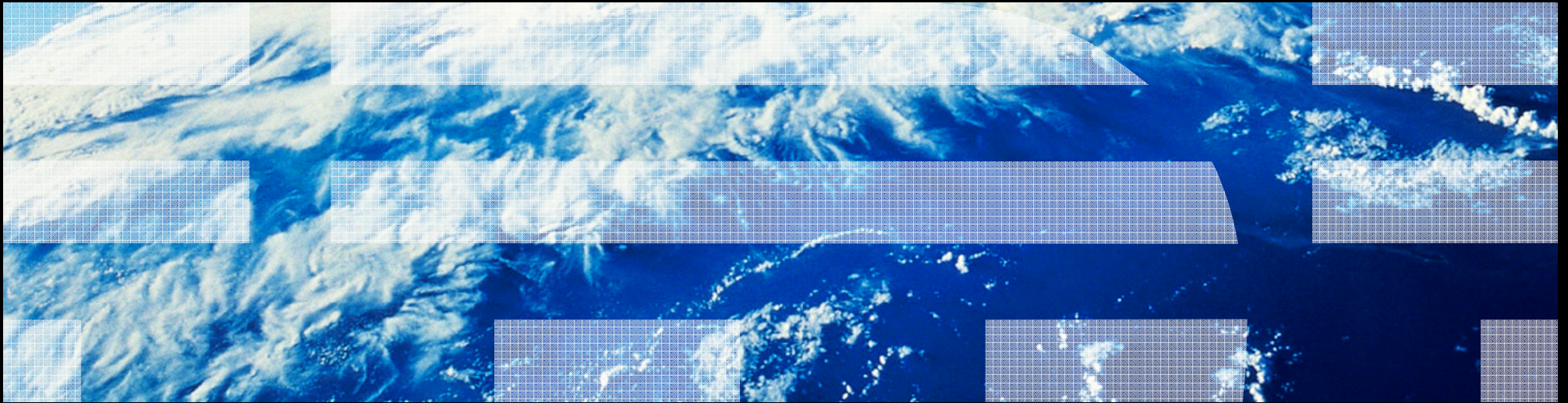


# Jazz & Rational Team Concert:

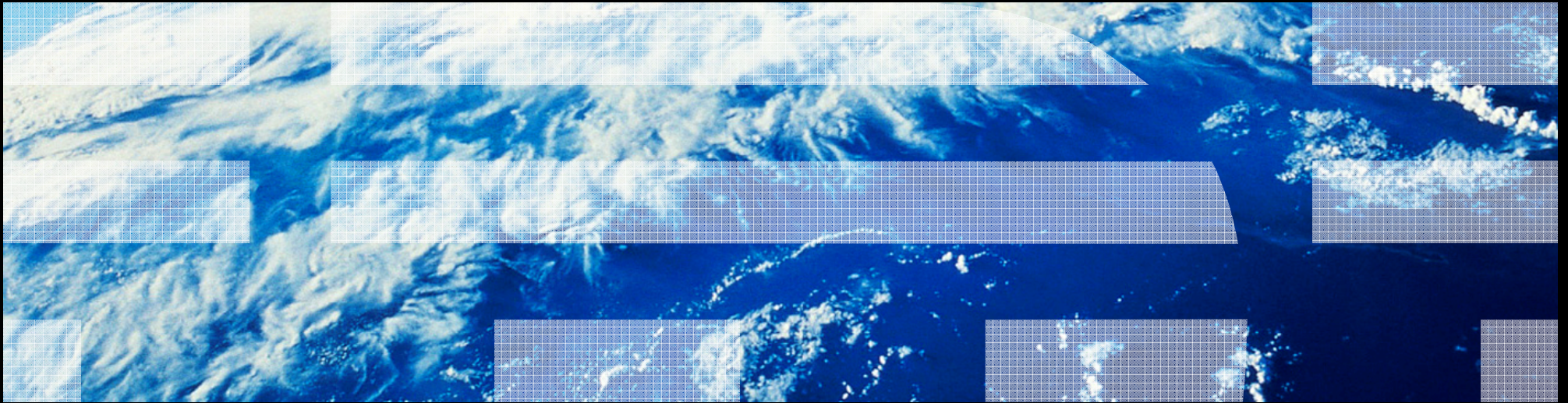
Development Solution for Collaboration, Automation and Extensibility



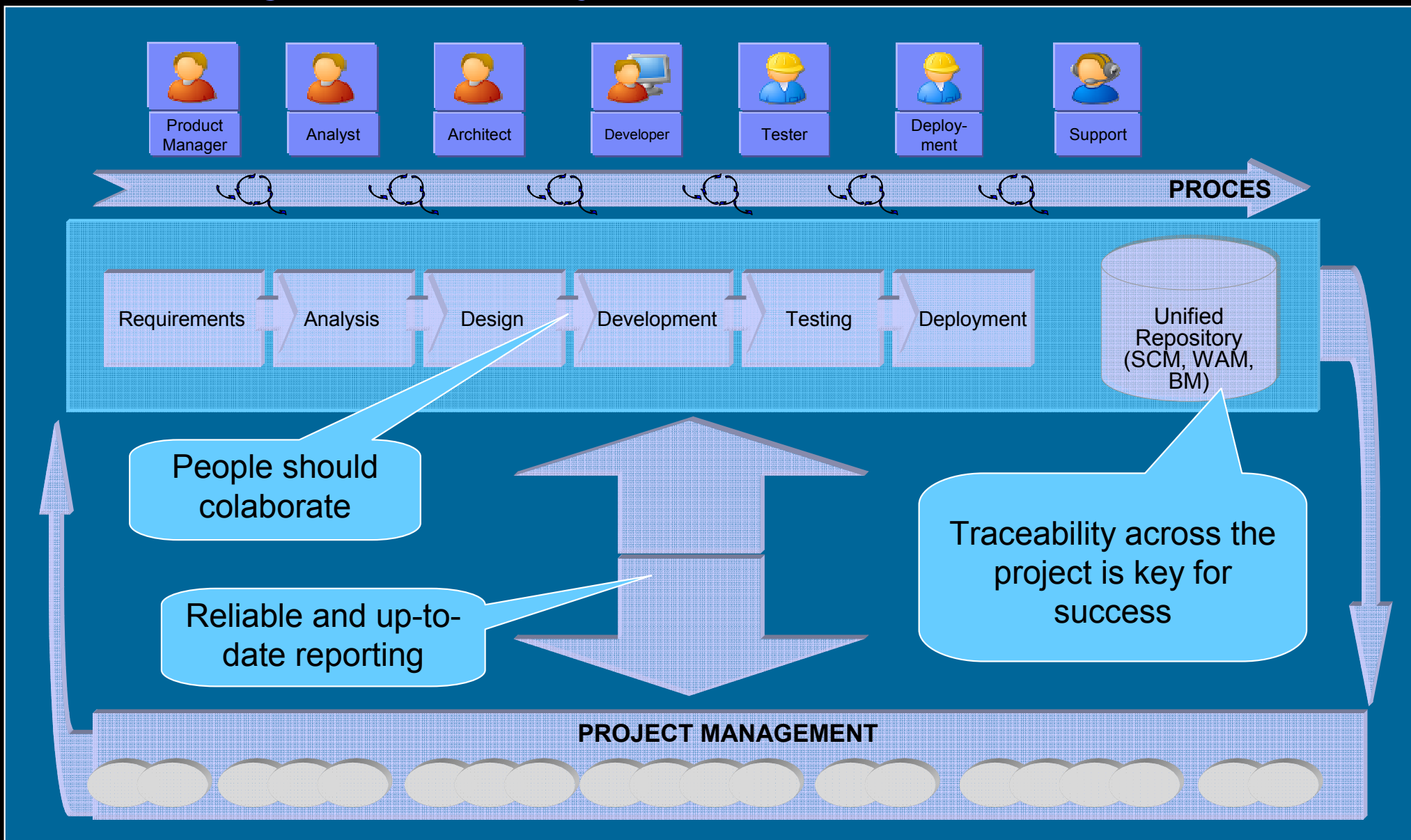
# Agenda

- The Project Reality
- Jazz & Rational Team Concert Introduction
  - Jazz Conception
  - Source Code Management
  - Software Change Management
  - Build Management
- Using IBM Solution to support project needs
- Benefits of using the solution

# The Project Reality



# The Project Reality



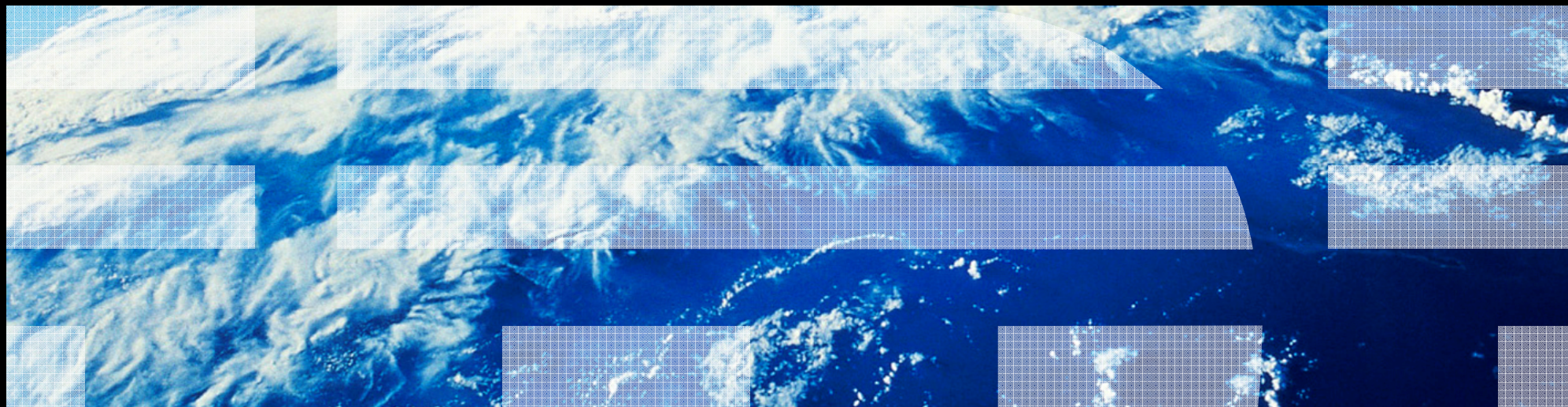
# The Project Reality

- Different tools
  - Rational Application Developer / Eclipse
  - WebSphere Integration Developer
  - MS Visual Studio
  - ...
- Different Teams
  - Customer team -> Requirements
  - Different Vendors -> Responsible for the Pieces
  - Customer teams -> Acceptance Testing & Change Requests
- Different Processes
- Different KPIs

# The Project Reality

- Costs
  - Rework (teams are not synchronized)
  - Bug fixing
  - Administration
- Deadlines
  - Lack of synchronization among teams leads to time complications
  - Time spent on communication affects the deadlines
- Risks
  - Reliability of project reporting?
  - Changes impacting the projects?
- Quality
  - Unpredictable quality

# Jazz Platform



# Why Are We Doing Jazz?

The Development Landscape has shifted!

## Late 90's: Focus on **Point Tools**

Who can build the best Java IDE, the best C IDE, the best Web Tool,...

## When we built **Eclipse**: Focus on **One Developer**

Seamless integration across a set of tools to improve the productivity of **one** developer

## Today, we must focus on the **Team** and its **Collaboration**

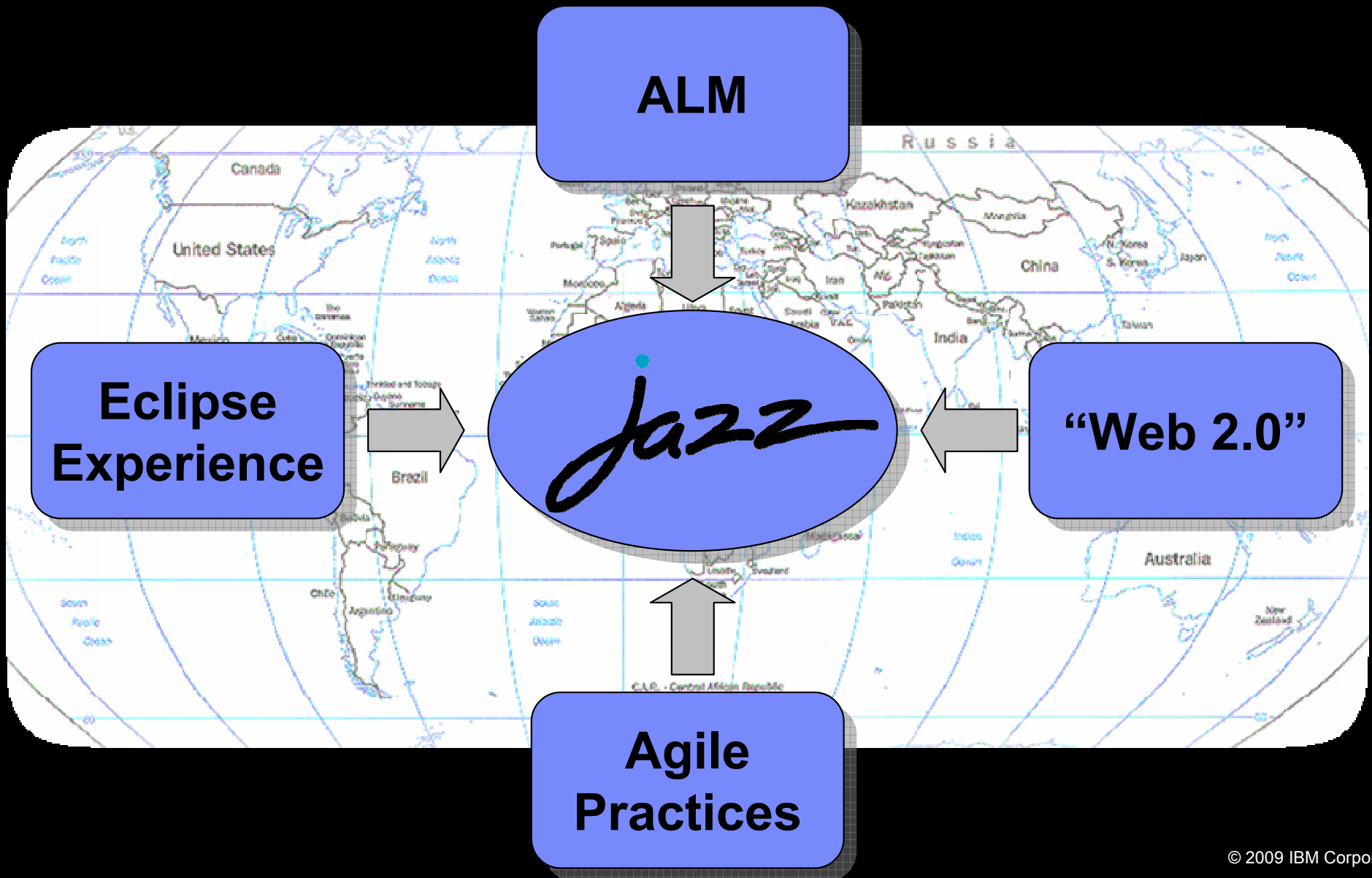
- Geographically Distributed
- Accelerated Delivery Demands
- Agility with Predictability
- Innovation and Repeatability
- Increased Need for Transparency



Seamless integration across  
**All the Phases of the Software Lifecycle**  
to improve the  
**Productivity of the Entire Team.**



# Jazz: Forces in Motion!



# Focus on Application Lifecycle Management

- **Traceability** of relationships between artifacts

*“Managing dependencies between high-priority change requests and ongoing application development efforts “sometimes seems like it isn’t humanly possible.” (US healthcare company)*

- **Automation** of high level processes

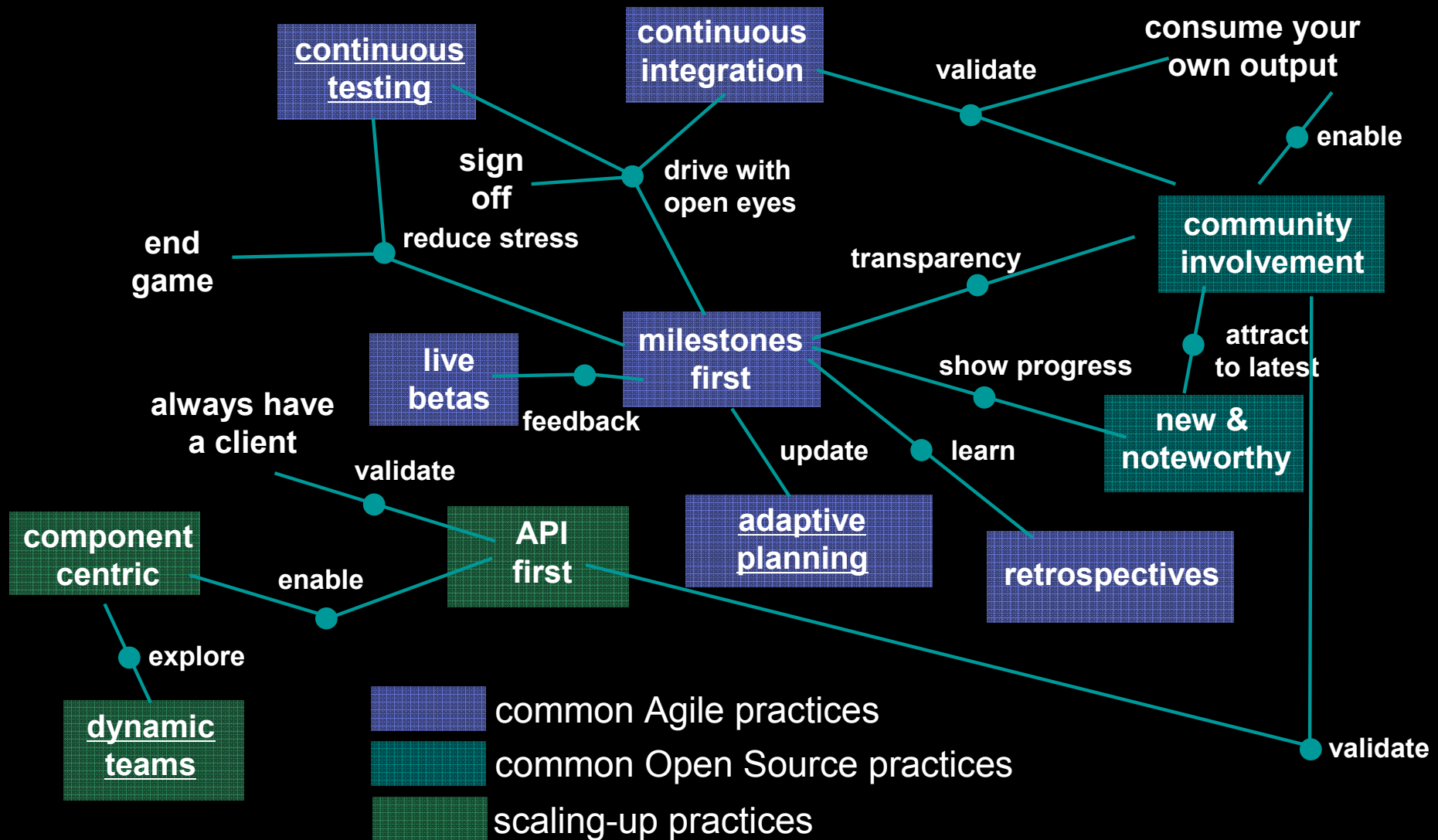
*“We had a consulting company define a methodology for us. We still have it on a shelf somewhere. A process needs to live in the tools we use if it's ever going to be followed.” (Transportation company)*

*“Automating our build-deploy-test processes would probably save each of our developers about an hour a day.” (Financial services firm)*

- **Reporting** provides visibility

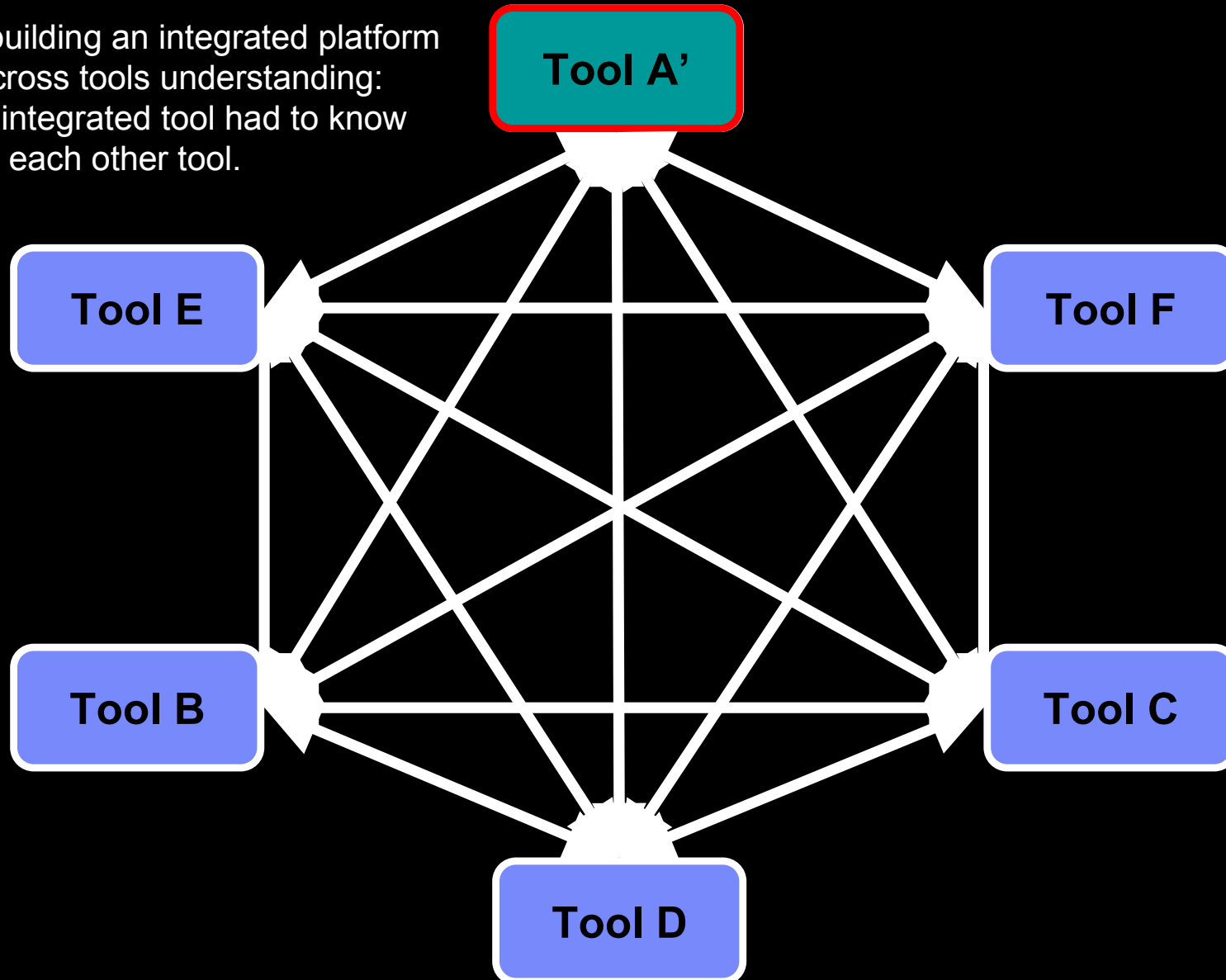
*“We do progress reporting the same way we’ve been doing it for 40 years. It’s all manual: weekly status meetings, progress reports, demonstrations. We’d love to get test results from nightly builds posted somewhere instead of having to run people down to ask them whether things are working yet.” (Bank)*

# Focus on Application Lifecycle Management



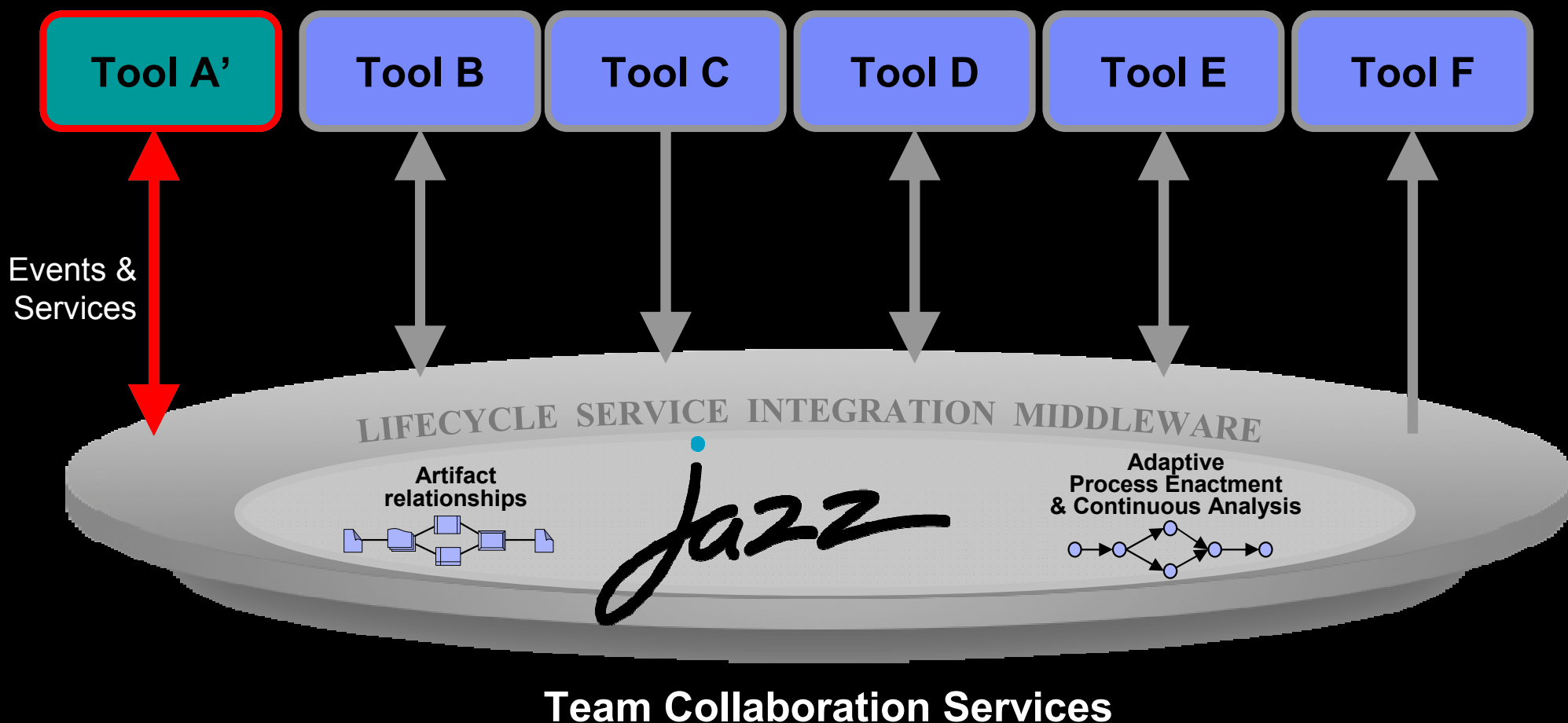
# Collaboration Obviously Means Complexity

Until now, building an integrated platform required a cross tools understanding:  
Each integrated tool had to know about each other tool.

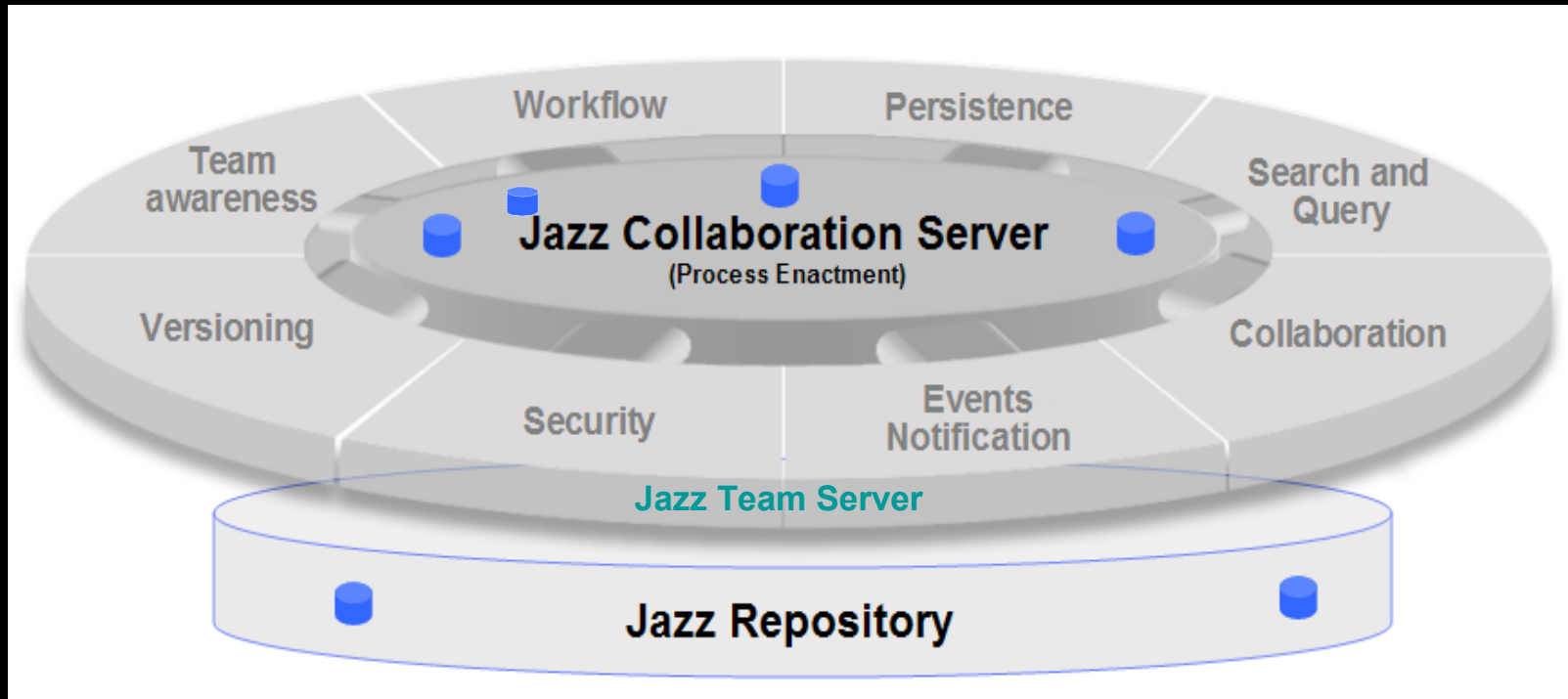


# Jazz as an Integration Middleware

- With the Jazz platform, the tools communicate only with the platform:
  - By listening to normalized/standardized events from the platform
  - By sending normalized/standardized events to the platform



# Jazz as an Integration Middleware

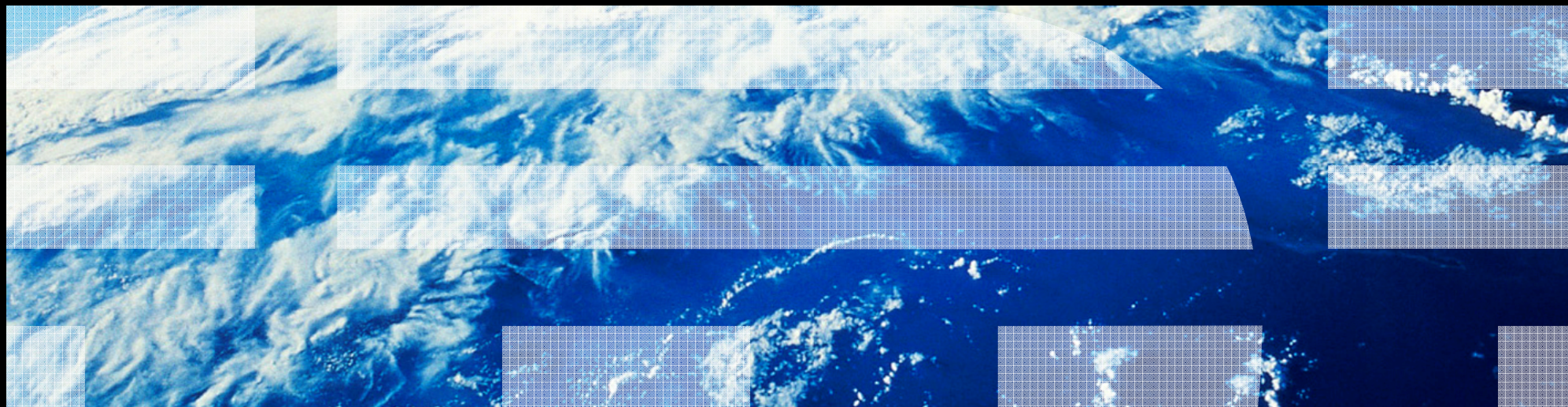


# Open development

- Open development of Jazz Integration Architecture at [jazz.net](http://jazz.net)
- Products based on Jazz architecture are present at [jazz.net](http://jazz.net) with public insight into the development process
- IBM products based on the Jazz architecture are commercial
- Some available for FREE



# Rational Team Concert





# Introducing IBM Rational Team Concert

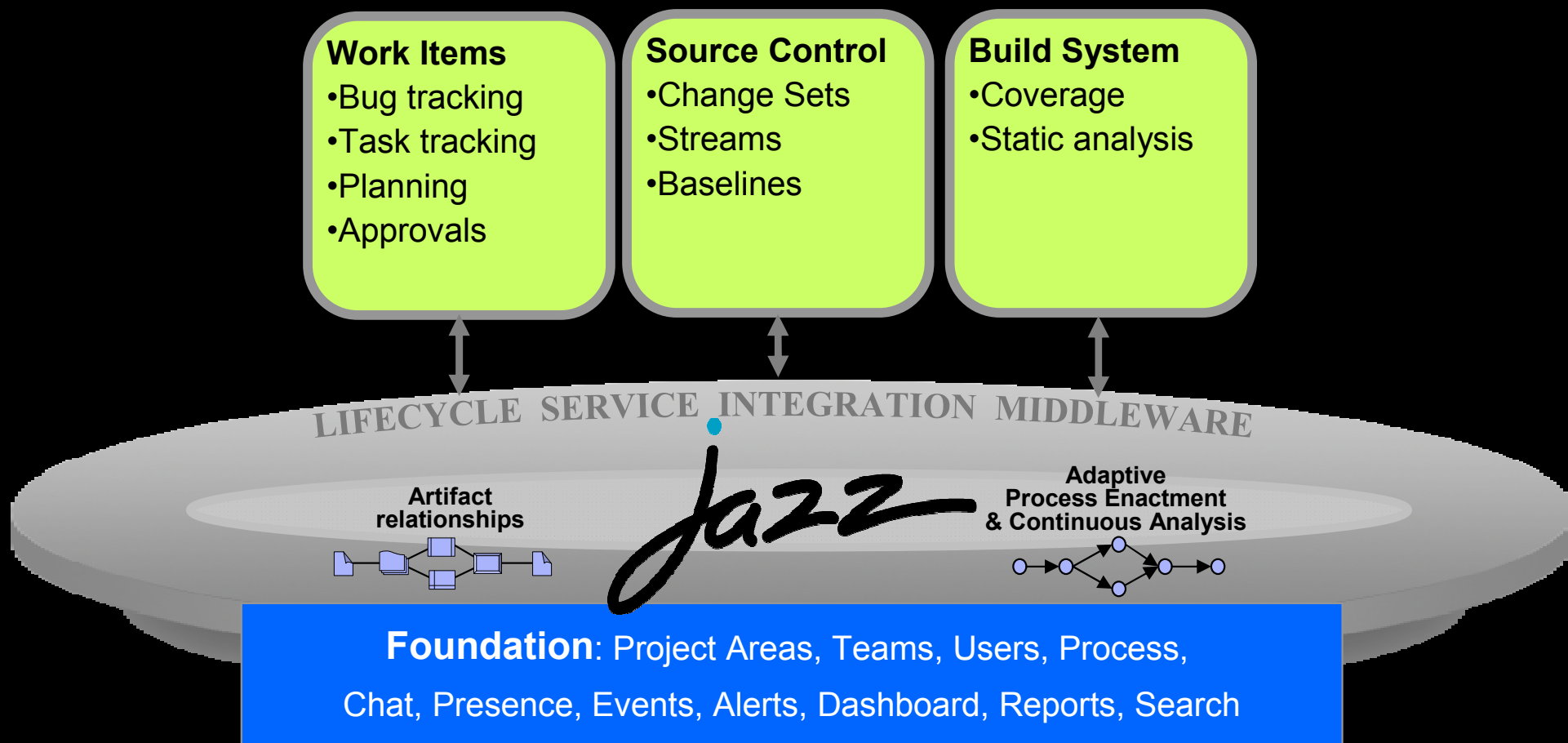
- Enables **“real-time, in-context” collaboration** for distributed project teams – making software development more automated, transparent and predictive
- Integrates **Source Control, Work Item, Reporting and Build** capabilities which “think and work in unison”
- Provides **real-time Project Health** information and **Transparency** of status through automated data gathering
- Supports out-of-the-box and custom defined **Processes** which break down functional & organizational barriers
- Allows choice of client tools and extends the value of **ClearQuest & ClearCase** in enterprise deployments



Open and extensible on

- ✓ Collaborate in context
- ✓ Right-size governance
- ✓ Day one productivity

# IBM Rational Team Concert

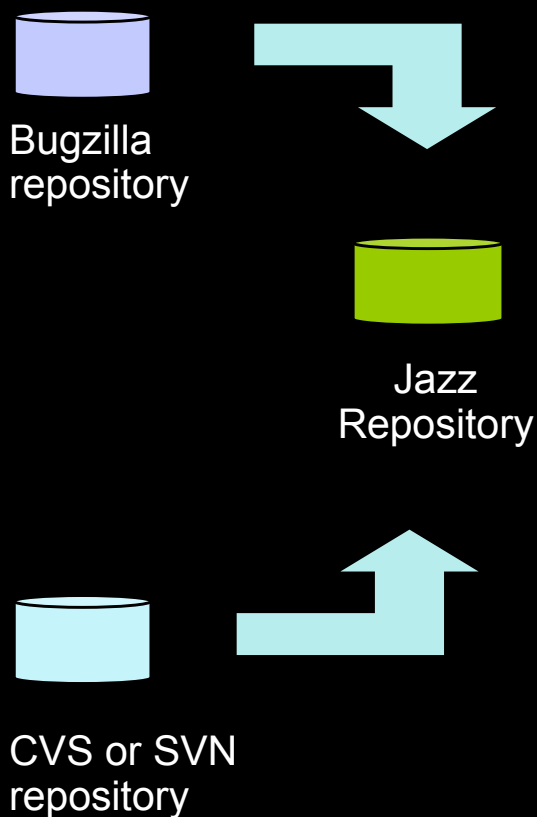


- Team Concert provides an integrated Collaborative development environment
  - Using a single repository
  - Integrated Version Control, Work Item and a Build System

# IBM Rational Team Concert

## Import

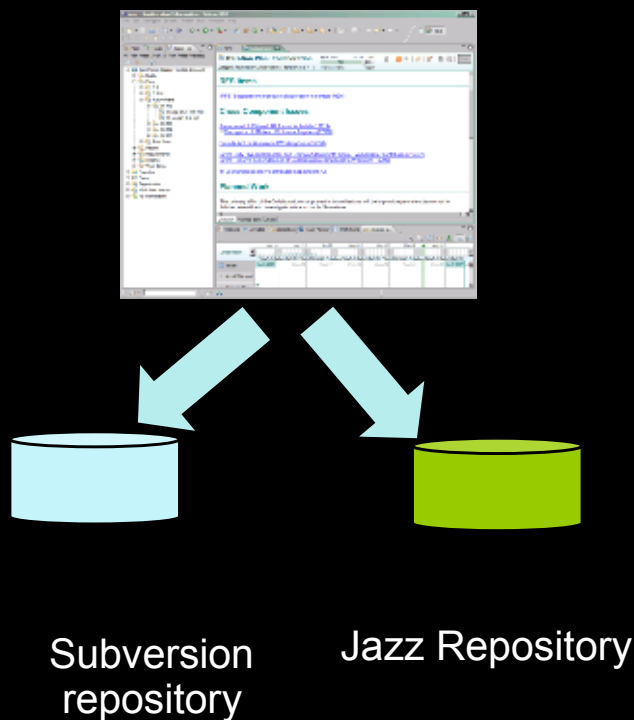
One way data migration



## Bridge

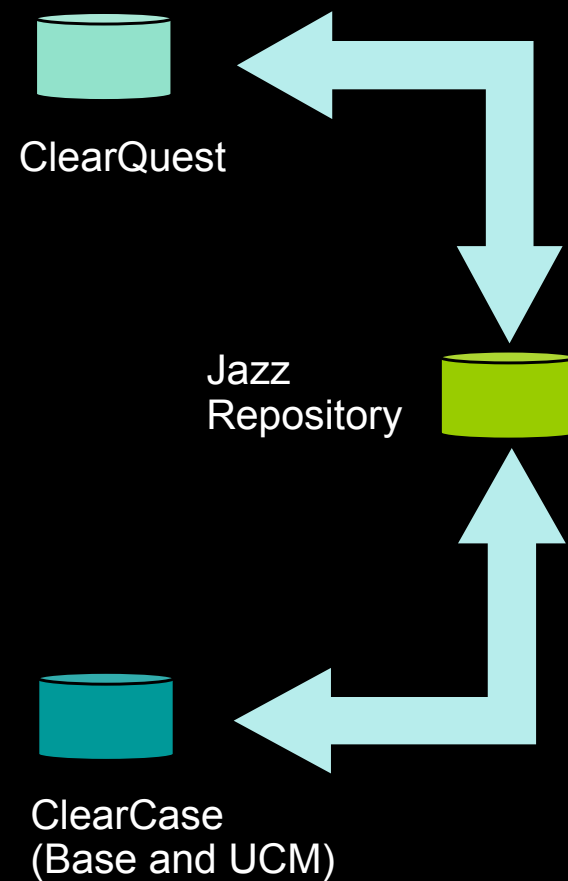
**SVN Bridge** links work items with change sets.

**Mylin repository connector (incubator)**

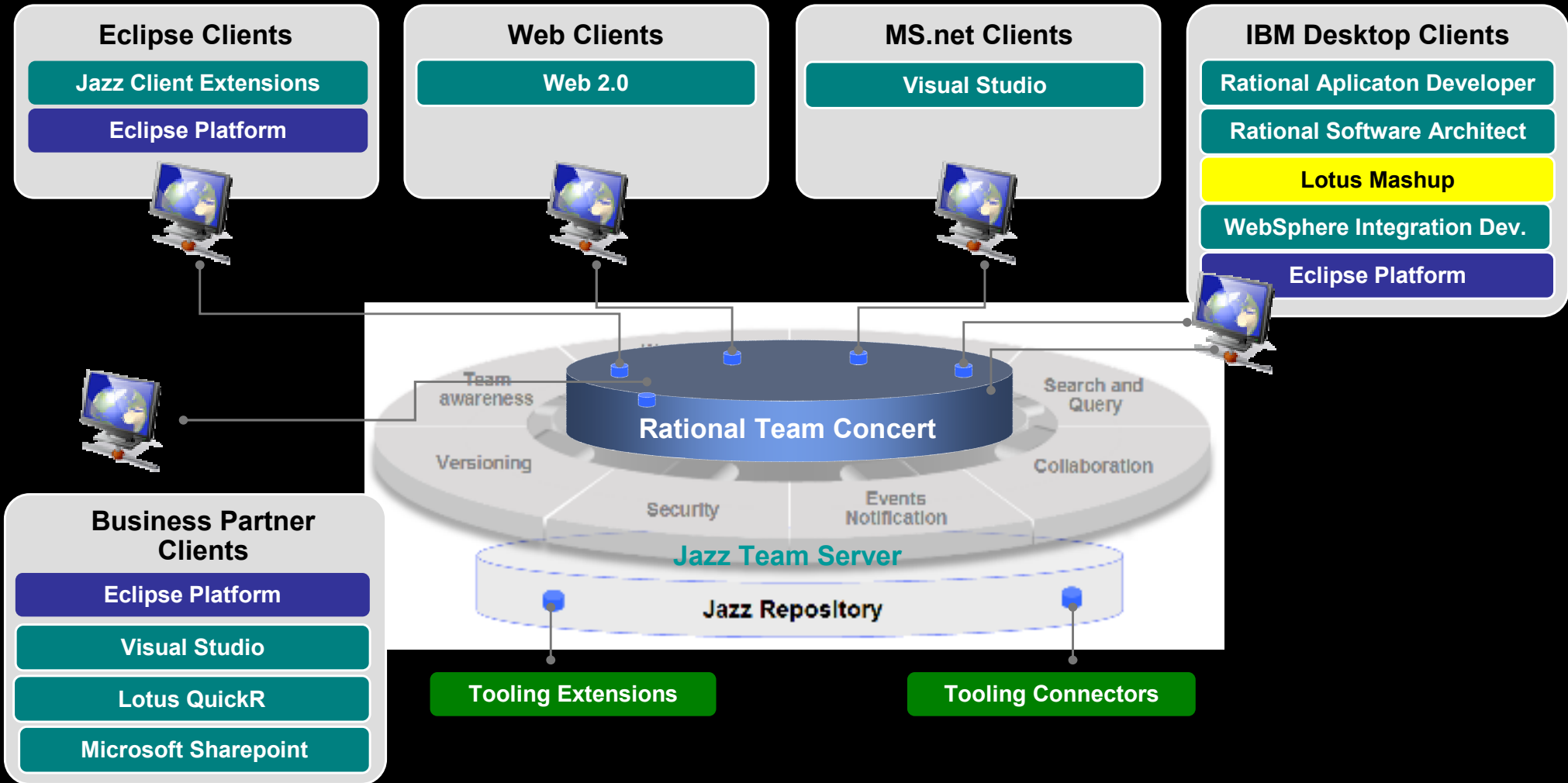


## Connectors

Two way data synchronization



# Rolling Team Concert out to End Users



# Jazz products run on LINUX

## ■ Server

- Supports Tomcat and WebSphere Application Server
- Supports Derby, DB2, Oracle, SQL Server
- Runs on Windows, Linux, Solaris, AIX, zLinux, zOS

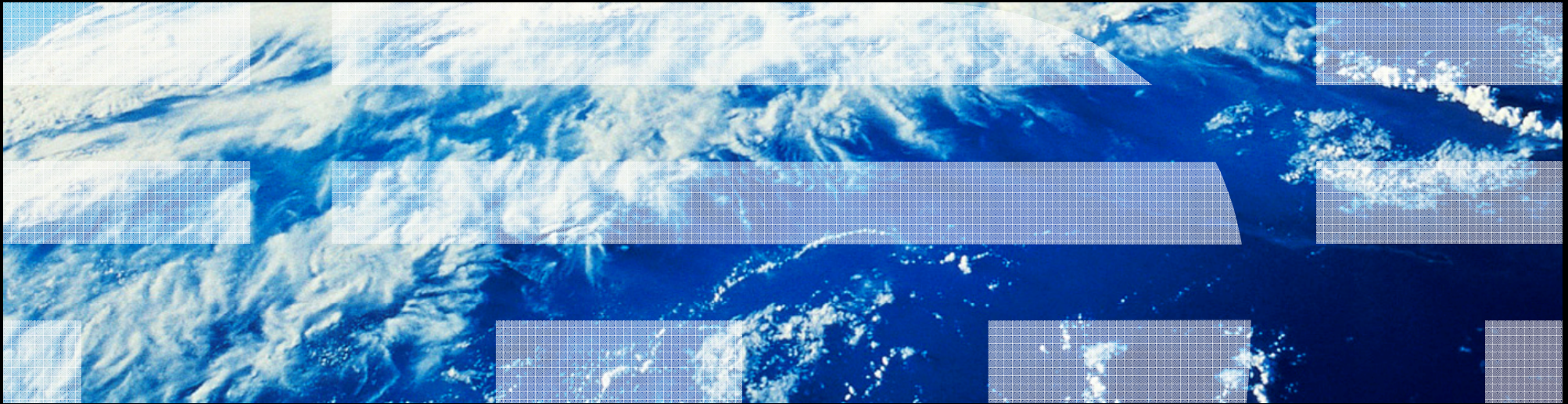
## ■ Clients

- Windows (Eclipse and Visual Studio clients)
- Linux (Eclipse clients)
- MacOS client in incubator
- Web client

## ■ Clients integrate into other Rational and Websphere products to extend functionality

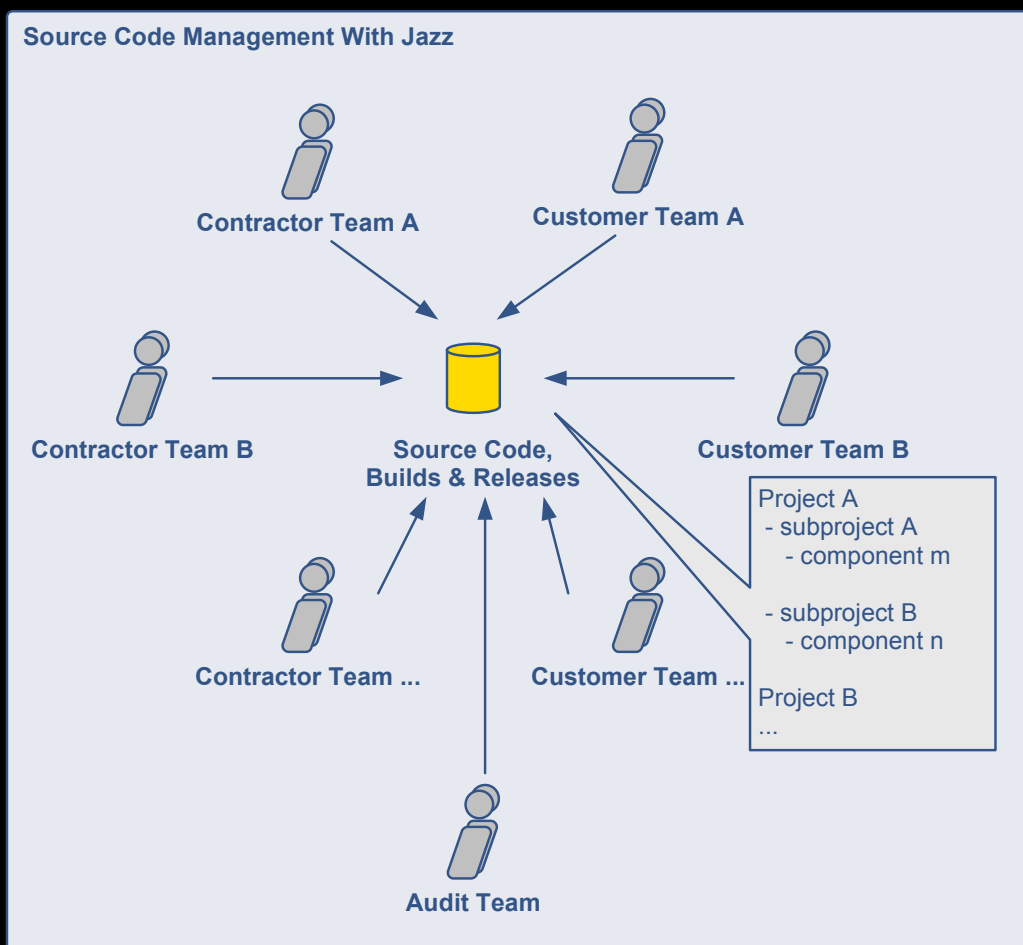
- RAD, RSA, WBM, WID, RDz, RBD, ...

# Applying Jazz & Team Concert



# Benefit one: Unifying Source Code Mng.

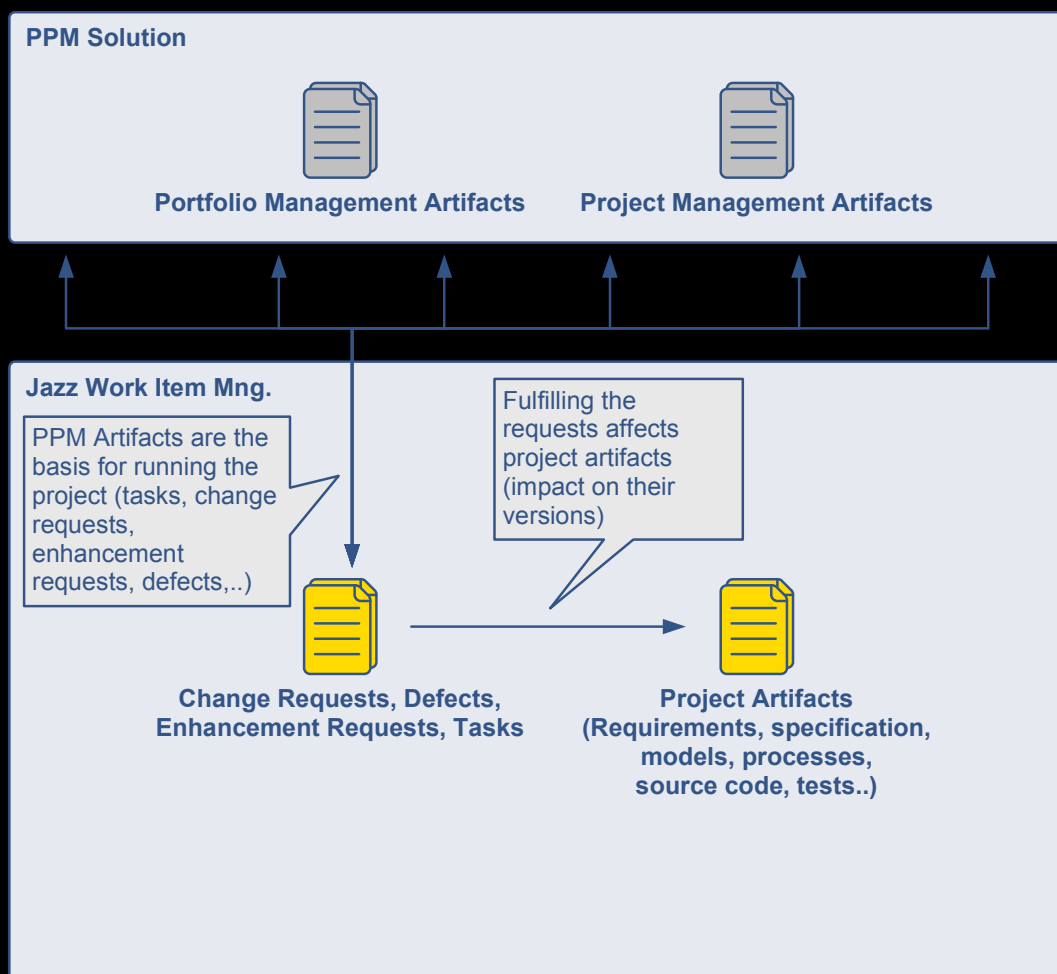
- One Single Repository for all Products' Releases
- Unified Source Code Sharing Principles



- Store different products or products component releases
- Track source control changes
- Get auditable repository of source code related to software change management process

# Benefit two: Unifying Work Item Mng.

- One Single Repository for all Auditable Work Items
- Project Management Basis

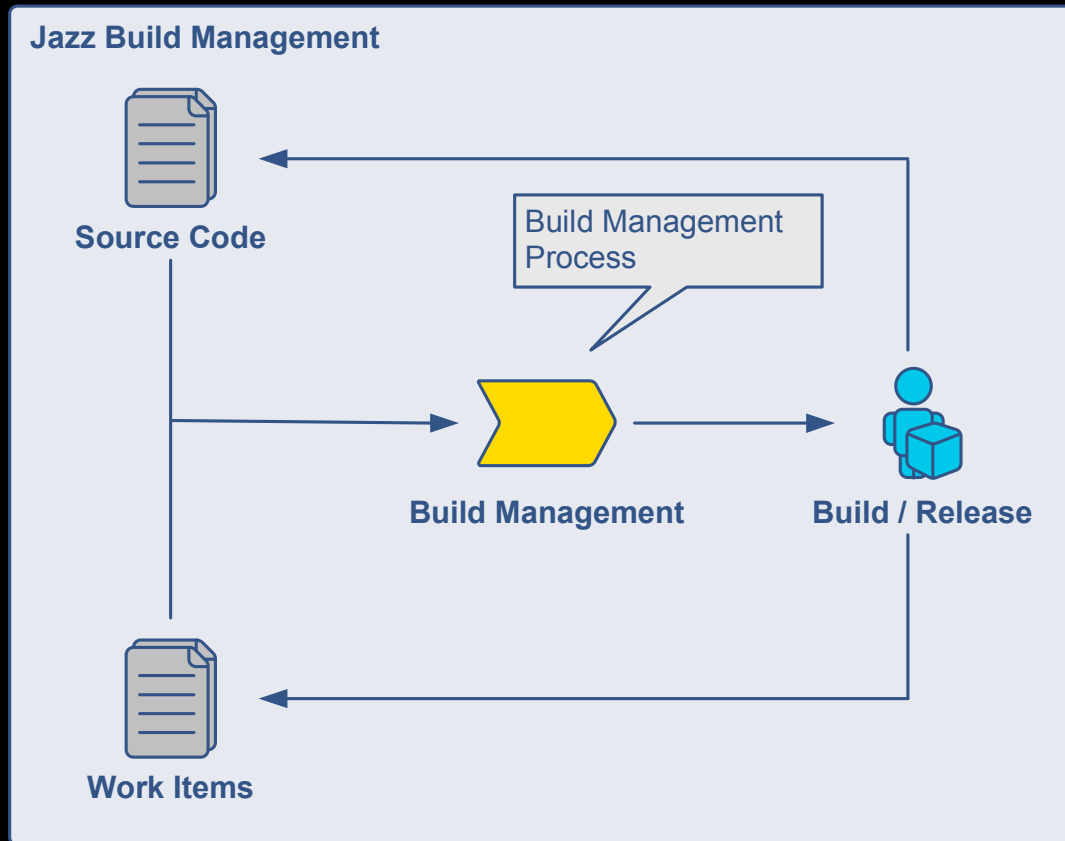


- Address the process needs (planning, tracking, audit & reporting)
- Support key processes (Request Management, Change Management, Defect Management)
- Relate process elements (changes, defects etc.) to concrete release
- Leverage reliable reporting (tasks are basis for project management)



# Benefit three: Unifying Build Management

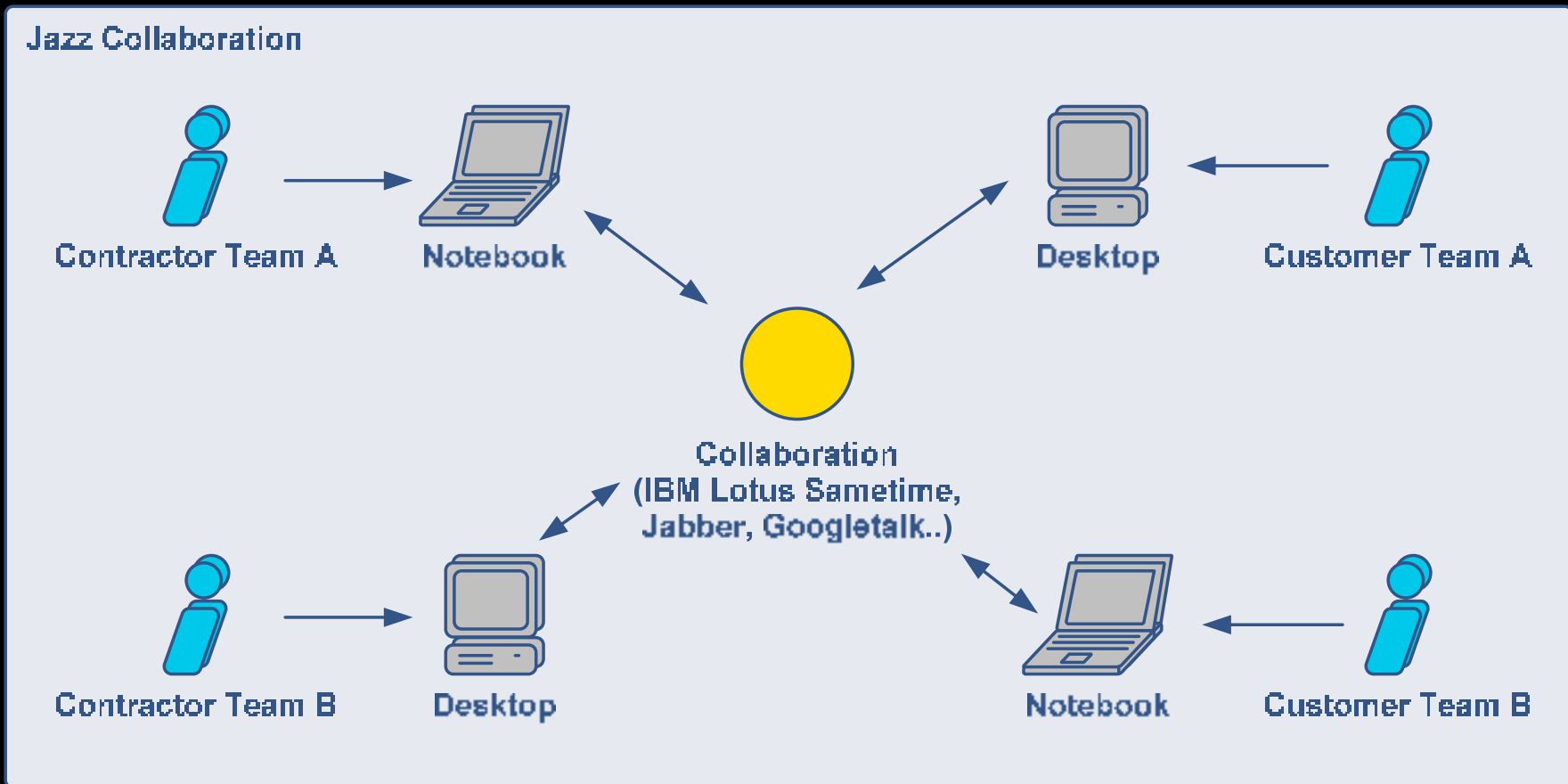
- One Single Repository for all Builds and Releases
- Automating the Build Process across many technologies



- Build different projects compilations and get the relationships automatically
- Track builds and releases to changes, requests, defects and source control

# Benefit four: Unifying Collaboration

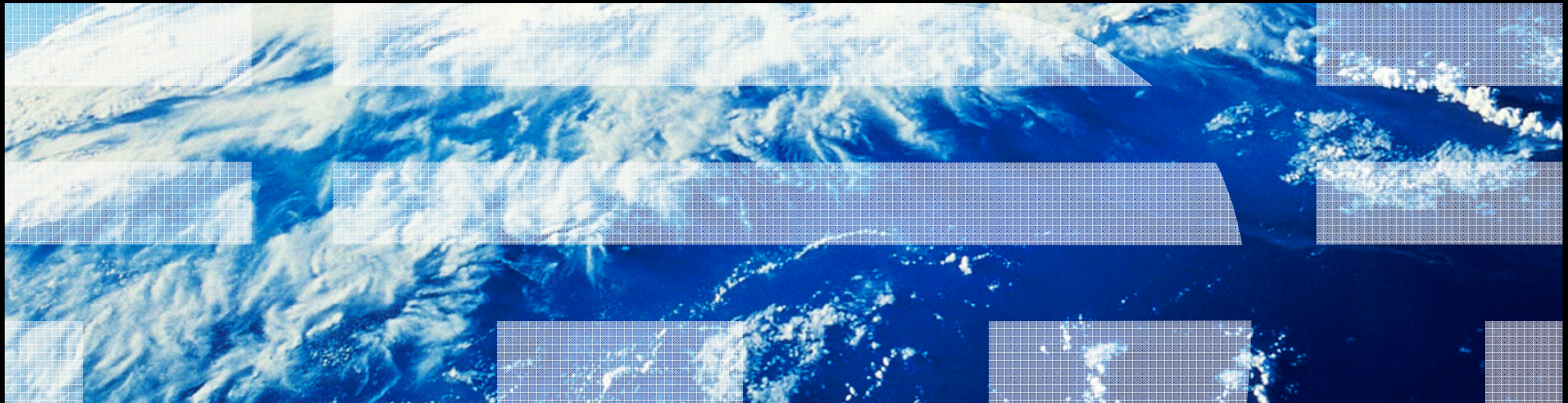
- Solve Issues Immediately with Right Person Across Projects
- Document Your Communication in a Relevant Way



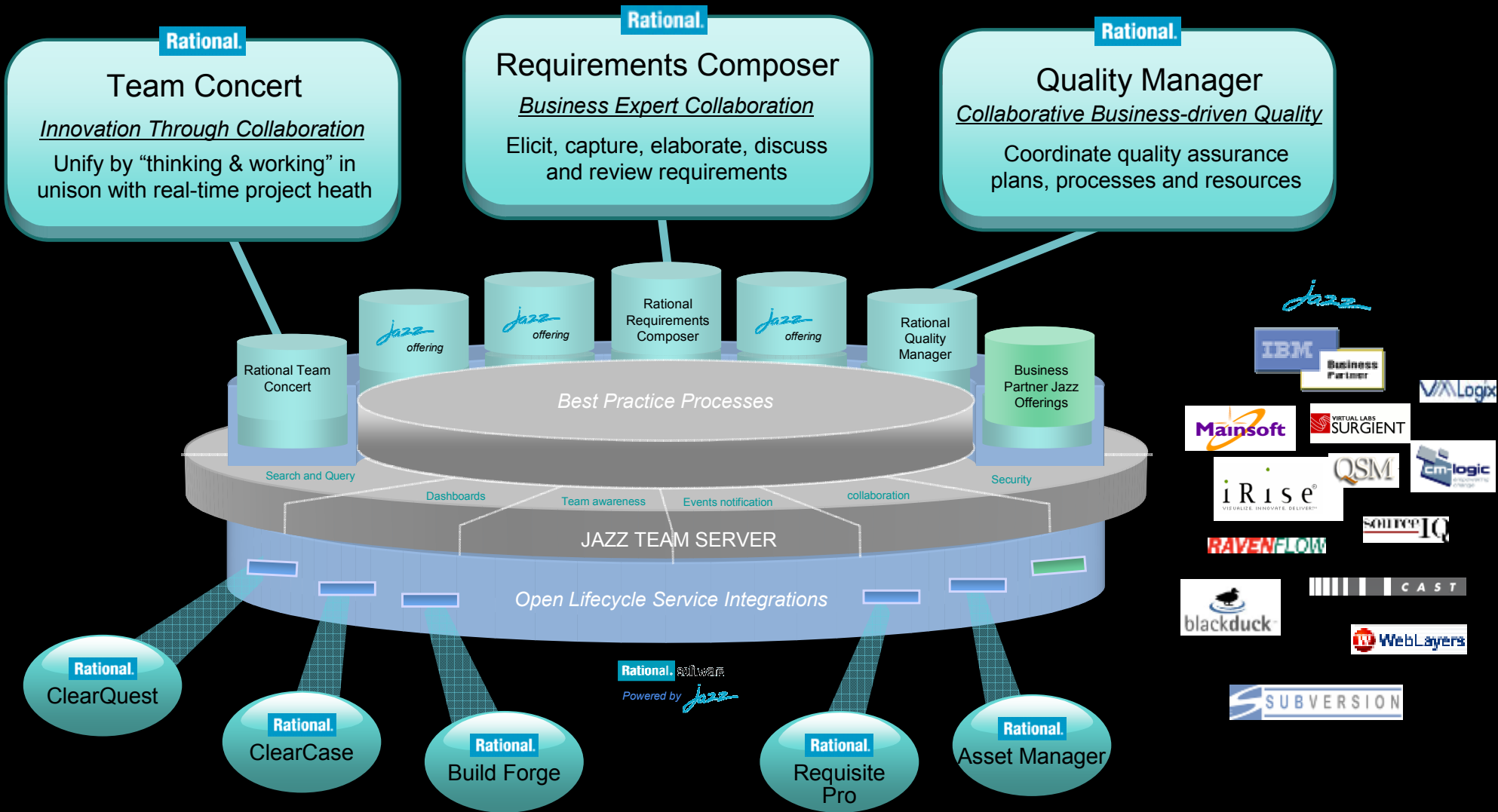
# Free version of RTC

- Rational Team Concert Express-C
  - Limited advanced functionality
  - Limited deployment options (just Tomcat)
  - Supports 10 users for FREE
  - Available as a simple free download from [Jazz.net](http://Jazz.net)

# Summarizing Jazz Benefits and Vision



# Outlining the Vision



# Jazz „Operational Benefits“ Summary

- ✓ **Team Environment Unification**
  - Unifying different tools and teams by providing common team platform
- ✓ **Real Time Collaboration**
  - Synchronizing teams by effective collaboration
- ✓ **Project Traceability**
  - Brings reliable reporting based on traceability (in context)
  - Collects the traceability automatically -> reduction of administration effort!!!
- ✓ **Quality Management**
  - Enables to systematically plan and control the quality in context of project needs
- ✓ **Very Effective Learning Curve**
  - Simplifies adoption of new technologies by using the same concepts

# Jazz „Strategic Benefits“ Summary

- ✓ Getting Visibility into the Projects -> Risk Reduction
  - Unifying different tools and teams helps to relate important information -> traceability
  - Setting up a reliable reporting based on real project data (in context)
  
- ✓ Raising Team Effectivity -> Costs and Time Savings
  - Synchronizing teams by effective collaboration
  - People can collaborate on data stored in a single repository or unified through Jazz
  - Everybody has the right information in a right time
  
- ✓ Quality Improvements
  - Key project decisions as well as daily routine work is based on right informations
  - Quality problems are identified early
  - Fixing defects is not invoking new defects

# Meet the Jazz Community at <http://jazz.net>

The screenshot displays the Jazz Forums website interface. The main content area features a list of forum topics under the heading "Using Team Concert". Each topic includes a title, a thumbnail icon, a post count, a view count, the author's name, and the last post date. The sidebar on the right contains a "Content" section with various links and a "New" section with a list of recent posts.

Topic	Views	Replies	Author	Last Post
How to install JDT on a Linux system	1	0	user123	Nov 20, 2009 10:00 AM
Problem with build process	5	1	user456	Nov 20, 2009 10:00 AM
Help on how to use Team Concert	1	0	user789	Nov 20, 2009 10:00 AM
Help on how to use Team Concert	1	0	user101	Nov 20, 2009 10:00 AM
How to share information on build results	4	0	user112	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user134	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user156	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user178	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user200	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user222	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user244	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user266	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user288	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user310	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user332	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user354	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user376	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user398	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user420	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user442	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user464	Nov 20, 2009 10:00 AM
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How to share information on build results	1	0	user860	Nov 20, 2009 10:00 AM
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How to share information on build results	1	0	user904	Nov 20, 2009 10:00 AM
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How to share information on build results	1	0	user948	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user970	Nov 20, 2009 10:00 AM
How to share information on build results	1	0	user992	Nov 20, 2009 10:00 AM



# Questions



[ales.koprivnikar@si.ibm.com](mailto:ales.koprivnikar@si.ibm.com)

## **Jazz & Rational Team Concert:**

Development Solution for Collaboration, automation and extensibility

