

IBM Rational DOORS y DOORS Web Access: estrategia y novedades

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Contenido

- Estrategia IBM Rational en el área de Gestión de Requisitos
- Novedades IBM Rational DOORS
- Introducción a IBM Rational DOORS Web Access (DWA)
- Uso de IBM Rational DOORS para el cumplimiento de estándares
- Demostración IBM Rational DOORS e IBM Rational DOORS Web Access

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Rational requirements management product portfolio

Rational DOORS

Powerful requirements traceability to help teams align their efforts with business needs

Multi-level impact reports highlight everything that will likely be affected by the next change

Rational RequisitePro

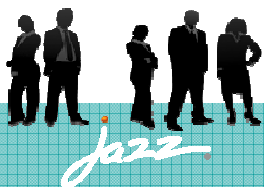
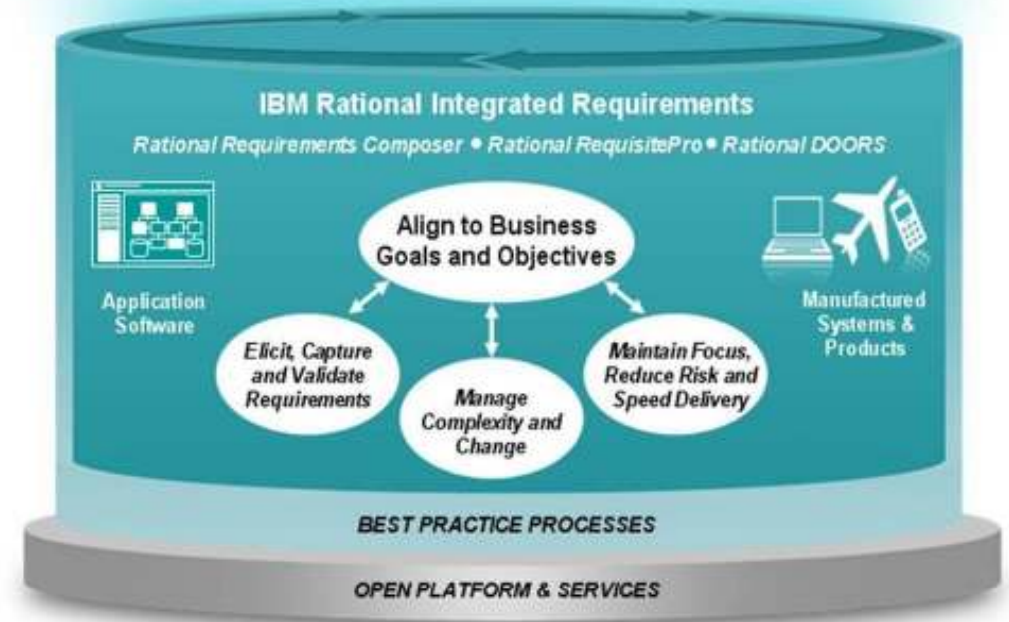
Write good use cases, improve requirements traceability and know when requirements change

Avoid rework and duplication using advanced, real-time integration with Microsoft® Word

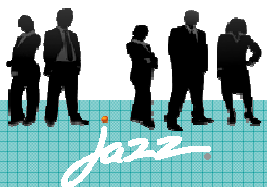
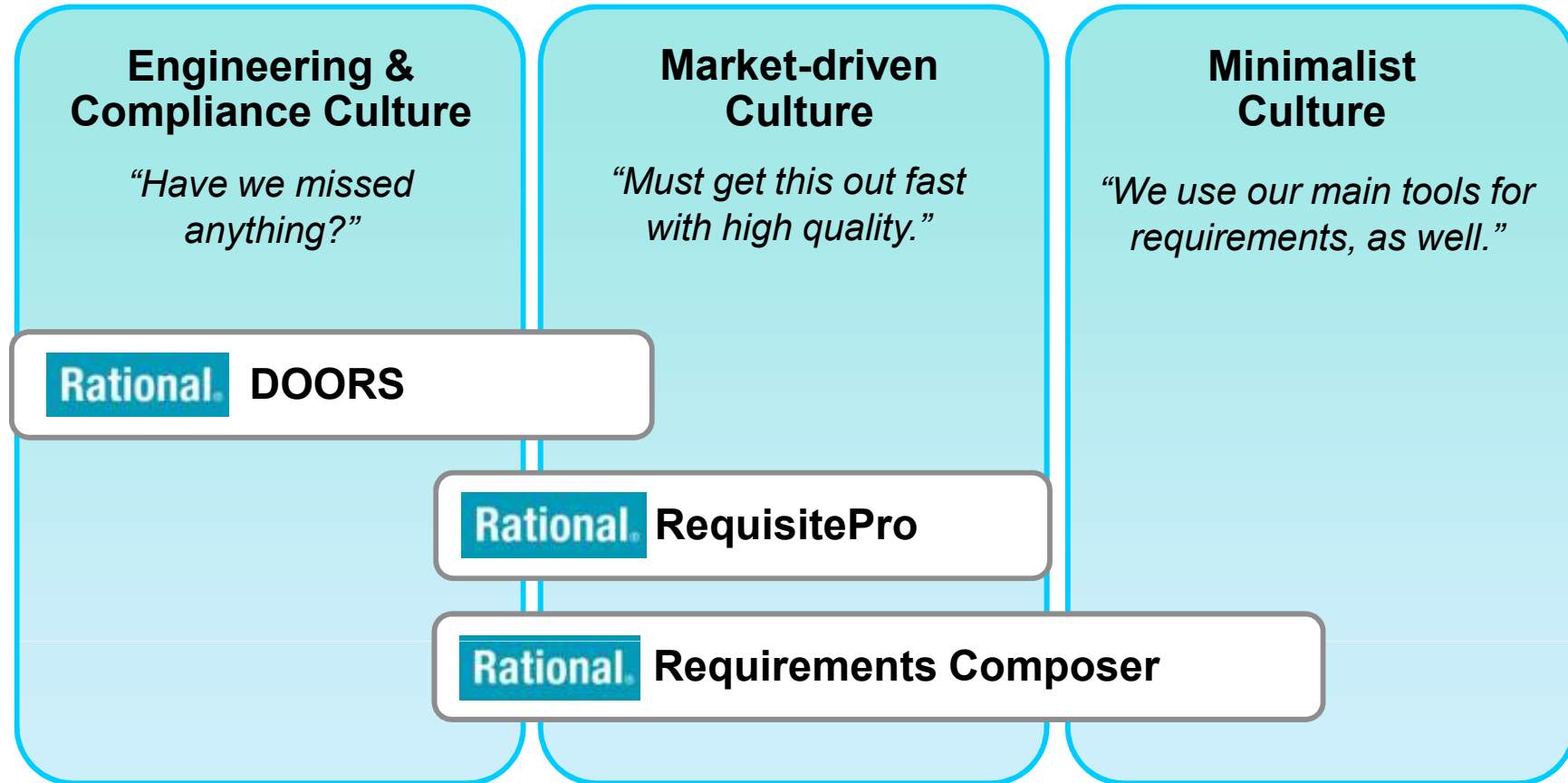
Rational Requirements Composer

Define requirements more effectively and use them efficiently across the project lifecycle

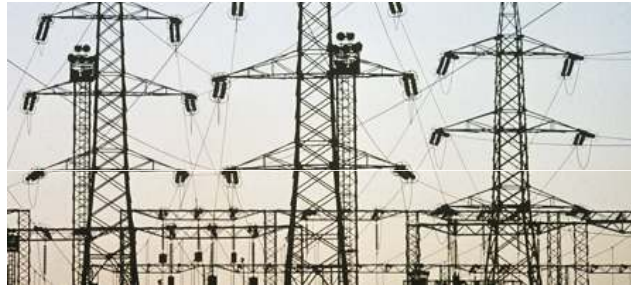
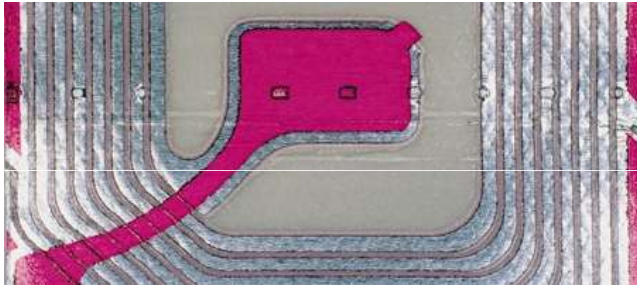
Foster agility and predictability with light-weight requirements practices



Addressing various cultures

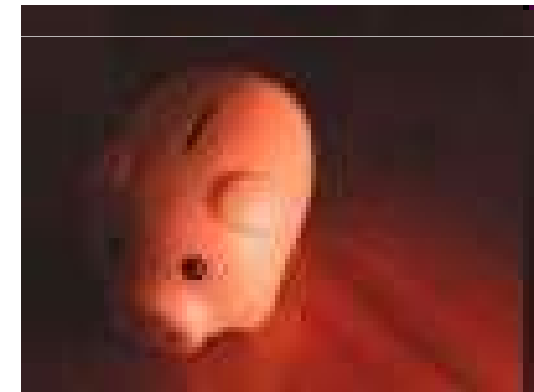


Engineering & Compliance Driven Cultures



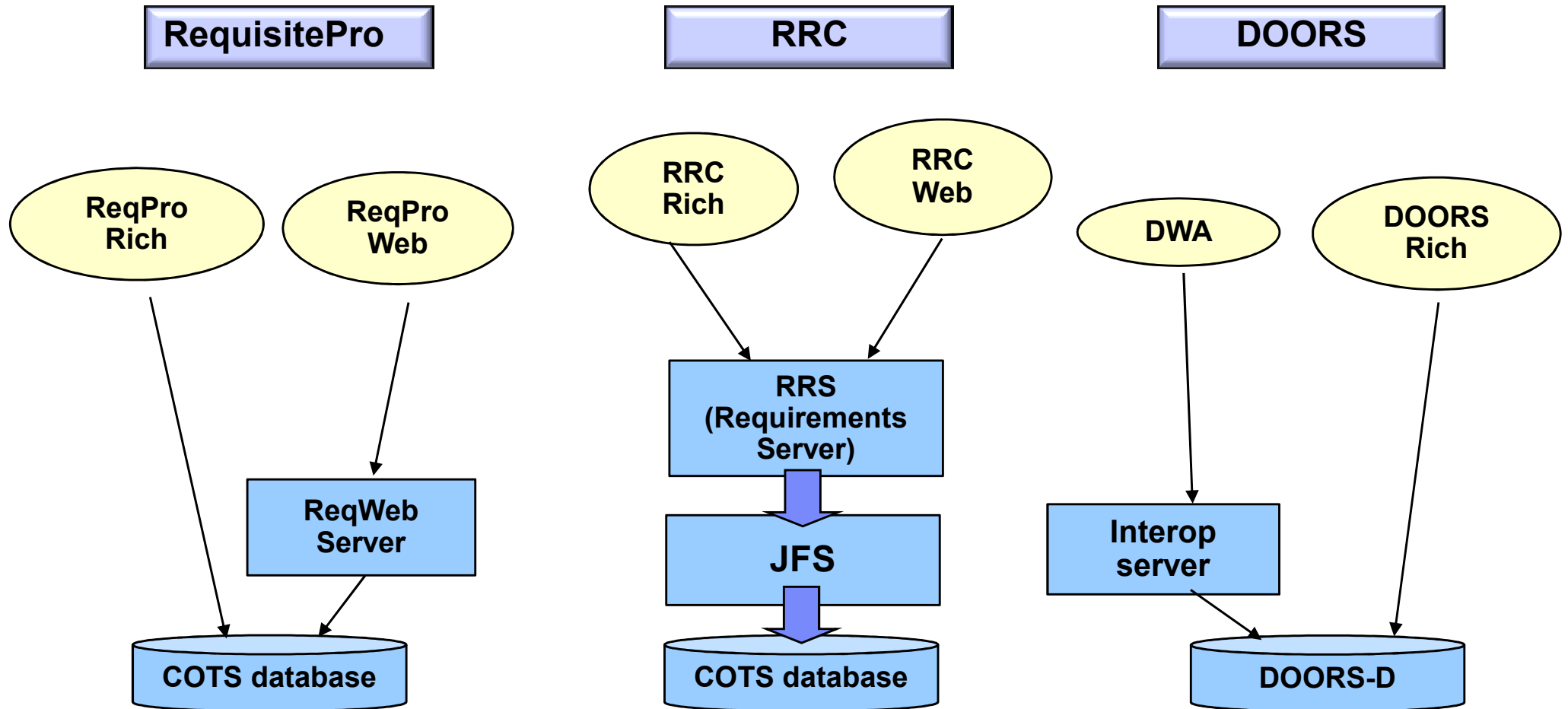
- Automotive
- Aerospace
- Defence
- Power Generation
- Medical Devices
- Network Equipment Providers
- Travel and Transport
- Energy and Utilities
- Government
- Consumer Electronics

Market-Driven and Minimalist Cultures



- Consumer Electronics
- Finance, Banking, Insurance
- Websites
- IT Business Infrastructure
- Retail

Today's High-level Architecture



Three separate products

Three separate repositories

Vision: Long-term Product Portfolio

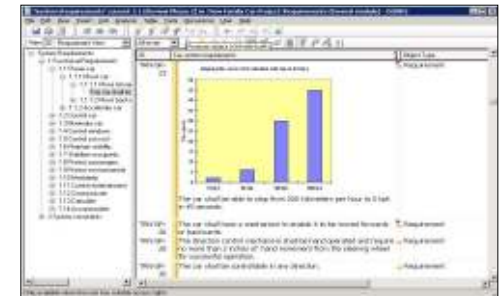
Requirements Composer

For Market-Driven and Minimalist Cultures



DOORS Next

For Engineering and Compliance Cultures



Web Client

Web Client

DOORS Rich Client



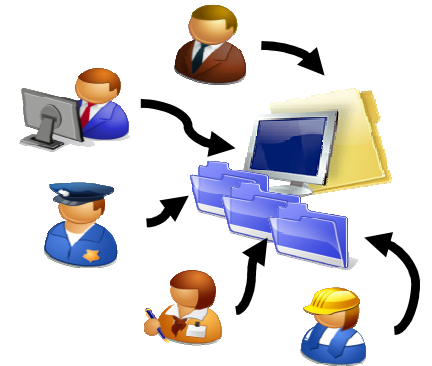
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IBM Rational DOORS

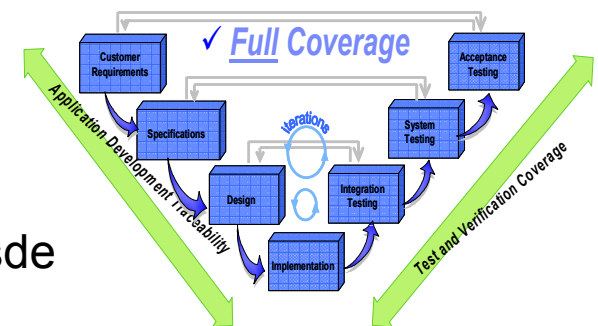
■ *Plataforma gestión de requisitos*

- Repositorio centralizado que permite, organizar, estructurar, trazar y gestionar los requisitos del producto durante todo el ciclo de vida para todas las disciplinas.
- Acceso controlado. Cliente web y el cliente desktop
- Entorno de trabajo sencillo e intuitivo.
- Navegación y visualización de requisitos en contexto
- Requisitos gestionados individualmente



■ *Trazabilidad para compliance y cumplimiento normativas*

- Establecimiento de relaciones con un simple drag&drop
- Informes dinámicos y actualizados de trazabilidad en una única vista. Imprimibles en múltiples formatos.
- Análisis de cobertura mediante filtros
- Control de los procesos de desarrollo/construcción y pruebas desde los requisitos



■ *Análisis de impacto*

- Análisis del impacto de cambios, seguimiento del estado de los cambios, notificación inmediata de cambios en requisitos asociados.

■ *Flexibilidad*

- Fácil implementación de cualquier proceso de desarrollo

Open Services for Lifecycle Collaboration

An initiative aimed at simplifying tool integration across the software delivery lifecycle

Open Services for Lifecycle Collaboration

Barriers to sharing resources and assets across the software lifecycle

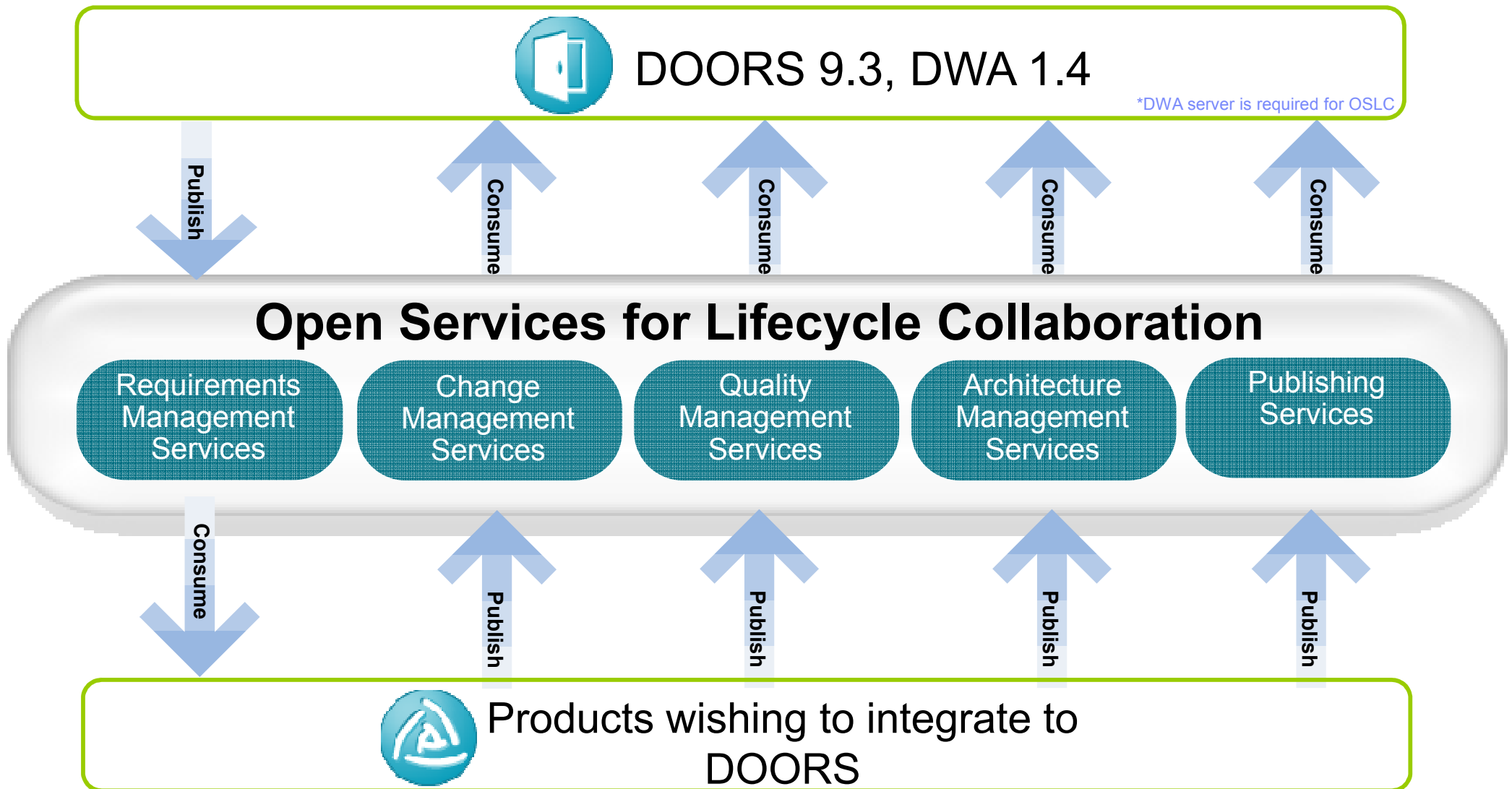
- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores
- ▶ Entanglement of tools with their data

- ▶ Community Driven
 - ▶ specified at **open-services.net**
- ▶ Specifications for ALM Interoperability
- ▶ Inspired by Internet architecture
 - Loosely coupled integration with “just enough” standardization
 - Common resource formats and services
- ▶ A different approach to industry-wide proliferation

Please visit www.open-services.net

Implementing "OSLC"

Producing a generic integration framework



DOORS requirement from other tool

- A user integrating with OSLC to DOORS can use rich hover functionality to see the requirements information inside the other tool:

The screenshot shows a hover tooltip for a requirement. The title is "URD-21233: The car shall have a six-speed manual gearbox." The tooltip is divided into several sections: "Object Identifier" (URD-21233), "Module" (User Requirements Document), "Created On" (08 February 2010) and "Last Modified On" (14 March 2010), "Created By" (Martin Henderson) and "Last Modified By" (Martin Henderson), "Attributes" (Object Heading: Lorem ipsum et duo paulo nusquam eleifend, his animal inermis intellegebat ex. Sit ex recteque corrumpit, mel ea vocibus posidonium. No pri lobortis tincidunt. Eu duo etiam facilisis, aequae patrioque ea vim.), "Object Text" (<read-denied>), "Object Short Text" (<empty>), and "Links" (DOORS Out-Links (2) and DOORS In-Links (7)).

Object Identifier:	URD-21233		
Module:	User Requirements Document		
Created On:	08 February 2010	Last Modified On:	14 March 2010
Created By:	Martin Henderson	Last Modified By:	Martin Henderson
Attributes			
Object Heading:	Lorem ipsum et duo paulo nusquam eleifend, his animal inermis intellegebat ex. Sit ex recteque corrumpit, mel ea vocibus posidonium. No pri lobortis tincidunt. Eu duo etiam facilisis, aequae patrioque ea vim.		
Object Text:	<read-denied>		
Object Short Text:	<empty>		
Links			
▶ DOORS Out-Links (2)		◀ DOORS In-Links (7)	

e.g. DOORS requirements being displayed inside of RTC

Associated development task from DOORS

- A user integrating with OSLC from DOORS can use rich hover functionality to see information from the other system inside of DOORS:

The screenshot shows a task detail window titled "Task 9326: Add alignment/snap-to guides". The task is in a "Triaged" status. The summary is "Add alignment/snap-to guides". The details section includes:

- Type: Task
- Filed Against: RRC Client/Sketching/UI
- Tags: usability, ux3, ux2.0priority, ipscrub
- Owned By: Unassigned
- Team Area: Sketching & Text / Rational Requirements Composer
- Priority: Medium
- Planned For: 2.0 Release
- Estimate: Unassigned
- Time Spent: Unassigned
- Due Date: Unassigned
- Creation Date: June 27, 2008 11:37 AM
- Created By: Kirk Grotjohn
- Severity: Normal
- Found In: 2.0 M2

Quick Information section shows:

- Attachments (1): 2307
- Subscribers (2): KG, RB
- Related (1): 761
- Mentions (1)

A "Show More" link is visible at the bottom of the task details.

e.g. RTC task being displayed inside of DOORS

Generic CM integration

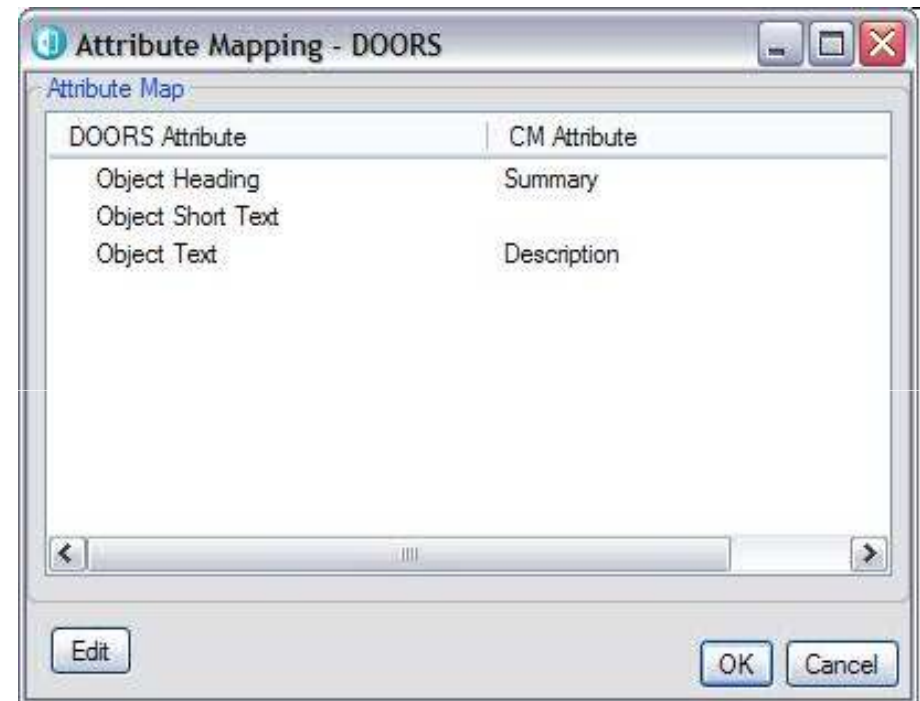
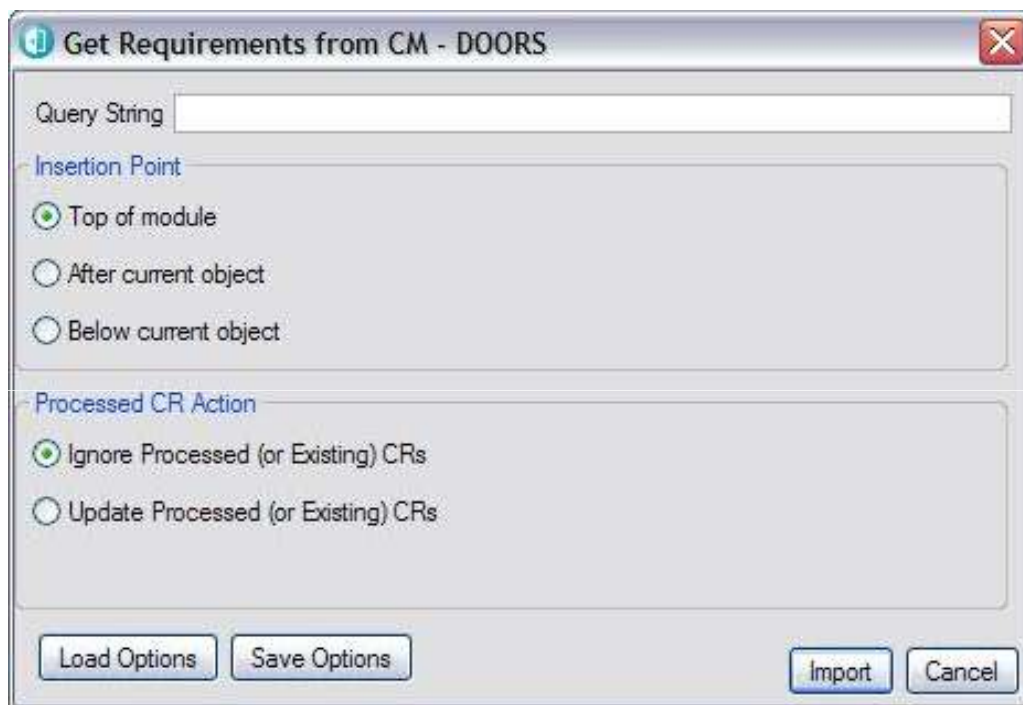
- Integrations to Change, ClearQuest and RTC that have functional parity
 - Convert existing DOORS-Change interface to be generic
 - Develop to support OSLC as much as possible
 - Supply as part of the DOORS install and offering

- What do we get?
 - Requirement/Change Request traceability
 - **Stakeholder requirements submission:** Generation of draft requirements based on enhancements submitted through their Change Management system
 - **Requirements driven development:** Create implementation requests from requirements and monitor development progress alongside the requirements
 - **Requirement defect tracking:** Associate a defect with a requirement to investigate a possible change to the requirement
 - **Requirements Change Management**
 - Manage the change process of DOORS requirements



Requirements Gathering

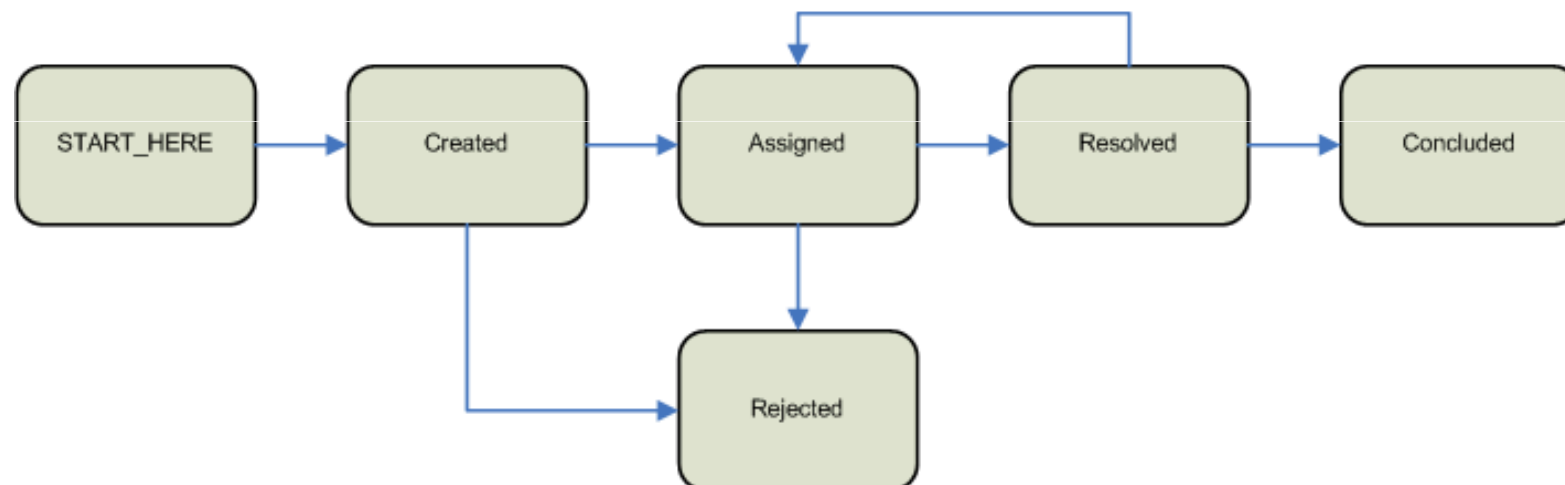
- Allows you to import change requests/work items into DOORS to use as the basis for a new module
- Will work with any lifecycle/process/schema



Requirements Implementation

- Uses any lifecycle defined in CQ, RTC, or Change
- Provides traceability from requirements to change request/work item to code
- Sample lifecycle provided with Change

Requirements Implementation Lifecycle



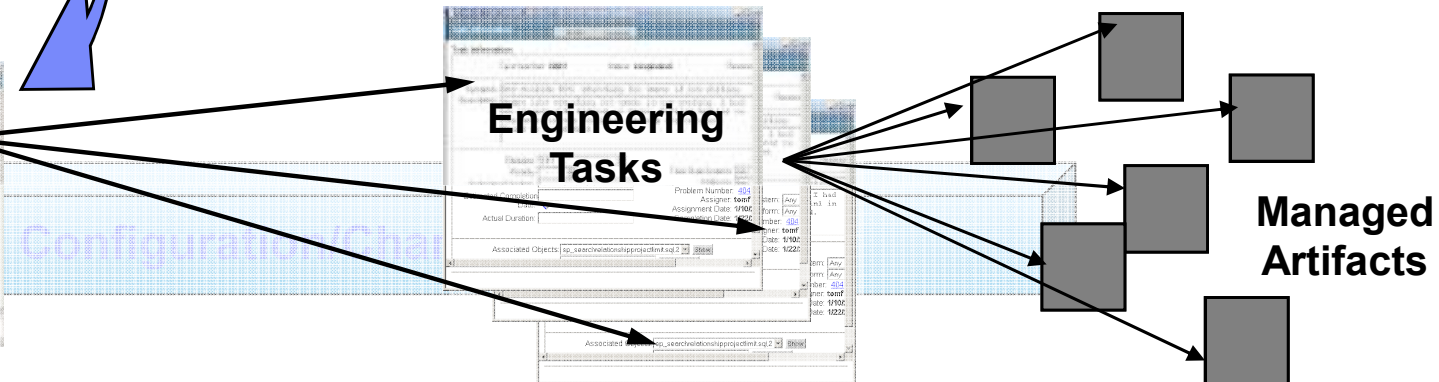
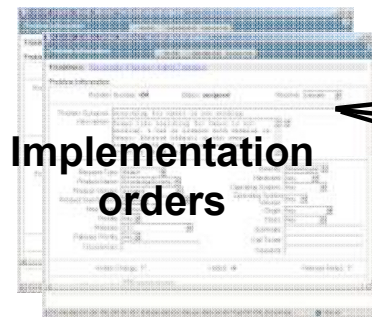
Requirement/Change Request traceability

1) DOORS



- Requirements link to implementation orders
- Defects to be associated with requirements to investigate changes

2) CM Tool

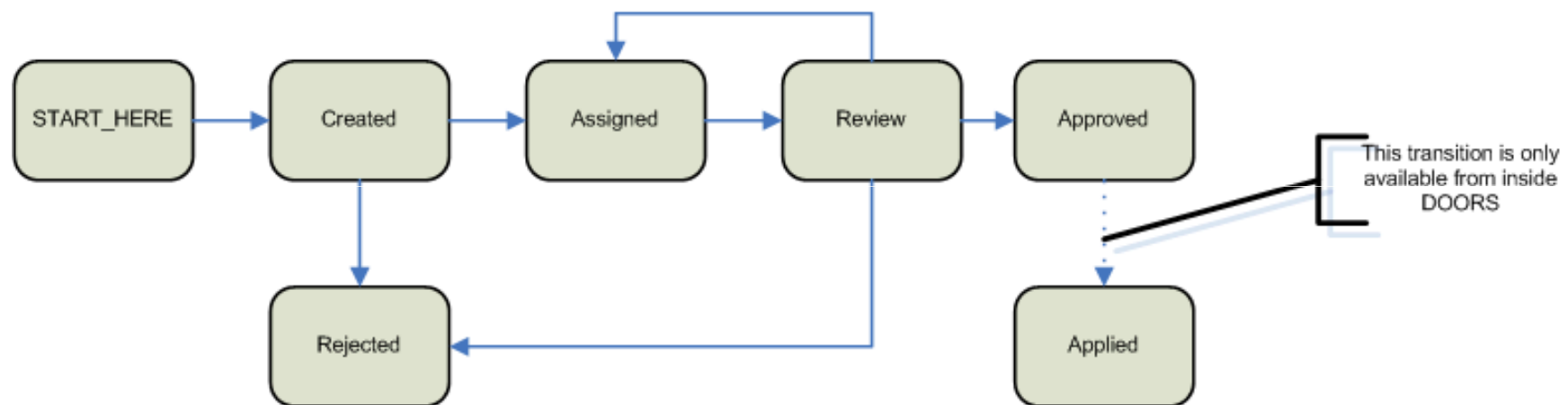


Traceability of actual activities, not just data – better impact analyses

Requirements Change Management

- Requirements Change Request lifecycle
- Force changes to a DOORS module to go through a process in the CM tool

Requirements Change Request Lifecycle



Enhanced built in document generation

- DOORS 9.3 provides an additional mechanism for document generation
 - Built in addition to existing functions
 - Support for Word, HTML and direct PDF generation
 - Documents provided based on DOORS views
 - Continue to support both book and table layout templates
 - Generated documents can be tailored for company needs
 - Making use of common IBM technology
 - Can be upgraded to Rational Publishing Engine



Example document generation, Table layout

The screenshot shows a Microsoft Word window titled "User Requirements.doc". The document content includes a header with a colorful icon and the text "Configurable header and Icon", followed by the main title "User Requirements" and a subtitle "E - Basic view with attribute". A table of contents is displayed on the right side of the document, listing sections such as "1 Requirements", "1.1 Capability Requirements", and "1.1.1 Carrying Capacity". The status bar at the bottom indicates "Page 1 Sec 1 1/14 At 8.2cm Ln 2 Col 30 REC TRK".

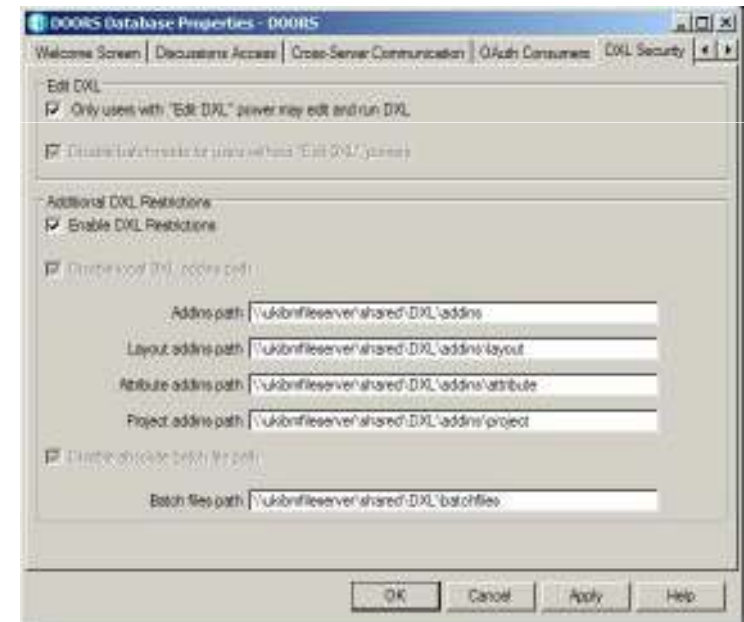
Obj id	User requirements for SUV 4x2	Test Method
SOW 11	1 Requirements	
SOW 429	After systems requirements review, all changes will be formal. No direct edits will be permitted.	No Verification Needed
SOW 12	The following table shows a count of priority types.	No Verification Needed
SOW 13	1.1 Capability Requirements	
SOW 14	1.1.1 Carrying Capacity	
SOW 15	1.1.1.1 Number of People	Test
SOW 17	Four average size adults shall be able to travel in comfort for a period of 3 hours. This level of comfort is defined as being equivalent to the standard of comfort provided by the top 40% of cars produced in 1999.	Analysis
SOW 18	The top level of cars are those in the price range \$20,000 to \$40,000 at 1999 prices.	Inspection
SOW 19	Five average size adults shall be able to travel in comfort for a period of 3 hours.....	Inspection
SOW 21	Users shall have easy entry and exit.	Demonstration

Page 4 of 14	Created by: IBM Rational DOORS 9.3	/Sports utility vehicle 4x2/Requirements/User Requirements
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- Built with standard templates
- Supporting Word, HTML and direct PDF

Responding to higher security demands on IT systems

- Support for stronger security communication between DOORS product components. DOORS now provides support for SSL communications between client and server
 - Protocol used: Transport Layer Security (TLS) version 1.0
 - Certificates based on PKI technology
- Log in to DOORS using digital keys.
 - Support for authentication using “smart cards”
 - Automatic log in to DOORS with your company ID card
 - Expected soon: Authentication into DOORS using US DoD CAC cards
- Protect DOORS deployments by governance over which DXL is executed



Support for Different Cultural Groups

- Introduced in previous releases
 - Chinese (Simplified)
 - Japanese
- DOORS 9.3.0.2
 - German*
 - French
 - Russian
 - Chinese (Traditional)
 - Korean
 - Italian
 - Brazilian (Portuguese)
 - Spanish

▶ The provision of Unicode DOORS has supports almost all written languages since DOORS 8.0

▶ Reduce requirements error with language dictionaries supporting 19 different languages

*German support was introduced in 9.2.0.5 and DWA 1.3.0.2

The image shows a stack of Rational DOORS application windows, each displaying the same content in a different language. From top to bottom, the windows are:

- Simplified Chinese:** 新建项目 中的“新建模块”当前 0.0(正式 模块) - DOORS
- Japanese:** '新規モジュール' / 新規プロジェクト / 新規フォルダー 内の現行 0.0 (フォーマル モジュール) - DOORS
- French:** 'Nouveau module' en cours 0.0 dans /Nouveau projet (module Formel) - DOORS
- Russian:** 'Новый модуль' текущий 0.0 в /zzzzz (модуль Формальный) - DOORS
- German:** 'Lastenheft' aktuell 0.0 in /Digitalkamera Projekt 1 (Formal Modul) - DOORS

The German window shows a table of requirements and an image of a camera:

ID	1 Ausgangssituation und Zielsetzung
LH-5	3 Funktionale Anforderungen
LH-6	3.1 Auflösung
LH-7	Die Auflösung soll mehr als 10 Megapixel betragen.
LH-8	Die Kamera soll eine Auflösung von mehr als 2.045 x 1.536 Bildpunkte zulassen.
LH-9	Die Farbtiefe soll mindestens 24 Bit mit 16,7 Millionen Farben sein.
LH-10	Die Empfindlichkeit soll automatisch von ISO 100 - 400 reichen.
LH-11	Die Empfindlichkeit soll manuell eingestellt werden können.
LH-12	3.2 Speicherung
LH-13	Die Digitalkamera soll ein Wechselspeichermedium enthalten.
LH-14	Die Kamera soll die kompatibel zu CompactFlash Typ I, CompactFlash Typ II und Microdrive sein. Das Dateiformat soll JPEG (.jpg) oder ein unkomprimiertes Format sein.
LH-15	3.3 Gehäuse
LH-16	Das Gehäuse soll robust sein.
LH-17	Die Kamera soll ein Display auf der Kamerarückseite haben.
LH-18	Die Kamera soll auf einem Fotostativ befestigt werden können.
LH-19	

Below the table is an image of a camera with a 'FocusLock' button highlighted.

A yellow callout box on the right side of the image contains the following text:

- Menus
- Tool Tips
- Help
- Welcome Page

Eclipse based Help System

- Improved searching
 - Search within topics
- Intuitively manage bookmarks
- Improved navigation
- Stronger printing
- View in an external browser
- Access from IBM support site
 - “Info centre”
 - Submit feedback on content
 - Links to IBM resources, Support, Training, etc.



Changes to Licensing Mechanism

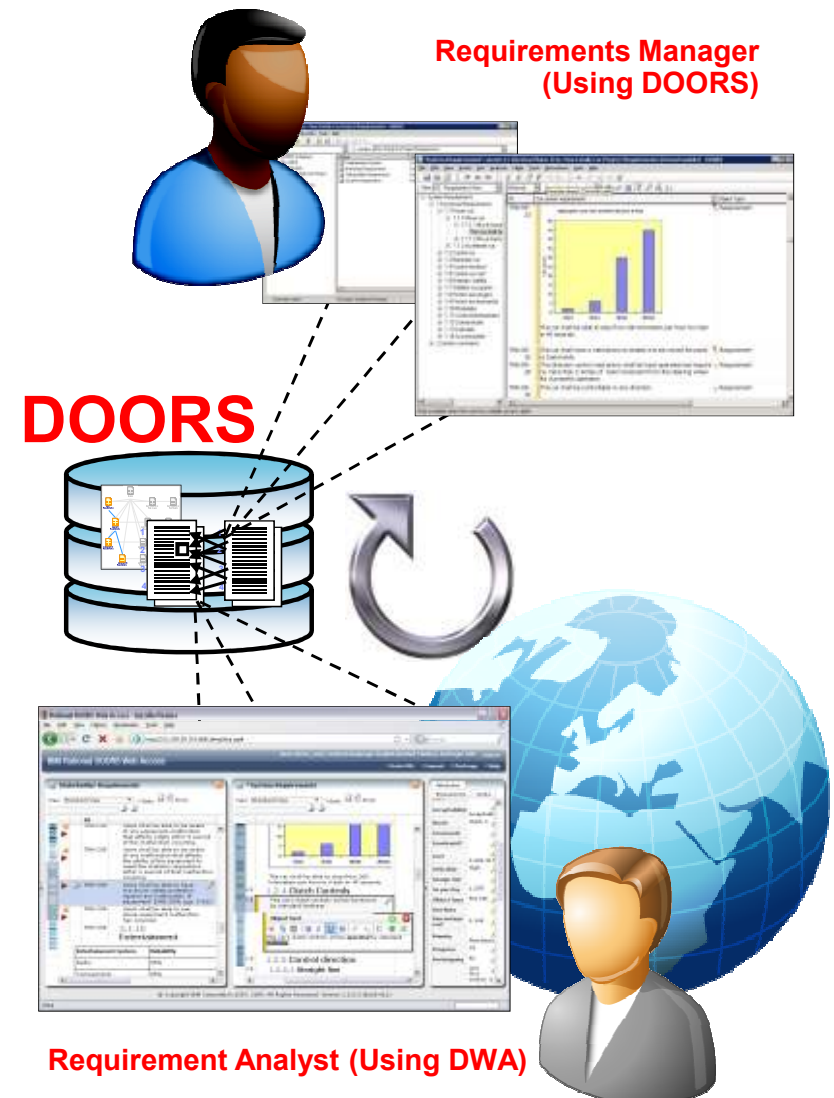
- DOORS 9.3 provides licensing on a per installation basis. Each computer running DOORS can run as many instances of DOORS with a single license
 - Excludes Citrix or Microsoft Terminal server
- DOORS Web Access supports two different “user roles”, Review and Edit
- Differences for DOORS Web Access 1.4
 - DWA now able to consume a full DOORS license where no DWA license is found
 - Needed where RM OSLC is being used to select or view requirements from systems integrating to DOORS

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IBM Rational DOORS Web Access (DWA)

- Requirements **Reviewer**
 - Requirements reviewers have real time access to read and analyze requirements held in DOORS
 - Reviewers provide direct feedback on requirements/modules using DOORS discussions
 - Distribute real time requirements to extended project members (testers, suppliers, marketing)
- Requirements **Editor**
 - Requirements editors will have automatic shared access to requirements held in DOORS
 - Engineers/developers make changes to existing requirements/attributes managed in DOORS
 - Modification is permitted for existing requirements and attributes
 - Modifications are automatically saved and committed to the DOORS database



The DOORS Web Access Browser Environment

The screenshot shows the Rational DOORS Web Access interface in a Mozilla Firefox browser. The browser address bar shows the URL `http://localhost:8080/dwa/welcome/welcome.jsp`. The main interface has a blue header with the text "Rational DOORS Web Access" and "Administrator | Package: Review | Log Out | ?".

On the left, there is a "Login to Rational DOORS Web Access" form with fields for "Database: DOORS ERS Re", "Username:", and "Password:". Below the form is a "Change Password" link and a "Visit our website" section with an "Open" button. A red dashed box highlights this area with the text "Customizable User Welcome Screen".

The central part of the interface features a "Stakeholder Requirements" table with columns for "Id" and "Text". The table contains several rows of requirements, including "3.1.11 Servicing" and "3.1.12 Indication requirements". A red dashed box highlights the top right of the interface with the text "Rich web environment for requirements review and edit".

At the bottom right, there is a sidebar with "Attributes" and "Discussions" tabs. The "Discussions" tab is active, showing a "Links" section with "-User" and "Object Heading" sections. The "Object Text" section contains a detailed description of a roof rack. The "Object Short Text" section contains a summary of the roof rack's weight and location. The "Acceptability" section shows "Not checked" and "Check 1" checked. The "Comments" section is empty.

The IBM logo is visible in the bottom left corner of the interface, and the Rational. software logo is in the bottom right corner.

Edit Requirements Through DOORS Web Access

The screenshot displays the Rational DOORS Web Access interface in a Mozilla Firefox browser window. The browser address bar shows the URL `http://localhost:8080/dwa/`. The application header includes the title "Rational DOORS Web Access" and user information: "Administrator | Package: Edit | Log Out | ?".

The main interface is divided into several sections:

- Left Panel:** A tree view of the "DOORS Database" showing a project structure under "Training Car Project", including "Stakeholder Requirements". Below this are "Recent Items" and "Favorites" sections.
- Center Panel:** A table titled "*Stakeholder Requirements" with columns for "Id" and "Text". It shows a list of requirements, including CSR77 through CSR85. Requirement CSR83 is highlighted, and its details are shown in a pop-up window. The pop-up includes a rich text editor for the "Object Text" field, which contains the text: "Users shall be able to travel 25000 Kilometers without the need for vehicle servicing." The editor has a toolbar with bold, italic, underline, strikethrough, bulleted list, and numbered list icons.
- Right Panel:** A "Package" details panel for the selected requirement. It shows various attributes such as "Acceptability" (Not checked), "Check" (check 1), "Cost" (2,486.245), "Criticality", "Design risk", "Link 1", "No per day" (5), "Out-links", "Percentage cost" (0.158), and "Priority" (Mandatory). Each attribute has an edit icon.

The IBM logo is visible in the bottom left corner, and the Rational software logo is in the bottom right corner. A status bar at the very bottom indicates "Transferring data from localhost..."

Create, copy and move requirements

The screenshot shows the Rational DOORS Web Access interface in a Mozilla Firefox browser. The main window displays a table of Stakeholder Requirements. A context menu is open over the row for requirement CSR81, showing options like 'Edit Object Text', 'Create', 'Links', 'Copy', 'Move', and 'Delete'. The 'Create' option is expanded, showing sub-options: 'New Object After', 'New Object Below', and 'New Object Before'.

Id	Description
CSR77	Users shall be able to have cassette tape output within the vehicle. [EIA-IS-25, pg. 3]
CSR78	Users shall be able to use a telephone within the car.
CSR79	3.1.10 Maintenance
CSR80	Users shall not have to carry out any maintenance between services.
CSR81	Users shall not have to add any additional media, other than fuel, to the vehicle between services, i.e., no addition of oil or water.
CSR82	3.1.11 Servicing
CSR83	CHANGE Users shall be able to travel 25000 Kilometers without the need for vehicle servicing.
CSR84	Users shall be able to receive a warning when a service is due.
CSR85	3.1.12 Indication requirements
CSR86	The user shall be able to see at all times an indication of speed to within + or - 1%.
CSR87	The user shall be able to see at all times an indication of engine revolutions to within + or - 1%.
CSR88	The user shall be able to see at all times an indication remaining fuel.

Working with links: creation & navigation

The screenshot displays the Rational DOORS Web Access interface in a Mozilla Firefox browser window. The main content area shows a table of Stakeholder Requirements with columns for Id, Title, and Description. A modal window is open over requirement MR-14, showing its details.

Id	Title	Description
CSR78		
CSR79	3.1.10 Maintenance	Users shall not have to carry out any maintenance between services.
CSR80		
CSR81		Users shall not have to add any add vehicle between services, i.e., no ad
CSR82	3.1.11 Servicing	CHANGE Users shall be able to travel vehicle servicing.
CSR83		Users shall be able to receive a warn
CSR84		
CSR85	3.1.12 Indication require	
CSR86		The user shall be able to see at all t - 1%.
CSR87		The user shall be able to see at all t to within + or - 1%.
CSR88		The user shall be able to see at all t
CSR89		The user shall be able to see user consumption between defined mileage.

MR-14			
Object Identifier:	MR-14		
Module:	Marketing Requirements		
Created On:	March 12, 1994	Last Modified On:	March 12, 1994
Created By:	Bill Young	Last Modified By:	Bill Young
Attributes			
Object Heading:			
Object Text:	The user shall be able to ascertain fuel state.		
Object Short Text:			
Links			
DOORS Out-links (0)	DOORS In-links (1)		

DWA Direct Printing

The screenshot shows a Mozilla Firefox browser window displaying a web application titled "Stakeholder Requirements". The page content includes a table for "3.1.10 Entertainment" and a list of requirements. A print dialog box is open in the foreground, showing the printer "PDFXChange 3.0" and various print options. A printer icon is also visible in the background.

Entertainment System	Reliability	Manufacture	Risk
Radio	85%	Acme	Low
Compact Disk	85%	Acme	Medium
MP3 System	70%	Acme	Medium
Cassette Tape	95%	Acme	Medium

Requirements list:

- TRN-CSR Users shall be able to have stereo radio reception within the vehicle. [EIA-IS-25, p...
- TRN-CSR Users shall be able to have CD output within the vehicle. [EIA-IS-25, pg. 4]
- TRN-CSR Users shall be given R&D entertainment features as developed through research.
- TRN-CSR Users shall be able to use a telephone within the car.
- TRN-CSR **3.1.11 Maintenance**
- TRN-CSR Users shall not have to carry out any maintenance between services.
- TRN-CSR Users shall not have to add anything additional other than fuel, to the vehicle betw...
- TRN-CSR **3.1.12 Servicing**
- TRN-CSR Users shall be able to travel **25000 Kilometers** without the need for vehicle servic...
- TRN-CSR Users shall be able to receive a warning when a service is due.
- TRN-CSR **3.1.13 Indication requirements**

Print Dialog Box:

- Printer: PDFXChange 3.0
- Status: Ready
- Type: PDFXChange 3.0
- Where: PDFXChange
- Print range: All
- Copies: Number of copies: 1
- Print Frames: As laid out on the screen

Discussion Threads

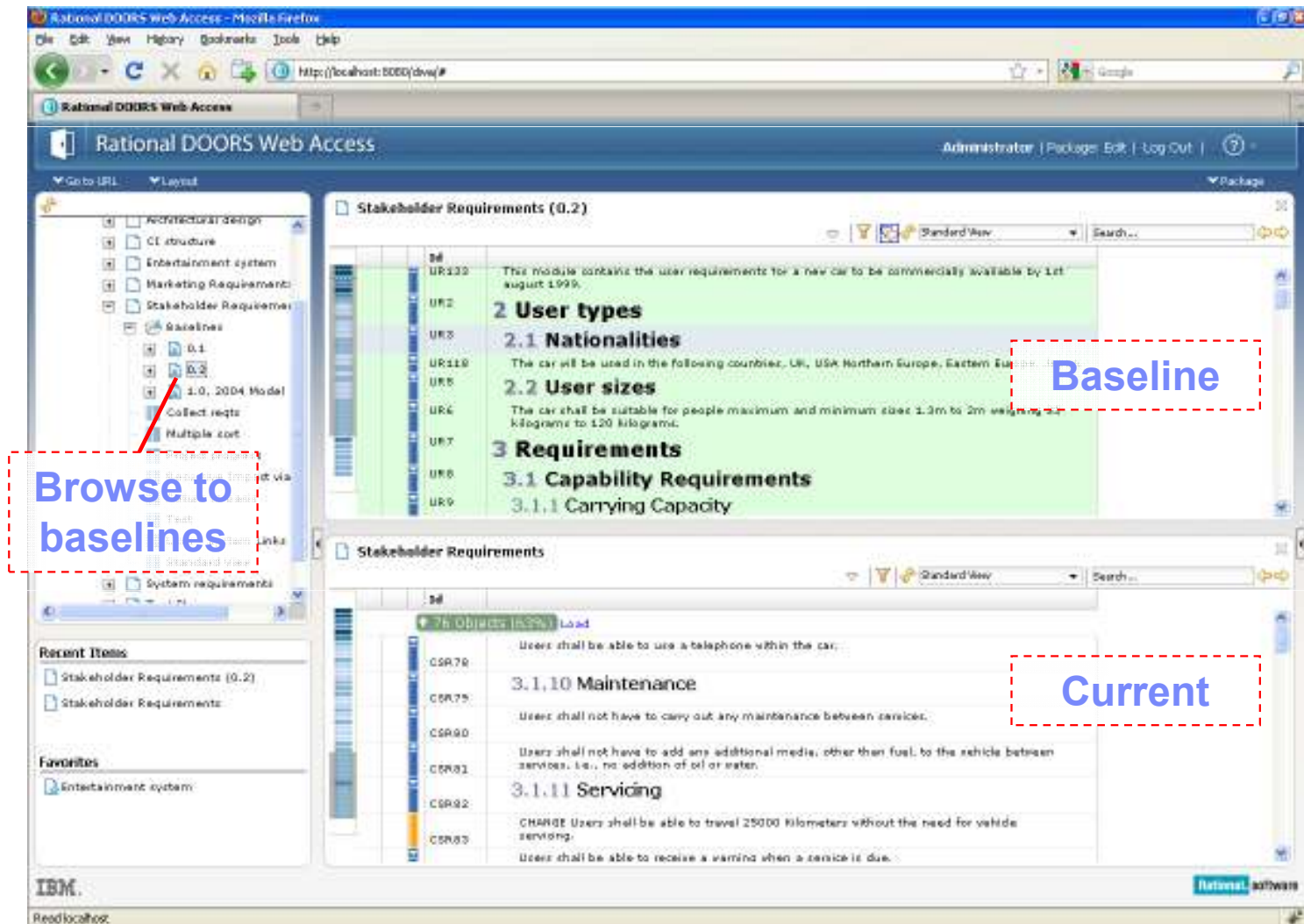
The screenshot shows the Rational DOORS Web Access interface in a Mozilla Firefox browser window. The browser address bar shows 'http://localhost:8080/dwa/#'. The application header includes 'Rational DOORS Web Access' and user information: 'Administrator | Package: Edit | Log Out | ?'. Below the header, there are navigation options like 'Go to URL' and 'Layout'. The main content area is titled 'Stakeholder Requirements' and contains a table with columns for 'Object Identifier', 'Car user requirements', and 'System Requirements'. A red circle highlights a speech bubble icon in the left margin of the table, next to row CSR88. The right sidebar contains a 'Discussion Pane' with tabs for 'Attributes', 'Discussions', and 'Links'. The 'Discussions' tab is active, showing a list of discussions with details like 'Administrator' and '02:44:39 PM'. A red dashed box highlights the 'Discussion Pane' label. A blue callout box at the bottom right says 'Collaborate with all DOORS and DWA users'. The IBM logo is in the bottom left, and 'Rational. software' is in the bottom right. A status bar at the very bottom indicates 'Transferring data from localhost...'.

Object Identifier	Car user requirements	System Requirements
	than fuel, to the vehicle between services, i.e., no addition of oil or water.	
CSR82	3.1.11 Servicing	
CSR83	CHANGE Users shall be able to travel 25000 Kilometers without the need for vehicle servicing.	
CSR84	Users shall be able to receive a warning when a service is due.	
CSR85	3.1.12 Indication requirements	
CSR86	The user shall be able to see at all times an indication of speed to within + or - 1%.	
CSR87	The user shall be able to see at all times an indication of engine revolutions to within + or - 1%.	
CSR88	The user shall be able to see at all times an indication remaining fuel.	MR-4 Sec. #: 1.0-4 The user shall be able to estimate fuel required for journey. MR-14 Sec. #: 2.1.0-1 The user shall be able to ascertain fuel state. MR-86 Sec. #: 3.1.3.3.0-2 The driver shall be able to as of the car at all times.
CSR89	The user shall be able to see current fuel consumption.	MR-86 Sec. #: 3.1.3.3.0-2

Baseline Access

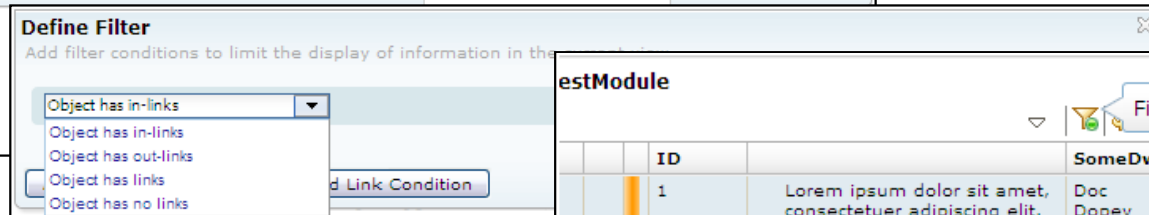
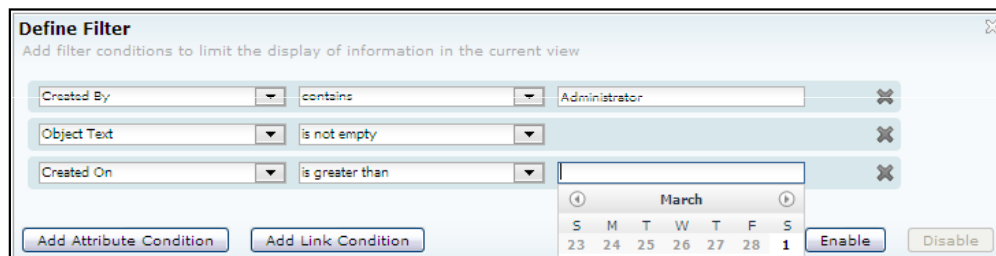
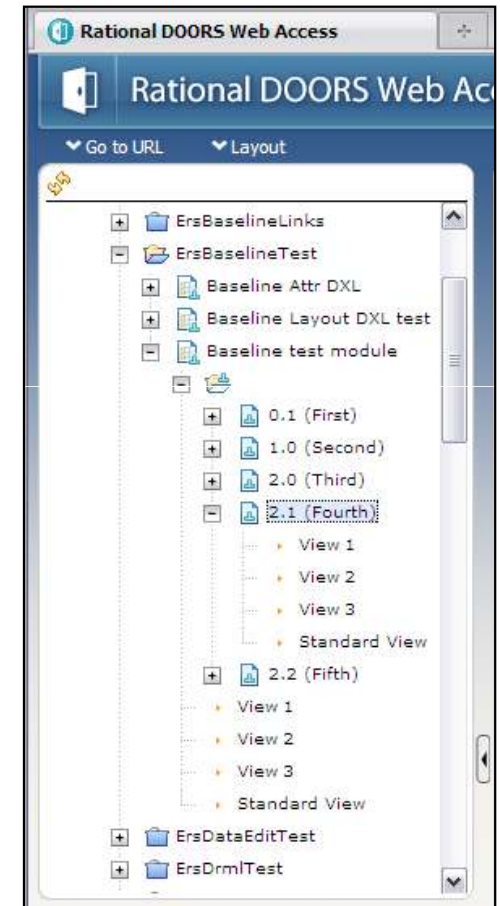
Users are able to:

- View and review baselines
- Continue using discussions against baseline requirements
- Trace important development links
 - View multiple baselines (or current module) side-by-side



DOORS Web Access 1.4

- Provision of RM OSLC services through DWA server
- Improved look and feel
- Possible to “browse” to DOORS module baselines and module views
- Filtering
 - Extended review capability to filter module views based on attribute value and link criteria



estModule

Filtering 6 from a possible 12 (50%)

ID	SomeDwarves	Simple Numbers	Object T
1	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed auctor. Lorem ipsum dolor sit amet, consectetur	Doc Dopey Grumpy	123

Contenido

- Estrategia IBM Rational en el área de Gestión de Requisitos
- Novedades IBM Rational DOORS
- Introducción a IBM Rational DOORS Web Access (DWA)
- **Uso de IBM Rational DOORS para el cumplimiento de estándares**
- Demostración IBM Rational DOORS e IBM Rational DOORS Web Access

Address and prove compliance using DOORS

- Companies are facing a surge of regulations: FDA, DoD, MoD, Sarbanes-Oxley, IEC, ISO...
- Failing to comply with them can have serious consequences, from lost customer trust to lost revenue.
- DOORS can help your company address and prove your compliance with regulations:
 - DOORS traceability capabilities to show how the system under development will address compliance with industry regulations.
 - DOORS logs who changed, what and when.
 - DOORS provides an electronic signature capability
 - DOORS supports role-based access to control who has access to projects, documents, requirements and attributes



DOORS Traceability View

The screenshot displays the DOORS Traceability View for a project titled 'User Requirements' current 1.0 (Issue 1) in /Sub-compact (Formal module) - DOORS. The interface includes a menu bar (File, Edit, View, Insert, Link, Analysis, Table, Tools, User, Help) and a toolbar. The main view is set to 'Full Trace View' with 'All levels' selected. The data is presented in a table with four columns: User Requirements, Functional Requirements, Design, and Test Plan.

ID	User Requirements	Functional Requirements	Design	Test Plan
TRN-CSR-35	3.1.2.3 Stopping			
TRN-CSR-36	Users shall be able to stop safely.	<p>FR-23 The car shall be able to stop from 10 kilometers per hour to 0 kph in 2 seconds.</p> <p>FR-24 The car shall be able to stop from 30 kilometers per hour to 0 kph in 6 seconds.</p>	<p>TRN-AD-48 Disc brakes</p> <p>TRN-AD-48 Disc brakes</p> <p>TRN-AD-48 Disc brakes</p>	<p>TRN-TP-34 High Speed Braking Test</p> <p>TRN-TP-35 Low Speed Braking Test</p> <p>TRN-TP-34 High Speed Braking Test</p> <p>TRN-TP-35 Low Speed Braking Test</p> <p>TRN-TP-34 High Speed Braking Test</p>

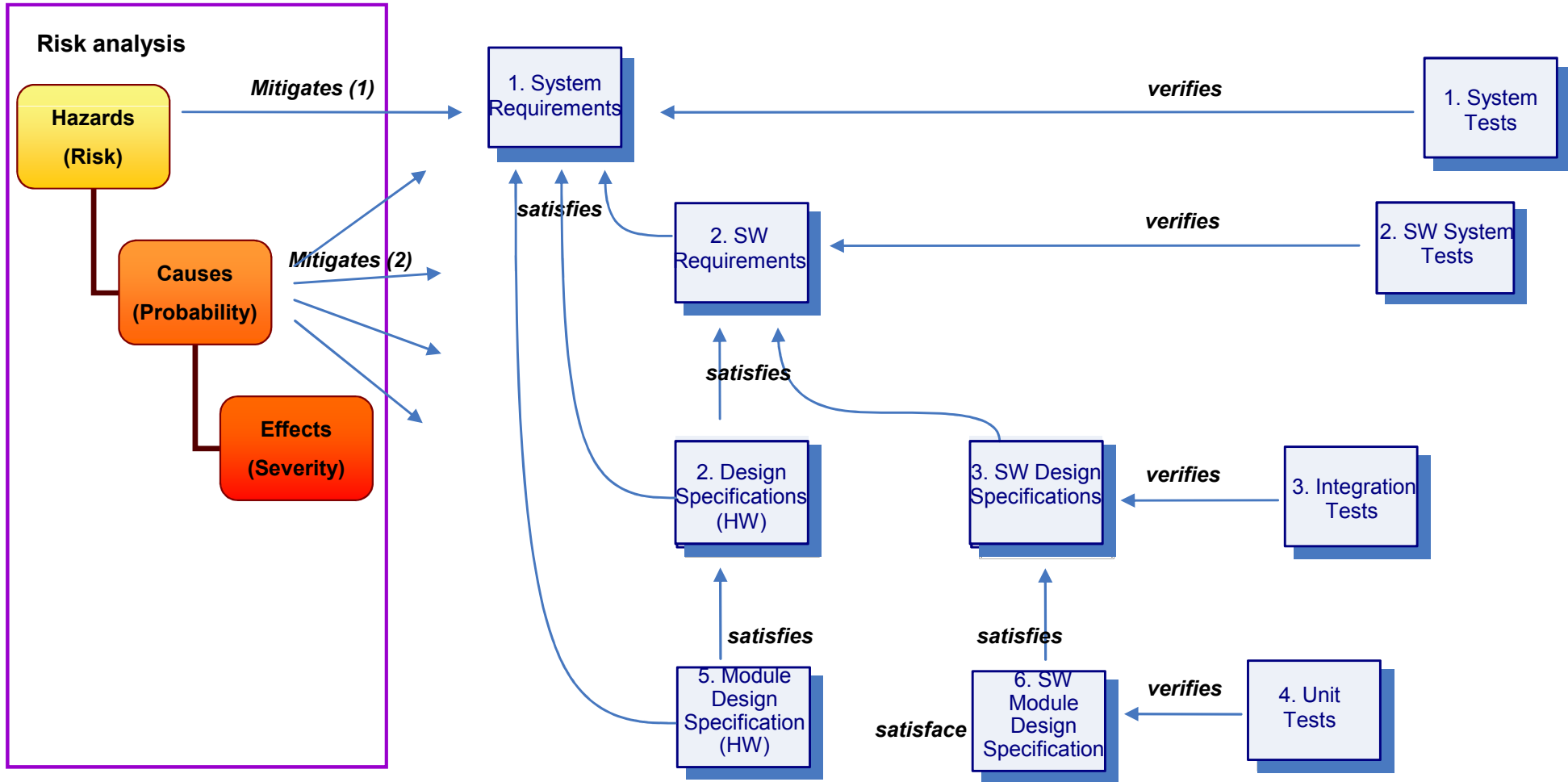
Four red arrows point from labels above to the columns: 'User Reqs' points to the User Requirements column, 'System Reqs' points to the Functional Requirements column, 'Subsystem Reqs' points to the Design column, and 'Tests' points to the Test Plan column. Three red curved arrows at the bottom indicate the flow of traceability from the User Requirements column to the Functional Requirements column, then to the Design column, and finally to the Test Plan column.

End-to-end traceability in a single view

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Data model example



(1) The compliance of the requirement avoids the hazard

Questions



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