

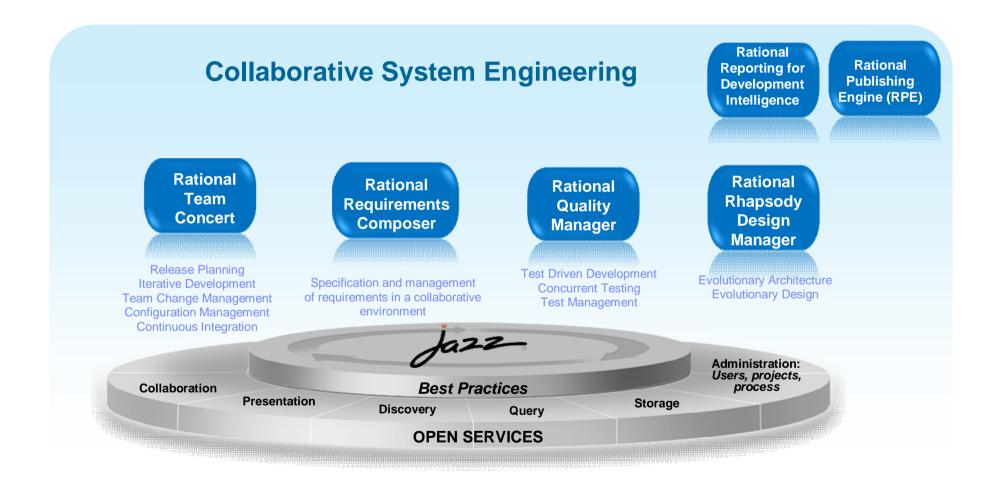
## La modélisation au cœur de la collaboration



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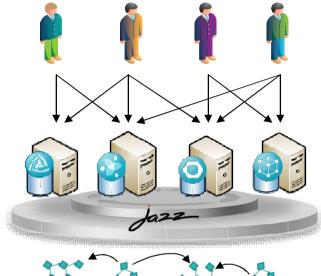


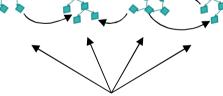
### Rational Rhapsody Design Manager





Jazz-based « Collaboration »





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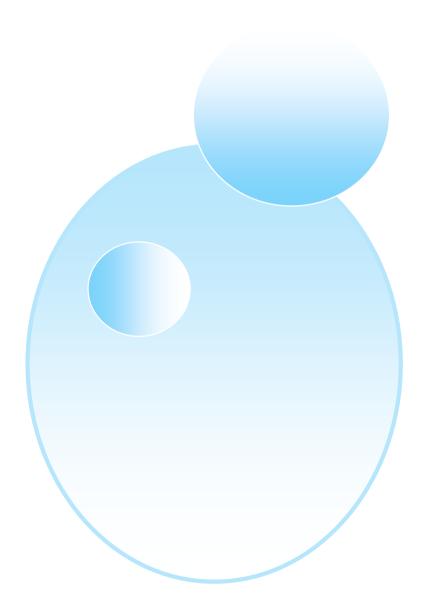
- Users :
  - Roles / Licenses : R/W Cross-tools permissions
- Tools :
  - Web resources : Web Interfaces
  - Linked Data / OSLC : « Right Context »
    - Rich Hovers
    - Cross-tools Creation/Selection dialogs
- Collaboration :
  - Traceability matrix
  - Mashup dashboards
  - Cross-reporting

#### Software and Systems Engineering | Rational Work together with SCM and DM model management Design creation, editing, **Design change control and** MBSE. MDD. MBT search. Design search, guery, view, versioning (model-based) query, validate, analyze, comment. review. link. report report, validate, analyze, OSLC Design Management limited editing services on Jazz Team Server (JTS) + Rhapsody clients **DM REST APIs** OSLC + **Systems Engineer** R REST Jazz Storage Web client § Architecture Elements (check-outs SCM Server -APIs § Index Reviewer § Comments (visual, Directory textual) **Rhapsody clients** § Links merges, check-ins File1 § Reviews RTC, File2 Software Engineer CC, SVN **Design Management** services on Jazz Team Server (JTS) **Design change control and** versioning (file-based)

- Systems Engineers work directly from the database for design change control and versioning
- Software Engineers work with their Software Configuration Management system for design change control and versioning

## Outline

- Complexity and Design
- Design Challenges
- Collaborative Design Management
  - -Central Design Hub built on Jazz
  - -Linking Designs with OSLC
  - -Search and Analysis
  - Stakeholder collaboration
  - Document generation and reporting
- Rhapsody Client Integration
- Get involved on Jazz.net



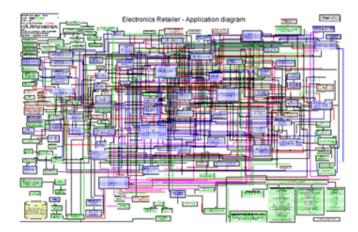


## Complexity is the biggest challenge facing organizations today!

### "Today's complexity is only expected to rise, and more than half of CEOs doubt their ability to manage it."

IBM 2010 Global CEO Study: 1500 face-to-face interviews, Companies of all sizes across 60 countries, representing 33 industries. (IBM CEO study)

Whether IT or device-based, software-based applications continue to grow in size and complexity. Globally distributed and diverse teams, outsourcing and supply chain dependencies lead to increased challenges in the timely launch of competitive products and services.





Organizations struggle to balance agility and complexity.

It's not enough to manage development, the design process itself must become more streamlined and efficient.

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### Design is critical to tackling complexity ...

### Customers use design tools today to:

- Simplify application and systems complexity
- Analyze software and systems for defects, impact analysis, and potential reuse
- Document and communicate to stakeholders

Estimates Of Relative Costs For Repair Of Generic Defects

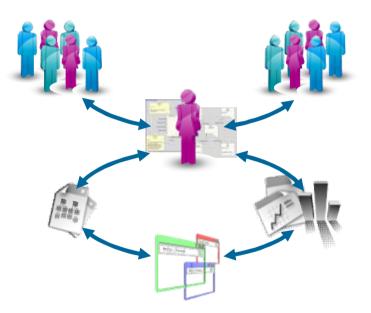
Design and architecture	Implementation	Integration test	Customer beta test	Post product release
1X	5X	10X	15X	30X

X is a normalized unit of cost and can be expressed in terms of person-hours, dollars, etc.

- However design tools often focus on the practitioner and lack team integration
  - Teams cannot easily share designs and get feedback from stakeholders
  - Linking designs to other lifecycle artifacts is difficult, leading to a lack of traceability and understanding of the impact of changes
  - Difficult finding information for reuse
  - It takes too much time to create reports across multiple designs and lifecycle elements for specifications, communication, regulatory compliance, and auditing
  - Design reviews are challenging because they rely on static documents that get disconnected from the design

## What is Design Management?

- Design Management integrates systems engineering and software design into the lifecycle
- ✓ Design Management helps teams to:
  - Collaborate and iterate on their software and systems designs
  - Produce better quality designs with less time
  - Integrate designs and design process with the rest of the lifecycle
- Rational Rhapsody is extended with design management capabilities
  - Enabling seamless software and system engineering integration scenarios
  - Extending the reach of design and architecture into the wider engineering community



### Collaborative Design Management

Enhance cross-team collaboration on software and systems design

### **Central Design Hub**

- Enterprise-wide design storage for search, review, analysis, and reuse
- Links design elements to lifecycle artifacts
- Navigate and visualize relationships
- Simplify design collaboration through Jazz-based model management

### Stakeholder Collaboration

- Automated design reviews at all stages of development
- Intuitive extended team web client for broader access to designs
- Unify requirements and design with single-source of truth workflow utilizing OSLC

### **Document Generation and Reporting**

- Create documents directly from the development lifecycle
- Draw from information and assets linked through OSLC

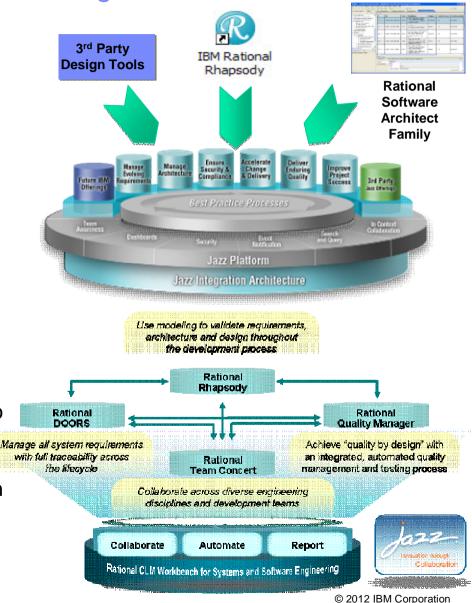


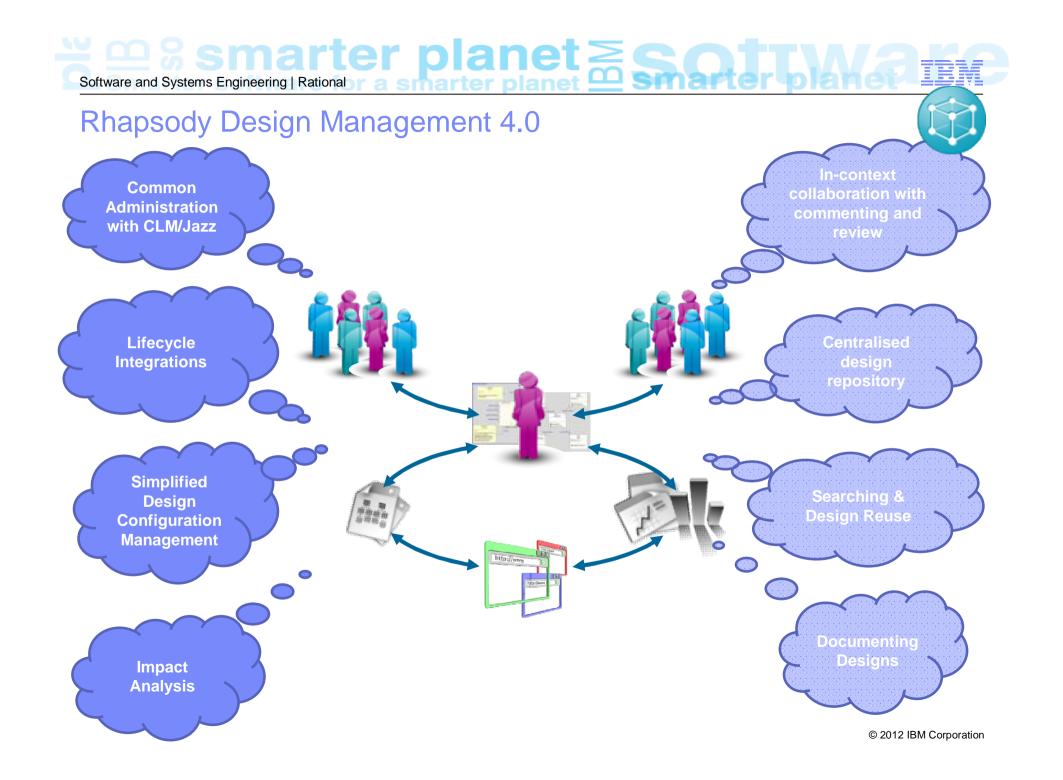
"The ability to review and comment on models from the Web client encourages feedback from a wide array of stakeholders... leading to faster consensus and improved quality of solution designs."

– Lars Tufvesson, Sellegi

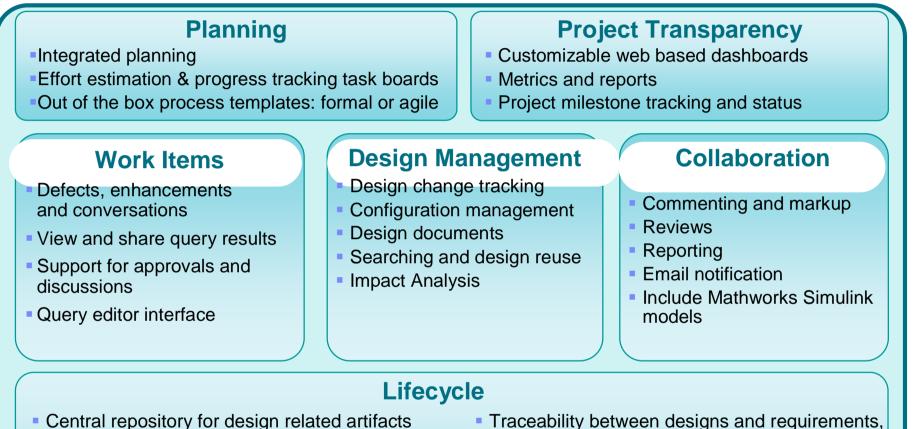
## Rhapsody and Collaborative Design Management

- Rhapsody has been extended with these Collaborative Design Management capabilities
  - Continuing the integration of the architecture domain (MBSE) into IBM's systems engineering solution
  - Enabling seamless software and system engineering integration scenarios
  - Extending the reach of design and architecture into the wider engineering community
  - Enhancing existing Rhapsody design capabilities of with new team capabilities
- Design Management project on jazz.net
  - Brings design management capabilities to the Jazz platform
  - Built as a set of design management services that can be used with any design tool
  - Enabling an ecosystem around software and systems design



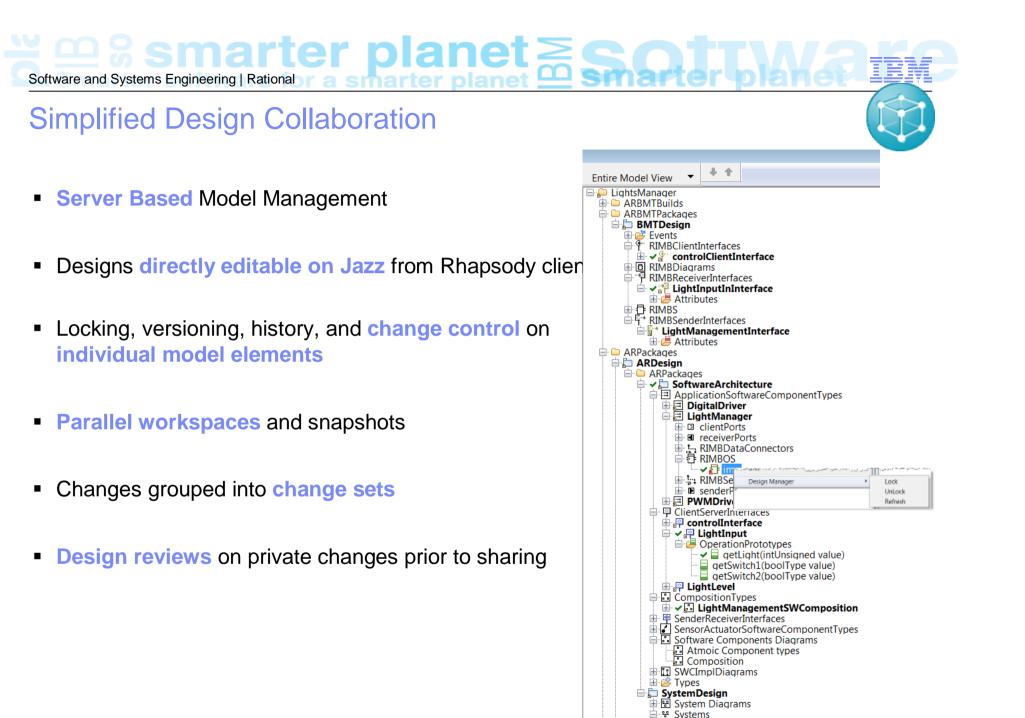


### Rhapsody Design Management: A Closer Look

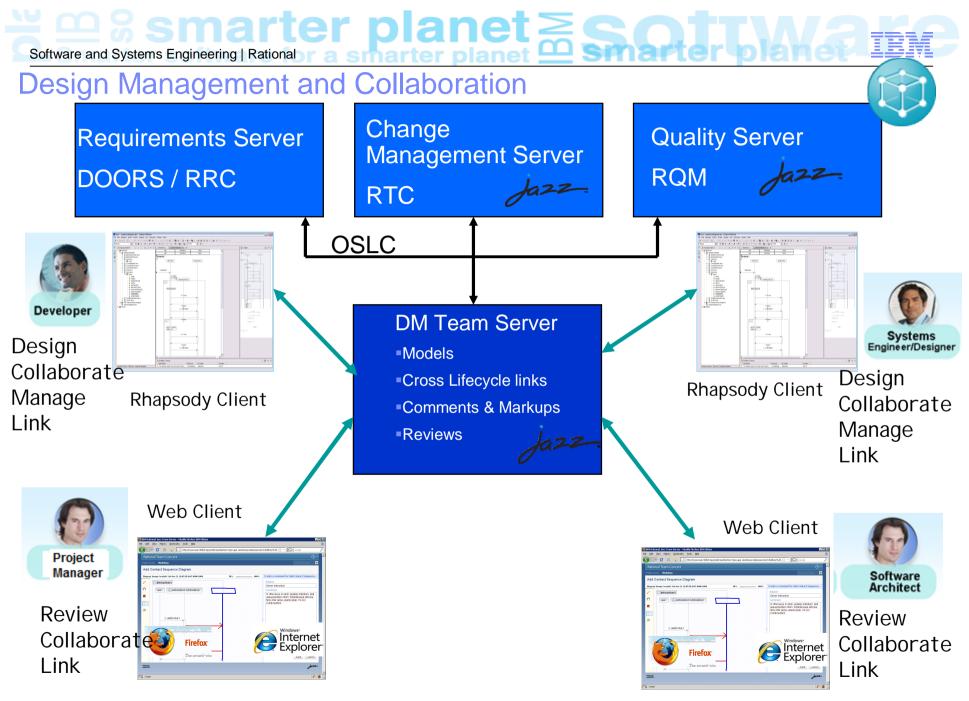


- Role-based access control
- Common user administration with Jazz products
- Lifecycle projects with design

- Traceability between designs and requirements, work items, and quality artifacts
- Reporting and analysis across the lifecycle
- Dashboards across the lifecycle



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Software and Systems Engineering | Rational r a smarter planet Server Based Model Management **Design change control** and versioning (modelbased) Design creation, editing, Design search, query, view, **Design Management** MDD/MBSE/MBT. search. services on Jazz Team comment, review, link, report query, validate, analyze, Server (JTS) validate, analyze, limited report OSLC OSLC editing + + DM DM Rhapsody client Web client RE Jazz Storage S T **§** Architecture Elements S § Index APIs APIs § Comments (visual, textual) § Links **§** Reviews

### **Benefits**

Direct editing of designs and change control on server providing a more simplified environment

Change control (locking, history) at the model resource level providing more granularity

No duplication or design synchronization issues

Use of SCM still available for users who need more powerful change control capabilities (i.e. Software Engineers)

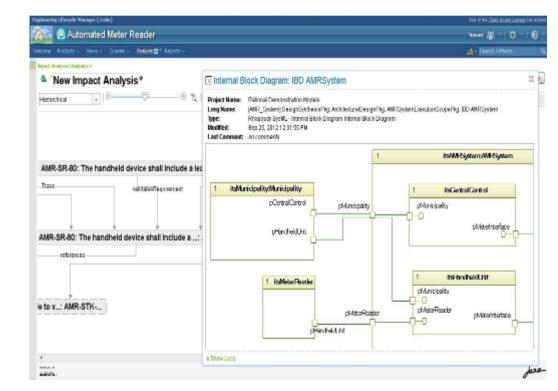
#### Software and Systems Engineering | Rational Work together with SCM and DM model management Design creation, editing, **Design change control and** MBSE. MDD. MBT search. Design search, guery, view, versioning (model-based) query, validate, analyze, comment. review. link. report report, validate, analyze, OSLC Design Management limited editing services on Jazz Team Server (JTS) + Rhapsody clients **DM REST APIs** OSLC + **Systems Engineer** R REST Jazz Storage Web client § Architecture Elements (check-outs SCM Server -APIs § Index Reviewer § Comments (visual, Directory textual) **Rhapsody clients** § Links merges, check-ins File § Reviews RTC, File2 Software Engineer CC, SVN **Design Management** services on Jazz Team Server (JTS) **Design change control and** versioning (file-based)

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## Systems and Software Engineering Lifecycle Integrations

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- Bi-directional traceability between requirements (RRC & DOORS) and design
  - Alternative to Rhapsody Gateway
- Stakeholders can easily find designs
- Understand the impact of changes to requirements or designs
- Single source of truth for SysML requirements – no duplication of information

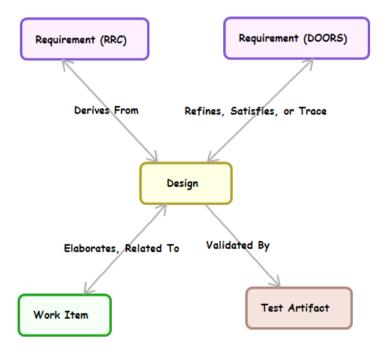


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## **Design and Lifecycle Traceability Scenarios**

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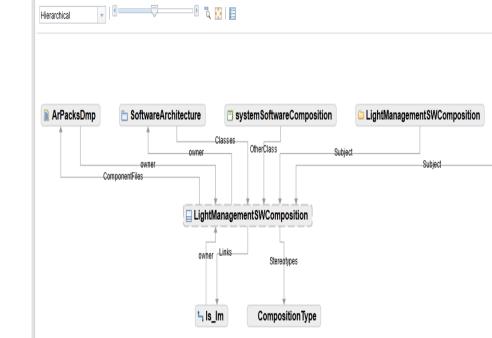
- Design and Requirements
  - Analysis: link designs that provide the next level of details for requirements
  - Coverage: link designs that implement requirements to ensure coverage
- Design and Change Management (Work Items)
  - Planning: link design tasks to related designs
  - **Design Changes**: link design change sets to related work items
  - Implementation: link implementation tasks to related designs making it easier for developers to find designs
  - Defects: link design defects back to defective design
- Designs and Test Artifacts (one-way only)
  - Test coverage of designs: Link from designs to test artifacts that validate the design to ensure test coverage



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## Impact Analysis – Design Centric View

- New graphical impact analysis diagram
  - Includes both design and OSLC linked artifacts
- Analysis Configuration defines the parameters for the analysis
  - Upstream level, downstream level, which links types to include
  - Can be used be shared by multiple analysis
- Analysis applies the configuration to a selected element to perform the impact analysis
  - Add and remove elements from impact analysis diagram
  - Save and re-run at a later time





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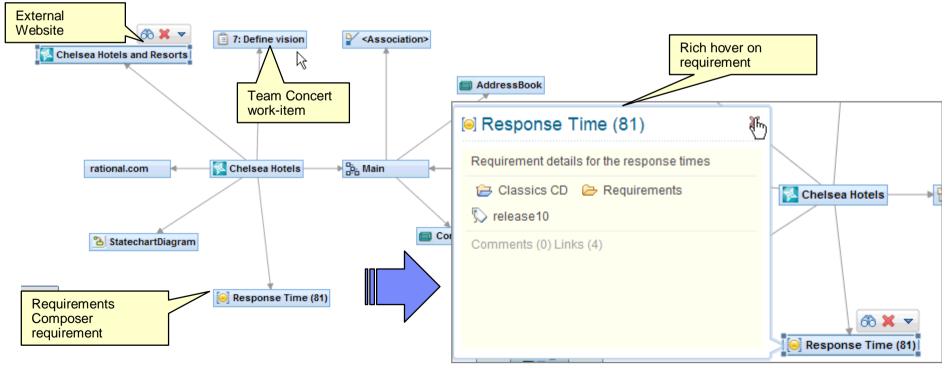
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Impact Analysis for SWC



## Viewing traceability links in Design Manager

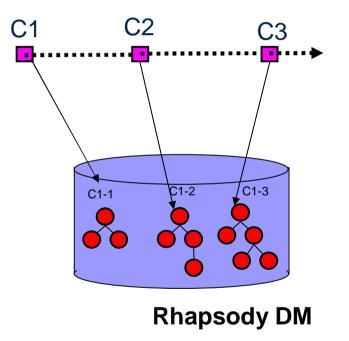
- Relationship diagram shows linked elements to help impact analysis
- Interactively "grow" a diagram of relationships
- Every relationship (link) managed by the model elements can be explored, including relationships to resources external to Design Manager.
- Manage the relationships by filtering in only the interesting



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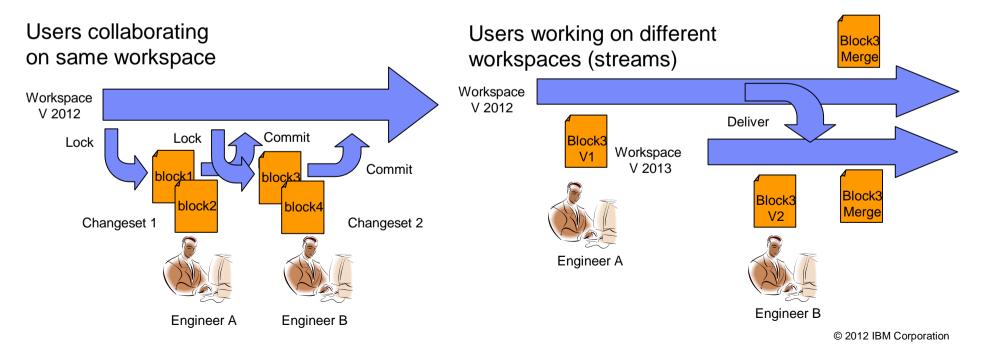
- Jazz based version management
- All Jazz resources can be configured together by the service regardless of the application
- Configurations realize baselines (snapshots), streams product variants (workspaces)

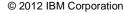


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### Collaborative work: Workspaces, Change Sets

- Workspaces: a shared evolving configuration of the system
  - Workspaces are defined based on a set of dimensions, e.g. product model year
  - Workspaces have may have relationships that determine propagation of changes
- Changesets: transactions made by individual users which consist a set of resources
  - Changesets can be associated with certain workitems and can be reviewed
- Snapshot: an immutable workspace ("baseline")
- Working in "publish mode" is also supported





### Introduction to DM Workspaces and Configurations

- New configuration application maintains workspaces and snapshots for model elements
- A group of Configurations is called a Configuration Space

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- Multiple project areas can be connected to the same Space and share Configurations
- A Workspace Configuration is one where users can modify each resource
- A Snapshot Configuration is one where users can only view versions for each resource

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	Global Space Default Workspace	Global Space
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	JKE Banking 2012-05-17 Workspace	JKE Banking Sample Project
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	JKE Banking Sample 2012-05-17 Snap	JKE Banking Sample Project

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## **Finding Existing Diagrams**

- Quick search across project areas
- Que

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**Design Collaboration** Collaborating with Stakeholders in the Context of Designs

Different types of design collaboration may be required depending on the amount of formality required:

### Formalization

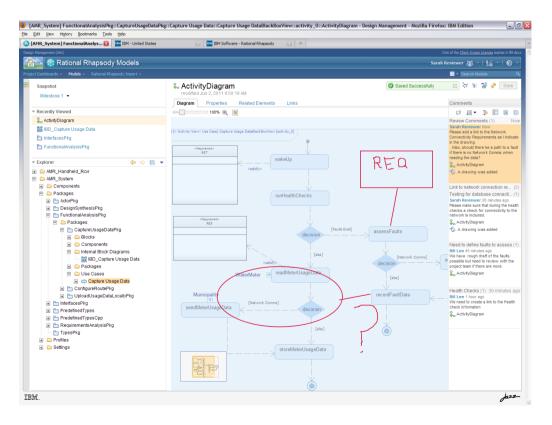
Design Collaboration	Informal Design Reviews	Formal Design Reviews
<ul> <li>Ongoing stakeholder involvement in the design process.</li> </ul>	<ul> <li>Gather feedback from stakeholders on a specific set of designs at a point in time such as a milestone.</li> </ul>	<ul> <li>Obtain approval for designs or identify issues that must be resolved before approval can be given</li> </ul>
<ul> <li>Starts early in the process and stakeholder input helps to shape the evolution of the design</li> </ul>	<ul> <li>Review occurs over a limited period of time.</li> </ul>	<ul> <li>given.</li> <li>Review occurs over a limited period of time</li> </ul>
design. <ul> <li>Improve quality and gain</li> <li>stakeholder buy-in</li> </ul>	<ul> <li>Does not typically require formal signoff on designs.</li> </ul>	Requires tracking of formal signoff on designs.

Cost of change increases



### **Design Collaboration - Commenting**

- Comments can be created on any Design Manager resource
  - Textual (plain text) or graphical (SVG graphics overlaid on diagram)
  - Comments have an author and time and are associated with a snapshot
- Organized into discussions
- Accessible from either the Web client, Rhapsody, or Rational Publishing Engine

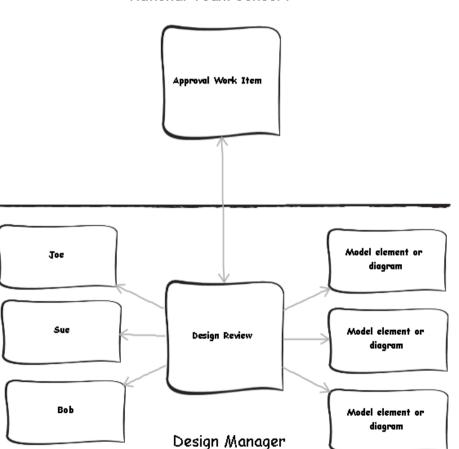


Comments can be sorted and filtered based on snapshot, user, and time



### **Design Reviews**

- Design review created in Design Manager specifying participants and resources to be reviewed
- Reviewers attach comments and markup to designs
- [Optional] Work item created in RTC and linked to design review to track formal design approvals
- [Optional] Design comments that require follow-up action created as work items in RTC and linked back to design review



#### **Rational Team Concert**

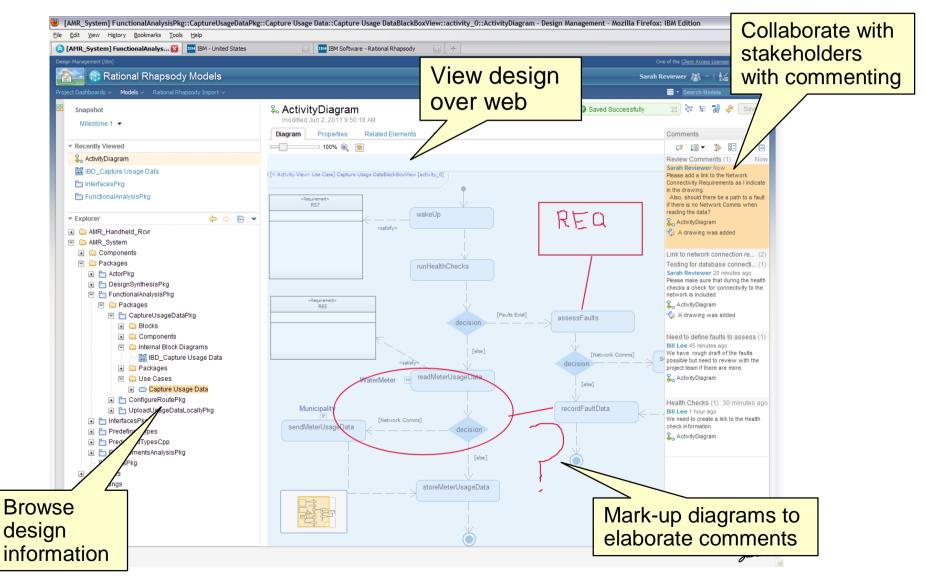


### Design Reviews

- Design Manager allows you to quickly setup design reviews and gather feedback.
- Users notified via email of the review and can access their reviews from the dashboard
- Design Manager tracks progress of design review

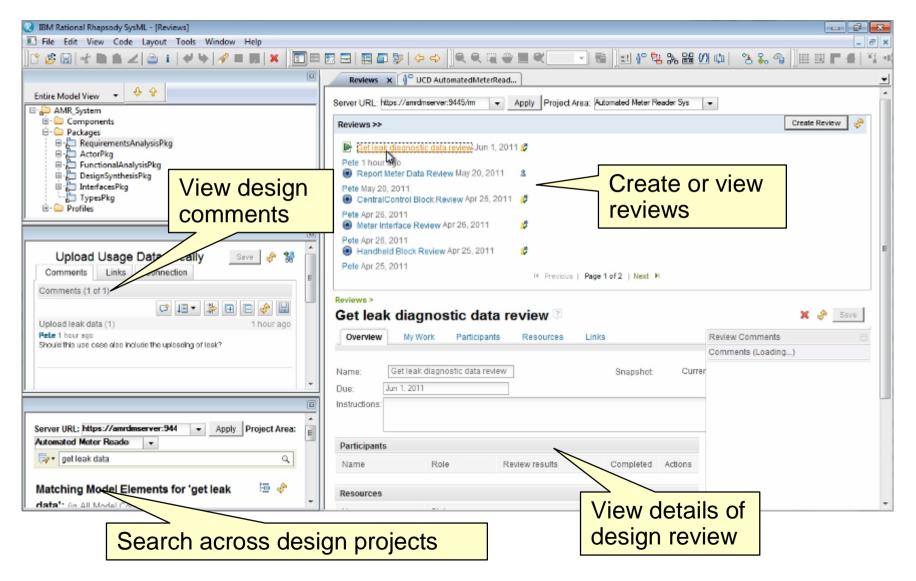
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## Rational Rhapsody Design Manager Web Client



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### Collaborative development in Rhapsody client



### Multi-discipline Document Generation and Reporting

Satisfy regulatory and customer demands

- ✓ Easily create comprehensive documentation for specifications, communication, compliance and auditing
- ✓ Help prove compliance by including OSLC link information and design review information

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- Teams must document for specifications, communication, regulatory compliance, and auditing, but...
  - Documents need to contain information from different domains (requirements, design, change management); individual products have separate reporting solutions
  - \* Existing solutions are difficult to use for designs and limited in the types of information they can access

### • With Rhapsody Design Manager and Rational Publishing Engine...

- Users create templates and generate documents and reports pulling data from all relevant sources using open interfaces
- Documents can show the impact of design changes on other lifecycle resources leveraging the OSLC linking data
- Reports can also include design comments

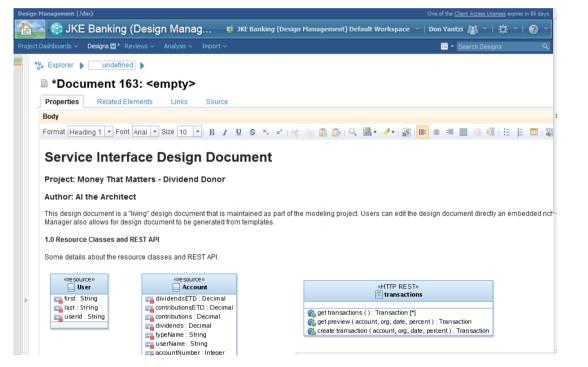
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### **Document Your Designs**

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### • Generate documents from templates

- Author templates with RPE Document Studio
- Configure and generate documents from templates in Design Manager
- Create living design documents
  - Rich text documents with embedded design links
  - Add to any design project
  - Keep current as designs change
  - Editable from the Web client
  - All the features of Design Management: linking, change control, searching, commenting, and design reviews







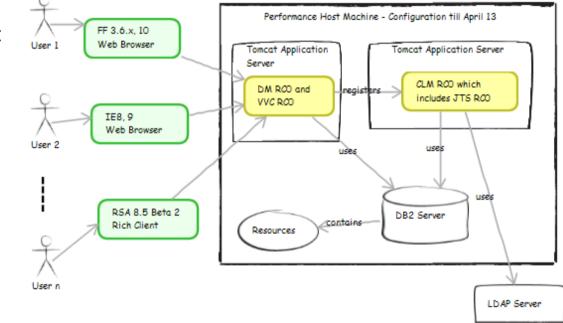
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### **Design Sketching**

Quickly capture and collaborate on ideas

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- Sketches are simple, independent diagrams
- Add to any design project
- Editable from the Web client
- All the features of Design Management: linking, change control, searching, commenting, and design reviews

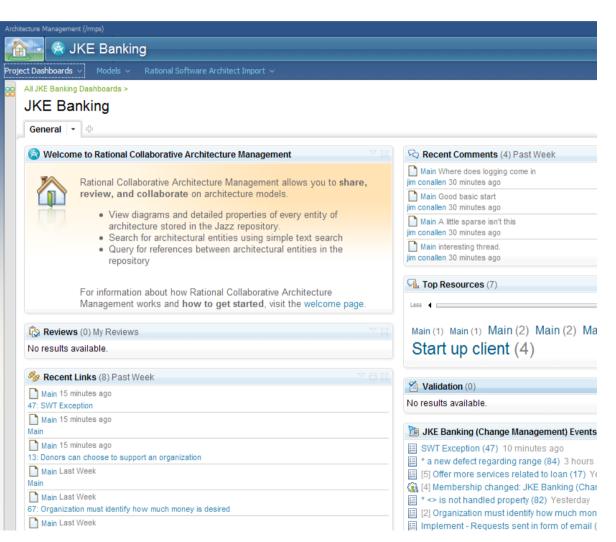






### Dashboards

- Design Manager supports standard Jazz dashboards
- Provides an easy way to stay on top of ongoing activities
- Dashboard widgets
  - Recent Links
  - Reviews
  - Most Comments
  - Recent Comments
  - Validation
- Mix and match Design Manager widgets with widgets from RTC, RRC, or RQM
- Mini Dashboard provides quick access to dashboard from any location



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<b>Collaborative Design Man</b>	agement Use	r Roles						
Rhapsody Design Manager 4.0								
Mapsouy Design Manager 4.0	Design Reviewer	Contributor	Design Manager					
Rational Team Concert	For extended team members who need to access models and designs	For extended team members who need to access to design and also change and configuration management	For design practitioners using Rhapsody to create models and designs					
View and search designs	1	•						
View and create design links		Contraction of Society and So						
Impact analysis diagram Dashboards	•	Nacacacacacacagyacacacacacacacacacacacaca						
Generate Documents (reports)	✓	na an a	✓ ·					
Create, update modify work items			the second s					
Report Customization		▲	4					
Planning: agile, formal, hybrid		a a a a a a a a a a a a a a a a a a a						
Setup Design Reviews			×					
Import designs (including Mathworks Simulink)			· · · · · · · · · · · · · · · · · · ·					
Write Access to Design Resources			1					
Design Workspace Management			an a					
Edit Design Documents			√					
Create Sketches			an a					
Create design baselines			√					

Rhapsody Contributor is the same functionality as CLM Contributor license capabilities, i.e. Rational Team Concert Contributor,

Contributor and Design Manager are user based roles that are available for both Rational Rhapsody Design Manager and Rational Software Architect Design Manager. Design Reviewer is only available with Rational Rhapsody Design Manager

### **Collaborative Design Management Offerings**

- ✓ Rhapsody Design Manager provides Collaborative Design Management for the Rational Rhapsody Family
- Extends Rhapsody's existing design authoring capabilities with enhanced team collaboration
- ✓ Connects Rhapsody into the Jazz platform, so teams can collaborate in the context of designs
- Team capability offered through Design Manager and Design Reviewer user roles
- ✓ Users access through either Web client or desktop client with Design Management client installed



"We are excited about the capabilities in Collaborative Design Management .... We see it playing a significant role in our development process because it allows us to transition away from our home grown solutions in that area to standardized Rational products."

Hans-Peter Berger, Department Head, Application Development Infrastructure, GAD

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### Get Involved on Jazz.net

jazz.net/products/design-management/

- Technology initiative to...
  - Bring design management capabilities to Jazz
  - Provide a collection of design management services that can be used by any design tool
  - Involve the community in defining the services needed for design management
- You can participate
  - ✓ <u>Learn more</u>
  - ✓ Register on jazz.net
  - ✓ Download and try it out
  - ✓ Ask questions and give feedback
  - ✓ <u>View plans and dashboards</u>
  - ✓ <u>Report defects and request</u> <u>enhancements</u>



Features >

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### Resources

- Rhapsody Product Page
- Rhapsody Design Manager
  - Rhapsody Design Manager product page
  - developerWorks or YouTube demo
  - Webcast: Collaborative Design Management Powered by Jazz

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- Rhapsody Design Manager Solution Brief
- Design Management on Jazz.net







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