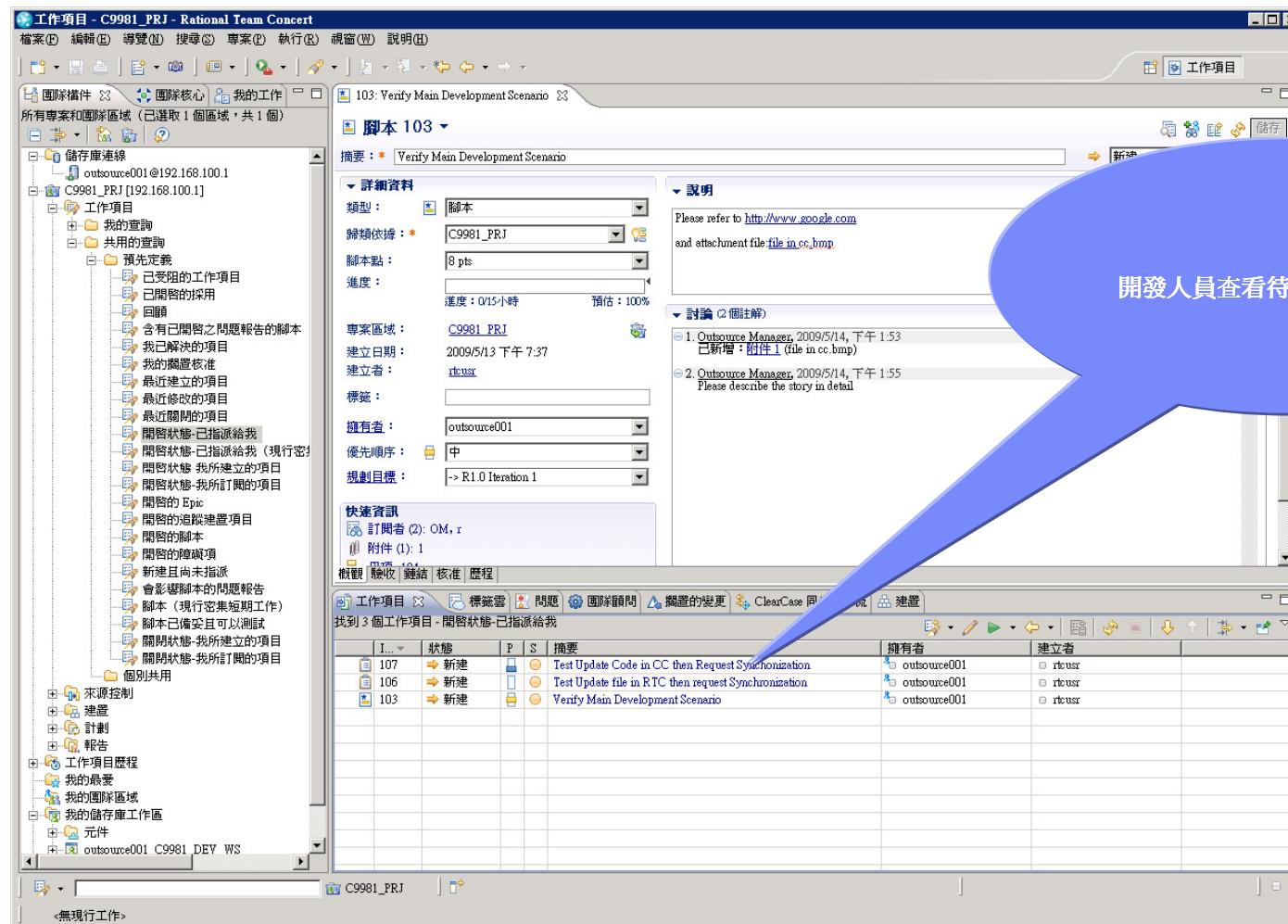
建立整合交付串流

透過串流 (Stream) 整合團隊交付



承包商:

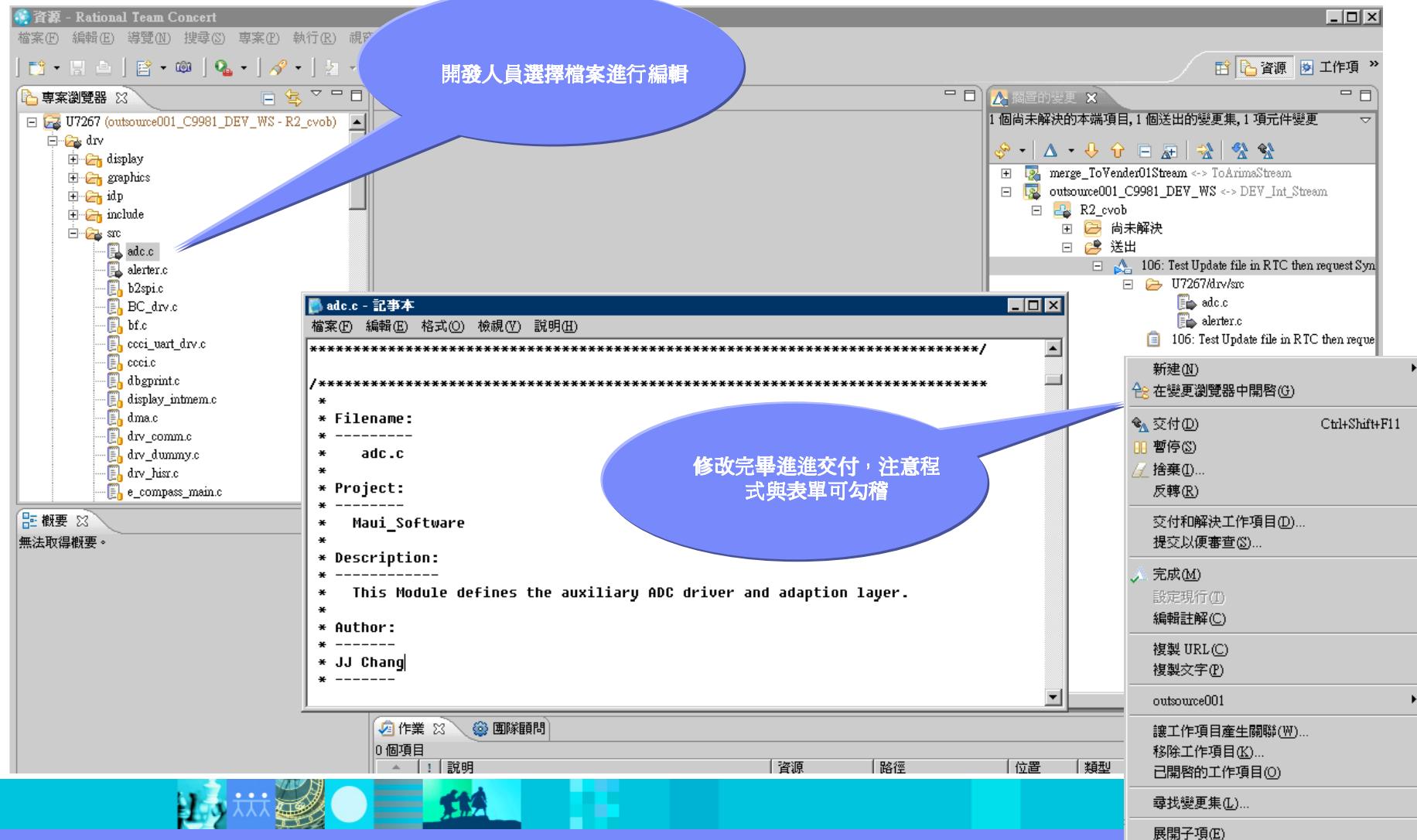
開發人員-- 查看待辦工作事項



開發人員查看待辦事項及詳細內容

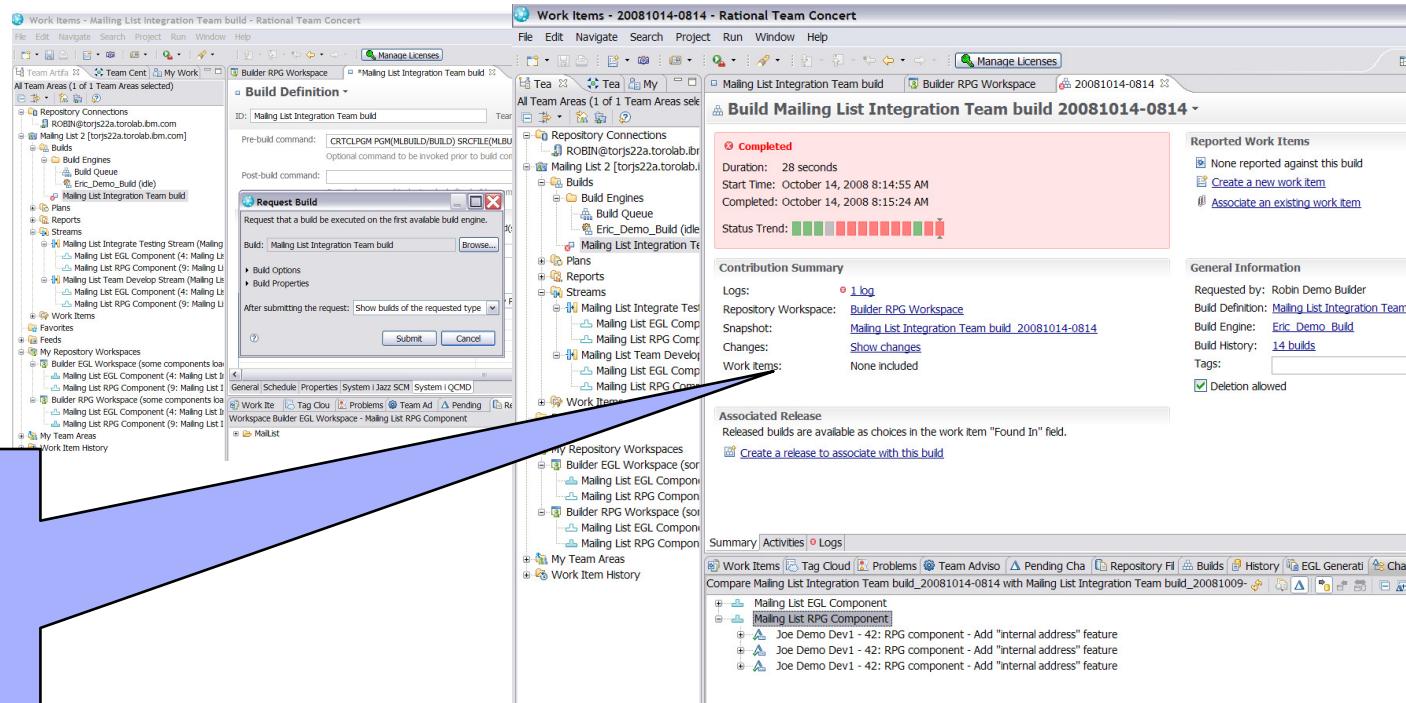
承包商:

承包商開發人員： 修改及內部交付程式



承包商:

承包商建構人員 交付給業主之前，執行建置作業



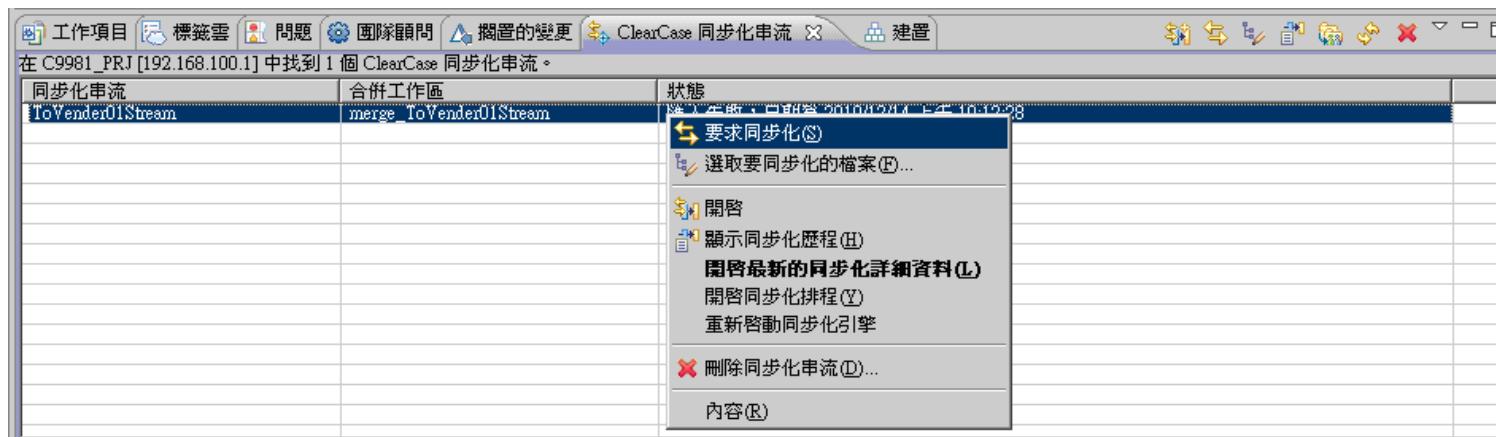
建置記錄 含:

- 執行結果輸出
- 程式源工作區及版本
- 變更程式集
- 工作單清單
- 編譯結果下載

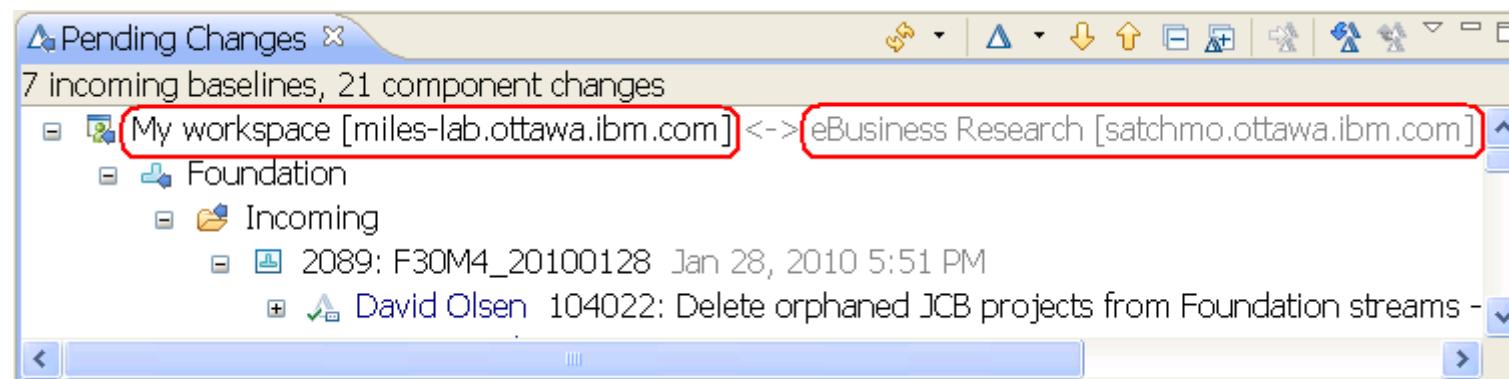
承包商：

承包商交付： Request Synchronization

Solution 1: RTC – CC



Solution 2: RTC – RTC



承包商: 業主:

當業主及承包商同時改Code RTC 可處理 Conflict and Merge

衝突自動偵測:



合併解決:



測試階段



業主:

利用RQM 進行品質測試及缺陷回報 --Defect collaboration reduces cost

- ✓ 4-clicks to submit a defect with all of the information needed to reproduce the defect
- ✓ Test execution is recorded and linked to test case
- ✓ Test execution be linked to build
- ✓ Defects are linked to Test Executions
- ✓ Developer can navigate the links

Execution Result
Result Overview | History

Action: Select Action State: Draft

ID: 5 Actual Result: Failed Host Name: Local Computer Owner: cp

Test Plan: 3: JKE Banking Sprint 2 Test Milestone: Start End Total

Test Case: 1: Frequency of dividend transfer Test Script: Allocate Dividends to a Single Cause Test Data: Unassigned Build: Unassigned Weight: 1

Defects

Show All Items per page Previous | 1 - 1 of 1 | Next

Blocking Status	Summary
Defect 76: Failing Test Case "Frequency of dividend transfer"	

Testers execute tests and submit defects to RTC

76: Failing Test Case "Frequency of dividend transfer"

Status	Resolution	Summary
New		Failing Test Case "Frequency of dividend transfer"

Details

Type: Defect Filed Against: JKE/BRM Tags: Owned By: Unassigned
Severity: Normal Priority: Unassigned Found In: Unassigned Planned For: Unassigned
Team Area: Business Recovery Matters / JKE Banking Estimate:
Creation Date: September 29, 2010 10:22 AM Time Spent:
Created By: cp Due Date: Unassigned

Quick Information

- Subscribers (1): cp Affects Test Execution (1): 1
- Affects Plan Item (1): 1 Affects Requirement (1): 1
- Tracks Test Case (1): 1 Tracks Test Plan (1): 1

Description

Test Plan: JKE Banking Sprint 2

Developers navigate test links on a defect

Defect 76

Summary: * Failing Test Case "Frequency of dividend transfer"

Overview Links Approvals History

Attachments

Add File: Browse...

No Attachments.

Links

Add: Related

- Affects Requirement
 - Document 23: Frequency of dividend transfer
- Related Test Case
 - 1: Frequency of dividend transfer
- Affects Test Result
 - 5: Frequency of dividend transfer
- Related Test Plan
 - 3: JKE Banking Sprint 2
- Affects Plan Item
 - 52: Frequency of dividend transfer



專案監控



業主:

透過Dashboard 即時了解專案進度

Dashboard: Marco Cassice

File Edit View History Bo

Rational

Work Items Iteration Plans

Type to search

Create Dashboard

Recently Viewed

- JUnit Team
- JUnit Project
- Marco Cassice's Dashboard

My Dashboards

- Marco Cassice's Dashboard

Shared Dashboards

- My Profile
- JUnit Project
- JUnit Team
- All Dashboards

UWS Team

Team Area: All

UWS

AI Cle

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Ex

IBM.

Overview Planned Items Charts

Home Trend Report (M10) Trend Report (all) Feeds Work Item Queries General idea Add New Tab Add Viewlet

Recently modified (5)

- 1592: figure how to install and use doc test tool
- 1587: Use Quick Start Guide source from RTCto create RTCi version
- 1577: Mismatch shown in compare view where there is none
- 1604: New icons/images for comparision...
- 1597: Compare view for large project fails

New Work Items by Severity

Team Area: All
Category: All
Iteration: {Current Iteration}

Open vs Closed Work Items

Team Area: All
Category: All
Iteration: {Current Iteration}

Closed Work Items by Priority

Team Area: All
Category: All
Iteration: {Current Iteration}

Blocking Work Items

Team Area: All
Category: All
Iteration: {Current Iteration}

Open Work Items by Type

Team Area: All
Category: All
Iteration: {Current Iteration}

Open Work Items by Priority

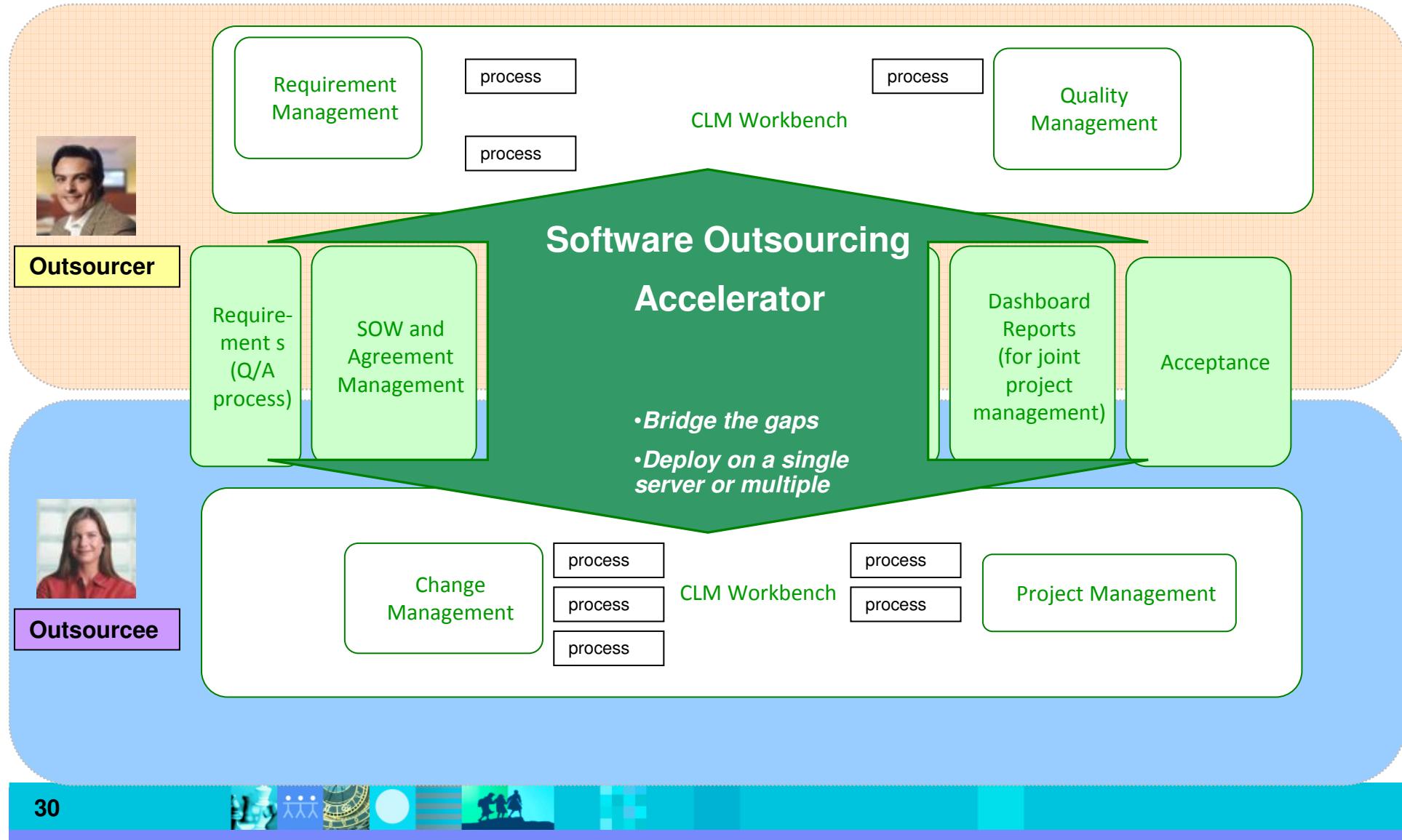
Team Area: All

End to End Outsourcing Process Template
Coming Soon !!



Outsourcing Accelerator

Consolidate internal processes and focus on joint management via a single process





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