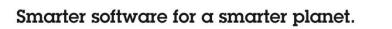
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Rational In Production

Daniel Would & Nigel Hopper









"Geenfields" project

Approx 60 people

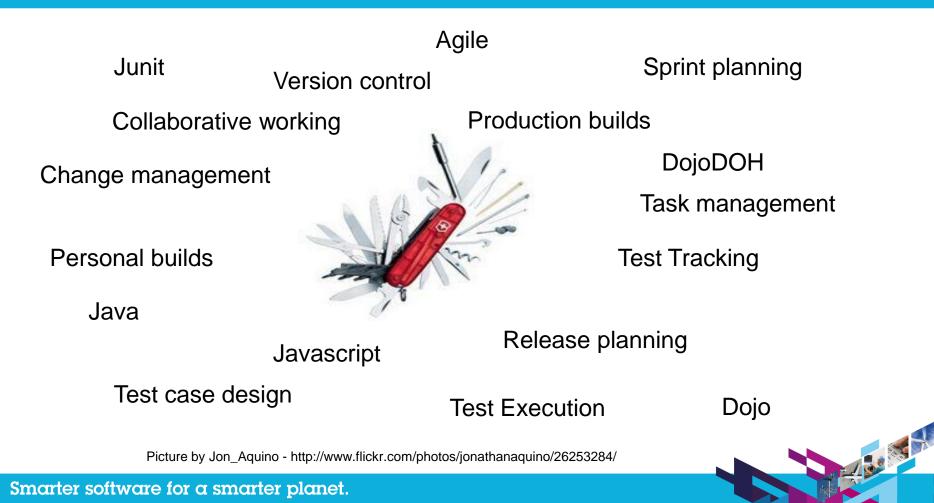
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Team is gathered No project infrastructure

Require rapid start



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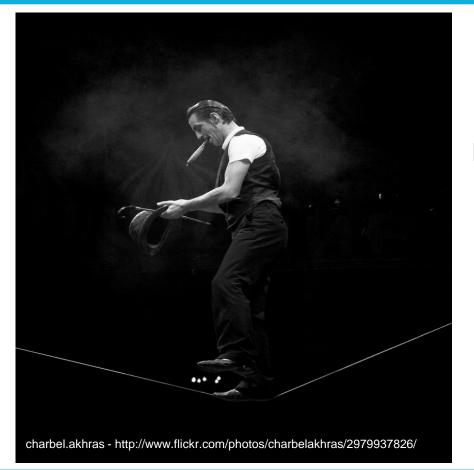


Rational Team Concert

Rational Functional Tester

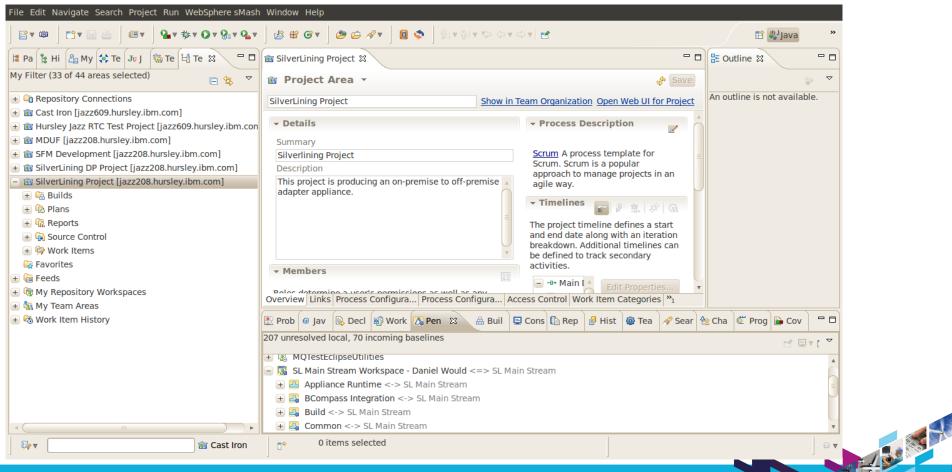
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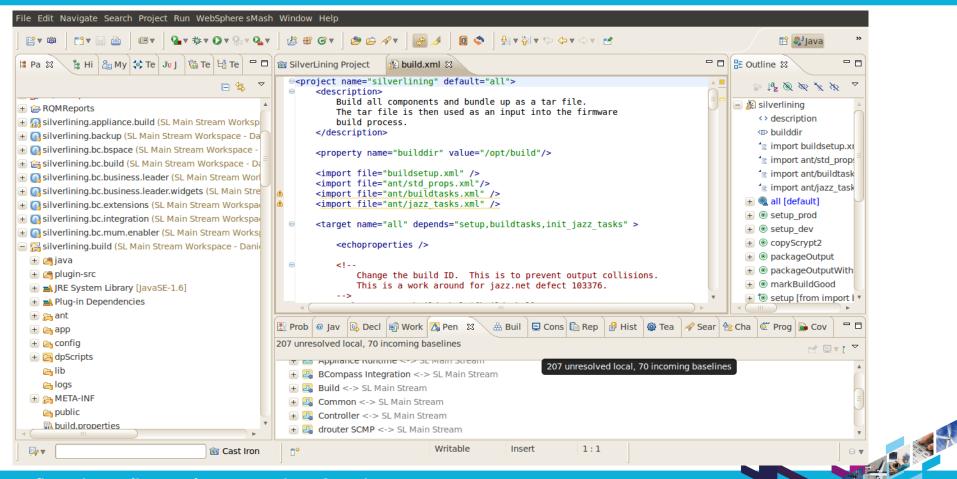


Live demo – without a safety net!

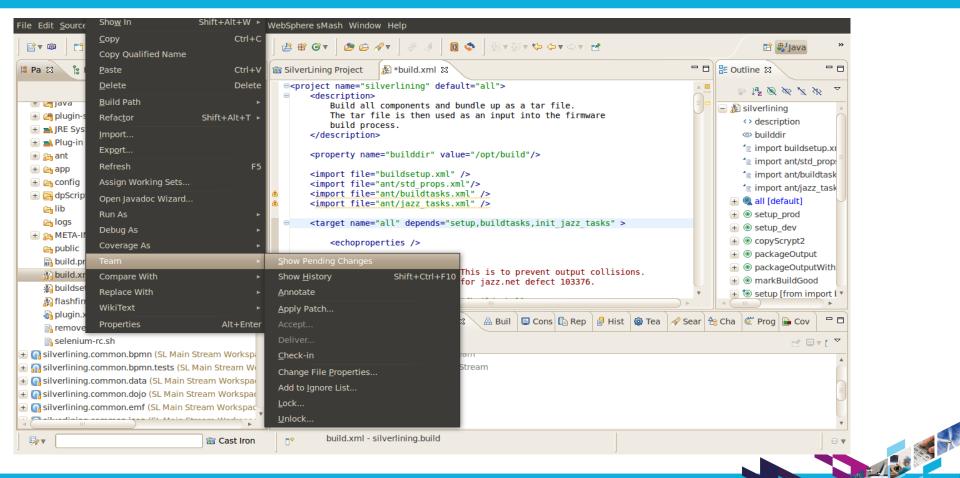




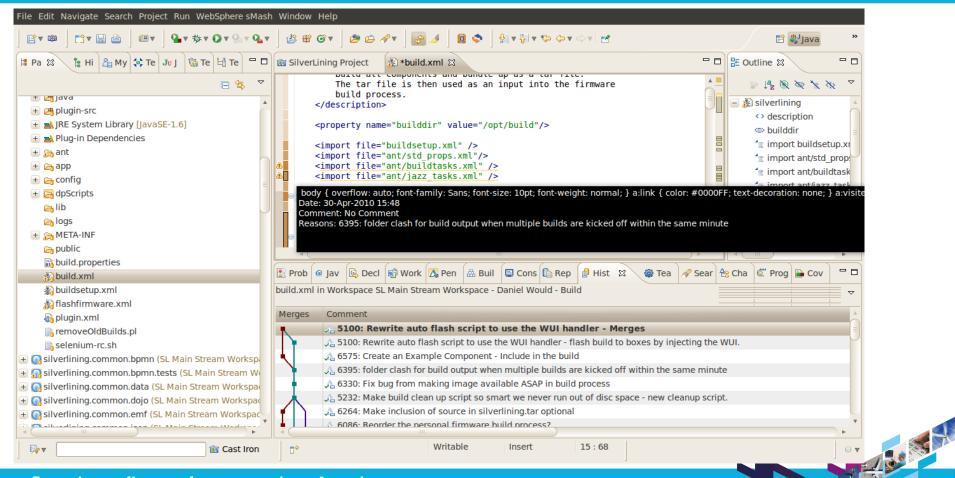




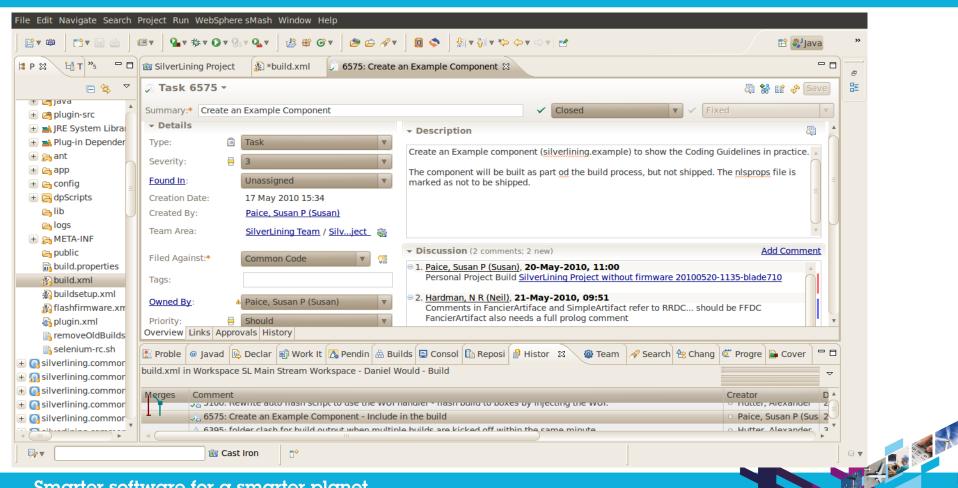




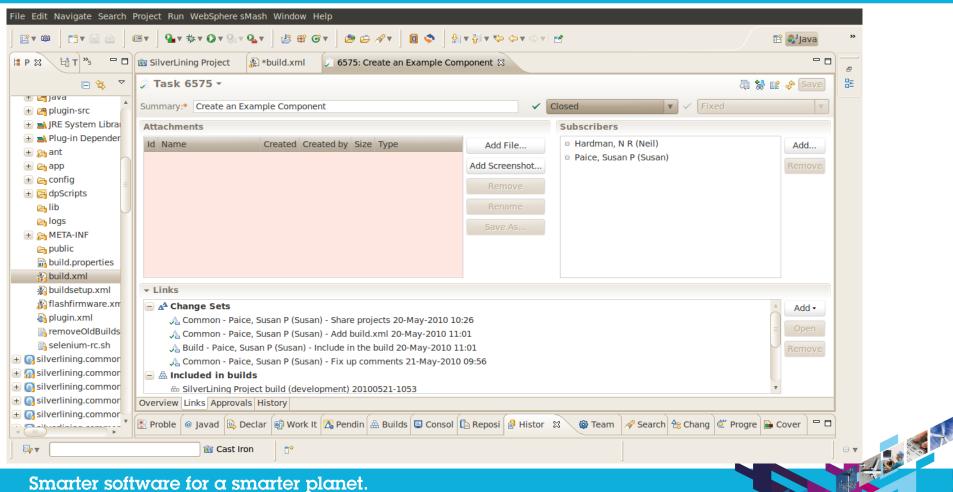




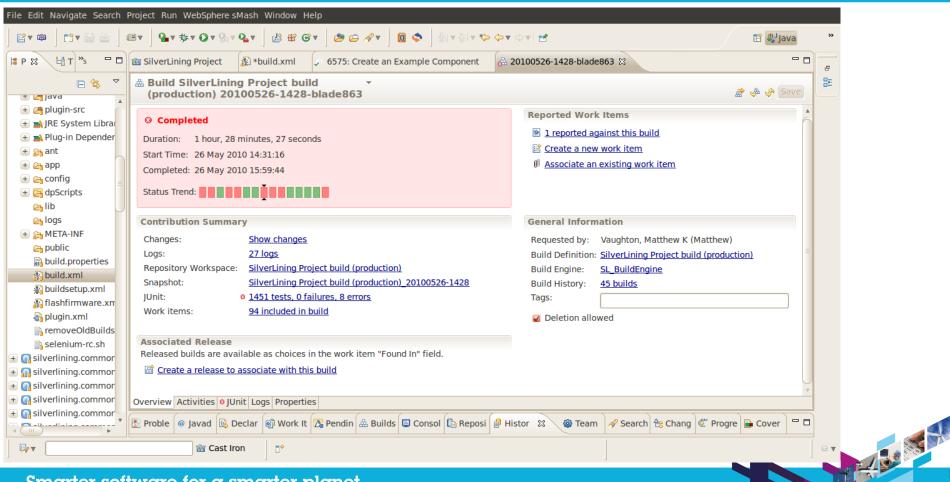






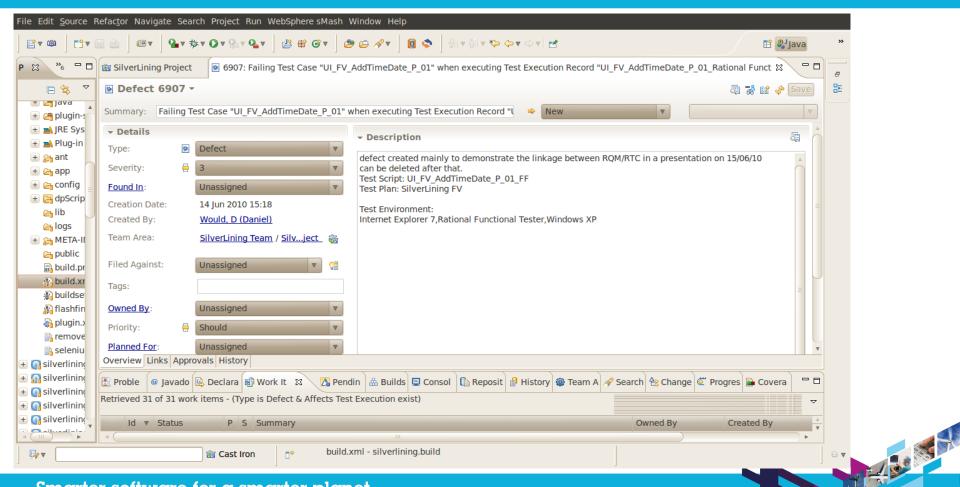






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Integrated & Flexible to change





CICS – Agile and RTC Nigel Hopper





Agenda

- Whistle stop tour
- Brief CICS intro
- Why Agile?
- Why RTC?
- Getting there...
- Where are we?
- What next?
- The benefits
- Q&A





CICS – Brief History

- CICS Customer Information and Control System
- Transaction manager
 - Rapid, high volume transaction process
 - For example, simply requesting an inventory or crediting/debiting an account
- Generally banks and Insurance companies
 - Approx. 90% of Fortune 500 reported to use CICS on z/OS

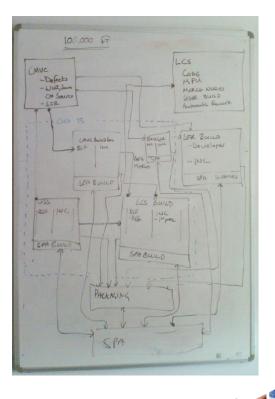


CICS – Brief History (cont.)

- Been around for approximately 40 years
- Release cycle approximately every 2 years
- Combined code base of approximately 6mloc
 - Much still in assembler!
- Many add-ons/tools e.g. CICS Explorer
- Historically developed in a very waterfall manner
 - Upfront commitment to IBM management

Issues

- Using a wide variety of tools to manage project, for example:
 - Database for customer requirements
 - Lotus Notes databases/documents for:
 - Requirements
 - Actions
 - Risks
 - 2 source code management systems
 - Highly integrated build into SCM
 - Skills shortage
 - High learning curve for new starters





Why Agile?

- Clearly a lot of industry buy in
- Clear strategic IBM corporate direction for developing all products using the Agile approach
- "If CICS can do it anyone can"



So why RTC?

- Vision: Single non-proprietary environment for the delivery and service of future releases of CICS Transaction Server for zOS
- In 2008 couple of CICS System Testers trialled it
- Hugely impressed and put the RTC v1 beta(!) in production
- Demonstrated it to a number of CICS Team
- Further investigation and trials proved RTC seemed to have the capability
- June 2009 RTC migration began



Agile – getting there...

- CICS 4.1 started in 2007
 - 2 year release cycle
 - 4 month iterations
 - Beta at the end of each iteration
- Still committing up front to 2 years of development
- Effectively a mini-waterfall approach
- Changing people's perceptions of what is possible
- 2009 Senior developers/testers given basic Agile education
- 2009 Continued self education on Agile
- General belief that this might work

RTC – getting there...

- Current release started mid-2009
- Continued with iterative approach
 - 4 month phases, 2 month iterations
 - Teams can use shorter iterations
- Key goal use RTC "out of the box"
- Key goal use industry standard "Agile" methods/terms
- Key goal minimum number of roles
- Basic RTC project put in place to gather product requirements
- Initial focus on work items
- Source control and build long term goals
- Used an RTC project to implement RTC



RTC – getting there... (cont.)

- Issues:
 - Attitudes
 - Seen it all before
 - Don't want to change/try something new/see benefits
 - Not another tool Rational not seen in a good light
 - How long will this one last?
 - Why fix something if it isn't broken?
 - The CICS process, not truly Agile
 - Becomes obvious when trying to map in RTC
 - Getting agreement to change
 - Senior management Still want up front commitment
 - Code base not conducive to Agile development



Where are we...

- Changing CICS direction a little like an oil tanker
- It takes time!
 - 3 years so far
 - 2 year adoption of iterative development
 - 1 year migration to RTC
 - At least 1 more to go



Where are we... (cont.)

- All planning activity in RTC
- All approvals activity in RTC
- All work items in RTC
 - Epics, Stories, Tasks, Defects, Actions, Risks, etc.
- All team tracking and status in RTC
- All quality checking is done in RTC
- All RTC coordination and change requests in RTC
- All CMVC code (~30%) in RTC

What next?

2010

- Completion of new build process
 - Starting to use it in testing
- Continued driving down Epic/Story sizes
- All new projects Agile/RTC based
- Greater adoption of scrum approach

2011

- Migration of remaining code
- Servicing code through RTC
- Shorter iterations
- Continued Agile adoption







The benefits...

- Value for 2nd Line, 1st Line & PM
 - Transparency of team dependencies
 - Integrated work item and reporting tools
 - Instant status reports
 - Transparency of work items and status
 - Responsiveness to business needs
 - Beta deliveries continued development & fixed cycles
 - Flexible resource pool
 - Mitigate against future risks
 - Loss of specialized skills (particularly LCS)



The benefits... (cont.)

- Value for the engineer
 - Skills in a 'industry leading' environment
 - Much reduced learning curve
 - Removal of the burden status reporting
 - Less preparation of status & less duplication
 - Productivity improvements
 - Single skill set for development and service
 - Far greater collaboration and notification





The benefits... (cont.)

- General benefits
 - Quality has improved
 - 2007-2009 defects focused on much earlier
 - Defects in RTC defects part of the backlog
 - New ways of working e.g. Dashboards
 - Individuals can create their own views
 - You can trust people
 - The more you use RTC, the more ways you find of using it



Final point

• I was asked "If you had to pay for it, would you do so?"

• My answer "I'd be on the team seeking funding!"





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Questions?

Smarter software for a smarter planet.

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