Rational, software

开发的智慧 协作的力量





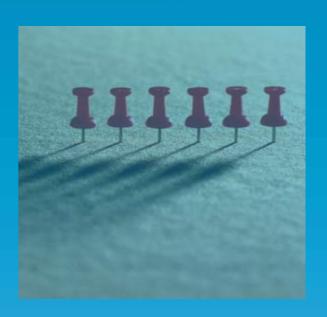
需求和分析

Responding to challenges and paving the path forward

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议程

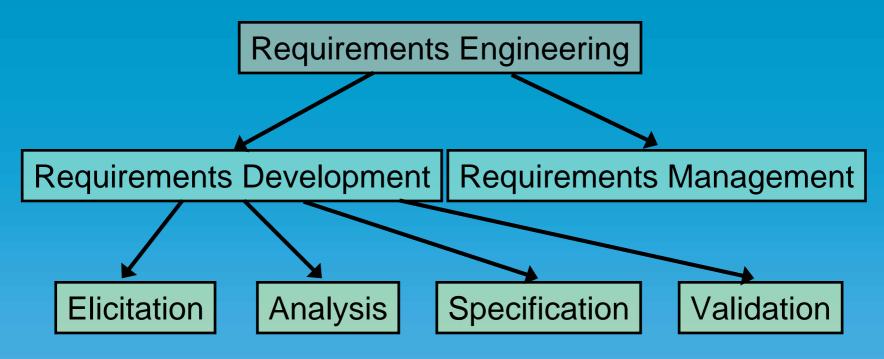
- 需求管理面临的挑战
- 2008及以后Rational如何应对需求挑战
- Telelogic DOORS
- 问题和解答







需求的定义和管理



Wiegers, Karl E., Software Requirements: Practical Techniques for Gathering and Managing Requirements Throughout the Product Development Cycle, Microsoft Press, 2003.

Requirements Development (RD): A CMMI Level 3 Engineering Process Area Requirements Management (REQM): A CMMI Level 2 Engineering Process Area

Rational在需求管理的贡献

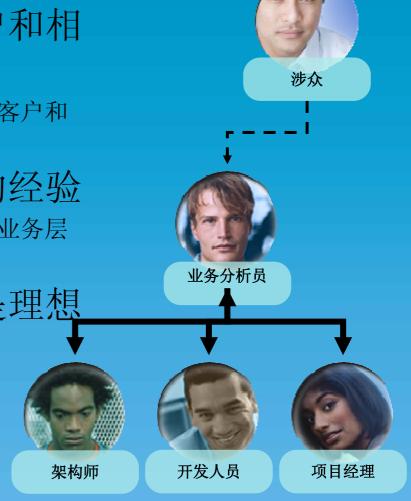
- 在过去的数十年,Rational一直关注于帮助分析师和 交付团队间需求的沟通
 - 倡导以文本加模型的方式来精化需求 (用例图、活动图、业务流程模型)



- WBM在一些客户那里最近已经取代了RSM
- RequisitePro作为需求管理和追踪的集线器
- 该方法已经被广泛接受并且继续带来很多好处
 - 非常适合迭代化开发流程
 - 从初启到精化的流转很顺畅

当前方法的一些局限性

- 这种技术没有特别关注于客户和相关涉众
 - 模型主要用来在开发团队的沟通而通常对客户和 涉众没法很好理解
- 需要相关参与者有模型方面的经验
 - 超过了很多业务分析师的能力,限制了更业务层面人员的使用
- 多个工具点对点的集成也不是理想的方式
 - 工作空间也会和数据库不一致
 - 安装容量大、难以配置
 - 在广域网(WAN)方式下性能也是问题



正在进步的需求市场

- 市场正在尝试补充或可选的方法
 - 通过不同的方法建模 "故事"
 - Wireframes和界面原型的故事板
 - Visio, PowerPoint, Illustrator
 - 仿真
 - iRise, ...
 - 业务流程建模
 - 帮助得到正确的模型
 - Ravenflow 可视化验证通过文字描述的流程
- 通用原则
 - 少些文字
 - 使用最适合的词汇来沟通你的想法
 - 使大量面向业务的人员能加入到需求定义的流程
 - 包括客户自己





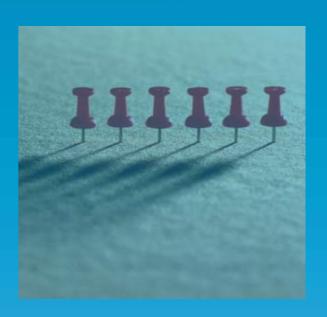
做到的及被忽视的

- 单个的需求定义技术可以是有用而且成功的,但是…
 - 大部分的方法问题出在仅从单个参与者(分析师、架构师、开发人员、项目 经理、等等)的视角来出发看需求
- 忽视了日益增长的需求市场的要求…
 - 分布式的团队、时区的不同
 - 需求精化所需的协同工作的内在需要
 - 存在于想法、背景上下文和团队成员讨论之间的网状关系
 - 组织级的流程和需求定义流程的交叉
 - 例如: 建立短期团队、团队成员的角色、审查和批准...
 - 海量信息及在其中找到真正有关的信息的挑战



议程

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Rational: 在需求处于领导及创新的位置

迈向未来的步子...

1.增强需求管理

- 倾听我们的用户
- 交付高优先级的增强请求 (Rational/Telelogic)

2.补充有效需求定义管理

- -关注于分析师和广大涉众
- -创建一个开放的、基于服务器的需求定义平台



3.关注在应用生命周期管理(ALM)中需求角色

- 通过在软件开发周期中更深层的需求集成来保护业务价值的完整性

1. 提高需求管理: RequisitePro 7.1

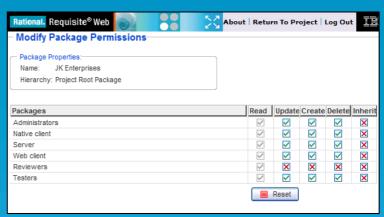
2008六月Beta, 2008年下半年发布

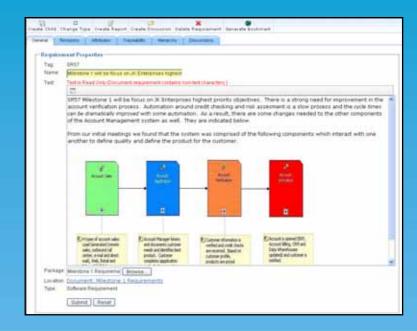
关键改进

- 增强的安全模型确保责任性和机密性
 - 包和视图级别的访问控制
- 在富文本文档格式中管理需求
 - 增强需求上下文管理
- 健壮的WEB介面服务于全球分布式团队
 - 实时Word集成
 - 管理从Requirements Composer来的需求
 - 附带报告模板的报告管理界面
 - 附加的需求项目管理功能
 - 增强的用户可用性
- 新的数据库底层架构提供过滤和报告能力
 - 基于BIRT的执行和设计

7.0版本后提供的功能

- 应用生命周期管理的集成
 - 业务需求管理 (BPM) WBM, WID
 - 架构管理 RSA, RSM, RAD, RSD





RequisitePro 7.1 Open Beta

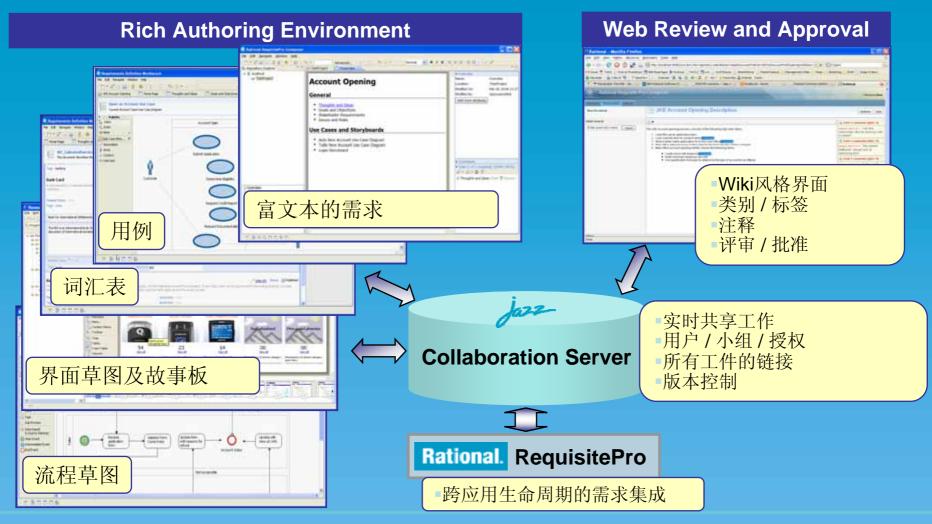
Available **Now** on IBM.com

www14.software.ibm.com/iwm/web/cc/earlyprograms/rational/RDMOpenBeta/index.shtml

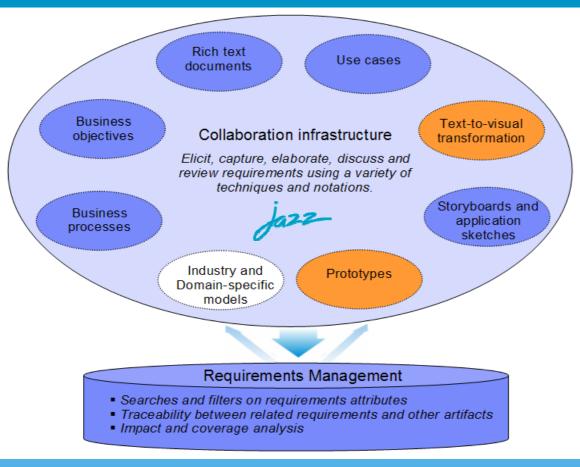
Or link from the Requirements Management Page http://www-306.ibm.com/software/rational/offerings/irm/

2. 集成需求定义:Requirements Composer

2008六月Beta, 2008年4Q

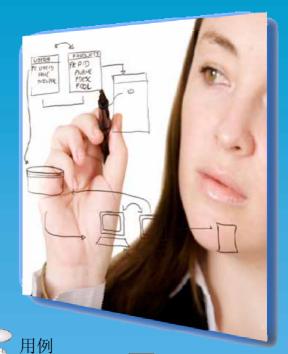


Rational Requirements Composer (beta)









Rational 产品提供的能力

■ 合作伙伴产品提供的能力



Requirements Composer - 能力

富文本捕获

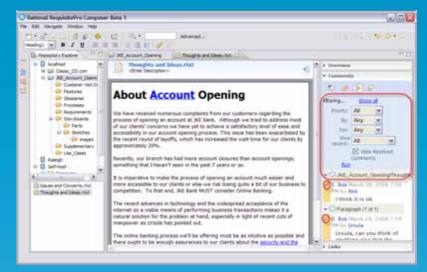
- 在文档中组织信息的网状关系
- 集成格式化的文本、图片和草图
- 跨文档和外部源链接实现信息统一

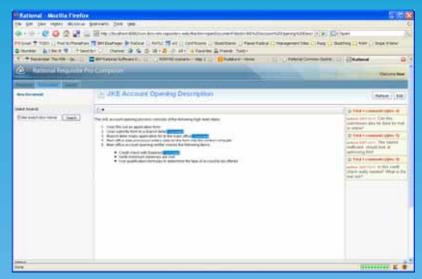
协作

- 任何元素都可以附加注释
- 体现注释对话上下文的思路
- 在文档中嵌入图表和草图(原型)实现评审的生产率

Web界面支持

- 对所有工件可以查看和添加注释
- 参与评审过程
- 所搜和查询





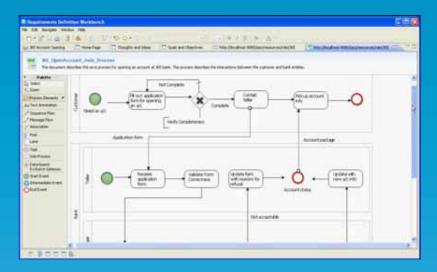
Requirements Composer - 能力

业务流程

- 能描绘当前的和将来的业务流程
- 将业务流程关联到业务目标和目的
- 链接任务和决策点到:
 - 界面原型和任务
 - 用例和任务
 - 业务规则和决策点

界面原型和故事板

- 引出并验证用户体验需求
- 快速组装界面故事板
- 在项目的多个迭代中方便更新故事 板
- 创建可以重用的界面资产
- 提供端到端的用户体验评审
- 链接任何元素到任何东西





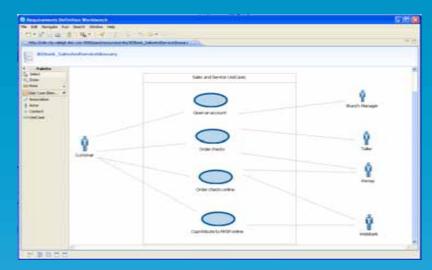
Requirements Composer - 能力

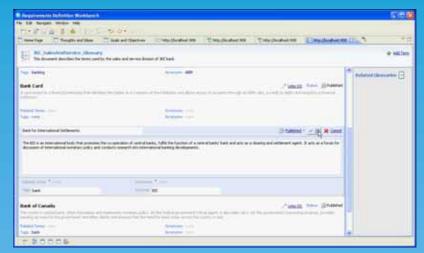
用例

- 创建提供信息的图表
- 通过富文本的文档解释的精化
- 链接用例到:
 - 界面原型和故事板
 - 流程草图
 - •••

词汇表

- 术语定义可以提高一致性、清晰性和正确性
- 链接术语到任意文本内容
- 多个术语表间的维护和重用
 - 企业级、项目及、客户
 - 特定工业界标准
- 同义字、相关术语、搜索、更多…





需求定义平台

通过合作伙伴得到增强



- 通过可视化的模拟定义、抽取和验证需求
- 在Requirements Composer web 界面中包含iRise模拟







RAVENFLOW

- 验证和找出缺失需求
- · 从文本的用例生成可视化的模型用 来帮助理解
- · 在Requirements Composer web界面中包含RAVEN工件

Rational.

- Rational AppScan (Security)
- Rational Policy Tester (Compliance)
- Functional Tester
- Performance Tester
- Software Analyzer
- SOA Tester

Rational. Quality Manager

需求驱动 的软件质量

通过质量管理工具和实践得到增强





Requirements Composer Open Beta

Available Now at

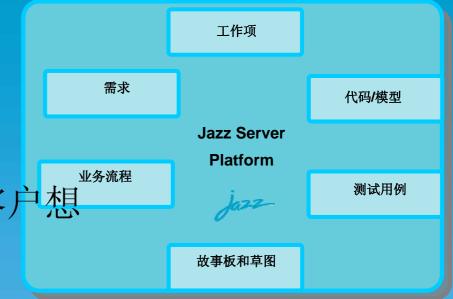
www.ibm.com/software/rational/announce/rrc/

Or link from the Requirements Management Page http://www-306.ibm.com/software/rational/offerings/irm/

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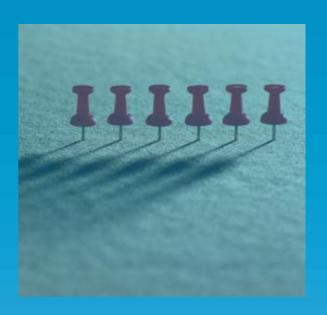
3. 应用生命周期管理(ALM)

- 已发布的Jazz平台作为应用生命 周期管理的平台,需求是基础
 - 使用Jazz平台和"对ALM的开放服务"
 - 基于开放的Internet标准
 - 面向资源、松耦合
 - 深度的数据级别的集成
 - 逐步增加的、可扩展的
- Jazz将在关键能力上加速客户想 要的产品功能进程
 - 版本、分支、合并
 - 工作流
 - 全面的查询和表报
 - 协作 (RSS源, email通知, 团队感知…)
 - 领域专家重新回到该工具
 - 流程、需求分析,…



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IBM 购入Telelogic

2008年4月3日

Telelogic将合并到IBM Rational软件部门,将和IBM的软件战略保持一致

Telelogic客户及合作伙伴的投资将得到保护,可以通过利用更广的产品能力而不需替代原有的系统

http://www-306.ibm.com/software/rational/welcome/telelogic/press.html



RequisitePro



补充需求方案

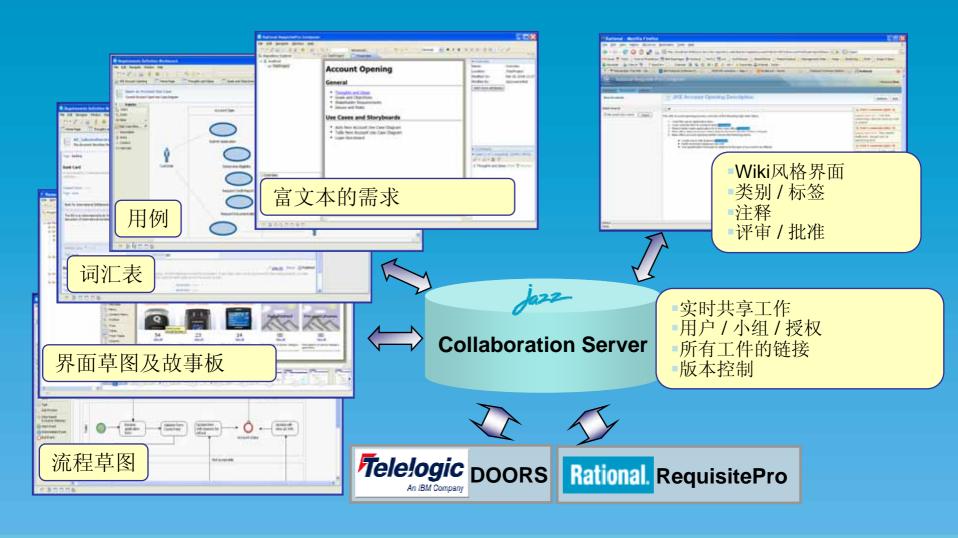
DOORS

One Size Does NOT Fit All ... IBM remains committed to both

Systems Software / IT Formal Req. Change Process Lightweight Req. Change Management Rational Tools / RUP Formal Rigorous Compliance / FDA IT Compliance

Successful projects using DOORS or RequisitePro tend to have the characteristics shown above

2009: Composer集成DOORS



需求定义管理解决方案路标*

DOORS

- 2008
 - DOORS 9.0
 - DOORS 9.1 IBM branded version
- 2009
 - DOORS Rational Quality Manager integration
 - DOORS Requirements Composer integration
 - DOORS 9.2
- 2010+
 - DOORS on Jazz Team Server
 - Enterprise COTS database
 - Product family management / product line engineering
 - Seamless ALM with shared resources
 - Process enactment / workflow across tools and job roles
 - Common reporting

RequisitePro

- 2008
 - RequisitePro 7.1
 - Requirements Composer
- 2009+
 - RequisitePro 8.0 on Jazz Team Server
 - More productive product UIs
 - Seamless ALM with shared resources
 - Improved scalability
 - Better distributed team support
 - Process enactment / workflow across tools and job roles
 - Common reporting

*Plans subject to change

总结

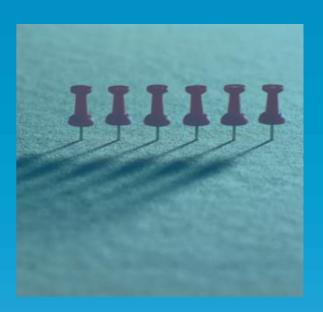
- 2008交付重要的需求工具
 - RequisitePro 7.1
 - Requirements Composer
 - DOORS 9.0 & 9.1
- Rational承诺同时发展 Rational和DOORS产品
- Jazz技术
 - 将同时在该平台上发展RequisitePro和DOORS
 - 帮助解决长期存在的需求管理问题
 - 使能更好的应用生命周期管理集成





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QUESTIONS

THANK YOU

Learn more at:

- IBM Rational software
- IBM Rational Software Delivery downloads
- Process and portfolio <u>management</u>
- Change and release managemer ational
- **Quality management**
- Architecture management

- developerWorks
- **IBM Rational TV**
- IBM Rational Business **Partners**

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