

# Deeper Dive on Collaboration and Connectivity

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STSM Chief Architect for Jazz for
System z and Power Systems



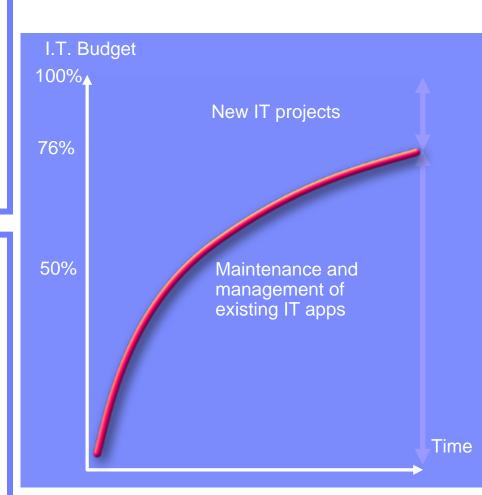
## Lack of Cost Optimization

#### The Situation

- Ongoing integration costs preventing new IT projects
- New assets and skills required for new projects
- ROI not achieved to cover costs

#### **Your Opportunity**

- Cut integration costs up to 55%
- Leverage existing assets and skills for new IT projects
- Achieve ROI in six months
- Decouple connectivity and integration logic from application





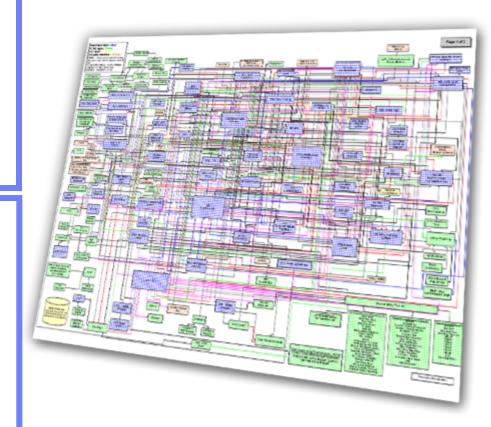
## Integration can be Complex and Inflexible

#### The Situation

- Inflexible, "homegrown" applications don't integrate
- Variety of different platforms, networks, and devices
- Changes to the business impact current
   IT environment

#### **Your Opportunity**

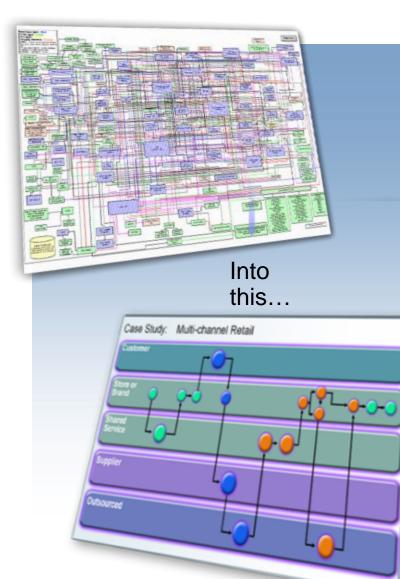
- Single integration hub to connect applications up to 80% faster
- Immediate access to virtually any system
- Improve performance more than 10x, with lower costs





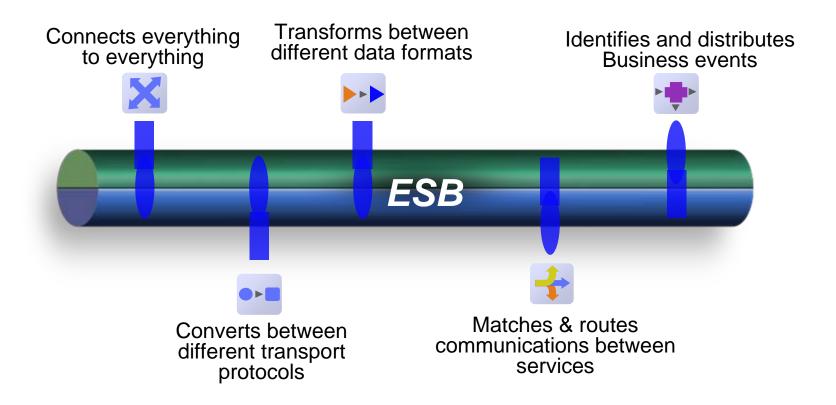
## Unifying, Cross-enterprise Integration Hub

- Connect applications regardless of the platform, network, or device
- Connect people from the multiple application and platform areas
- Enable access to virtually any system through transformation of data
- Develop new business services from existing applications and data





## Agility and Savings Begin with Integration The Enterprise Service Bus (ESB)



**Optimize Costs by:** Integrating new customers and partners up to 80% faster, Improving performance more than 10x - with lower costs, Achieving full ROI within as few as 6 months, Leveraging existing skills and assets, and supporting business growth and agility

## The Power of ESB Messaging and Enrichment Fast, flexible & reliable access to business information

Lower process disruptions with reliable data movement

Confirmed Flight Booking



Telephony Hub Save time and money by centralizing services

**Telephony Hub** 

Prepare for regulatory compliance by preserving data integrity

Auditable Stock Trades



Adapt business faster by easily connecting services and creating new, low-cost Web 2.0 apps

Web-based Bank Transfer and Routing

## Extreme Reliability & Assured Delivery

Message &
Transaction
Integrity
Prevent costly
security breach
exposures



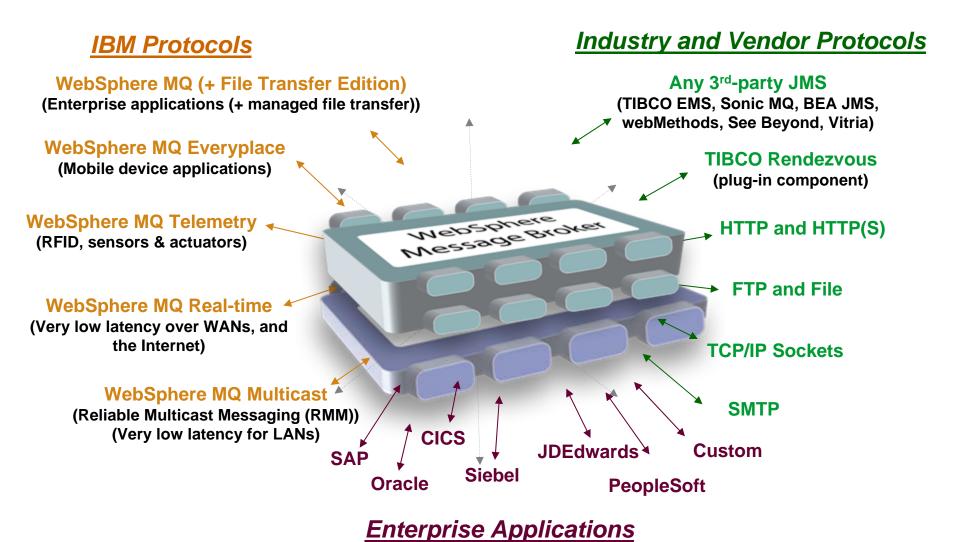
Message &
Transaction
Delivery Assurance
Reduce costs and
process disruptions from
data loss

Ultra-low latency, time-sensitive data feeds
Enables real-time business decisions



## Bridge to Next Generation Interconnectivity

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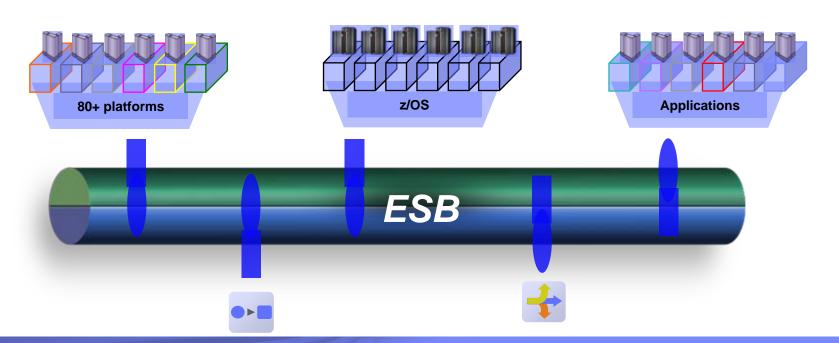


## Connect Applications regardless of platform, network, or device *WebSphere MQ for z/OS*

Support for virtually every commercial IT System

Exploit System z for messaging powerhouse

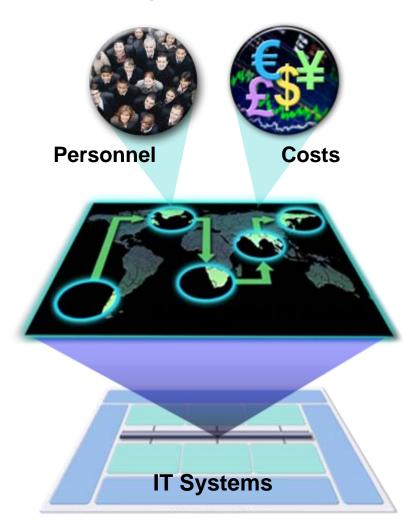
Enable popular applications and environments





## Free Up Costs and Personnel for IT Projects

- Decouple complex integration logic from each application
- Leverage existing assets and skills utilizing one integration hub
- Provide universal service delivery including messages, processes, files and events



## Leverage existing assets & Skills

#### Web 2.0



HTTP bridging for AJAX applications with simple RESTful interface

#### Java Message Service (JMS)



Industry standard Java interface for point-to-point and pub-sub msg

#### **MQ** Interface



IBM interface providing full function MQ access for Java, C, C++, COBOL, .NET, PL/1...

#### Multi-Language Message Service



IBM interface offering JMS behaviours in more languages than Java

#### Support the broadest range of interfaces, languages and skills

- Leverage the skills you already have
- Draw IT skills from a larger pool
- Choose the right interface for the application

#### Windows Communications Framework



Seamless experience for .NET (Indigo) Developer

#### SAM / PHP



Open source extension for PHP Web Scripting

#### **Business pressure**

To drive innovation, while controlling risk/costs & focusing on quality

#### **Market Pressures**

- 93% Senior business executives say <u>innovation</u> is a top strategic priority.<sup>1</sup>
- 3X Increase in the gap between leaders' need and their ability to deliver innovation.<sup>2</sup>



Sources: 1. Forrester Report on Innovation Management Tools, 2008. 2. 2008 IBM CEO study.



#### **Execution Mandates**

- **Innovation:** new business models = new requirements
  - Customer centric models, e.g. financial market rewards
  - Requirements change faster than IT can implement
- **Efficiency:** reduce cost of software delivery & operations
  - Rethink software delivery processes
- Quality & speed to market: looking for new methods
  - While measuring business risk of software & systems failures

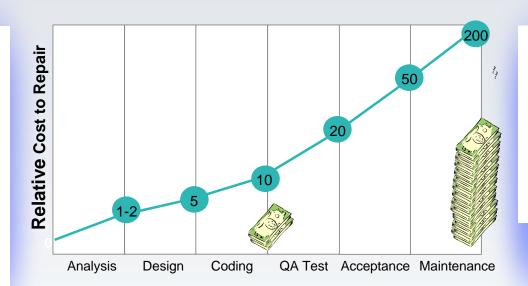
#### Improve lifecycle processes

Traditional methods yield excess rework, delays & poor quality



#### **Business Risk**

- 41% of projects fail to deliver expected business ROI
- 2/3 of executives
   make more than
   half of their
   decisions based
   on 'gut feel' rather
   than verifiable
   information



#### Cost

More than 40% of IT development budget will be consumed by poor requirements

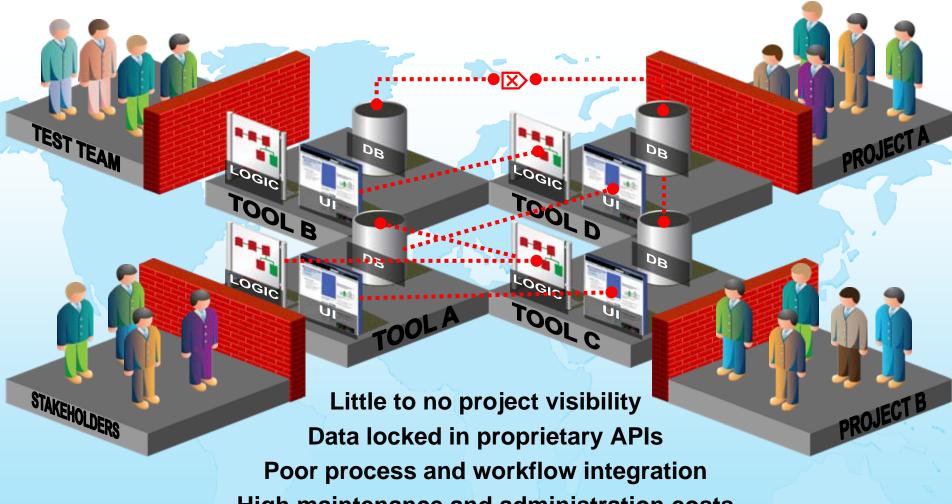
#### Traditional QA Testing

- 25 30 % delivery time in testing (IBM Study)
- Poor upstream quality yields rework
- Compressed schedules make it worse



#### Islands of people, process & information

Collaboration is fundamentally difficult



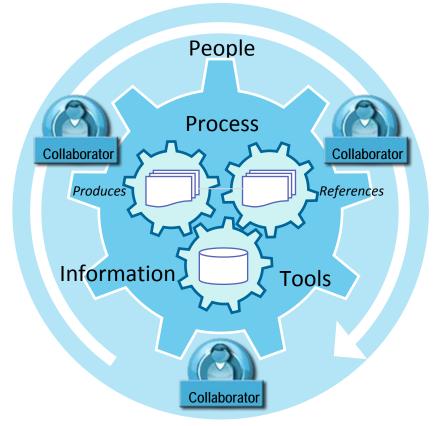
High maintenance and administration costs

Persistent functional, geographic and organizational silos



## What is Application Lifecycle Management (ALM)?

In its simplest form, ALM is really just the integration and coordination of people, tools, information, and process.



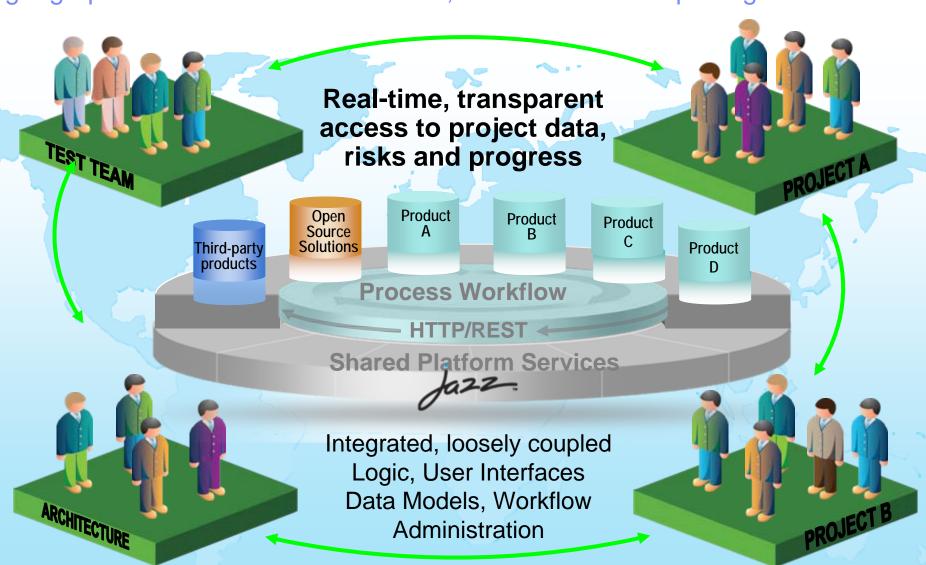


#### **ALM** is no longer just about S/W development

Composed of purchased, outsourced and in-house built software assets That are ever-evolving and increasingly interdependent



With Rational customers can break down organizational, functional and geographic barriers thru collaboration, automation and reporting



## Jazz-based Collaborative ALM platform Transform software & systems delivery



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

#### **Provides**

- A scalable, extensible team collaboration platform
- Role-based support for entire project team
- End-to-end, asset traceability and enforceable process workflows
- Makes software asset reuse practical with integrated asset management
- Predictable software release management & measurable improvement through full lifecycle reporting

## The Foundation of Collaborative ALM

## Rational Requirements Composer

**Business expert collaboration** 

Elicit, capture, elaborate, discuss and review requirements

## Rational Team Concert for System z

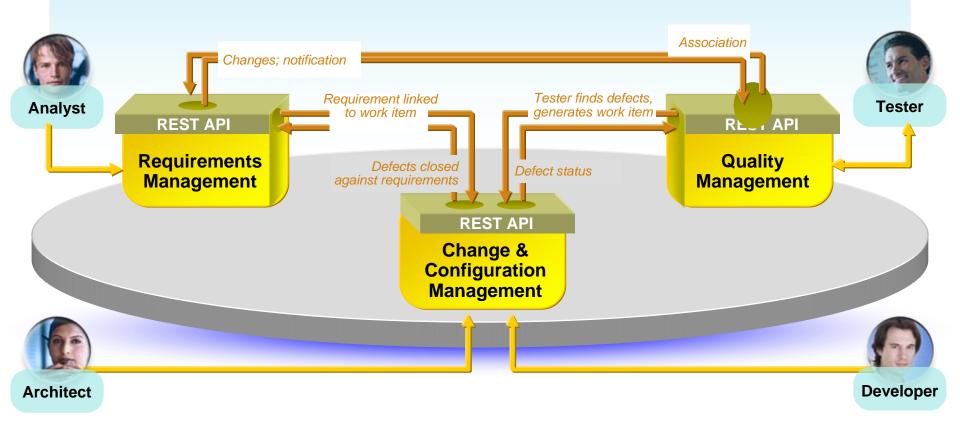
Core team collaboration

"Think and work" in unison and provide realtime project heath

## Rational Quality Manager

Quality team collaboration

Coordinate quality assurance plans, processes and resources





## **Rational Team Concert**

**Iteration Planning Project Transparency SCM Work Items Build Jazz Team Server** 

## Individual Developer

#### What is RDz

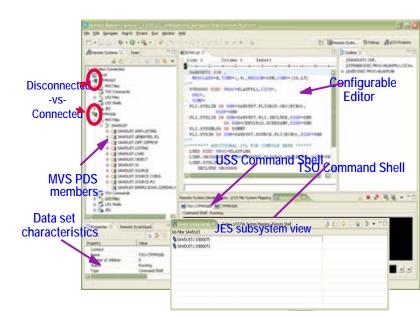
 Eclipse-based IDE speeding modern composite (SOA) application development

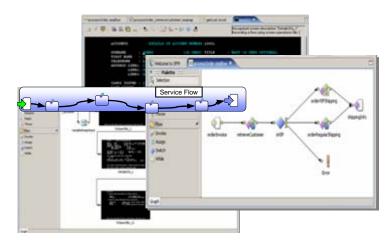
#### ▶ RDz supports Enterprise Modernization

- Links WAS and core system z processing
- Supports common IDE for COBOL, PL/I, C, C++, HLASM, Java, EGL and web services
- Transforms UML to COBOL source code
- Provides interactive access to z/OS for development, debug, job generation, submission, monitoring, command execution
- Supports new and existing runtimes (CICS, IMS, Batch, USS, DB2 SP, WAS)

#### ▶ RDz supports SOA

- Enables CICS and IMS applications for web services and SOA
- Supports for J2EE, JCA, XML, web services





## **Upcoming Events**



Register now at: www.share.org

**IBM Software** 

Impact2010

The Premier Conference for Business and IT Leaders

Discover. Interact. Optimize.

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The premier software and product delivery event.

June 6-10 Orlando, Florida

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### Learn More...

More information on the value of ESBs can be found here:

Considerations for making System z your ESB deployment platform

http://www-01.ibm.com/software/integration/wmq/library/libraryallversions.html

More information on WebSphere Message Broker can be found on DeveloperWorks:

The value of WebSphere Message Broker V6 on z/OS

http://www.ibm.com/developerworks/websphere/library/techarticles/0604\_odowd/0604\_odowd.html

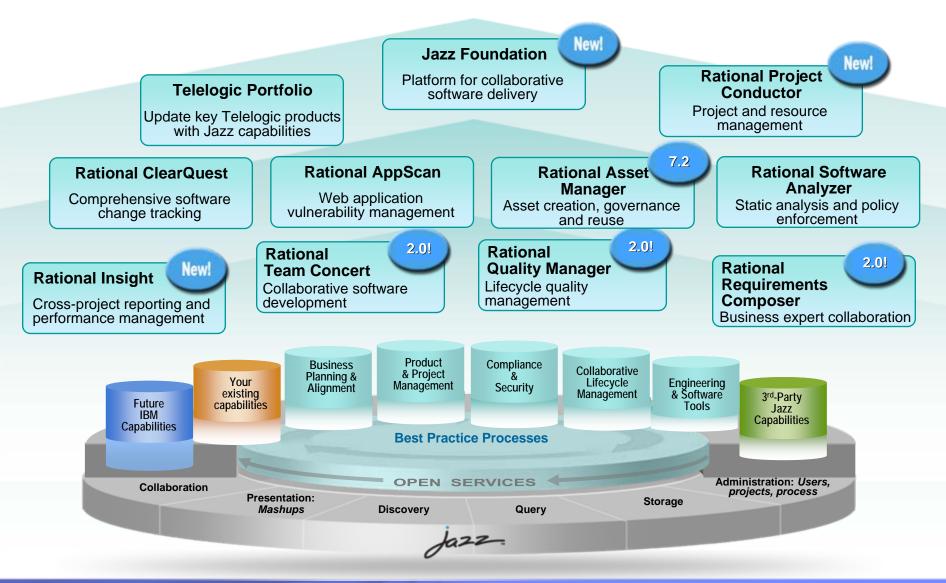
More information on WebSphere MQ can be found on the WebSphere MQ library:

WebSphere MQ - IBM application integration software on IBM System z technology

http://www-01.ibm.com/software/integration/wmg/library/libraryallversions.html



## Additional Jazz Related Announcements 2009





## Execute efficiently through global collaboration & agility

## Reduce costs, improve governance, and assess risk as a unified team

- Unify globally diverse teams of all sizes
  - Support developers, stakeholders and partners on multiple projects
  - Deliver enhanced scalability, security, availability and performance
- Enable teams to adapt rapidly
  - Provide enhanced agile planning and schedule risk assessment
- Integrate existing tool and infrastructure investments
  - Consolidate and reduce costs
  - Support a diversity of programming models, platforms and tooling

