

Collaborative Lifecycle Management: Milano, 1 Luglio 2010 gestirne il valore con la piattaforma Jazz



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### Agenda

- Deliver value by managing the software life cycle
- The Rational Solution / Strategy
- Benefits of managing the software life cycle



Driving Business Differentiation



### What is Application Lifecycle Management?

The coordination of development life-cycle activities, including requirements, modeling, development, build, and testing, through:



- 1) Process Automation Enforcement of processes that span these activities.
- 2) Traceability Management of relationships between development artifacts used or produced by these activities.
- 3) Reporting Reporting on progress of the development effort as a whole.

In its simplest form, ALM is really just the integration and coordination of people, tools, information, and process....enabling development and maintenance of software applications

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### What does this mean?

- ALM is a discipline as well as a product category.
- ALM doesn't support specific life-cycle activities; rather, it keeps them in sync.
- ALM doesn't live in practitioner tools; it lives in the integrations between them.
- A collection of development life-cycle tools is not necessarily ALM.

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### Compelling Reason #1: Business pressure

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

**Market Pressures** 

- 93% Senior business executives say innovation is a top strategic priority.<sup>1</sup>
- 3X Increase in the gap between leaders' need and their ability to <u>deliver</u> 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
  - ✓ <u>Requirements change faster than IT can implement</u>
- 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

systems failures Unleash the Power of Innovation with IBM Rational Solutions for Power



#### Compelling Reason #2: <u>Improve lifecycle processes</u> Traditional methods yield <u>excess rework</u>, <u>delays</u> & <u>poor quality</u>

#### **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



#### Compelling Reason #3: Islands of people, process & information Collaboration is fundamentally difficult

E

SE

TOOL D

TOOL C

LOGI

Little to no project visibility Data locked in proprietary APIs Poor process and workflow integration High maintenance and administration costs Persistent functional, geographic and organizational silos

TOOL B

LOGIC

TEST TEAM



#### Compelling Reason #4: 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



### **ALM The Market**



#### Overall Market Rating: Positive

- The adoption of ALM is in an early growth stage. The majority of users buy ALM products with a specific adoption value in mind, and only occasionally have the desire to drive the vision across the delivery chain.
- In addition, a good number of products in the market are provided as evolutions of more-fixed-point solutions or from relatively small (under 100 employees) private companies.
- We estimate that sales of ALM tools totaled \$1.26 billion for calendar year 2007, with a growth rate of 11.2%. The ALM market will stay relatively strong because of the value that ALM returns to a company in productivity, predictability, automation and governance.
- There are no viable open-source alternatives to the products covered in this MarketScope; however, many of them support a variety of opensource components stretching the capabilities of products such as Subversion, thus enabling them to potentially replace surrounding pieces of the ALM ecosystem.

MarketScope for Application Life Cycle Management Gartner RAS Core Research Note G00162941, Jim Duggan, Matt Light, Thomas E. Murphy, <u>17 December 2008</u>

## MarketScope for Application Life Cycle Management IBM receives highest available rating

- IBM launched the Jazz initiative to create a new code base designed for collaborative, workflowdriven development with a new repository.
- The willingness to embrace heterogeneous tools had already been demonstrated in the current solutions and will be reinforced by the support for VS. If support for other vendors' tools continues in the revised products, then the IBM solution should be attractive to large enterprises that choose bestof-breed solutions.

In our opinion, this validates that:

- IBM is one of the few vendors with credible offerings in almost all the requirements of ALM
- Jazz is a solid architectural foundation for further innovation
- We rate IBM as a Strong Positive because of its current market strengths and breadth of portfolio [.....] Jazz is a solid architectural foundation for further innovation.

	RATING						
	Strong Negative	Caution	Promising	Positive	Strong Positive		
Aldon			Х				
Borland				Х			
CollabNet			Х				
IBM					Х		
Kovair			Х				
Microsoft				Х			
MKS				Х			
Polarion			Х				
Rally Software				Х			
Serena Software				Х			
TechExcel				Х			
VersionOne			х				

As of 11 December 2008

#### Source: Gartner MarketScope for Application Life Cycle Management, Jim Duggan, Matt Light, Thomas E. Murphy, December 17, 2008.

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#### Rational. software



#### II Mercato 2009

### Table 1 Worldwide Application Development Software Revenue Estimates for 2009 (Millions of US Dollars)

Company	2009 Revenue	2009 Market Share (%)	2008 Revenue	2008 Market Share (%)	2009- 2008 Growth (%)
IBM	2,005.52	27.7	1988.00	26.9	0.9
Microsoft	1,065.37	14.7	1,069.48	14.5	-0.4
СА	795.01	11.0	803.10	10.9	-1.0
HP	757.44	10.5	816.96	11.1	-7.3
Compuware	428.22	5.9	488.07	6.6	-12.3
Others	2,195.59	30.3	2,227.60	30.1	-1.4
Total	7,247.15	100.0	7,393.21	100.0	-2.0

Source: Gartner (April 2010)



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Driving Business Differentiation



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



#### IBM.

#### Jazz-based Collaborative Lifecycle Management 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.

## Unleash the Power of Innovation with IBM Rational Solutions for Power

#### 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

# What is Application Lifecycle

 In its simples of information, and process....enabling development and maintenance of software applications



In ALM, Jazz is the "oil" that *lubricates* the gears.



### The Foundation of Collaborative Lifecycle Management



### Collaboration fosters business alignment & high quality

Requirement links foster clarity



## Collaboration fosters business alignment & high quality



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### **Value Proposition**





#### IBM. RTC/Jazz as a central "hub" for existing tools & solutions



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# Designed to integrate both partner and competitor resources

#### Simplifying collaboration across the software delivery lifecycle

Barriers to sharing resources across the software lifecycle

- Multiple vendors, open source projects, and inhouse tools
- Private vocabularies, formats and stores

#### **Open Services for Lifecycle Collaboration**

An industry initiative to create a universal integration architecture for software delivery.

- An architecture for sharing lifecycle resources ✓ Described on open-services.net through illustrative resource definitions, service implementations, and use cases
- Inspired by Internet architecture
  - Loosely coupled integration with "just enough" standardization
  - Common resource formats and services
- Innovation from the Jazz technology platform



### Rational partner solutions extend the value of Jazz



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### Learn more on Jazz.net



Tracing C/ALM Relationships

Team transparency involves knowing what everyo

#### Supported Product Versions

The C/ALM integrations provide the freedom to gr integrations, Rational Collaborative ALM gives you Whether it's just two teams collaborating or manteams grow, simply add capability. No "big bang"

#### Which versions do I choose?

The integrations exist in each of the products, products. When you deploy any two products access to the Collaborative ALM features. Havi offer.



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## Increasing Accountability of Software: One Example What is the cost of a defect?





# Improving productivity in IBM SWG through improved agility



### Meeting our dates

Using early releases, iterative development practices, continuous integration and best practices, we've dramatically improved our release timings.

#### 2006 and 2007

- § 47% of all products released on schedule or within 30 days of original plan
- § 86% of maintenance vehicles released on schedule or within 7 days.

#### 2008

- § 82% released on schedule or within 30 days (including all 6 new products)
- § CC/CQ 5 months late which forced a "ReqPro and Suites slippage"
- § 98% of maintenance vehicles on schedule

#### 1H 2009

- § 100% released on schedule or within 30 days
- § 72% of maintenance vehicles on schedule



### Quality Metrics YE 2008 results

- PMR (calls) arrivals down 14.2% YTY
  - 109,537 in 2007 down to 93,973 in 2008
- APAR (defects) arrivals down 20.1% YTY
  - 4,825 in 2007 down to 3,857 in 2008
- PMR (calls) backlog down 12.5% YTY
  - 8,898 in 2007 down to 7,787 in 2008
- APAR (defects) backlog down 25.6% YTY
  - 2,277 in 2007 down to 1,693 in 2008

634 of 717 (88%) of client-found beta defects were fixed prior to GA

• Up from 19% in previous year

### Ship readiness scores up by 1.9 points out of 10

5.4 over 3 products in 2007 up to 7.3 over 18 products in 2008



### Summary

- Data integration via linked artifacts across repositories
- Leads to increased **collaboration** among team members
- And enables **automation** such as real-time reports and queries
- Helping you to reduce cost, improve quality, and deliver more value to your stakeholders



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