



Welches Anforderungsmanagement- werkzeug für welchen Projekttyp

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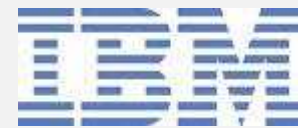
Ihr Architekt und Ihre Bauaufsicht in IT-Projekten

Anforderungsmanagement



- **Anforderungen erheben, ausarbeiten und richtig formulieren**
- **Begleitungen von Analyseprojekten**
- **Qualitäts-Quickcheck**
(Klarheit für die Umsetzung)
 - Lastenhefte
 - Pflichtenhefte
 - Ausschreibungsunterlagen
- **Basic und Advanced RE-Schulungen**
- **Vorbereitung zur IREB-Zertifizierung**





IBM Telelogic DOORS

IBM Rational Requisite Pro

IBM Rational Requirements Composer

IBM Rational Requisite Pro



Word-Integration

Win-Client

vision - Microsoft Word

File Edit View Insert Format Tools Table RequisitePro Window Help

100% Times New Roman

4. Product Features

4.1 [ClassicsCD.com Web Shop]

[Secure Payment method]

[Easy Browsing for available titles]

[Ability to ch...]

[E-mail notifi...]

[Highly Scale...]

[Customer sh...]

4.2 [ClassicsCD Administr...]

[Ability to ad...]

[Ability to ch...]

[Maintain cus...]

[Generate rep...]

5. Other Product R...

5.1 Applicable Standar...

Page 3 Sec 3 6/6 At 2"

Rational RequisitePro - Learning Project - [FEAT: All Features]

File Edit View Requirement Traceability Tools Window Help

Learning Project

- Features and Vision
 - ClassicsCD Vision Doc...
 - All Features*
 - Requirements Traced t...
 - FEAT1: ClassicsCD.co...
 - FEAT2: ClassicsCD Ad...
 - FEAT3: Interactive guid...
- Glossary
- Supplementary Require...
- Use Cases
- ClassicsCD Requireme...

Requirements:	Priority	Status	Cost	Difficulty
FEAT1: ClassicsCD.com Web Shop	High	Approved		Low
FEAT1.1: Secure payment...	Medium	Incorporate		Low
FEAT1.2: Easy browsing	Medium	Proposed		Medium
FEAT1.3: Ability to check status...	Low	Validated		Low
FEAT1.4: E-mail notification of...	Medium	Proposed		Medium
FEAT1.5: Highly scalable	Low	Proposed		High

Rational RequisiteWeb - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

Rational RequisiteWeb

Rational RequisiteWeb

Rational Home | RequisitePro Home | User Profile | About | Log Out IBM

Learning Project - Use Cases

Filter, Sort, or Save View Create Requirement Export View to XML Export View to CSV Delete View Generate Bookmark

Requirements	Type	Priority	Status
FEAT1 Secure payment method Secure payment method	Functional	Must	Incorporated
FEAT2 Easy browsing Easy browsing for available titles	Functional	Should	Proposed
FEAT3 Search by multiple criteria Ability to search for CDs by multiple criteria	Functional	Must	Approved
FEAT4 Ability to check status of an order Ability to check the status of an order	Functional	Should	Validated
FEAT5 E-mail notification of new titles of interest E-mail notification for Shoppers when new titles that may interest them are added to the collection.	Functional	Could	Proposed
FEAT6 Highly scalable Highly scalable to include many titles and effective searching through those titles	Non-Functional	Must	Proposed
FEAT7 Ability to customize the Web site Shoppers should be able to customize the Web site.	Functional	Should	Proposed
FEAT8 User registration good for future purchases Shoppers should be able to register once for all purchases; they should not be asked to re-enter personal information.	Functional	Should	Incorporated
FEAT9 Shipping Status			

Web-Client

Attribute in Requisite Pro



The screenshot shows a software window titled "RequisitePro Views - [UC: Attribute Matrix]". The window has a menu bar with "File", "View", "Requirement", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main area is a table with the following columns: "Requirements:", "Property", "Priority", "Assigned To", "Planned Iteration", and "Affects Architecture". The table lists several requirements under "UC3: User Maintenance".

Requirements:	Property	Priority	Assigned To	Planned Iteration	Affects Architecture
UC2: User Verification	Name	Medium	Mary	2	True
UC3: User Maintenance	Name	Low	Jean	3	True
UC3.1: Store managers may add, delete and modify...	Brief Description	High	Jean	3	False
UC3.2: The system provides user administration...	Basic Flow	Medium	Jean	4	False
UC3.3: The system displays the login screen.	Basic Flow	High	Jean	3	False
UC3.4: The system validates the store manager's...	Basic Flow	Medium	Jean	3	False
UC3.5: The user maintenance screen is displayed...	Basic Flow	Low	Jean	4	False
UC3.6: The system provides options for adding...	Basic Flow	High	Jean	5	False
UC3.7: The system displays the new information.	Basic Flow	Medium	Jean	3	True
UC3.8: The system updates the database with the...	Basic Flow	Medium	Jean	3	False
UC3.9: The system informs the store manager that...	Basic Flow	High	Jean	4	False
UC3.10: The system is ready to perform another...	Basic Flow	Medium	Jean	3	True
UC3.11: The system prompts the user for the new...	Basic Flow	Medium	Jean	3	False

At the bottom of the window, there is a status bar that says "Ready" on the left and "27 requirements" on the right.

Traceability in Requisite Pro



The screenshot displays the Rational Requisite Pro interface with two windows open, illustrating traceability between use cases and business use cases.

Left Window (Rational Requisite Pro - ClassicCD Web Shop):

- Relationships - direct only:** A table showing relationships between use cases and features.

	FEAT1: Secure Payment method	FEAT2: Easy Browsing for available titles	FEAT3: Search capabilities	FEAT4: Ability to check the status of an order	FEAT5: E-mail for user site info
UC4: Purchase CD	✓				
UC3: IDENTIFY SHOPPER		✓			
UC4: GET PROJECTED SHIP DATES					
UC4: COMPLETE ORDER					✓

- UC4: Purchase CD:**
 - UC4.1: BRIEF DESCRIPTION: The Shopper has already selected CDs he/she is.
 - UC4.2: BEGIN: BEGIN The use case ends when the Shopper
 - UC4.3: IDENTIFY SHOPPER: The system requests
 - UC4.4: GET PROJECTED SHIP DATES: The system
 - UC4.5: SUMMARY: SUMMARY The system displays a summary of
 - UC4.6: COMPLETE ORDER: COMPLETE ORDER The Shopper completes.
 - UC4.7: END: END The use case ends when the new order has
 - UC4.8: INVALID SHOPPER ID
- UC3: IDENTIFY SHOPPER:** IDENTIFY SHOPPER. (The system requests information to identify the Shopper)
- FEAT1:** Secure Payment method.

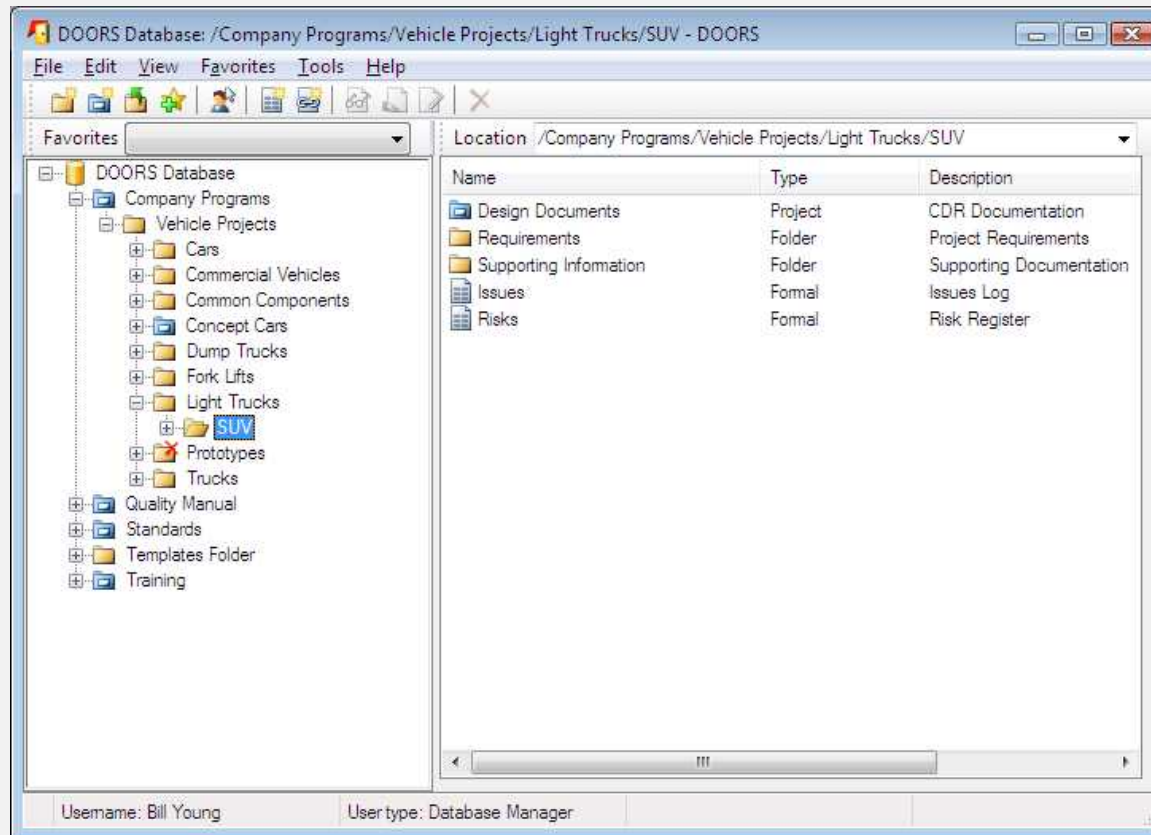
Right Window (Rational Requisite Pro - ClassicCD Web Shop):

- Business Use Cases:**
 - BUS1: Buy CD
 - UC4: Purchase CD
 - DESIGN3: Business...
 - BUS1.1: Brief Description
 - UC5: Shop For CD
 - DESIGN5: ShoppingCar...
 - BUS1.2: Contact ClassicCD
 - FEAT2: Easy Browsing for...
 - UC5.9: SEARCH BY...
 - UC5.14: VIEW...
 - BUS1.3: Display list of CDs
 - FEAT2: Easy Browsing for...
 - UC5.9: SEARCH BY...
 - UC5.14: VIEW...
 - UC5: Shop For CD
 - DESIGN5: ShoppingCar...
 - BUS1.4: Search for CD
 - UC5: Shop For CD
 - DESIGN5: ShoppingCar...
 - BUS1.5: Intent to Buy
 - UC3: Check Order Status
 - DESIGN4: Data Services
 - BUS1.6: Collect customer...

- Requirement: BUS1**

Name	BUS1
Property	Name
Potential for Automation	
Priority	Medium
Status	Validated
Unique ID	422
Location	Buy CD
Package	Business Conte
Author	admin
Revision	1.0003
Date	3/2/2002 9:29
Reason	STATUS: no e
Traced-From	UC4
Traced-to	
Root Tag#	1

Grundstruktur von Doors



Doors Module



'User Requirements' current 2.1 (1998) in /Sports utility vehicle 4x2/Requirements (Formal module) - DOORS

File Edit View Insert Link Analysis Table Tools User Help

View F - Budget All levels

Object Identifier User requirements for SUV 4x2 Allocated Budget Spent Remaining Risk

SOW 37	4.1.4 Fuel economy	146	0	146	
SOW 38	Users shall be able to obtain fuel consumption better than that provided by the 95% of built in 1996.	67	0	67	High
SOW 39	Users shall be able to accelerate from 100 kilometers per hour in 10 seconds.				
SOW 364	Users shall be able to accelerate from 100 kilometers per hour in 8 seconds.				
SOW 40	4.1.5 Safety				
SOW 41	Users shall be able to travel in safe accordance with the Road Res Laboratories Safety standards dated 1 Ja 2005.				
SOW 42	Users shall be able to travel at the same of safety as provided by the best 10% of being developed to be built in 2008.				
SOW 43	4.1.6 Noise levels				
SOW 44	4.1.6.1 Interior				
SOW 45	Users shall be able to hear only a ver level of noise inside the car.				
SOW 46	4.1.6.2 Exterior				
SOW 47	Users shall be able to cause only a ver level of external noise with the car.				
SOW 48	4.1.7 Ease of Access				

Object 42 (Baselined) - DOORS

General Access History Attributes Links

Attribute	Value
Created On	11 February 1997
Created Thru	Manual Input
Critical Issues	
Criticality	Medium
Detailed requirement	
History count	0
Last Modified By	Dave Mason
Last Modified On	23 November 2007
Object Heading	
Object Number	4.1.5.0-2
Object Short Text	
Object Text	Users shall be able to travel at th...
OLE	False

View/Edit...

Previous Next OK Cancel Apply Help

Username: Dave Mason Exclusive edit mode

Doors Traceability



'User Requirements' current 1.0 (Issue1) in /Sub-compact (Formal module) - DOORS

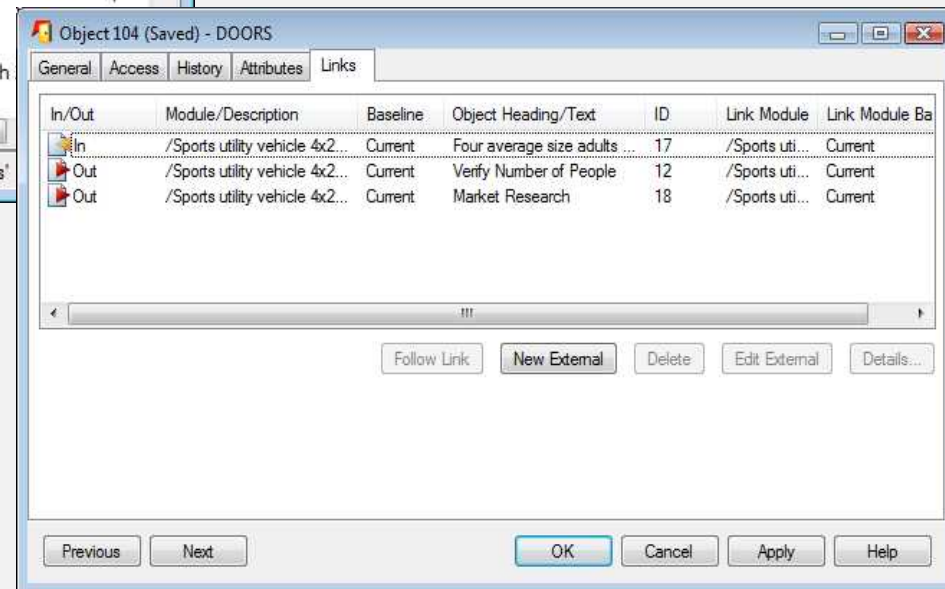
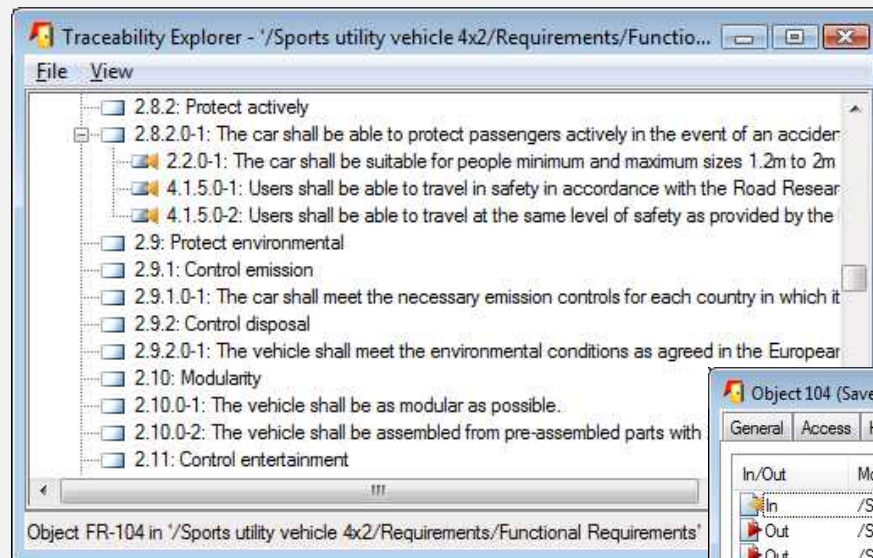
File Edit View Insert Link Analysis Table Tools User Help

View Full Trace View All levels

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.	FR-23 The car shall be able to stop from 10 kilometers per hour to 0 kph in 2 seconds. FR-24 The car shall be able to stop from 30 kilometers per hour to 0 kph in 6 seconds.	TRN-AD-48 Disc brakes TRN-AD-48 Disc brakes TRN-AD-48 Disc brakes	TRN-TP-34 High Speed Braking Test TRN-TP-35 Low Speed Braking Test TRN-TP-34 High Speed Braking Test TRN-TP-35 Low Speed Braking Test TRN-TP-34 High Speed Braking Test

Username: Dave Mason Exclusive edit mode

Doors Traceability



Doors Baselines



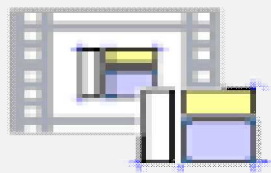
The screenshot displays two windows from the DOORS software. The background window, titled "Baseline Compare 'User Requirements' - DOORS", shows a list of baselines: "current", "2.1 (2008)", "2.1 (1998)", "2.0", and "1.0". The "2.1 (1998)" baseline is selected. Below the list are a "Compare" button and a "Show Baselines" checkbox.

The foreground window, titled "Baseline Comparison Results - DOORS", shows the results of the comparison. It has two tabs: "Plain View" (selected) and "Redlining View". The results are displayed in a text area with the following content:

- object #47 has differing Object Text*
Users shall be able to ~~cause~~generate only a very low level of external noise with the car at a speed of 40kph.
- object #51 has differing Object Text*
Users shall be able to operate brakes in standard footwear.
- object #52 has differing Object Text*
Users shall be able to operate brakes in 3 inch high- heeled shoes without the need to remove the foot from the floor.
- object #64 has differing Object Text*
Users shall be able to operate the clutch, if fitted, -in standard footwear.
- object #66 has differing Object Text*

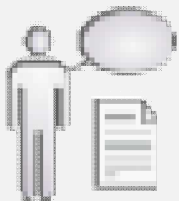
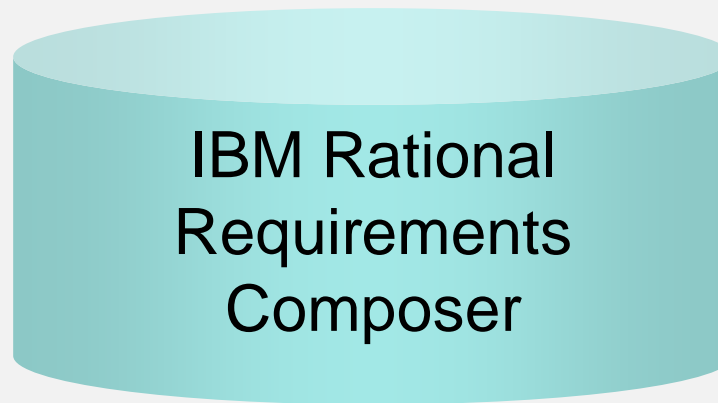
A "Close" button is located at the bottom right of the results window.

IBM Rational Requirements Composer



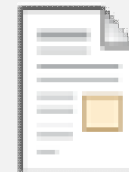
Entwürfe und Storyboards

Geschäftsprozesse



Use cases

Textdokumente und Glossar



Komponenten Requirements Composer



Geschäftsprozesse

Textuelle Anforderungen

Anwendungsfälle

Storyboards



Welches Werkzeug wofür?



- **Word (Textverarbeitung)**
 - Keine Zeit für die Werkzeugeinführung
 - Natürlichsprachliche Anforderungen für einmaliges Projekt
- **IBM Rational Requisite Pro**
 - Word und RE Integration ohne Word-Einschränkungen
 - Einzelne klar abgegrenzte Projekte
- **IBM Telelogic Doors**
 - Komplexe Projekte bzw. Produktlinien
 - Viele gleichzeitig laufende Analysevorhaben
 - Wunsch nach Traceability
- **IBM Rational Requirements Composer**
 - Einzelne klar abgegrenzte Projekte
 - Toolkombination in der der Jazz Plattform
 - Verwendung von Modellierung



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