

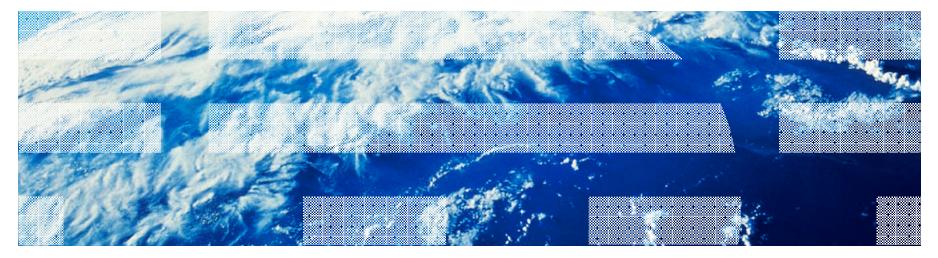
News to Development Environments and for RDz for z/VSE

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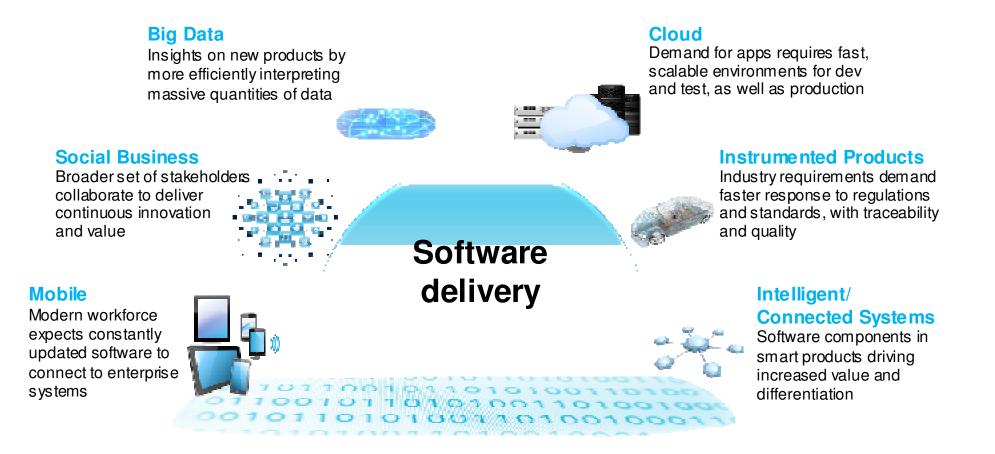
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Software delivery is at the heart of today's top technology trends

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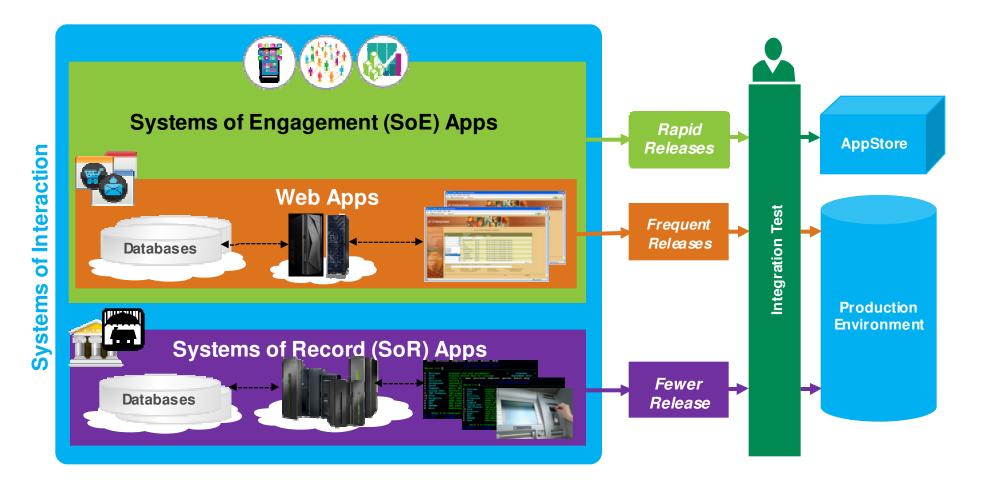




The Systems of Interaction landscape

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Bringing together the people, processes, and tools across the entire software delivery lifecycle – spanning mobile to mainframe platforms

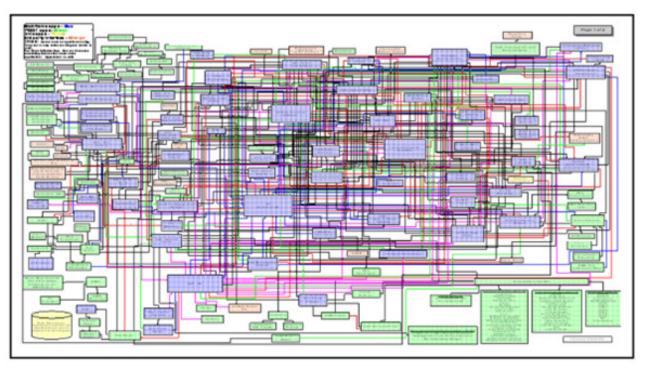




System of records can be complex systems built on decades of continuous & incremental development

Change?

Improve response time?



Modernization?

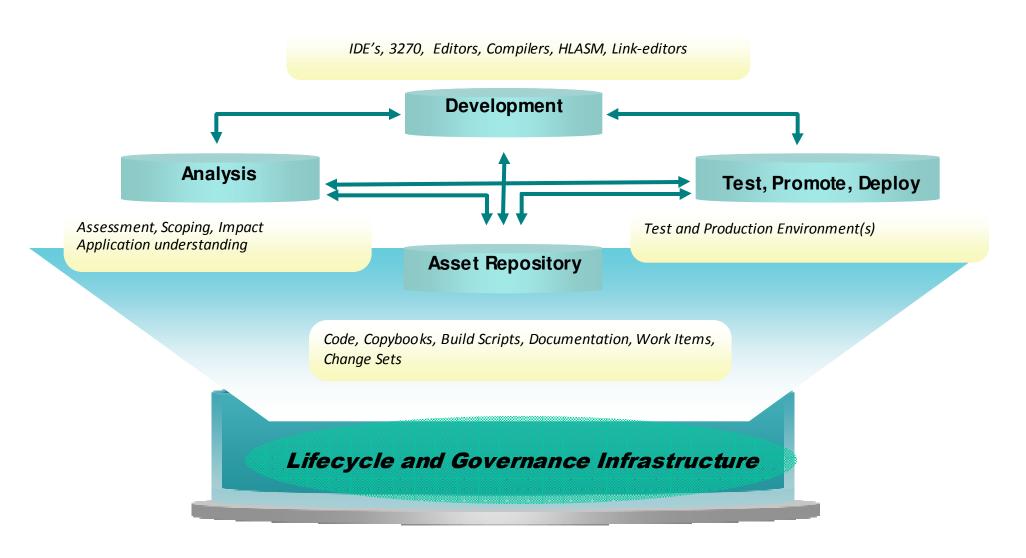
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Where do I start?





Infrastructure for Application Development on z





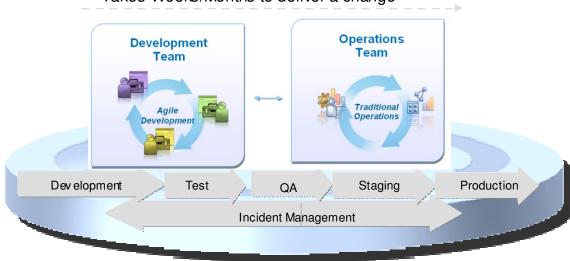
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Software Delivery Challenges: what we hear from customers

Needs:

- Reduce cycle time and delays
- Improving software delivery efficiencies with standardization and automation
- Improving Quality of Delivery and reducing roll-backs



Takes Weeks/Months to deliver a change

Quality Challenges

- Difficulties in reproducing production defects
- Long time to fix defects
- Poor Test coverage

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Lack of automated testing

Release Challenges

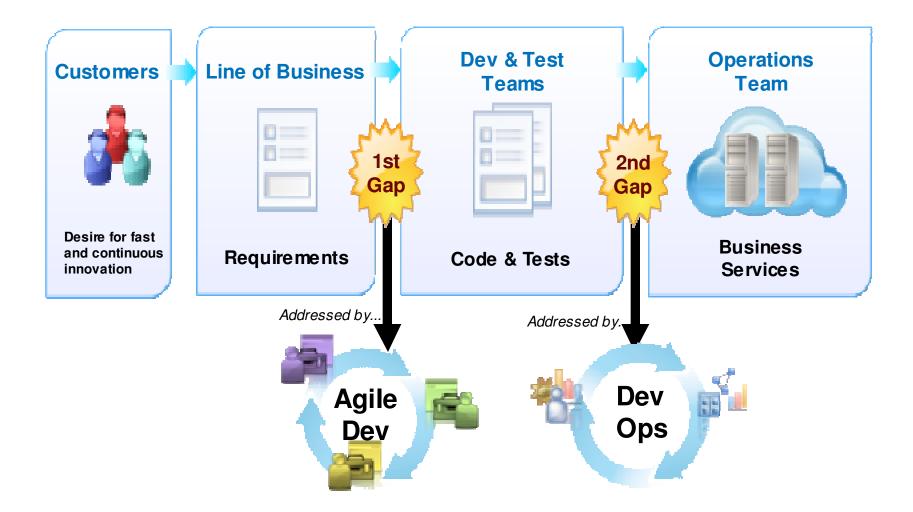
- Differences in Dev/Ops environments
- Siloed / Limited automation
- Long set up time

Process and Cultural challenges

- Point-Point, adhoc and Fragile integration of tools
- Poor visibility, stability and extensibility
- Cultural barriers limiting collaboration
- · Heavy-handed control of dev environments
- Simplified view of a single-release pipeline. In general, there are multiple projects, releases, and technologies at play



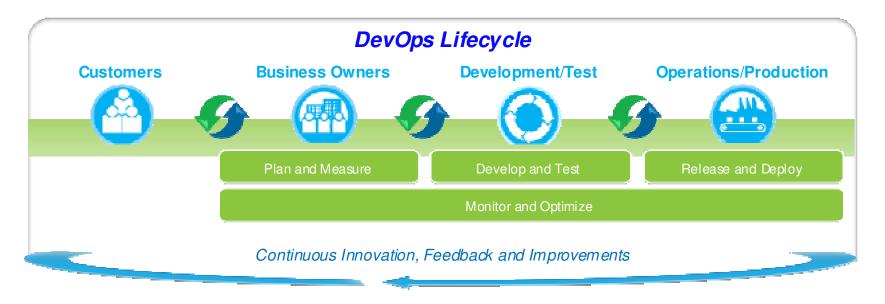
Challenges delaying delivery of functionality to the business



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What is "DevOps"? - close the Gap between Development & Operations

DevOps - Enterprise capability for continuous service delivery **that enables clients to** seize **market opportunities and** reduce time to customer feedback.



Accelerate Software Delivery

Expanding collaboration to include customers, LOB and others to eliminate organization silos

Balance speed, cost, quality and risk

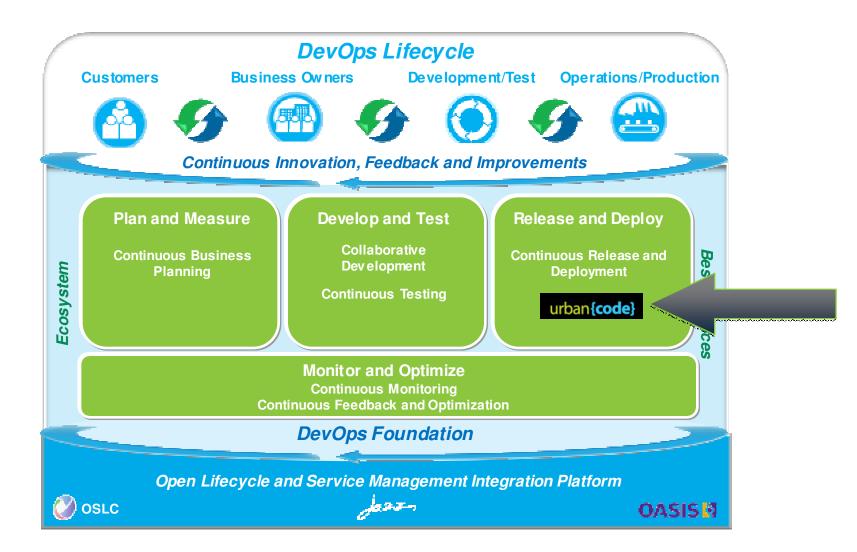
Automating manual processes across delivery lifecycle to eliminate waste/delays and compliance tracking

Reduce time to customer feedback

Enabling a customer feedback loop for continuous improvement



Urbancode at the Heart of IBM's DevOps Architecture





Urbancode, an IBM Company

- 11 Years Build, Release and Deployment Experience
- Global Customers
- Enterprise scalability, security, compliance and automation
- Training, consulting and implementation services

"One key benefit of UrbanCode is how quickly it can be implemented and used for deployments."

Gartner

Based in Cleveland, OH







Open Services for Lifecycle Collaboration Simplifying collaboration across the software delivery lifecycle



Open interfaces. Open possibilities.

Write non proprietary integrations between CC / CQ integrated work items and other products

· Allows you to easily integrate tools that are OSLC compliant

 Barriers to sharing resources across the software lifecycle Multiple vendors, open source projects, and in-house tools 	 The Open Services initiative is Building a community of software vendors, open source projects, integrators, and corporate IT teams, operating at open-services.net
 Private vocabularies, formats and stores Entanglement of tools and data 	 <i>Creating</i> public specifications of resources and services for sharing the things that software teams rely on, like change requests, test cases, defects, requirements and user stories <i>Delivering</i> loosely coupled resource formats and services with "just enough" standardization

IBM

Envisioning a platform that can transform software delivery



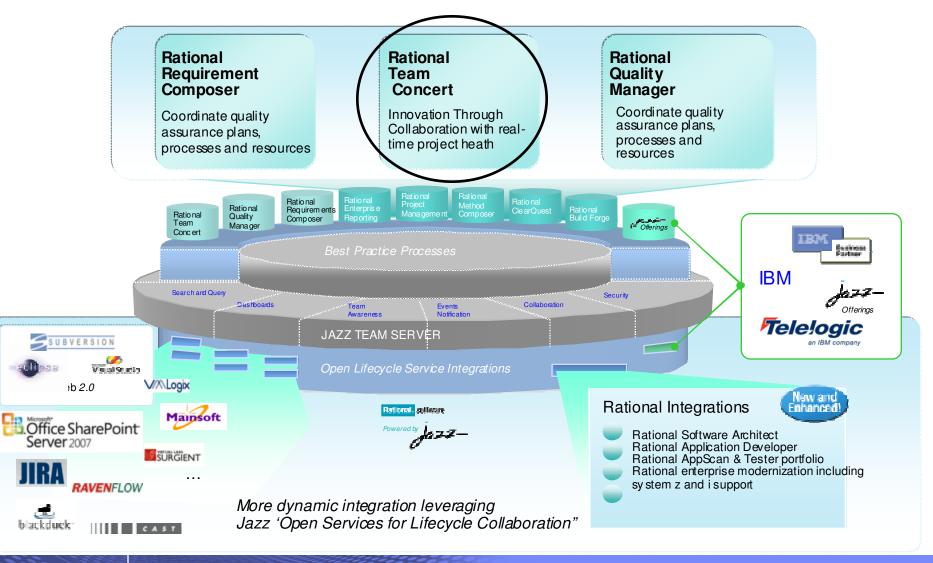
Jazz is a project and platform for *transforming how people work together* to deliver greater value and performance from their software investments.

Jazz is...

- A scalable, extensible team collaboration platform
- A community at Jazz.net where you can see Jazz-based products being built
- Our vision of the future of systems and software delivery, supporting globally distributed teams
- An integration architecture enabling mashups and non-Jazz based products to participate
- An evolution of our portfolio which will evolve to leverage Jazz technology over time

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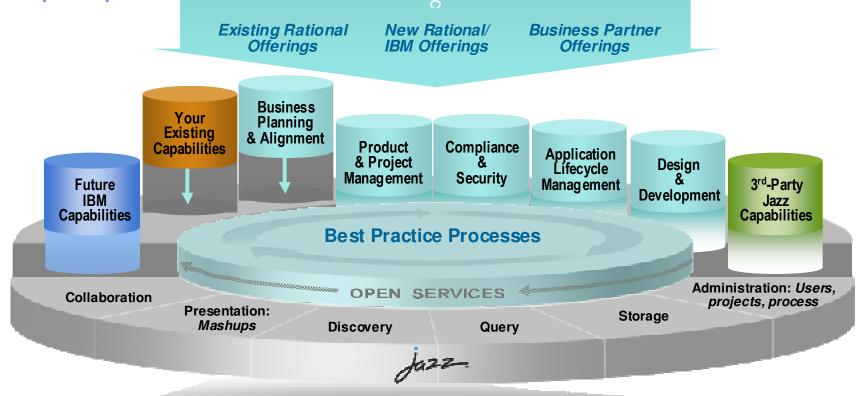
IBM Rational Jazz Platform



IBM

Rational Team Concert (RTC) is based on Jazz

An open platform with a shared set of services

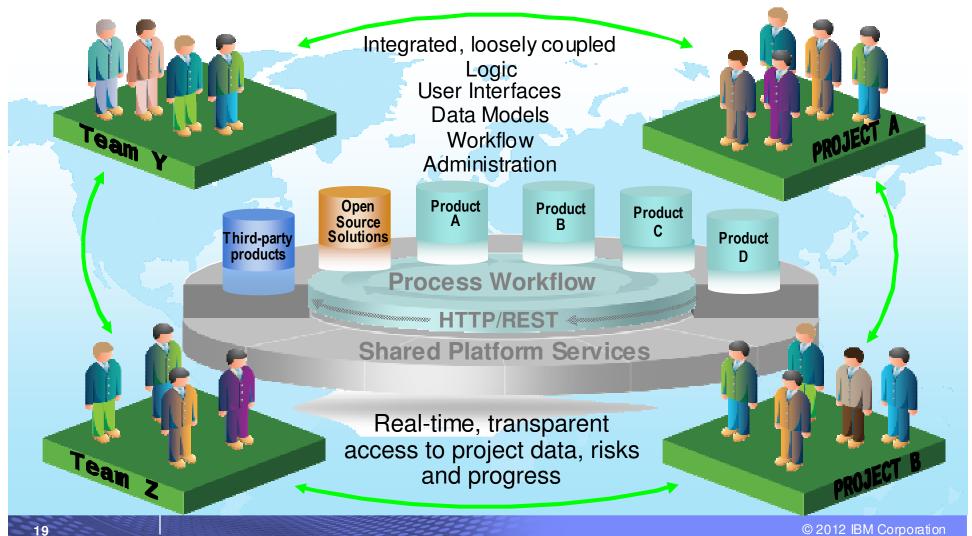


Jazz is...

- A scalable, extensible team conaporation prationin
- A community at Jazz.net, where you can see Jazz-based products built in the open
- An open architecture for lifecycle integration (OSLC www.open-services.net)

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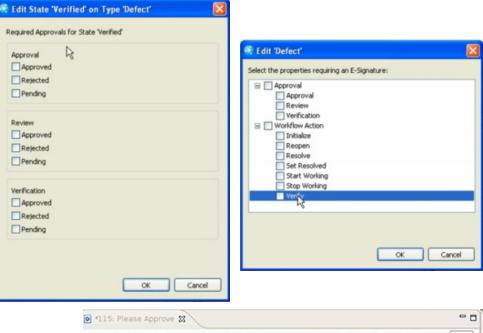
Jazz: A platform for development integration and collaboration

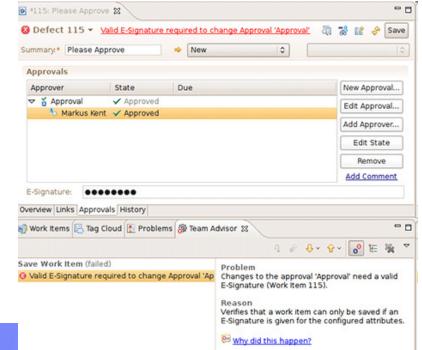




Govern change-mgmt

- Establish and enforce approval and review checkpoints in your change workflow
- Require approvals and reviews before a workflow state change
 - Example: Rejecting a submitted workitem, moving a defect from submitted to planned, moving an enhancement from resolved to implemented
- Establish multiple approvals and reviews integrating comments and discussion
- Require an electronic signature when changing the state
 - Example: As part of an approval, when moving an enhancement or defect from submitted to rejected or accepted.

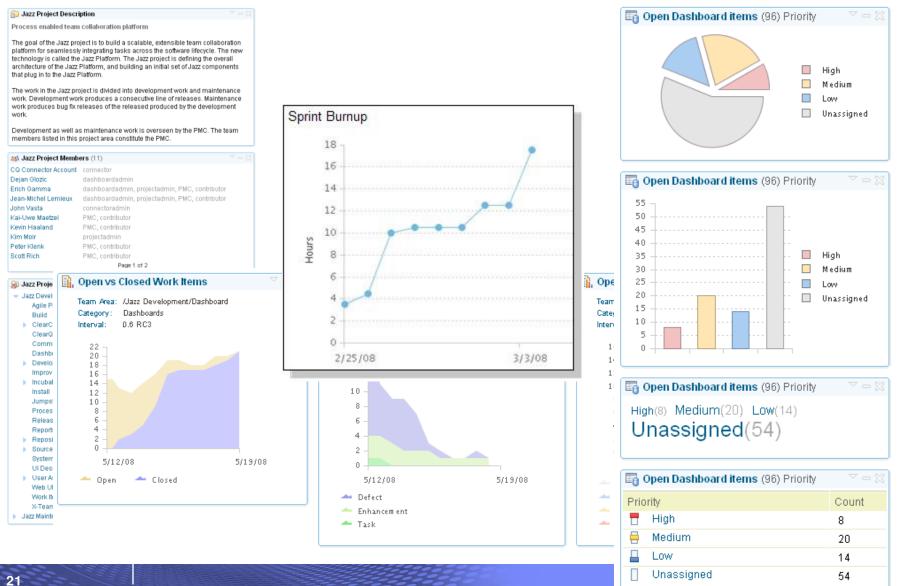






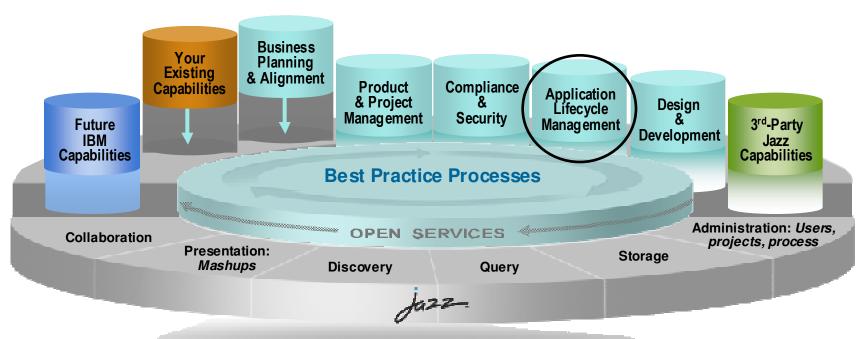
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Transparency and Status for Everyone Every stakeholder knows project status without having to ask



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Rational Developer – for development life cycle An open platform with a shared set of services



Jazz is...

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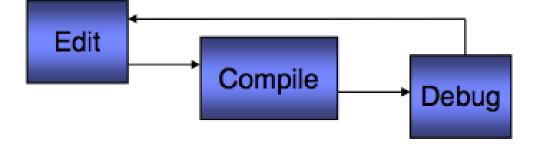
- A scalable, extensible team conaporation pration
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IBM Rational Developer for System z

An integrated development environment to boost your E/C/D productivity:

- $\checkmark~$ Rich source editing and navigation
- \checkmark Code review for code governance
- ✓ Integration with the platform's latest compiler technology
- ✓ ... and a new RDz Integrated Debugger to provide a seamlessly integrated & complete Edit/Compile/Debug solution out-of-the-box

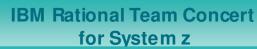






Integrates with Rational Team Concert for System z

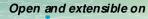
- Rational Developer for System z projects in Rational Team Concert for System z
 - Rational Developer for System z projects are a view into the Rational Team Concert for System z project
 - Rational Developer for System z projects provide a working set for the developer
 - Rational Developer for System z projects are not shared in the SCM
- Rational Developer for System z augments the development productivity & experience
 - files act as if on the host
 - Appropriate editors (COBOL, maps, etc.) and functions (content assist, syntax check, etc.)
 - High value functions (XML enablement, SFM, code generation from models, from UML, etc)
- Rational Team Concert for System z provides
 - Agility, collaboration and process
 - SCM and Build functions for multiple platforms







transparent integrated presence wikis OPEN real-time reporting Chat documents Web 2.0 custom dashboards automated data gathering EXTENSIBILITY Eclipse plug-ins Services architecture FREEDOM TO CREATE



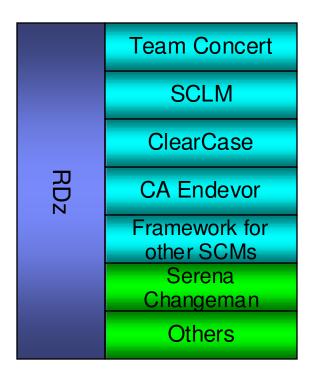
Collaborate
 Automate
 Report





Access source code...

- Rational Developer for System z offers integration into a variety of Source Code Management (SCM) tools as well as a framework for creating SCM integration on your own
- Variety of vendors supply plug-ins to Rational Developer for System z to provide easy access to processes and source code controlled by their products





IBM Supplied Vendor Supplied

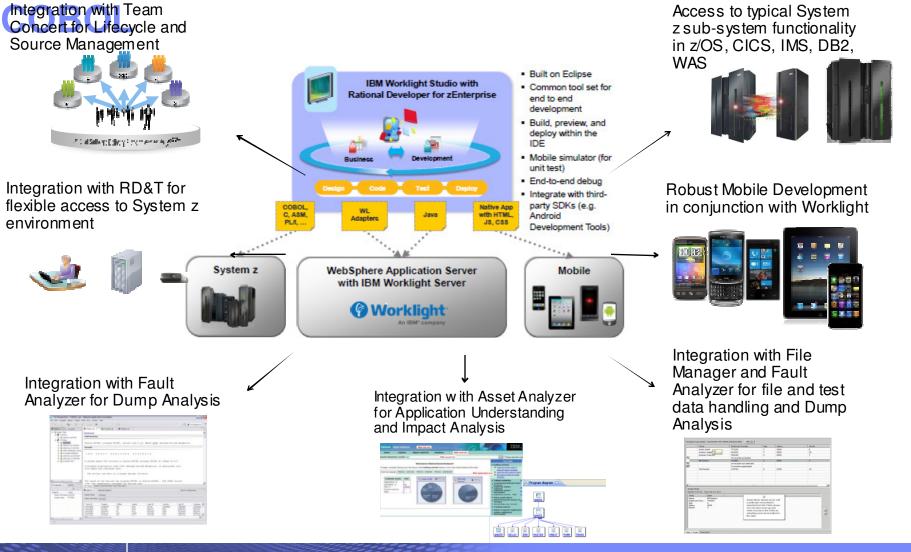


Development objectives !!!

- Tools for managing existing z/VSE source code and changes
 - COBOL, ASM, PL/I, C, 4GL Languages
 - increased productivity for changes and new development
 - flexibility in versioning
 - effective group development control
- Develop for multiple platforms
 - common framework for the enterprise instead of multiple unique platform dependent tools
 - same basic tool set for open systems and mainframe
- Open source based technology
 - tools that students know from school and university communities
 - help new developers adapt to the mainframe

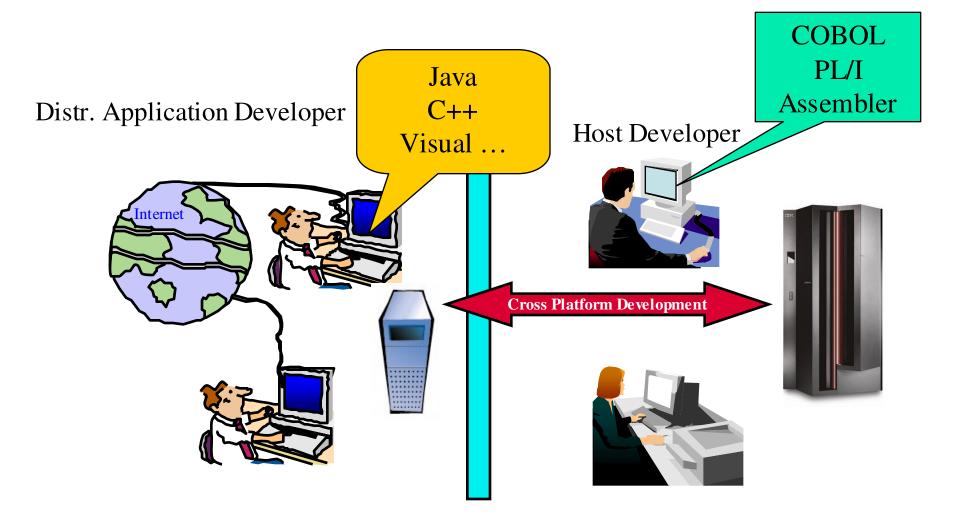


Rational Developer for System z - a complete tools set with capabilities from Mobile Development to



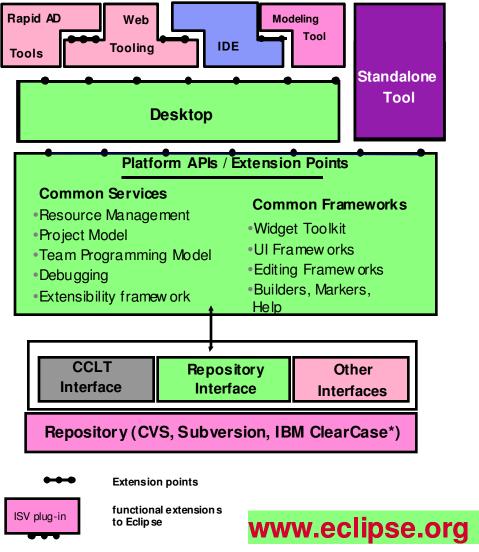


'Distributed' Development Landscape...

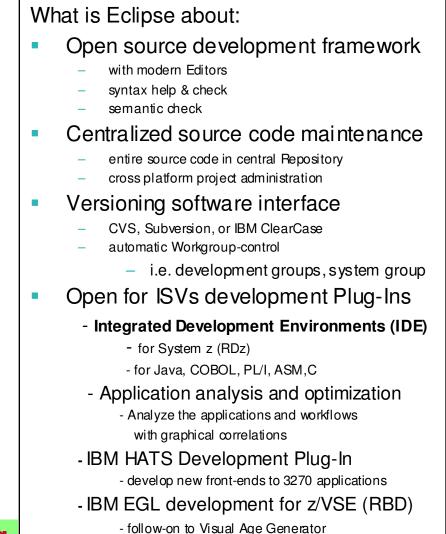




Eclipse - the open Standard for application development

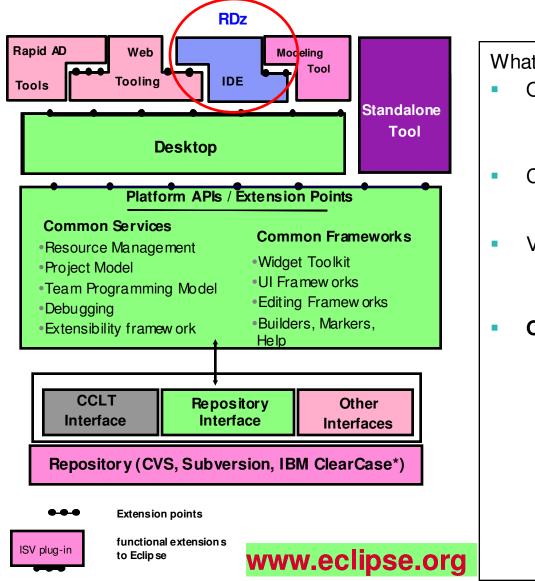


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IBM

Eclipse – the open Standard for application development



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What is Eclipse about:Open source development framework

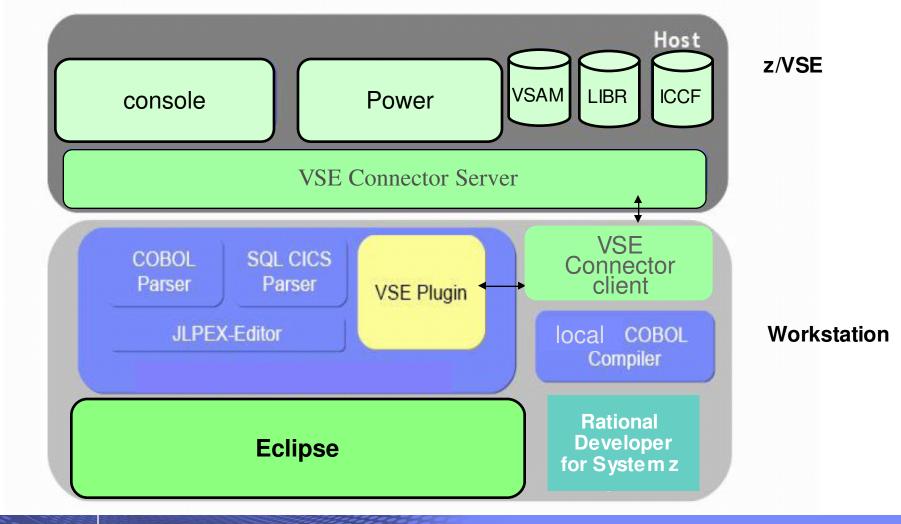
- with modern Editors
- syntax help & check
- semantic check
- Centralized source code maintenance
 - entire source code in central Repository
 - cross platform project administration
- Versioning software interface
 - CVS, Subversion, or IBM ClearCase
 - automatic Workgroup-control
 - i.e. development groups, system group

Open for ISVs development Plug-Ins

- Integrated Development Environments (IDE) - for System z (RDz)
 - for Java, COBOL, PL/I, ASM,C
- Application analysis and optimization
 - RTW Rational Trasformation Workbench
 - Analyze applications with graphical correlations
- IBM HATS Development Plug-In
 - develop new front-ends to 3270 appls.
- IBM EGL development for z/VSE (RBD)
 - follow-on to Visual Age Generator

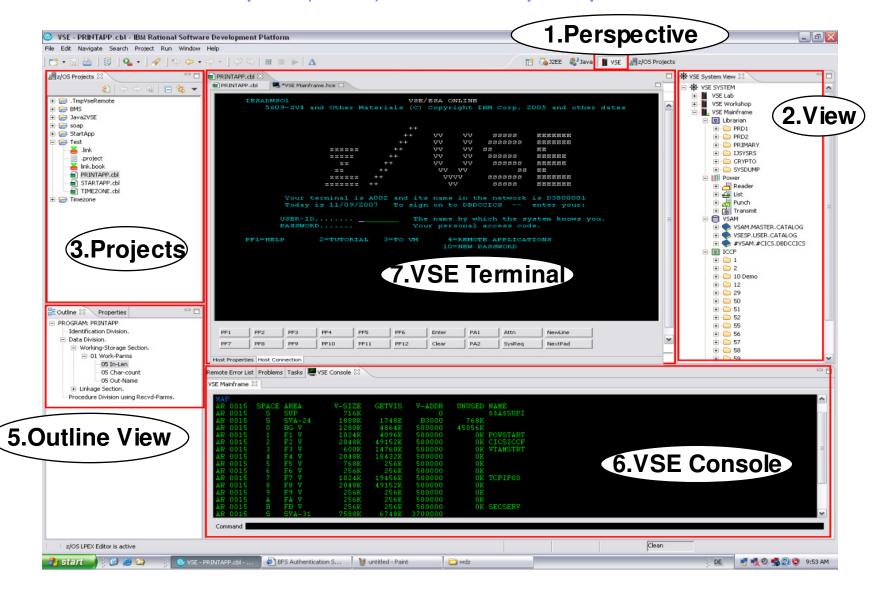


The IBM Development environment for the enterprise Rational Developer for System z (RDz) with z/VSE Development Plug-in for RDz – from QGroup



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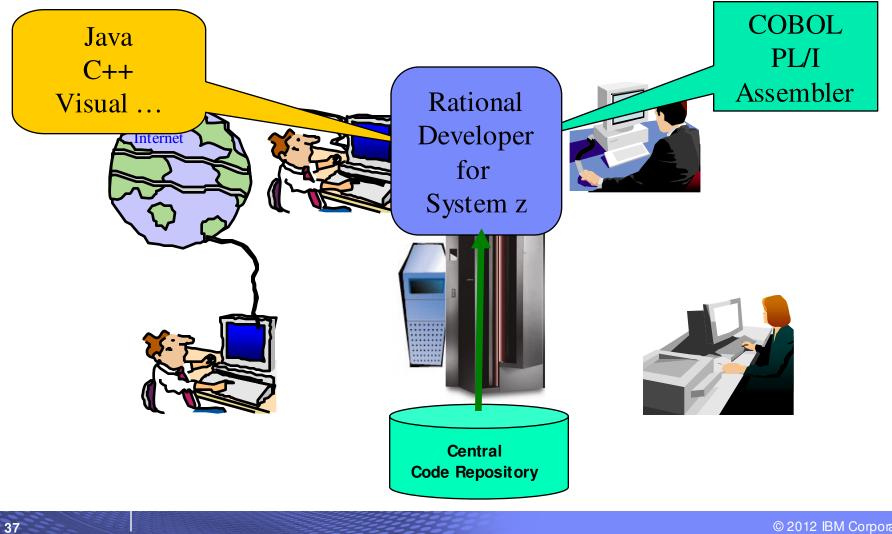
Rational Developer (RDz) in z/VSE perspective





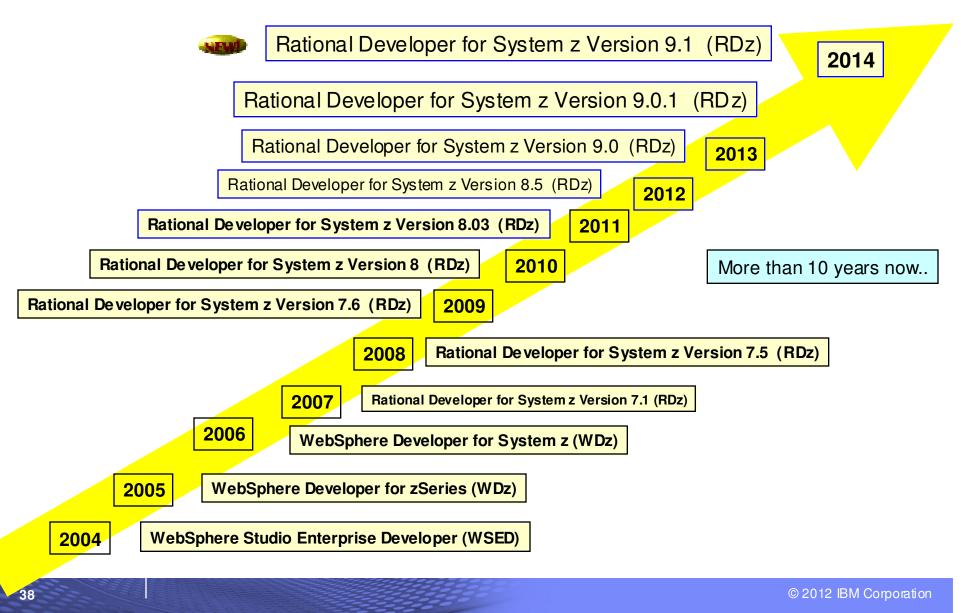
Summary

Eclipse – an open Integrated Development Environment for the enterprise

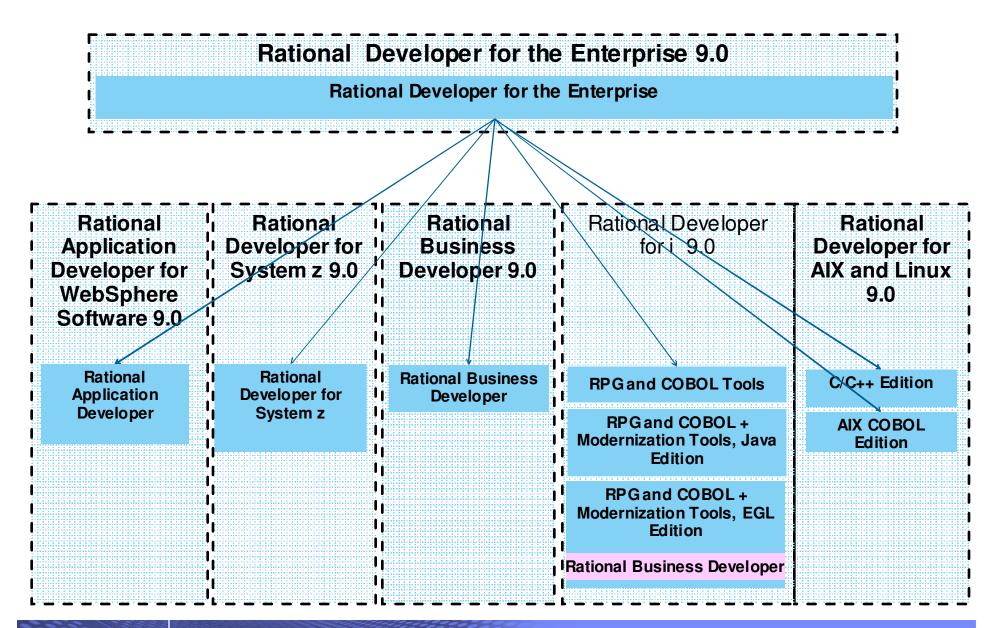


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History of Rational Developer for System z

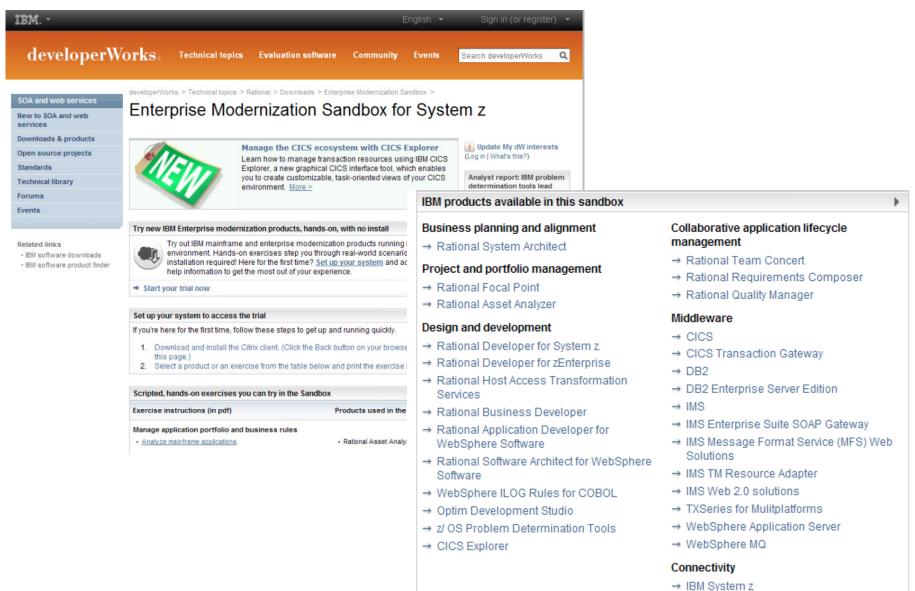








http://www.ibm.com/developerworks/downloads/emsandbox_systemz/index.html





Open Services for Lifecycle Collaboration (OSLC)



Open Services for Lifecycle Collaboration

Open interfaces. Open possibilities.

An industry initiative for making it easier to use software delivery tools in combination.

Barriers to sharing resources across the software lifecycle

- Multiple vendors, open source projects, and in-house tools
- Private vocabularies, formats and stores
- Entanglement of tools and data

> The Open Services initiative is

- Building a community of vendors, open source projects, integrators and IT teams, at open-services.net
- Creating public specifications of resources and services, like change requests, test cases, defects, requirements and user stories
- Delivering loosely coupled resource formats and services with "just enough" standardization

Tasktøp

BSD GROUP









ORACLE



Customer feedback



"By helping us to make project deliveries more repeatable and predictable, we anticipate that Rational Team Concert will reduce project overrun costs by 20%."

--Matt Pomroy - Executive, Software Engineering, Ascendant Technology

"Its automated project management dashboards are transparent to everyone – not just managers. This immediate and automated feedback helps keeps teams on track and motivated to achieve project goals."

--Han Jie - Senior Consultant, Siemens

"Where we previously used separate systems, with Rational Team Concert we now have well integrated functionality. Our developers are more efficient because they are better able to focus on important issues. Our project managers greatly value the ability to customize these dashboards and instantly provide status on their milestones!"

--Mika Koivuluoma - Production Manager, TietoEnator

"Having a unified and extensible environment is very compelling for us. Rational Team Concert provides the team transparency and visibility needed to keep work progressing so everyone knows what's going on without finger-pointing."

--Carson Holmes - Unified ALM Services Manager, Noblestar

"With IBM Rational Team Concert we've seen a 30% productivity gain on our global projects. The ability to easily suspend and resume work, along with advanced SCM features, helps team members juggle multiple tasks and priorities without missing a beat."

--Alain Bergeron - VP Consulting Services, CGI



Questions?



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IBM Executive IT Architect





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