

IBM Rational DOORS software

Highlights

- **Facilitate delivery of the high-quality systems and software your customers need**
- **Proactive change notification helps ensure that changes are not missed and that their impact can be thoroughly analyzed**
- **Help improve collaboration by providing greater visibility of the project goals**
- **Integration with popular design, development and test environments helps to provide comprehensive lifecycle traceability**
- **Support contract conformance and regulatory compliance**
- **Respond to changing customer needs more effectively and with more control**

Requirements management for complex systems and software

Are you looking for effective ways to control your requirements, improve staff efficiency and reduce project costs and delivery time? IBM® Rational® DOORS® software can help you achieve your requirements management goals by enabling your teams to focus on building what your business and customers really need, not waste time and effort on unnecessary/manual tasks and rework.

Rational DOORS allows you to capture, trace, analyze and manage changes to information and demonstrate compliance to regulations and standards. DOORS has proven itself on some of the most challenging projects and helped organizations standardize and manage their requirements process more efficiently.

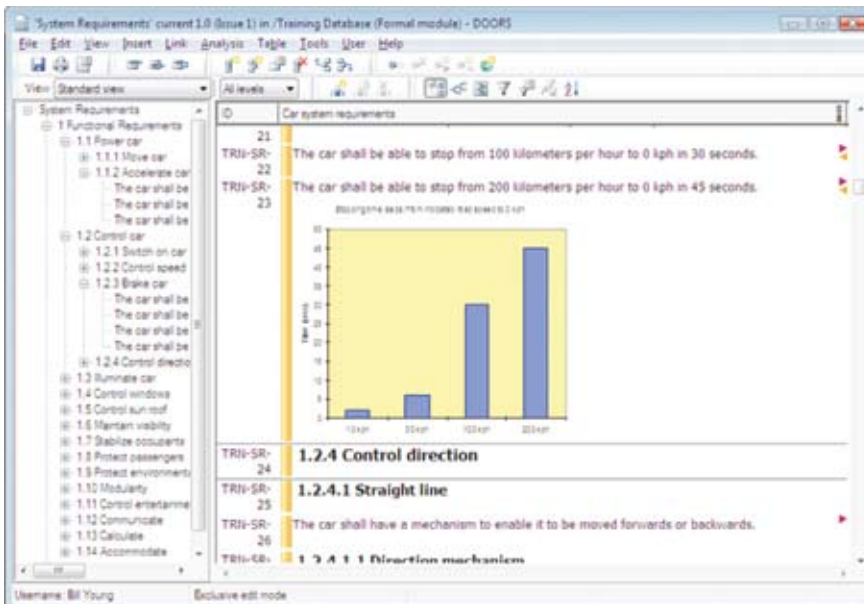


Figure 1: Requirements documented in IBM Rational DOORS

Intuitive, scalable requirements management

Successful management of requirements starts by documenting them in a way that's easy to interpret and navigate. The hierarchical organization of requirements in the Rational DOORS interface helps make it easier to locate information within the database. An easily accessible document-style list of requirements shows each individual requirement in context, while a convenient navigation tree reveals the structure of the information set. A tabular view of the requirements helps you view and assign additional information against them within an unlimited number of your own attributes.

Comprehensive traceability

Requirements traceability is key to demonstrating conformance and compliance, and facilitating impact analysis of requirement changes. Traceability links within Rational DOORS software can be easily traversed—simply click on the link indicator displayed beside a requirement, select the link you want to follow, and the Rational DOORS application can traverse the link to the related requirement.

Creating links can be as easy as dragging and dropping between two requirements. A new link can be created from the source to the

target requirement with outgoing and incoming link indicators displayed beside the relevant requirements.

With DOORS software, you can create filters to analyze requirements and see that traceability is complete. For example, using a filter, you can help quickly identify user requirements that are not linked to system requirements—these represent customer needs that are not satisfied by the technical specification. The DOORS solution also supports external links: Requirements can be associated with information outside of the DOORS environment. For instance, dragging a link from a requirement in the DOORS software into a word processing document can create a functional link to the requirement.

Change management and impact analysis

Requirements change. But change should be controlled because it can impact the project, resulting in additional demands on resources, time and budget. IBM Rational DOORS is integrated with IBM Rational Change, an enterprise change management solution that can provide configurable workflow for review, approval and application of change requests.

If you require a simpler, predefined requirements change control process, DOORS software also provides out-

of-the-box change management capability. Requirements changes may impact linked requirements, designs and tests. The Rational DOORS solution can provide automatic proactive notification of such changes by graphically indicating that links to changed objects require investigation, supporting thorough impact analysis.

Collaborative requirements management environment

Rational DOORS software allows stakeholders from many disciplines to contribute to the requirements process. Stakeholders are involved with requirements capture, analysis, review and impact analysis for project changes. Requirements management is a discipline that lives throughout a project lifetime and DOORS software offers a key capability to allow stakeholders to manage an audit trail from development back to the requirements that are being met.

The DOORS platform also has a Web interface (IBM Rational DOORS Web Access) for users who need instant access to requirements information without the need to perform local installations of software. For example, testers can quickly review and edit requirement attributes from the Web to indicate that particular requirements have been verified.

The Rational DOORS application also supports the Requirements Interchange Format enabling suppliers and development partners to be directly involved in the development process by contributing entire requirements documents, specific sections or attributes which are traced back to central requirements. RIF support helps you integrate suppliers into the development process more efficiently and reduce the risk of losing critical information.

IBM Rational DOORS Analyst Add On provides an easy-to-learn, UML-based requirements modeling capability inside the DOORS solution. Creating models within the context of

requirements helps analysts clarify requirements better and allows system architects and software developers to save time by reusing the same models later in the development process.

Rational DOORS software interfaces with other IBM Rational and third-party tools to offer full text access to project requirements and complete life cycle traceability so design, development, testing, quality assurance and other teams can collaborate in context, avoid project errors early and prioritize changes.

How it works

IBM Rational DOORS software is designed to be a scalable, collaborative,

client-server database application. Through purpose-built, proprietary database technology, DOORS software can help you manage millions of objects (requirements and other related project artifacts) and the traceability links between them. The application can also be extended to provide additional project- or company-specific capabilities through the IBM Rational DOORS eXtension Language (DXL).

For more information

To learn more about IBM Rational software, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/rational

IBM Rational DOORS software

Feature	Functional benefit
Intuitive, document-oriented interface facilitates ease of adoption	Help improve collaboration across the IT/engineering organization with access to up-to-date view of requirements
Comprehensive traceability analysis capabilities help ensure that no requirement is overlooked	Control project scope and cost by being able to analyze and measure the impact that changes will have on everything from business goals to development
Proactive change notification helps ensure that changes are not missed and that their impact can be thoroughly analyzed	Support conformance to contracts and compliance with regulations
Interfaces to popular design, development and test environments can provide comprehensive life cycle traceability and help teams to align their efforts with the business needs	Prioritize and respond to changing customer needs faster by tracking traceability links and changes automatically
Requirements Interchange Format (RIF) support simplifies the process of exchanging data between different requirements management tools	Enable analysts, development and test teams to avoid requirements errors early in the life cycle by integrating requirements with design models and test plans



© Copyright IBM Corporation 2009

IBM Corporation
Software Group
Route 100
Somers, NY 10589
U.S.A.

Produced in the United States of America
May 2009
All Rights Reserved

IBM, the IBM logo, ibm.com, DOORS and Rational are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Other company, product and service names may be trademarks or service marks of others.

References in this publication to IBM products and services do not imply that IBM intends to make them available in all countries in which IBM operates.

The information contained in this document is provided for informational purposes only and provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. Without limiting the foregoing, all statements regarding IBM future direction or intent are subject to change or withdrawal without notice and represent goals and objectives only. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software.

IBM customers are responsible for ensuring their own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws.