

IBM Software

Innovate2011

The Premier Event for Software and Systems Innovation





19-July Sydney, Australia **21-July** Melbourne, Australia

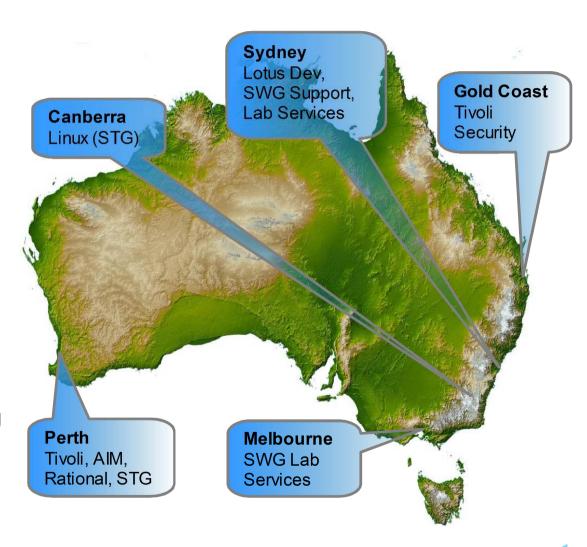
Agenda

- Introduction
- Software development in IBM Australia: ADL
- Which products?
- Tools and Processes
- Rational tooling adoption
- Case studies: Lotus WCM and Tivoli SAPM teams
- Success through Rational and global integration
- •Question time



IBM Australia Development Laboratory (ADL)

- IBM A/NZ Business Unit Formed July. 2006
- Integrated existing SWG/STG Development, SWG Support, and Lab Services teams
- Heritage primarily via acquisitions (Micromuse, Aptrix, DASCOM, etc.)
- 100's staff with deep technical skills
- Establishes tangible IBM technical credentials in Australian IT market
- A/NZ, GMU and WW client impact
- Catalyst for innovation and solid contributor to IBM patent portfolio
- •Interaction with universities and strong relationship with IBM Research
- Part of globally integrated SWG/STG development organisation





ADL Develops products as part of IBM Software Group

- Tivoli
- -Security: ISS appliance and Server Protection, Access Manager (TAMeb, TFIM), Integration Factory (TIM/TAM), GSKit, zSecure, Key Lifecycle Manager,
- -Composite Application Management (Transctions, CAMfSOA/BPM, Response Time)
- -Network: (Netcool OMNIbus, Precision, heritage Service Monitors)
- -Asset Management: Asset Discovery (TADz), Decision Support (TDSz)
- Lotus
- -Web Content Manager / Portal
- Rational
- -RTC 3.0, BuildForge
- -Rational Development for z/OS, SCLM Developer Toolkit, VAGen
- Application and Integration Middleware
- -PD Tools (Fault Analyzer, File Manager) for z/OS
- -High Level Assembler (HLASM)
- -ISPF
- -MQ Advanced Message Security for z/OS
- Information Management
- -IMS Packaging
- Systems and Technology group
- -Linux on Power, Baremetal bring-ups, KVM, SoNAS
- -RACF for VM, System SSL for z/OS

IBM. Lotus. software

IBM. Tivoli. software

IBM. WebSphere. software

IBM. Rational. software

IBM. DB2. Information Management Software





Processes and Tooling

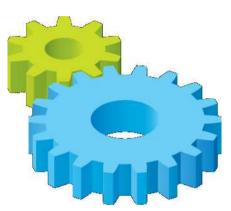
- ADL has been at the forefront as early adopters who have driven a tremendous amount of value out of Agile and an adjacent best practice:
- Formal code and design inspection
- -Test and build automation with good employment of Continuous Integration practice
- -Global Agile development at scale
- -Test driven development
- -Common tooling and centralised services
- •The Rational development ecosystem is the foundational layer which underpins the establishment and growth of best practice
- Demonstrable improvements in efficiency and quality
- Development practices within SWG continue to undergo a significant transformation to a truly "disciplined Agile" approach
- Appreciate the scale and heritage of IBM's software operations



So, exactly how do ADL teams use Rational products?

Although brands/teams often use tooling in different ways, patterns are easily identified and not unexpected:

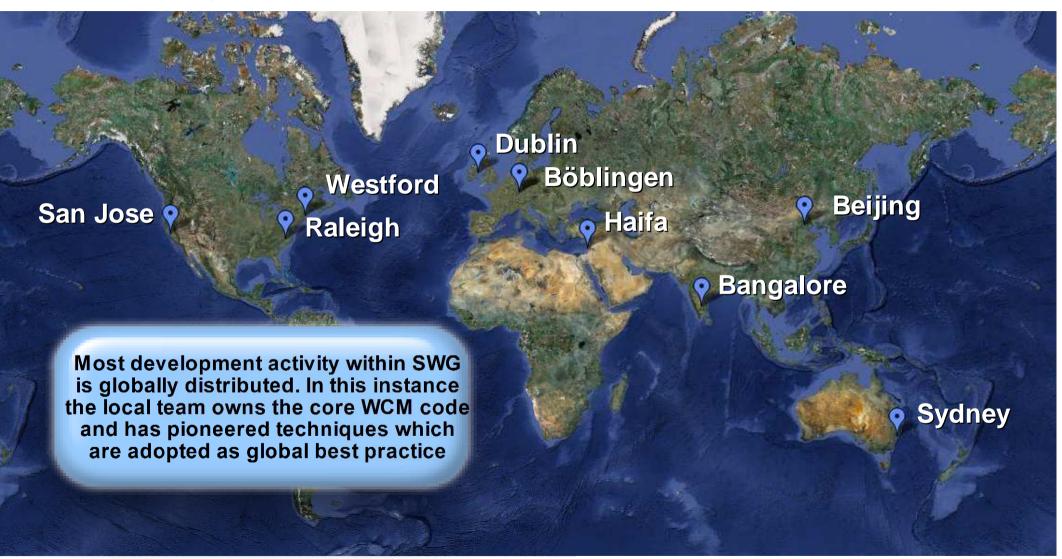
- Test and UI Automation (RFT, RQM)
- Static code analysis (Purify, Quantify)
- Development environment (RAD, Eclipse)
- Continuous Integration / Build (BuildForge)
- •Defect Tracking (ClearQuest, CMVC → RTC)
- Agile planning, execution and reporting (RTC/Jazz)
- Source code control (SCLM, ClearCase, CMVC → RTC)







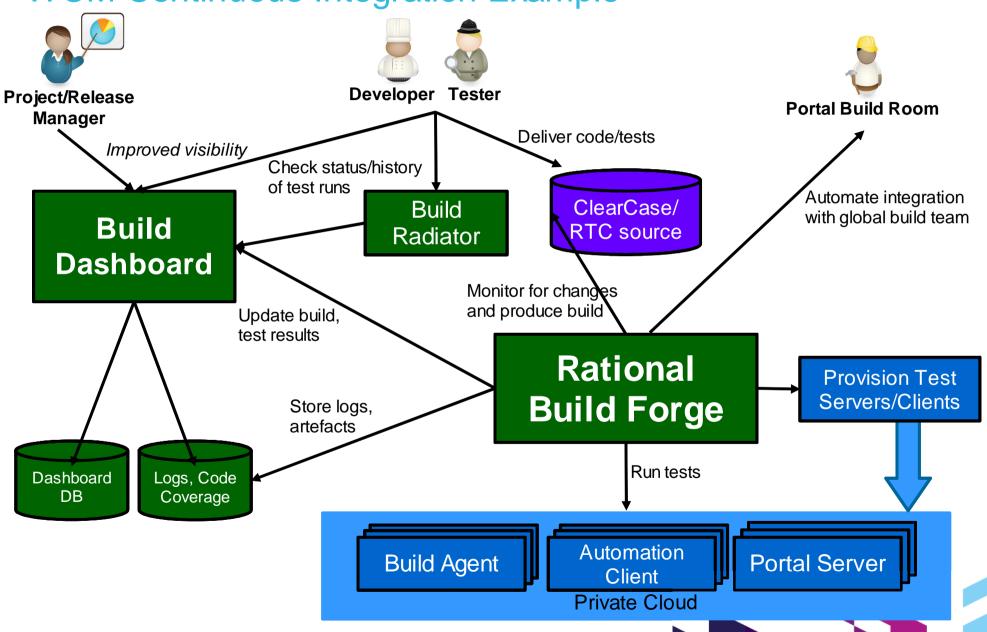
Case study: Lotus WCM/Portal



Various development functions executed WW

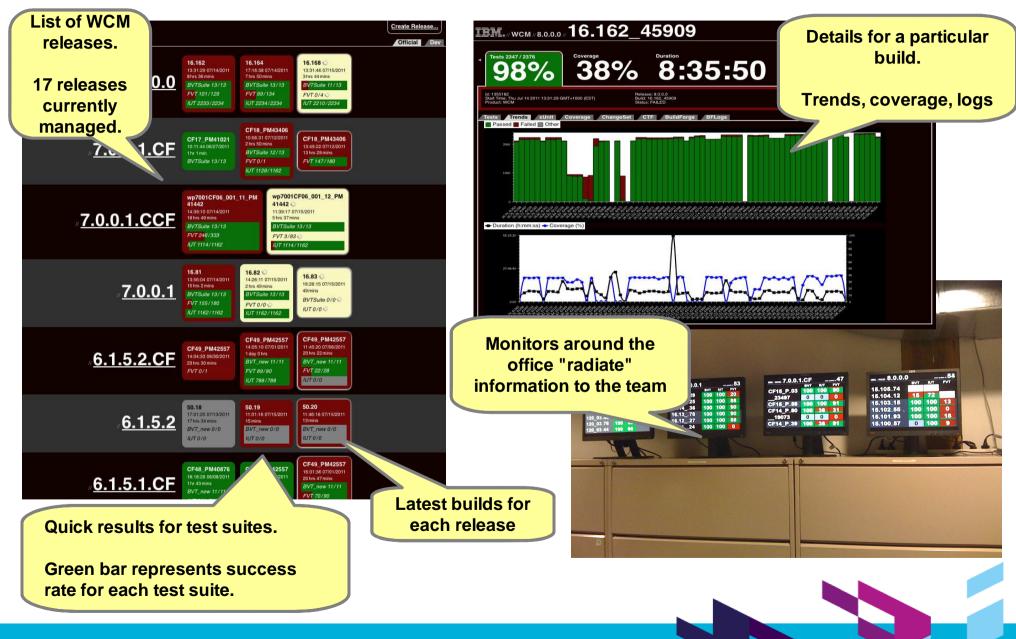


WCM Continuous Integration Example



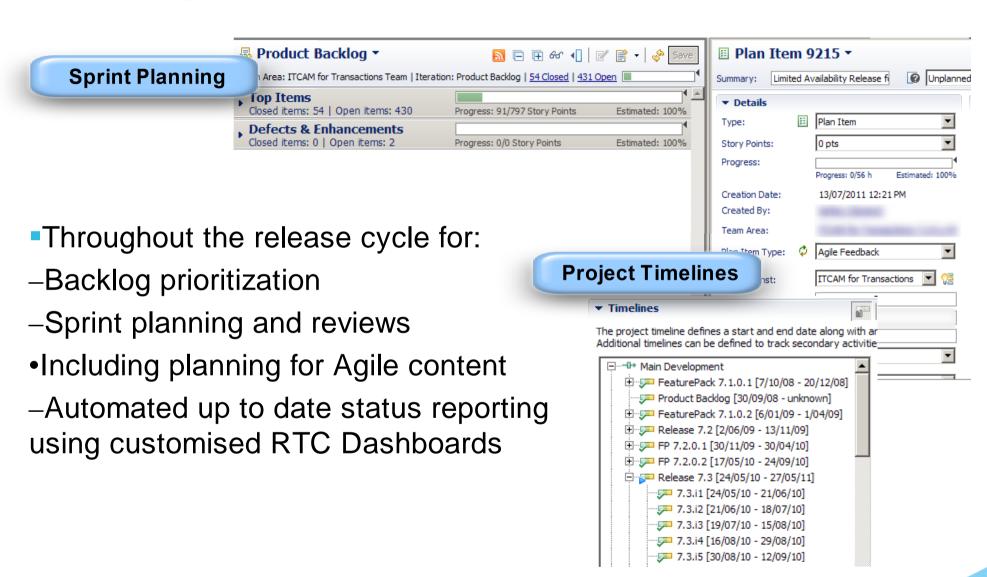


WCM/Portal Build Dashboard Example





Case Study: Tivoli SAPM uses RTC





Internet Service Monitoring Team ITCAM for Transactions Team

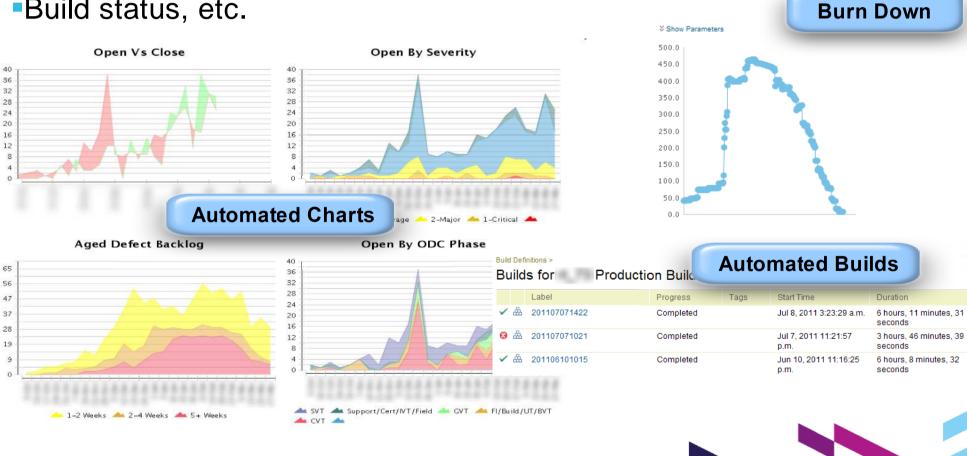
Response Time Team

Transaction Tracking Team

Achieved In Progress Rem aining

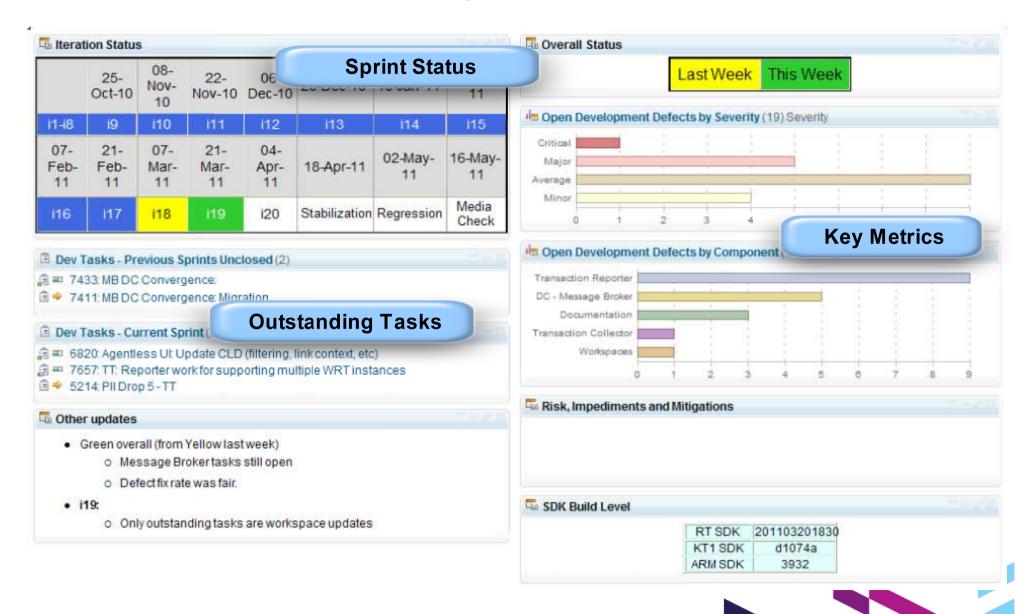
Tivoli SAPM team RTC reporting

- Point and defect burn down charts
- Automated weekly charts
- Build status, etc.



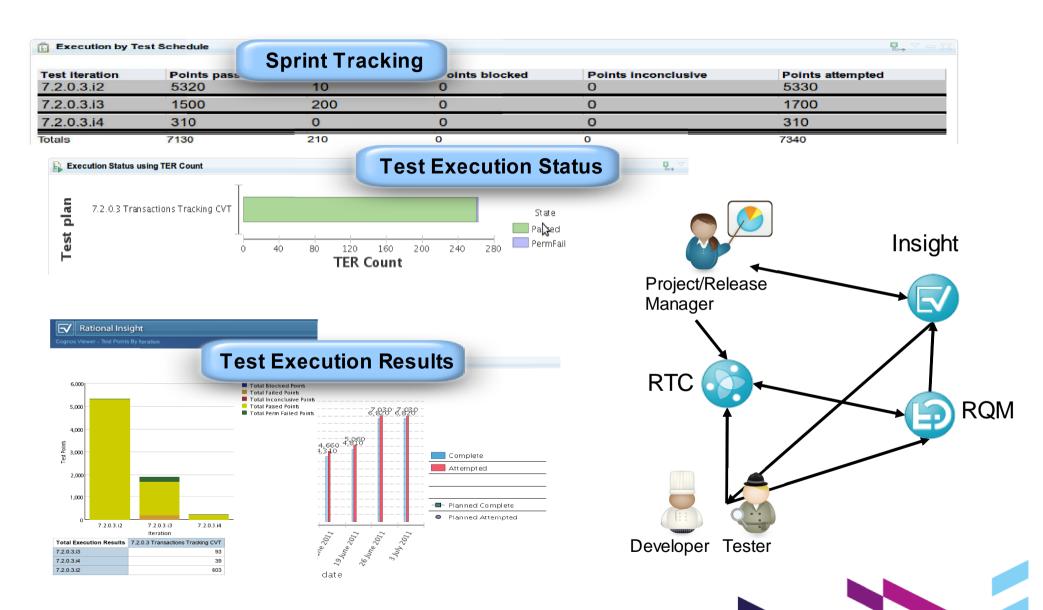


Automated Status Reporting with RTC Dashboards





...and RTC integrated with RQM and Insight





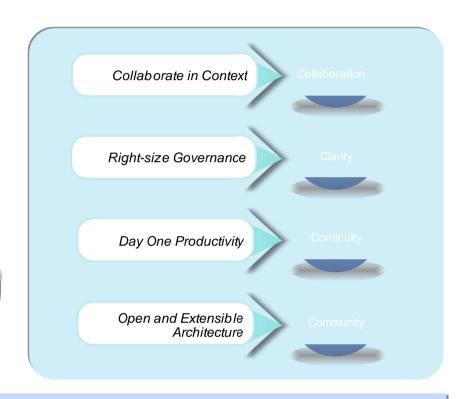
Rational Team Concert supports Mainframe development

Rational Team Concert brings together diverse teams allowing them to work together to build solutions

Available Today

Rational Team Concert

JAZZ TEAM SERVER



Client Integrations

- Eclipse and Eclipsebased products
- Web 2.0
- Visual Studio

Extensions for System z

- Native z/OS build support
- Integration with Rational Developer for System z
- Integrated SCM solution for z/OS and distributed assets
- Flexible Deployment Platforms z/OS, Linux on System z, or distributed
- ISPF Client for SCM operations



Globally integrated development with Rational

Agile works well at scale if you have the right level of discipline and the right foundational tooling

- -Rational exemplary, inclusive of mainframe
- –SME is equally well catered
- Common tooling approach gives flexibility in resource assignments
- –Minimize re-training and startup costs
- -Collaboration and development of community best practice
- ADL, and SWG WW has leveraged a tremendous amount of value over time, and indeed continues to provide feedback on enhancements and potential improvements in the Rational portfolio via the internal development community







