



Evolving the Jazz Platform to Integrate Heterogenous Environments

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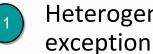
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Nature of the Industries today



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Heterogeneous tools environments are the norm not the

Even the most Agile organizations use three or four team tools. Some use as many as fifteen. Adoption of many tool categories is growing by 10% a year¹.



Many organizations use more than one tool even for a single task



For instance the majority of organizations have two or even three SCM systems².

Cloud, Mobile, Social and DevOps are forcing organizations to work in new ways

Our customer are starting to ask themselves: can we achieve agility at the level of the project or the organization without hampering the hard-won agility of teams?



Heterogeneous Tool Environments are Fragile Heterogeneous, federated tool environments create unique challenges. In

particular, there is often friction and waste at the interfaces between tools and



- ⊗ No real time insight into progress and/or impediments to progress
- ⊗ No on demand visibility into costs and risks
- ⊗ No early warning of potential dangers that prevent waste and rework.

- ⊗ Difficulty in tracking versions, variants and configurations
- ⊗ No automated impact analysis across domains
- ⊗ No automated traceability across the entire lifecycle of a product

- ⊗ Productivity decimated due to ⊗ No centralized view of tools tools silos
- ⊗ No single view of themselves and people working on the same projects
- ⊗ No easy ways to work across tools without switching context/tools

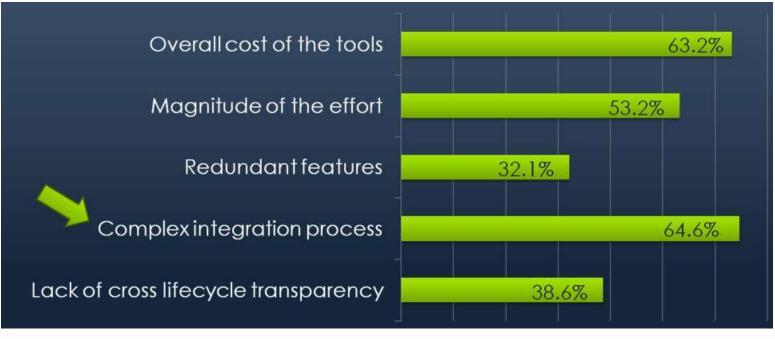
- that teams are using to create projects/products
- No easy way to configure and then monitor a complex system of interconnected tools
- ⊗ No notification, prediction of failures across a set of connected tools

IBM Technical

In surveys, over 90% of organizations report that they didn't achieve all of the integrations they desired¹.



Lifecycle integration is becoming the bounding factor for software delivery success...



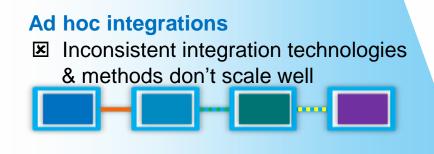
Source: Forrester, "Which of the following would you consider as major roadblocks of ALM solutions?" N=280

... but practitioners are best motivated when allowed to use best-of-breed tools • *Autonomy*

- Mootory
- Mastery
- Purpose



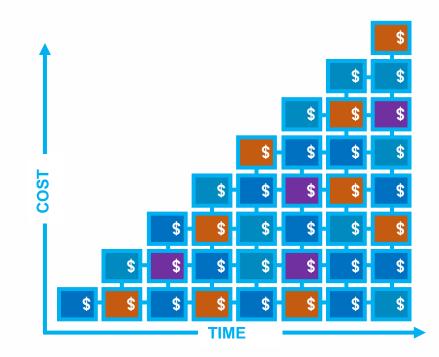
The cost that comes with poor integrations



Vendor-unique integrations

Locks in solution with no flexibility





Over time, cost of maintaining integrations can exceed cost of the tools!



A single, system wide perspective

Transparency across the projects, with fast and simple access to the data, tools, and people that each stakeholder cares about in their work

Simplicity and consistency in extending the platform environment with the tools used in my organization

From the executive's perspective:

Quickly gather insight on progress across my product portfolio
Use a centralized place to report across my business
Reduce overall operational and capital costs by quickly integrating home grown tools

• From the practitioner's perspective:

•Use a centralized place to aggregate and access my work and my peers
•Get the insights I need about, and across, my work contexts
•Traverse tool boundaries with single sign-on or stay in the tool I and still have the benefits across tools

• From the administrator's perspective:

Register and monitor status and health across the systemEnable my organization to quickly benefit through easy install and configuration of the platform

From the community's perspective (vendor, business partner, customer, open source):

•Contribute my data/people to make my tool more valuable to my customers

•Take advantage of the capabilities of the platform to enhance my tools for my customers

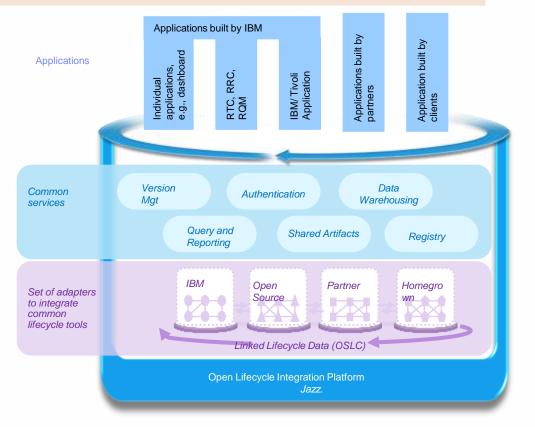
•Increase my market reach by either creating new adapters or contributing capabilities



Jazz Platform vision

The Jazz platform **permeates** an organization' s environment to **quickly** connect **people** through their **processes** and **data** so that everyone involved gets the **insight**s needed to make **informed decisions** and take **prompt actions**.

- The Jazz Platform comprises
 - A set of adapters
 - A set of common services
 - A set of applications
 - A marketplace
- Empowers an ecosystem of partners and practitioners to extend the platform
- Enables integration of 3rd party tools
- Offers flexible delivery and access models
 - On premise/hosted SaaS
 - Mobile access





Jazz Platform development principles

- Design-driven, test-driven
- Well-defined, open specifications
- Consumable, usable, documented
- Transparent development and communication

The Lean Startup – apply useful concepts:

- •Minimum Viable Product (MVP)
- •Build Measure Learn cycle
- •Rapid, iterative, fast turnaround test the market

Early market validation is crucial

- Early market experimentations
- Design Partner Programs
- 1:1 Customer design workshop
- Tech previews





2013-2014 Goals : Day 1 productivity and fast time to value

- Goal 1: Transparency across the projects, with fast and simple access to the data, tools, and people that each stakeholder cares about in their work
 - Export to data from a variety of 3rd party tools to Excel and generate a report
 - Provide pre-created queries that tell me how my projects are progressing without having to create, learn or know the underlying technology for reporting.
 - Provide a single predictable personal home to access my stuff (projects, activities, people) –
 include access from different device channels
 - Provide a project home that aggregates information relevant to me (associated resource containers, activities, and people) include access from different device channels
 - Provide me quick access to activity streams on my laptop or mobile device
 - Enjoy the virtues of Single Sign-On (SSO) (this should be invisible to me in the UI)

• Goal 2: Simplicity and consistency in extending the platform environment with the tools used in my organization

- Access a marketplace of assets to improve my experience with platform capabilities
- Contribute assets (trials, etc) to promote my platform compliant capabilities and other assets
- Leverage the Platform Adoption guide and associated SDK to build service implementations



Transparency across the projects –Transparency across my projects:

- Export to data from a variety of 3rd party tools to Excel and generate a report
- Provide pre-created queries that tell me how my projects are progressing without having to create, learn or know the underlying technology for reporting.

-Access the data, tools, and people that are important to me:

- Provide a single predictable personal home to access my stuff (projects, activities, people) – include access from different device channels
- Provide a project home that aggregates information relevant to me (associated resource containers, activities, and people) – include access from different device channels
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Transparency across my projects

Export to data from a variety of 3rd party tools to Excel and generate a report

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Transparency across my projects

Provide pre-created queries that tell me how my projects are progressing without having to create, learn or know the underlying technology for reporting.

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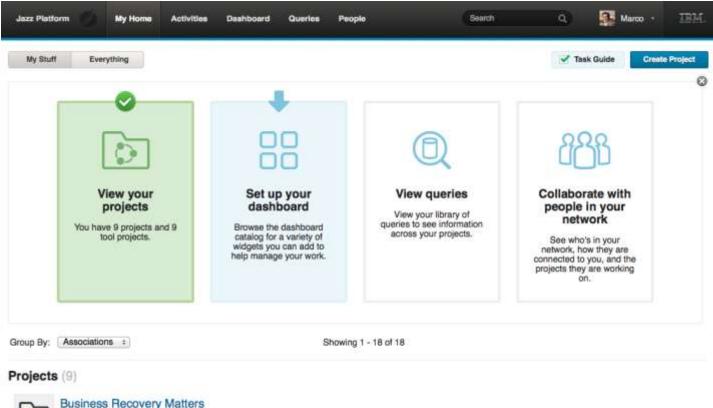
Potential pre-created Reporting Metrics

- Iteration Velocity: This metric tracks the rate at which a team completes work across iterations, thereby helping the team improve project predictability.
- Iteration Burndown: This metric tracks remaining estimated effort hours in an iteration. It is calculated and graphed daily in an Iteration Burndown chart to help a team monitor their progress for a given iteration
- Release Burndown: This metric tracks the estimated functionality yet to be implemented for the current release
- Test Execution Status: This metric tracks the number of tests planned, implemented, attempted, passed, failed, and blocked
- Test Coverage of Reqs: This metric tracks the percentage of requirements that are covered by tests, and the percentage that have no associated tests
- Defect Density: This metric tracks the number of defects found, closed, and remaining over time
- Defect Trends: This metric tracks the rate of defect arrival and closure (fixing) over the project duration
- Customer Satisfaction: This metric tracks the customer's overall level of satisfaction with the project
- Enhancement Request Trend: This metric tracks the number of enhancement requests that are received, approved, and closed over time, as well as the number of outstanding enhancement requests
- Cost Per Unit of Work: This metric tracks the cost of delivering a single unit of work (such as a user story point or use case point) across iterations
- Planned vs Actual Effort: This metric tracks estimated effort against actual effort



Access the data, tools, and people that are important to me

Provide a single predictable personal home to access my stuff (projects, activities, people)



Type: Project







Access the data, tools, and people that are important to me

Provide me quick access to activity streams on my laptop or mobile device

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Simplicity and consistency in extending the platform environment with the tools used in my organization

Leverage an ecosystem of platform users to exchange assets and knowledge

- Access a marketplace of assets to improve my experience with platform capabilities
- Contribute assets (trials, etc) to promote my platform compliant capabilities and other assets

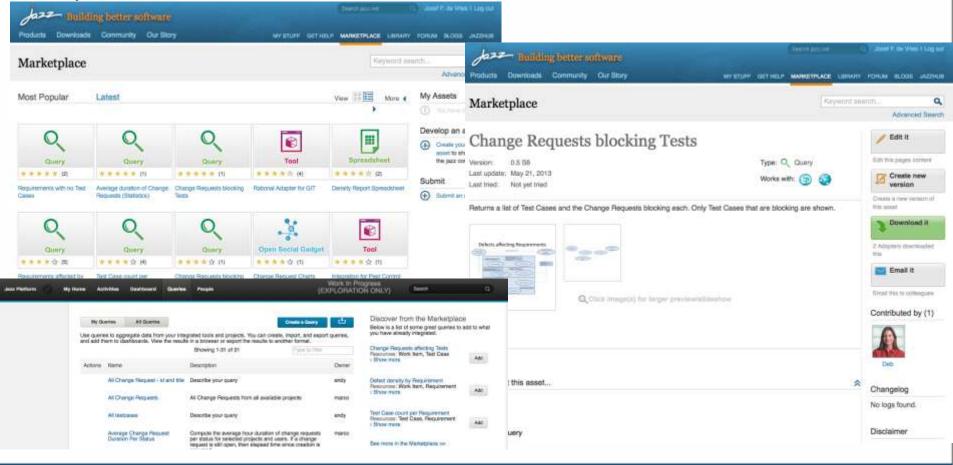
- Extend the platform environment with the tools I use

Leverage the Platform Adoption guide and associated SDK to build service implementations



Leverage an ecosystem of platform users to exchange assets and knowledge

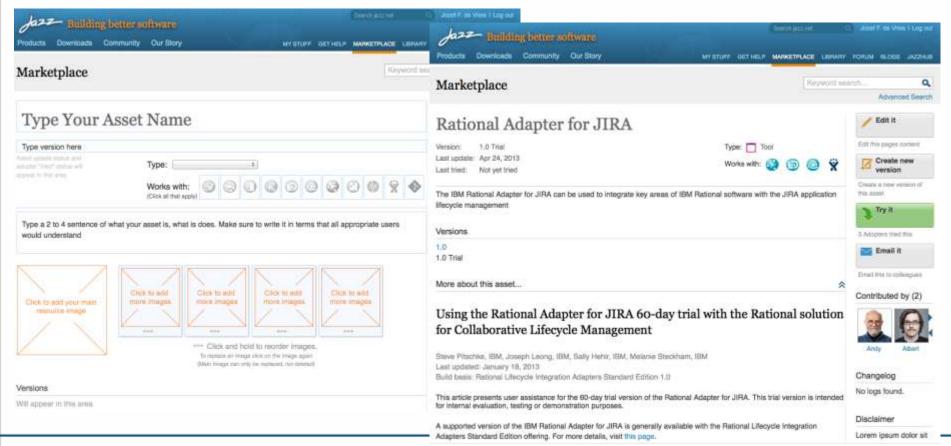
Access a marketplace of assets to improve my experience with platform capabilities





Leverage an ecosystem of platform users to exchange assets and knowledge

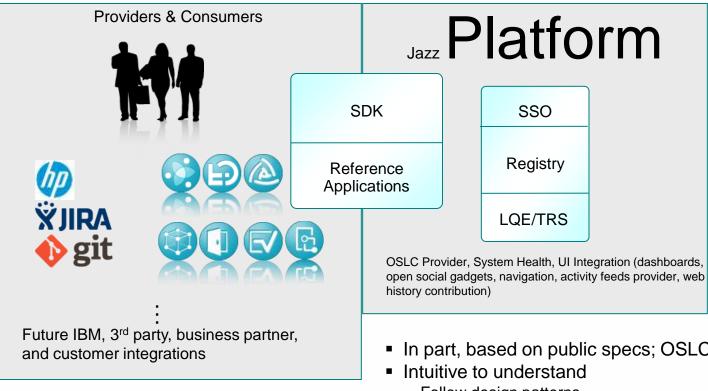
Contribute assets (trials, etc) to promote my platform compliant capabilities



IBM Technical Summit



Jazz Platform – Expanding our ecosystem



- SDK: Toolkits and Test suites to facilitate Jazz Platform services adoption and implementation
- Ref Applications: Best practices for implementation; baseline code, exemplary code

- In part, based on public specs; OSLC, TRS
 - Follow design patterns
 - Clean formatting of code
- Hard to misuse
 - Naming conventions, Consistent parameter ordering, Symmetric methods, Anticipatable
- Documentation focused
 - Usage examples, Class, Method, Parameter commenting



Get Involved

- Do you want to influence how our LIA and Jazz Platform evolves?
- Do you have challenges in your organization that you'd like to see our solutions address?

Join the Jazz Platform & LIA Design Partner Program

- Meet regularly throughout the year to preview our ongoing development efforts
- Solicit input and validation to our direction
- Email us at <u>ratldpp@us.ibm.com</u> if you would like to participate



Questions



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