



Unleash the Power of Innovation
with **IBM Rational**
Solutions for Power



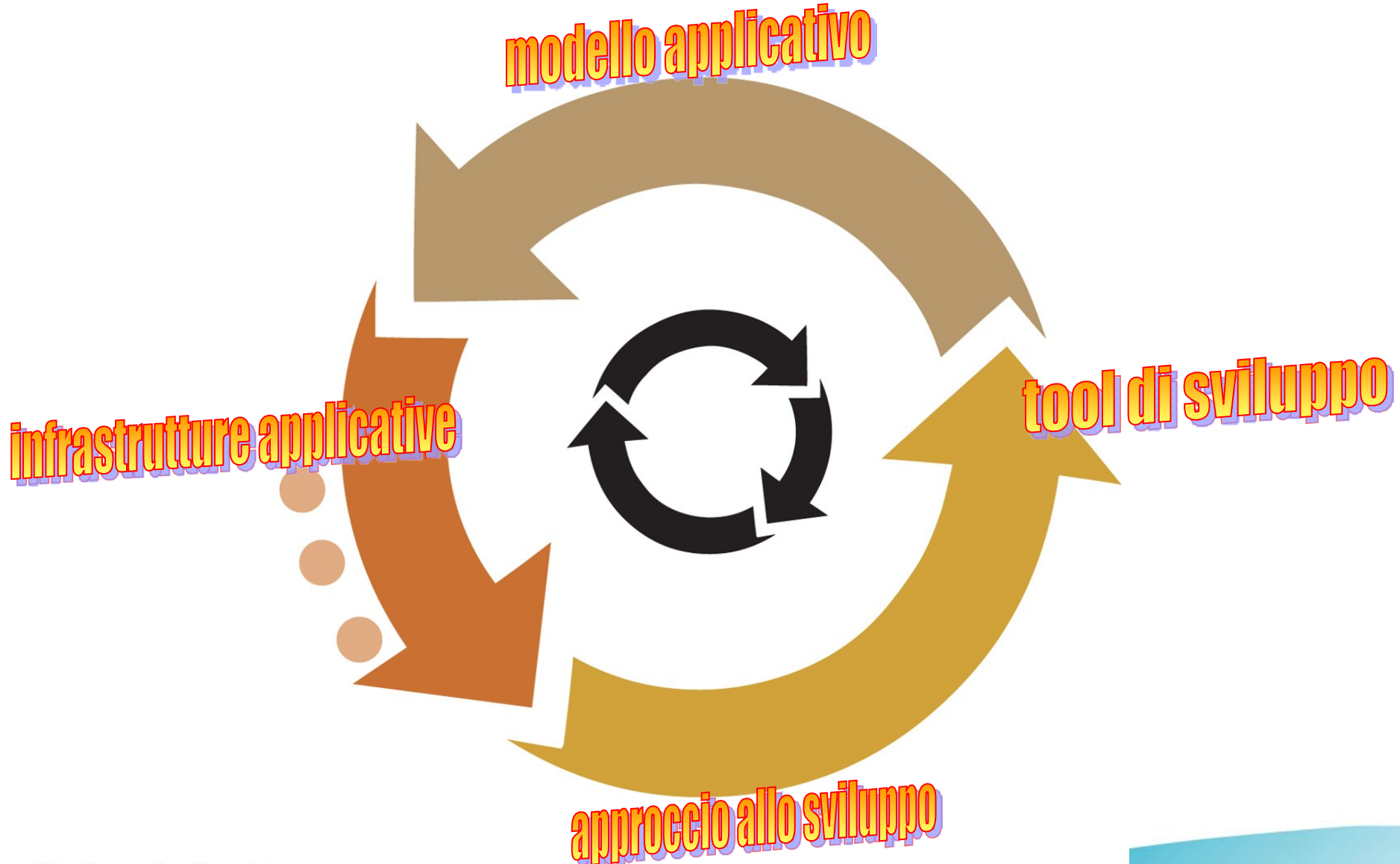
Modernizzare lo sviluppo su Power: approcci e strumenti Rational

Milano, 1 Luglio 2010



Roberto Pozzi
Rational Client Technical Professional

Il ciclo dello sviluppo applicativo

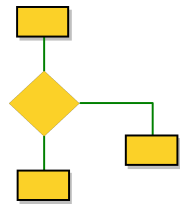


Unleash the Power of Innovation with
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I modelli applicativi

▪ Tradizionale

- interfaccia utente a carattere 5250
- tutta la logica e i dati sul server



- prestazioni delle applicazioni
- data entry veloce e produttivo
- grande disponibilita' di software gia' sviluppato
- riutilizzo delle competenze aziendali

```

Work with Active Jobs                                OS5
                                                    12/23/09 09:59:14
CPU %:      .0      Elapsed time: 00:00:00      Active jobs: 238

Type options, press Enter.
 2=Change  3=Hold  4=End  5=Work with  6=Release  7=Display message
 8=Work with spooled files 13=Disconnect ...

Current
Opt Subsystem/Job  User      Type  CPU %  Function      Status
--
  1  QBASE          QSYS      SBS    .0     JVM-com.i     J
  2  QPADEV000Z     NICK      INT    .0     CMD-WRKAC     J
  3  QSYSSCD        QPGMR     BCH    .0     PGM-QEZSC     J
  4  QHTTSPVR       QSYS      SBS    .0     JVM-com.i     J
  5  ADMIN          QLWISVR   BCI    .0     JVM-com.i     J
  6  ADMIN          QTMHHTTP BCH    .0     PGM-QZBHM     J
  7  ADMIN          QTMHHTTP BCI    .0     PGM-QZSRL     J
  8  ADMIN          QTMHHTTP BCI    .0     PGM-QZSRH     J
  9  ADMIN2         QLWISVR   BCI    .0     JVM-com.i     J

Parameters or command
==>

F3=Exit  F5=Refresh  F7=Find  F10=Restart st
F11=Display elapsed data  F12=Cancel  F23=More optio
    
```

```

Customer management
Area . . . . . Initial characters
Areas starting with Initial characters

Type options, press Enter.
 1=Create  2=Update  4=Delete  5=Display

Customer          Customer
Opt Number      Type Area Name
-----
 1  000001      G  MI  LA CASA DEL FORMAGGIO I5R520
 2  000002      G  MI  IL PARADISO DEL BULLONE
 3  000003      G  MI  IL FORNAIO
 4  000004      F  MI  IL GRISSINO
 5  000005      G  MI  MACELLERIA CON L'OSSO
 6  000006      G  MI  LA CASA DELLA MELANZANA
 7  000007      G  MI  RISOTTERIA
 8  000008      G  MI  LA STILOGRAFICA
 9  000015      G  MI  IL QUADERNO DI SCUOLA
10  000023      F  MI  WALLY
11  000025      F  MI  MARCO GARIBALDI

----- Sales -----
to date      forecast
-----
000000100    000001500
000000250    000002000
000000300    000001500
000000550    000001500
000000250    000000700
000000350    000000800
000000500    000001000
000000700    000001000
000000600    000001000
000001000    000002000
000012000    000013000

More...

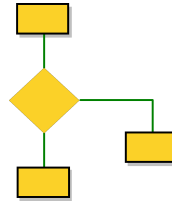
F3=Exit  F5=Refresh  F11=More info  F12=Cancel
    
```

I modelli applicativi



▪ Tradizionale

- interfaccia utente a carattere 5250
- tutta la logica e i dati sul server



▪ Rich Client

- interfaccia utente grafica evoluta gestita dal client
- dati sul server
- logica suddivisa tra client e server



▪ Rich Web

- interfaccia utente grafica HTML arricchita da Web 2.0 (AJAX, DOJO, ...)
- tutta la logica e i dati sul server



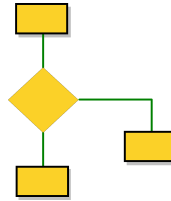
- prestazioni delle applicazioni
- data entry veloce e produttivo
- grande disponibilità di software già sviluppato
- riutilizzo delle competenze aziendali
- produttività e operatività delle applicazioni gestionali comparabili con le applicazioni PC
- integrazione con strumenti di informatica individuale
- managed clients
- fruibilità delle applicazioni estesa ad utenti Extranet / Internet
- fruibilità delle applicazioni estesa a cellulari, palmari, ...
- integrazioni con portali e strumenti di collaborazione avanzata

I modelli applicativi



▪ Tradizionale

- interfaccia utente a carattere 5250
- tutta la logica e i dati sul server



▪ Rich Client

- interfaccia utente grafica evoluta gestita dal client
- dati sul server
- logica suddivisa tra client e server



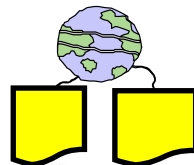
▪ Rich Web

- interfaccia utente grafica HTML arricchita da Web 2.0 (AJAX, DOJO, ...)
- tutta la logica e i dati sul server



▪ Web Services

- servizi Web "batch" e transazionali
- nessuna interfaccia utente, interazione "Program to Program"



- prestazioni delle applicazioni
- data entry veloce e produttivo
- grande disponibilita' di software gia' sviluppato
- riutilizzo delle competenze aziendali

- produttivita' e operativita' delle applicazioni gestionali comparabili con le applicazioni PC
- integrazione con strumenti di informatica individuale
- managed clients

- fruibilita' delle applicazioni estesa ad utenti Extranet / Internet
- fruibilita' delle applicazioni estesa a cellulari, palmari, ...
- integrazioni con portali e strumenti di collaborazione avanzata

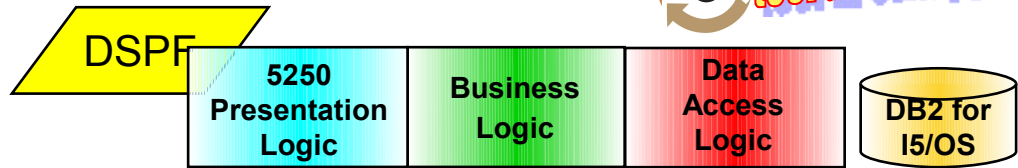
- integrazione di ambienti eterogenei
- indipendenza dai linguaggi e dalla piattaforma
- fondamento della SOA

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Riuso delle applicazioni AS400

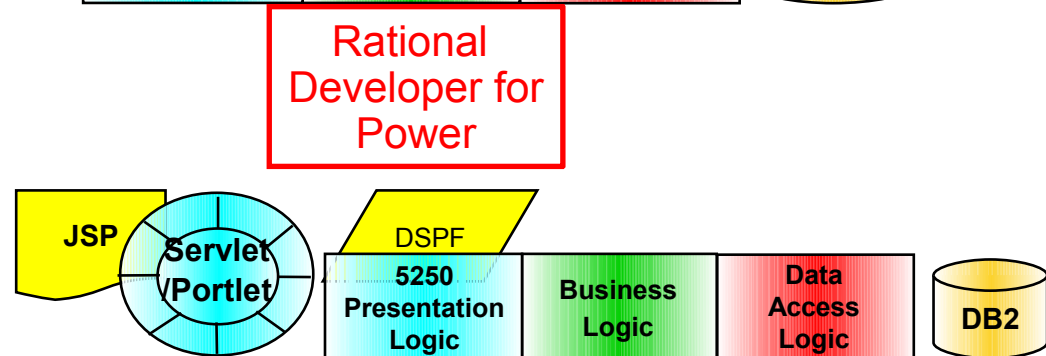


Manutenzione



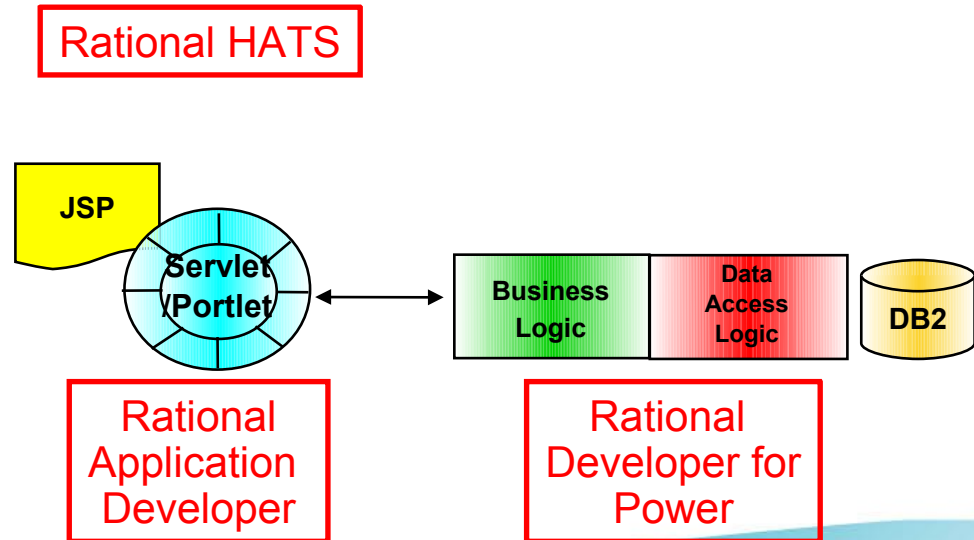
Reface

- generare automaticamente una GUI a partire dai pannelli 5250 esistenti
- sovrapporre la nuova GUI all'interfaccia utente 5250



Restructure

- separare la logica di business dalla logica di presentazione, quindi
 - sviluppare una nuova GUI e una nuova logica di presentazione da cui richiamare la logica di business esistente, oppure
 - pubblicare la logica di business esistente come Web Services



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Refacing: Rational HATS

- Caratteristiche del prodotto
 - nessuna modifica ai programmi esistenti
 - possibilità' di utilizzare la stessa applicazione in modalita' 5250 o in modalita' grafica (browser) sullo stesso sistema
- Rational Host Access Transformation Services (HATS)
 - conversione **dinamica** (a runtime) della data stream 5250 basata su regole
 - possibilita' di combinare o "skippare" schermate
 - esecuzione e registrazione di macro
 - possibilita' di generare front-end di tipo Web, Portal o Rich Client Eclipse
 - Consente di estendere le applicazioni terminale direttamente come Web Services senza ristrutturazioni o scrittura di codice
 - Supporta device Mobile, tra cui Apple iPhone, iPod Touch,...

Power your planet.

Smarter systems for a Smarter Planet.

IBM Power Systems



Agenda

- **Rational Software**
 - **Rational Strategy for Power**
- **RD for Power**
 - **IBM i Tooling**
- **RTC for Power**
- **Customer testimonial & More Information**

Power your planet.

In February, IBM will introduce the next generation of IBM Power Systems™ – the first of a family of systems and storage designed to meet the demands of a smarter planet. From the chip and virtualization capabilities all the way through to the operating system, middleware and energy management, Power Systems from IBM are integrated to help support the complex workloads and dynamic computing models of a new kind of world. Power Systems – the future of UNIX® servers. They're coming. Smarter systems for a Smarter Planet.

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Rational Strategy for Power Systems



Extending the Software stack with "Power Tools"

Rational. software

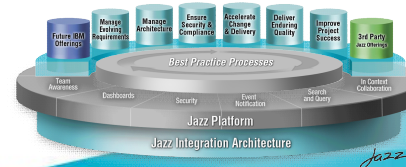
Accelerating importance of compilers in multi-core & parallel environments



Common developer desktop (IDE) across operating systems and languages



Common development infrastructure for Power and the world around Power



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Feb 9th Announcement summary

(1)

IBM Rational Developer for Power Systems Software

Common developer desktop delivering integrated **developer tools** for Power operating systems and programming languages.



(2)

IBM Rational Team Concert for Power Systems Software

Common server infrastructure enables **collaborative coordination** for multi-platform development teams.



(3)

IBM Rational Compilers

New **compilers** exploit Power Systems including the latest POWER architecture and multi-core technology, boosting performance, productivity and portability.



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Feb 9th Announcement summary (2)

- **Rational Developer for Power Family** v7.5
 - ▶ Enhanced RPG and COBOL features for IBM i
 - Visual Screen Designer
 - Visual Report Designer
 - ▶ Multiplatform development
 - Java, Java Script
 - EGL, EGL Rich UI
- **AIX Development** v2.0
 - ▶ IBM also added C/C++ and COBOL development tools for AIX to the Rational Developer for Power family
- **Rational Team Concert for Power Systems Software**
 - ▶ New IBM i build capabilities
 - ▶ Change management on AIX platform
 - ▶ Collaborative ALM and cross project dashboards
- **Rational Development Studio (Previously known as WDS)**



Enabling you to unleash the power of innovation on your Power Systems

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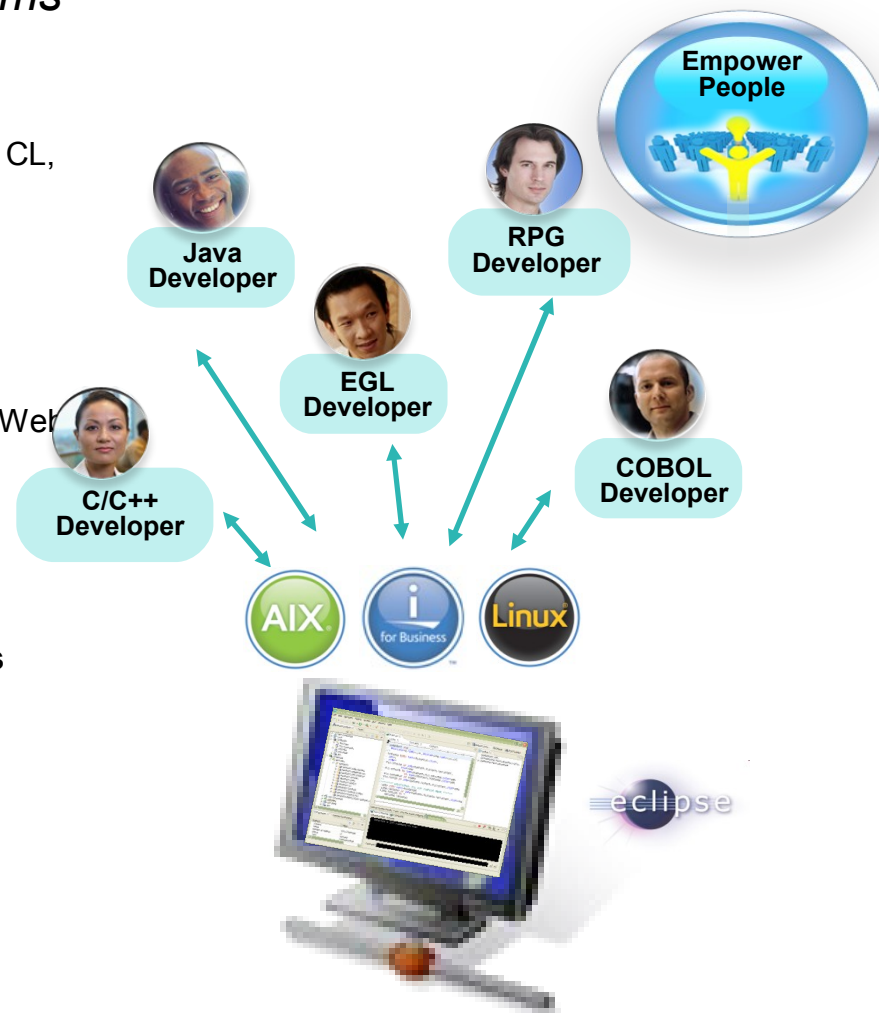
Rational Developer for Power Systems Software

Integrated tools for all Power operating systems and programming languages

- **Enhanced RPG and COBOL features for IBM i**
 - Lightweight, modern, development tools for RPG, COBOL, CL, and DDS
 - Integrated file access, search, edit, compile and debug
 - Rich editing features such as outline view, content assist, formatting, color tokenizing
 - Visualize program structure with Application Diagram
 - Easily debug batch, interactive, and Web applications and Web services
 - Visual Screen Designer and Report Designer
 - Integration with Rational Team Concert for Power Systems Software

- **One integrated solution – supporting multiple environments**
 - ▶ RPG, COBOL, CL, C, C++, DDS on IBM i
 - ▶ Java, EGL

- ▶ **Improves developer productivity**
- ▶ **Reduces training across disciplines**
- ▶ **Integrates skill silos**
- ▶ **Simplifies multiplatform development**



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Remote Development Features of RDP



Remote editor with content assist

```
000090 C*
000091 C
000092 C SELECT
000093 C when EMPAPL = 'X'
000094 C EXSR EMPTAG
000095 C
000096 C*
000097 C when PRJAPL = 'X'
000098 C EXSR PRJTAG
000099 C
000100 C*
000101 C when RSNAPL = 'X'
000102 C EXSR RSNTAG
000103 C ENDSL
000104 C* if KC end program
000105 C
000106 C if *INKC
000107 C leave
000108 C endif
000109 C enddo
000110 C endsr
```

Outline View

- Procedure
- Subroutines
 - ACDESR
 - ADDCDE
 - CHGCDE
 - DELCDE
 - EDITSL
 - EMPTAG
 - INVCDE
 - MAIN
 - PRJTAG
 - RSNTAG

Remote project/files.

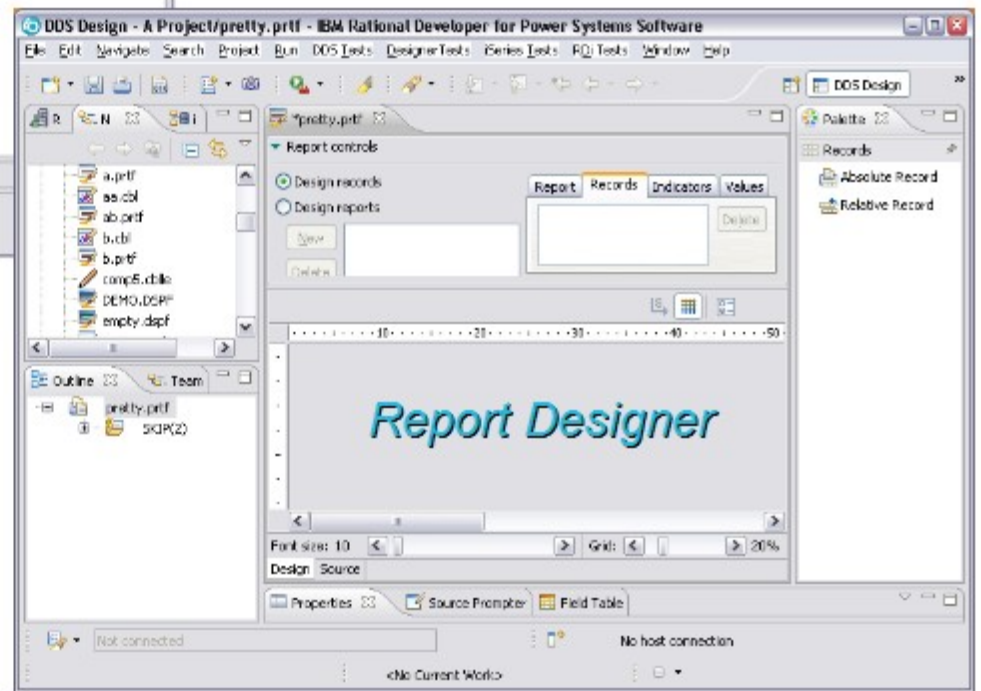
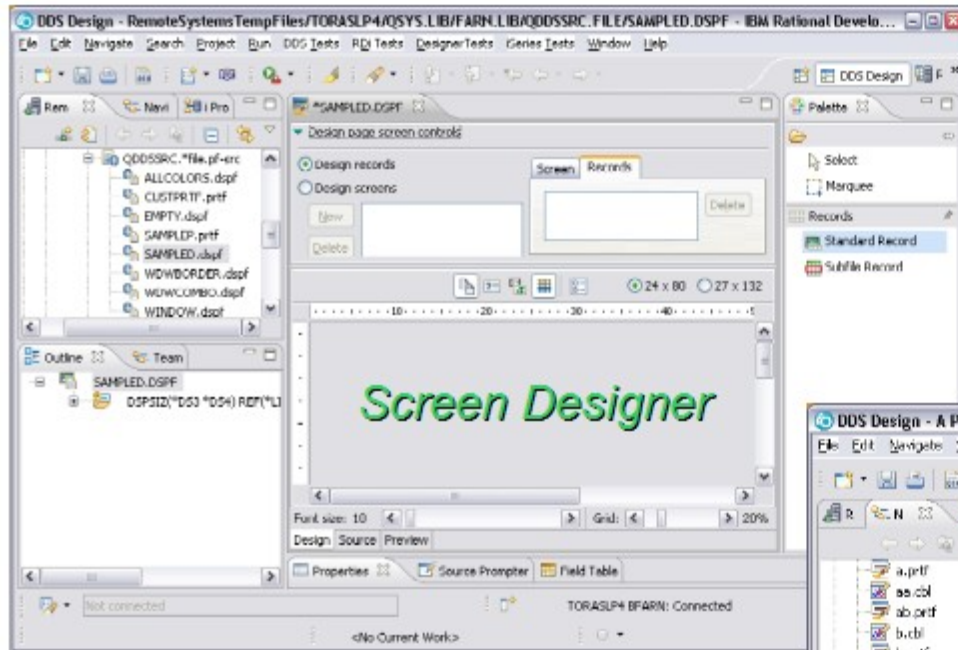
- PAYROLLS.module
- PAYRSRV.module
- COMPARE.file.pf-src
- EMPMST.file.pf-dta
- EVFEVENT.file.pf-dta
- MSTDSP.file.dspf
- MSTDSP2.file.dspf
- PRJMST.file.pf-dta
- QCBLESRC.file.pf-src
- QCLSRC.file.pf-src
- QCMSRC.file.pf-src
- QDDSSRC.file.pf-src
- EMPMST.pf
- MSTDSP.dspf
- PRJMST.pf
- REFMST.pf
- RSNMST.pf
- QRPGLESRC.file.pf-s
- PAYROLL.rpgle
- PAYROLLG.rpgle
- PAYROLLS.rpgle
- PAYRSRV.rpgle
- QRPGLESRCP.file.pf-s
- REFMST.file.pf-dta
- RSNMST.file.pf-dta

Object Table

Name	Type	Attribute	Text
EMPMST	PF	SRC	
MSTDSP	DSPF	SRC	
PRJMST	PF	SRC	
REFMST	PF	SRC	
RSNMST	PF	SRC	

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Similar User Interfaces



- The designers have been architected with the same 'easy to learn and use' user interface elements
- Learning how to use one reduces the learning curve for the other

Screen Designer
is no longer a
Technology
Preview

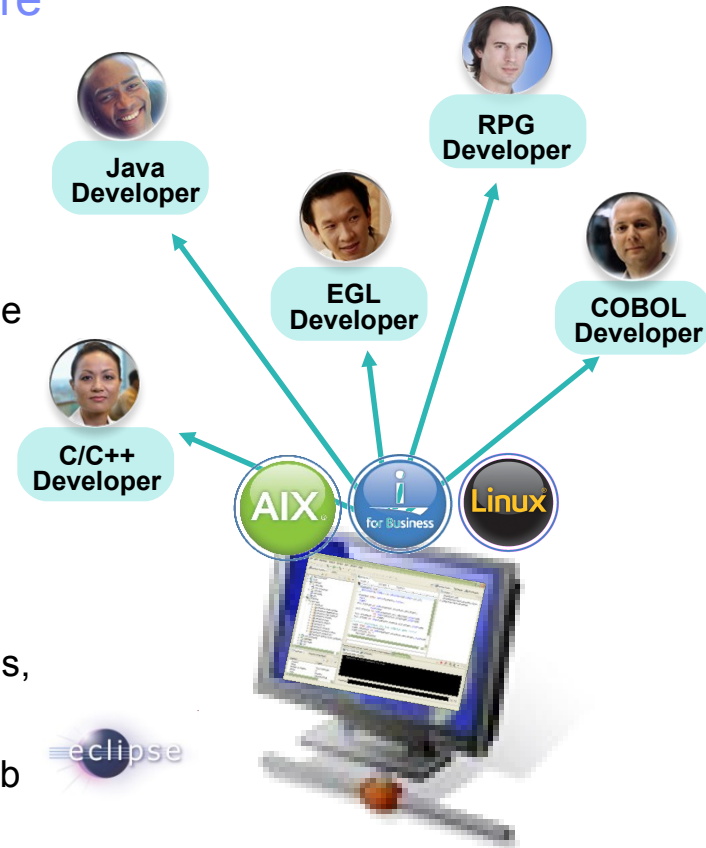
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Business Value

RPG and COBOL Development Tools for IBM i Feature



- Improve Developer Productivity
 - ▶ Easier to read, write, and understand source code → Improved maintenance efforts
 - ▶ Visual design tools → Easier to create and maintain DDS
 - ▶ Visualizations (Application Diagram) → Understand source code and program relationships
 - ▶ Tightly integrated tasks → Quickly switch from search / edit / compile / debug
 - ▶ Code assist and Outline view
- Common Tooling Platform
 - ▶ Same development tool experience across languages, platforms, and technologies
 - Java, RPG, COBOL, C/C++, EGL, PHP, XML, Web 2.0, Web services, 5250, batch
- Developer Skills
 - ▶ Developers can use the same tools regardless of platform, language, or technology
 - ▶ Improved developers skills / developer portability
 - ▶ Attract new talent and retain existing talent

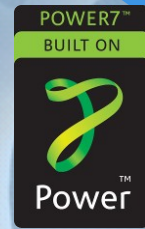


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Rational Team Concert for Power 2.0



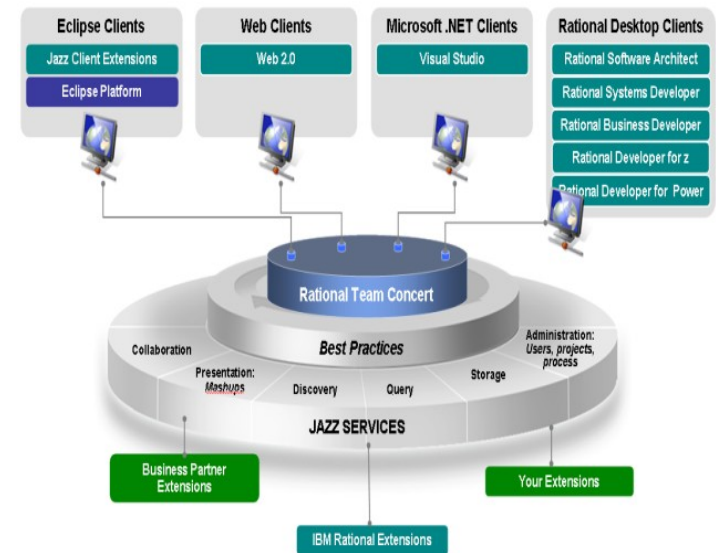
Enables developers on Power (AIX and IBM i) and other platforms to collaborate together using:



- ✓ **Integrated Planning** (with full support for Agile development)
- ✓ **Source Control** of Java, C/C++, COBOL, RPG, .NET, PHP and other language source
- ✓ **Work Items** (change management/defect tracking)
- ✓ **Build**
 - ❖ C/C++ or COBOL applications on AIX
 - ❖ RPG or COBOL applications on IBM i
 - ❖ Java on any platform
- ✓ **Dashboards and Reports** to track status, and
- ✓ **Process Support and Enforcement**

- RTC clients are supported with RTC for Power
 - ▶ Eclipse RTC client (Java / Web development)
 - ▶ Visual Studio client (.NET development)
 - ▶ Web client

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Work Items Capture Traceability and Effort



Predefined, custom and personal queries

Subscribe to work items you're interested in

- Defect
 - Task
 - Retrospective
 - Story
 - Impediment
- SCRUM built in artifact types

Integrated discussion threads & chat sessions

Understands and persists work items' relationship to SCM and build artifacts

Query results

The screenshot shows the Rational Team Concert Work Items interface. The main view displays details for a defect titled "UWS Add JavaDoc to CLI code". The defect is in a "Resolved" state, created on Jun 6, 2007, and assigned to "April Blues". The description states: "We need to add JavaDoc to our code. Note that I have sized this at one day and targeted it for 1.0 M1. This means do it now while Zach gets the build going but only spend at most this much time on it, maybe less. We just need to get a start on it now." The "Discussion" section shows a comment: "We have decided to make the change|". Below the main view, a query results table is visible, showing two resolved work items.

I	Status	P	S	Summary	Owned By	Created By
12	Resolved			UWS Add JavaDoc to CLI code	April Blues	Jerry Jazz
10	Resolved			Expose functionality via public get method to core temperature ...	Unassigned	JERRY JAZZ

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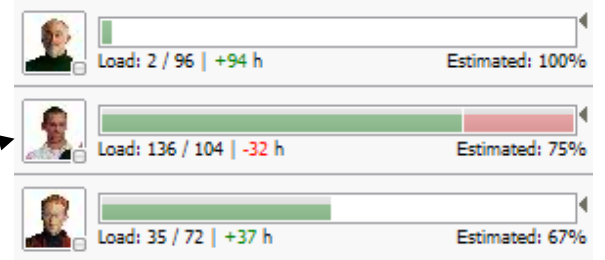
Team Concert Planning is Directly Linked to Execution

Priority	Created Date	Days Open	Assigned To	Title	Changed Date	Days Since Last Update
75	4/6/2009 8:34 AM	32	Aaron Bjork	Build failure - scorch failed	5/19/2009 8:20 AM	1
79	4/6/2009 8:34 AM	32	Jim Boyle	Build failure - layouts never started	5/19/2009 8:20 AM	1
387	5/4/2009 6:53 AM	12	Len Lamkin	Build failure - Throws up all public methods in our API.	5/19/2009 8:20 AM	1
189	4/16/2009 6:59 AM	24	Ram Cherala		5/12/2009 8:31 AM	6
383	5/4/2009 6:53 AM	12	Stephanie Saad		5/12/2009 8:39 AM	6
385	5/4/2009 6:53 AM	12	Stephanie Saad		5/12/2009 8:39 AM	6
389	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build partially succeeded icon	5/12/2009 8:31 AM	6
396	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - TRABorbBuildTest failed due to	5/12/2009 8:31 AM	6
399	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - (The record on build complet	5/12/2009 8:31 AM	6
402	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build drop is large.	5/12/2009 8:31 AM	6
403	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build no build log output, and the	5/12/2009 8:31 AM	6
404	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build error message with duplicated	5/12/2009 8:31 AM	6
398	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build error: Error: Index was outside the	5/19/2009 8:20 AM	1
400	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build error: Incorrectly in Team Foundation	5/19/2009 8:20 AM	1
401	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Build error: An appears as System.Windows	5/19/2009 8:20 AM	1
202	4/16/2009 7:41 AM	24	Ram Cherala		5/12/2009 8:39 AM	6
203	4/16/2009 7:41 AM	24	Ram Cherala		5/4/2009 6:53 AM	12
206	4/16/2009 7:41 AM	24	Ram Cherala		5/4/2009 6:52 AM	12
207	4/16/2009 7:41 AM	24	Ram Cherala		5/4/2009 6:53 AM	12
73	4/6/2009 8:30 AM	32	Aaron Bjork		5/4/2009 6:53 AM	12
82	4/6/2009 8:34 AM	32	Jim Boyle		5/4/2009 6:53 AM	12
86	4/6/2009 8:34 AM	32	Jim Boyle		5/4/2009 6:53 AM	12
87	4/6/2009 8:34 AM	32	Ram Cherala		5/4/2009 6:53 AM	12
200	4/16/2009 7:41 AM	24	Stephanie Saad		5/4/2009 6:52 AM	12
388	5/4/2009 6:53 AM	12	Len Lamkin	Build failure - Build error: All on CopyDirectoryActivity are failing	5/12/2009 8:39 AM	6
387	4/16/2009 6:59 AM	24	Stephanie Saad	Build failure - Setting directory on CopyDirectoryActivity are failing	5/19/2009 8:20 AM	1
188	4/16/2009 6:59 AM	24	Ram Cherala	Build failure - Choosing columns dialog is very confusing.	5/19/2009 8:20 AM	1
390	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - First queued build fails when build service is stopped while a build is	5/19/2009 8:20 AM	1
384	5/4/2009 6:53 AM	12	Stephanie Saad	Build failure - source code failure in suite src	5/19/2009 8:20 AM	1
386	5/4/2009 6:53 AM	12	Jim Boyle	Build failure - Remove the Reshelve property from the Get task.	5/19/2009 8:20 AM	1

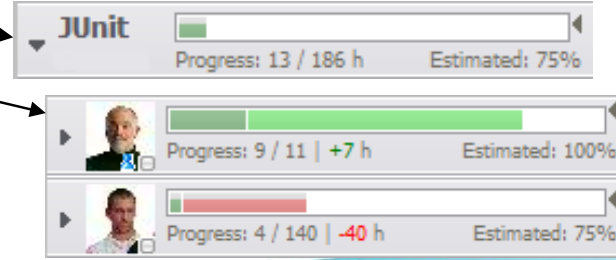


- NOT just a disconnected spreadsheet
 - With brittle cross product integration
 - Synchronization issues for admins...backup
 - No web access for non-developers
- NOT just a planning tool
 - Designed for project leads
 - Not connected to execution of scm and builds
 - No process control of scm, builds

Work Load Bar



Progress Bar



- With Rational Team Concert
 - Live work load bars show who is overbooked ...
 - Live progress status bars show Individual and Team progress
 - All planning is 100% Web based so all can access it
 - Full process control across both VS.NET and Eclipse teams
 - Engages development in planning to produce better predictability

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Web-based Taskboards Increase Team Visibility

Markus Kent
Closed Items: 4 | Open Items: 7

Progress: 0.25/35.25 h Estimated: 71%

	To Do	In Progress	Done
<ul style="list-style-type: none"> Improve documentation for 4.4 (55) Provide improved Assertion syntax (60) 	<ul style="list-style-type: none"> javadoc updates for @Ignore in 4.3 (30) Based on the assertThat syntax we should provide assumptions and theories support (59) 	<ul style="list-style-type: none"> assertArrayEquals misses differences (7) testCount hard-coded to 1 for childless Description (27) Tests on protected methods fail (14) assertThat fails with Class tests (documentation problem) (10) 	<ul style="list-style-type: none"> shows green bar while assert false (41) Should not call derived's afters if super's before failed (17) @After method not called after my test timeout in 4.3.1 (16)

Show stories linked to a set of associated tasks and their status

See the work in progress or completed

Drag and drop work items to change their state.

Web Based Project and Portfolio Dashboards

Jazz Project Description

Process enabled team collaboration platform

The goal of the Jazz project is to build a scalable, extensible team collaboration platform for seamlessly integrating tasks across the software lifecycle. The new technology is called the Jazz Platform. The Jazz project is defining the overall architecture of the Jazz Platform, and building an initial set of Jazz components that plug in to the Jazz Platform.

The work in the Jazz project is divided into development work and maintenance work. Development work produces a consecutive line of releases. Maintenance work produces bug fix releases of the released produced by the development work.

Development as well as maintenance work is overseen by the PMC. The team members listed in this project area constitute the PMC.

Jazz Project Members (11)

CQ Connector Account	connector
Dejan Glozic	dashboardadmin
Erich Gamma	dashboardadmin, projectadmin, PMC, contributor
Jean-Michel Lemieux	dashboardadmin, projectadmin, PMC, contributor
John Vasta	connectoradmin
Kai-Uwe Maetzel	PMC, contributor
Kevin Haaland	PMC, contributor
Kim Moir	projectadmin
Peter Klenk	PMC, contributor
Scott Rich	PMC, contributor

Page 1 of 2

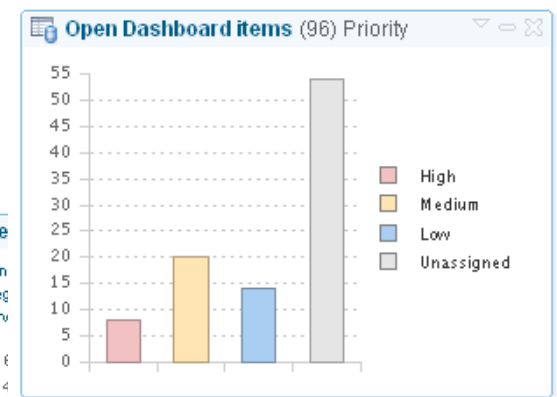
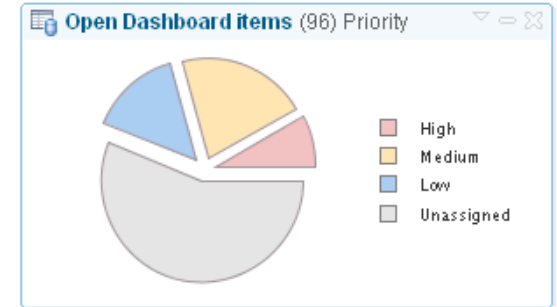
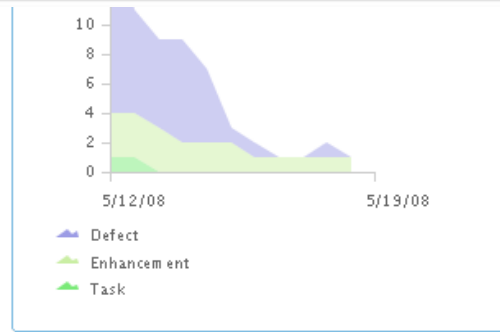
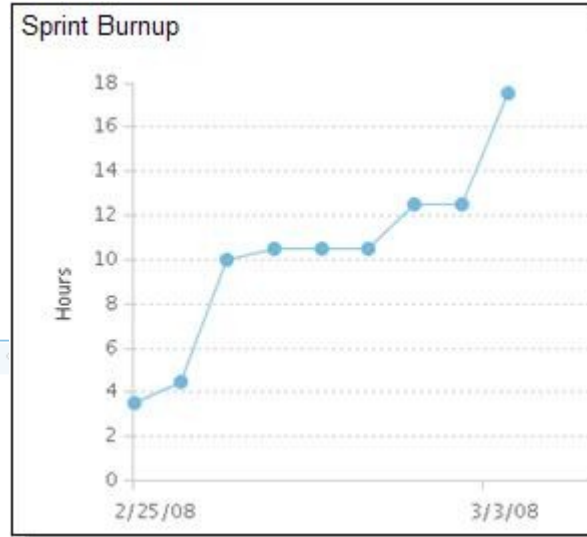
Jazz Proj

Open vs Closed Work Items

Team Area: /Jazz Development/Dashboard
Category: Dashboards
Interval: 0.6 RC3

5/12/08 5/19/08

Open Closed



Open Dashboard items (96) Priority

High(8) Medium(20) Low(14)
Unassigned(54)

Open Dashboard items (96) Priority

Priority	Count
High	8
Medium	20
Low	14
Unassigned	54

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Builds – Extensible Continuous Integration



Run personal builds to check your changes before sharing them with the team

Create build servers

Historical view of the build queue with status

Even reconstruct a work space from a failed build!

Identify work items and change sets that went into the build

The screenshot displays the IBM Rational Build team interface. The top section shows the details for a completed build: 'Build workshop.squawk.core.continuous.build B20080303-1042-workshop.squawk.core.continuous.build'. It indicates a duration of 27 seconds, starting at 1:41:40 PM and completing at 1:42:07 PM on March 3, 2008. A status trend bar shows a sequence of green bars, indicating a successful build. Below this, a 'Contribution Summary' lists changes, logs, repository workspace, snapshot, and work items. To the right, 'General Information' shows the build was requested by Zach Builder, defined by 'workshop.squawk.core.continuous.build', and used the 'workshop.build.engine' build engine. A 'Reported Work Items' section is currently empty.

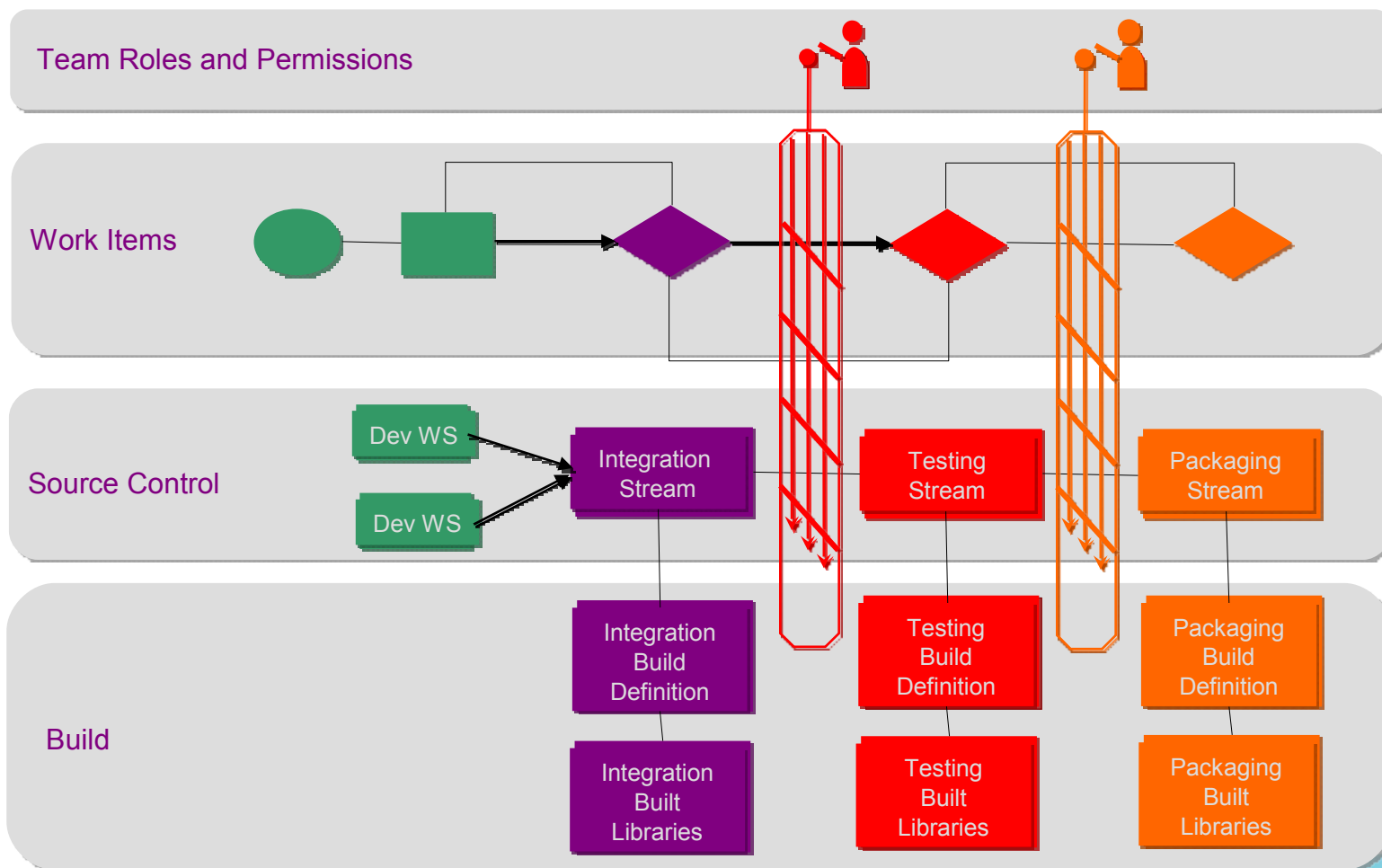
The bottom section of the screenshot shows a 'Builds' table with 12 rows, providing a historical view of the build queue. The table includes columns for Build, Label, Progress, Estimated Completion, Start Time, Duration, and Tags.

Build	Label	Progress	Estimated Completion	Start Time	Duration	Tags
workshop.squawk.core.c...	B20080310-2231...	Completed		March 10, 2008 10:30...	34 seconds	
workshop.squawk.core.c...	B20080305-2325...	Completed		March 5, 2008 11:25:...	19 seconds	
workshop.squawk.core.c...	B20080305-2324...	Completed		March 5, 2008 11:24:...	33 seconds	
workshop.squawk.core.c...	B20080303-1057...	Completed		March 3, 2008 1:57:0...	24 seconds	
workshop.squawk.core.c...	B20080303-1048...	Completed		March 3, 2008 1:48:1...	28 seconds	
workshop.squawk.core.c...	B20080303-1042...	Completed		March 3, 2008 1:41:4...	27 seconds	
workshop.squawk.core.c...	20080303-1017	Completed		March 3, 2008 1:17:5...	26 seconds	
workshop.squawk.core.c...	B20080201-1707...	Completed		February 1, 2008 8:06...	30 seconds	v20...
workshop.squawk.core.c...	B20080128-1359...	Completed		January 28, 2008 4:59...	39 seconds	wor...
workshop.squawk.core.c...	B20080123-1623...	Completed		January 23, 2008 7:23...	10 seconds	
workshop.squawk.core.c...	B20080123-1621...	Completed		January 23, 2008 7:21...	18 seconds	

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Promote Application Artifacts

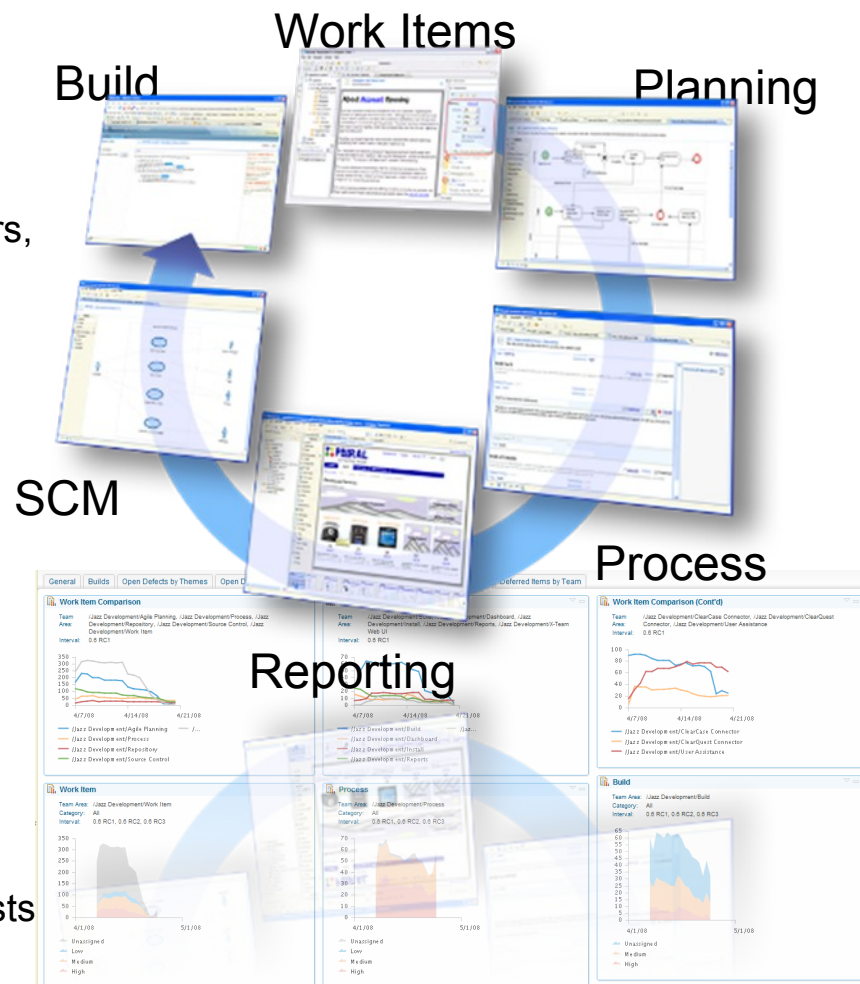
Promote objects from integration to test and from test to packaging using a controlled, enforceable process



Business Value

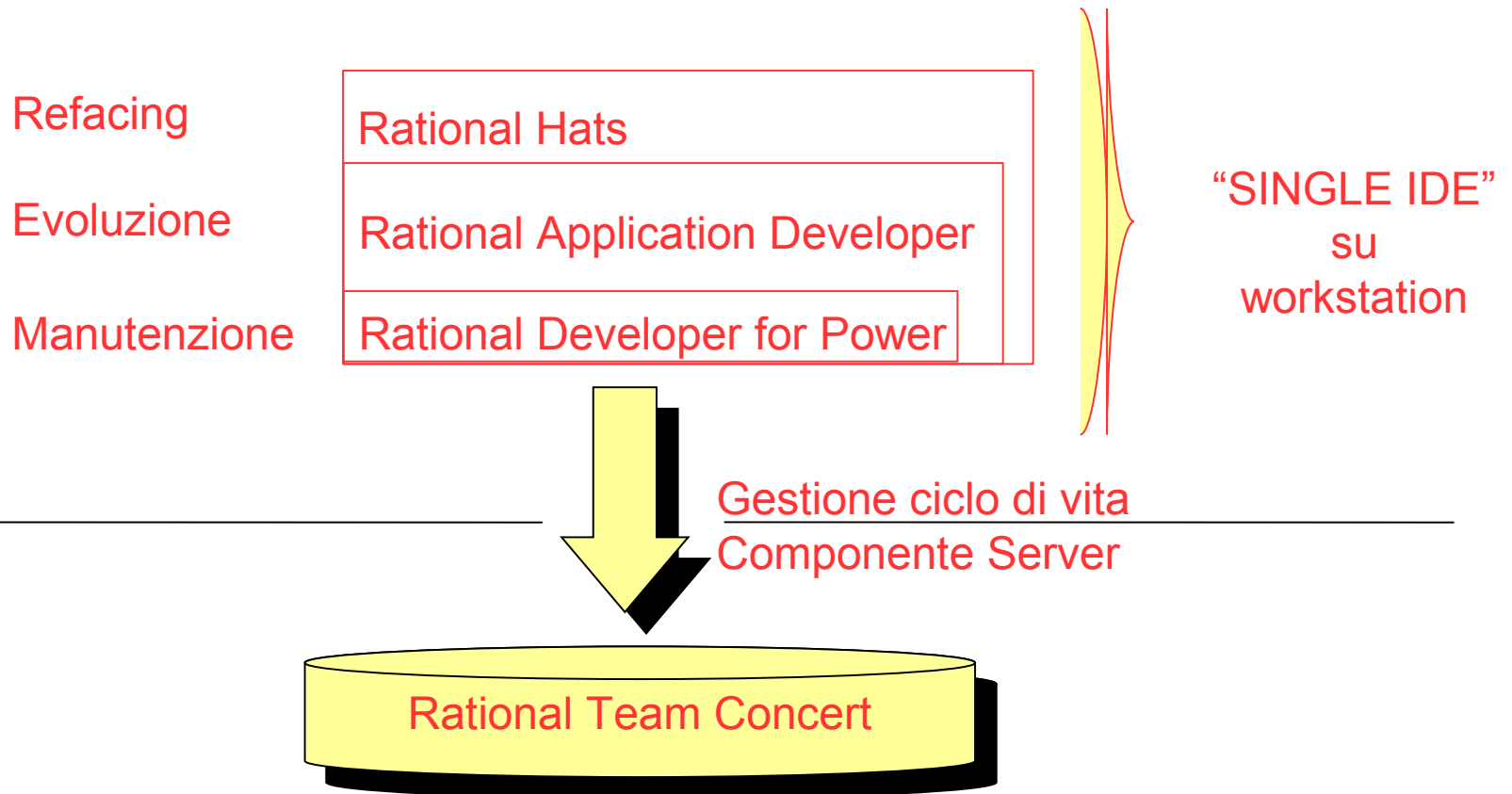
Rational Team Concert for Power Systems Software

- **Team Collaboration**
 - ▶ Connect dispersed development teams
 - ▶ Bring all stakeholders together
 - Business analysts, IT managers, project managers, team leads, developers, and testers
- **Governance**
 - ▶ Implement single process for all teams
 - ▶ Help teams move towards Agile development
 - ▶ Track development tasks
 - ▶ Source Control
- **Transparency and Reporting**
 - ▶ Automate project status
 - ▶ Traceability (links) between artifacts
 - ▶ Team, role, and personalized dashboards
- **Consolidation and lower costs**
 - ▶ Single solution for multiple platforms and languages
 - Single server, database, administration
 - ▶ Single tool for everyone to learn → lower training costs



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IBM Rational Solutions for Power**

L'ambiente di sviluppo per Power: visione d'insieme



**Unleash the Power of Innovation with
IBM Rational Solutions for Power**

Power your planet.

Smarter systems for a Smarter Planet.

IBM Power Systems



Agenda

- **Rational Software**
 - **Rational Strategy for Power**
- **RD for Power**
 - **IBM i Tooling**
- **RTC for Power**
- **Customer testimonial & More Information**



Power your planet.

In February, IBM will introduce the next generation of Power Systems™ – the first of a family of systems and storage designed to meet the demands of a smarter planet. From the chip and virtualization capabilities all the way through to the operating system, middle tier and energy management, Power Systems from IBM are integrated to help support the complex workloads and dynamic computing models of a new kind of world. Power Systems – the future of UNIX® servers. They're coming. Smarter systems for a Smarter Planet.

ibm.com/poweryourplanet

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IBM Rational Solutions for Power



UniCredit

Improves developer productivity and testing efficiency for IBM i development

The challenge

- Modernize its development platform for core financial business software
- Development and testing efficiency for new and existing applications
- Make COBOL development more attractive to younger programmers

Business value

- Similar development environment for COBOL and Web applications — attractive to younger developers
- Estimated 15% increase in development and 10% increase in testing productivity

Solution

“Our approaches are consistent throughout the entire software development life cycle, from planning, definition and implementation to test and configuration”

**Unleash the Power of Innovation with
IBM Rational Solutions for Power**



- One of Europe's largest financial services organizations
- 9,000 branch locations
- 40 million customers
- Employing over 170,000 people

“We at UniCredit Leasing Austria have opted for the combined toolset of Rational Team Concert for IBM i (RTCi) and Rational Developer for IBM i (RDi) because they provide us with the best support for modern approaches to software engineering for the IBM i platform.”

- Mircea-Dan Antonescu, IT Leader, UniCredit Leasing Austria



AAA Cooper Transportation

Improves developer productivity and time to market

The challenge

- 12 green-screen developers who needed more flexible tools to improve productivity
- Company wanted to improve the time to market
- They needed a “source control” solution that integrates with Rational Developer for i

Business value

- Within a month they are seeing between 10 - 20% productivity improvements

Solution

- Rational Developer for i
- Rational Team Concert for i

**Unleash the Power of Innovation with
IBM Rational Solutions for Power**



“Within a month the use of the green screen development was almost completely gone, and our team was excited about working entirely on the new IDE. ...My advice, try it. You will never go back.”

- Bruce Collins
Manager of Systems Administration





Oxford International, Inc.

Improves developer productivity and time to market

The challenge

- Cross-platform development teams needed better communications, project visibility
- Looking for a single enterprise-wide solution

Business value

- “The new RTC for Power release is not just a series of enhancements but now provides a complete software configuration management solution across the enterprise.”
- “True cross-platform software capabilities”



- IBM Business Partner for Rational Power and System z solution
- Participated in the beta programs for RD for Power and RTCi

Solution

- Rational Developer for i (Power)
- Rational Team Concert for i (Power)

*“We estimate **between 20-30% improvements in team productivity and quality across the development process.** RTC for IBM i and Power solutions truly hits the mark of the most demanding business and IT department.”*

- Steve Norton, President

**Unleash the Power of Innovation with
IBM Rational Solutions for Power**



 <h3>Join</h3> <p>a community of industry leaders in modernization technology</p>	 <h3>Download</h3> <p>trials of new technology</p>
 <h3>Learn</h3> <p>to take full advantage of the latest tools</p>	 <h3>Share</h3> <p>knowledge through forums, blogs and wiki documents</p>

EGL

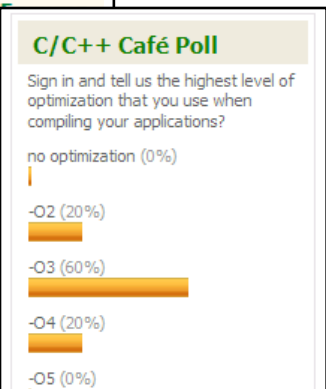
- Partners
- John's Corner - Learn
- Rich UI
- for IBM i
- Migration/Transformation
- Japan Street

RPG

- Partners
- RDi
- RDi SOA
- RTCi

Resource Library

- Articles, Presentations, and Blogs
- EGL JAM 2009
- Case Studies and Success Stories
- Certification
- Demos
- Documentation Corner
- Downloads
- FAQ's
- Goings On
- Jon's Corner - Learn
- Samples
- Sand Box - i
- Sand Box - z
- Support
- Videos



C/C++

- Commercial Computing
- Parallel and Multi-Core Computing
- Scientific Computing
- Standards

COBOL

- Partners
- RDz
- RDz with EGL
- RTCz
- HATS
- Standard
- Migrations

IBM Rational | EGL - Simplify Innovation

Success Stories



JAM 2009

"Enhancements through community-driven collaboration"

Unleash the Power of IBM Rational Solution

*Content subject to change

Additional Information

- To learn more visit: ibm.com/software/rational/announce/power/
- Rational Developer for Power Systems Software Product Page
 - ▶ <http://www.ibm.com/software/rational/products/rdp/>
- Rational Team Concert for Power Systems Software Product Page
 - ▶ <http://www.ibm.com/software/rational/products/rtcp/>
- Rational Team Concert for Power Systems Software Sales Kit

Internal: <http://w3-103.ibm.com/software/xl/portal/content?synKey=M303001B90889Y50#overview>

Partners: <http://www.ibm.com/partnerworld/wps/servlet/ContentHandler/M303001B90889Y50>

- IBM Rational Developer for Power Systems Software Sales Kit
 - Internal: <http://w3-103.ibm.com/software/xl/portal/content?synKey=J384733T70541Z83#overview>
 - Partners: <http://www.ibm.com/partnerworld/wps/servlet/ContentHandler/J384733T70541Z83>
- IBM Rational Jazz Overview
 - ▶ Overview: <http://www-01.ibm.com/software/rational/jazz/>
 - ▶ Community: <https://jazz.net/>

Getting Started

- Take advantage of no-charge distance learning and social networking at IBM Cafes
 - RD for Power: RPG & COBOL Development tools - <http://www-949.ibm.com/software/rational/cafe/community/rpg>
 - EGL - <http://www-949.ibm.com/software/rational/cafe/community/egl>
- Leverage the Enterprise Modernization Sandbox - http://www.ibm.com/developerworks/downloads/emsandbox/?S_TACT=105AGX28&S

Additional Information

- RTC Power product page:
 - ▶ <http://www-01.ibm.com/software/rational/products/rtcp/>
- RTC Power support page:
 - ▶ <http://www-01.ibm.com/software/rational/products/rtcp/support/>
- RTC Power project page on jazz.net:
 - ▶ <https://jazz.net/projects/rational-team-concert-power>
- RTC Power 2.0 download page on jazz.net:
 - ▶ <https://jazz.net/downloads/rational-team-concert-power/releases/2.0>
- Articles, videos, wiki entries, forums, blog posts, etc. on jazz.net