

Ambiguous Words Detector™ is an IBM® Rational® DOORS® accelerator product, part of the **Smarter Solutions** product line from River North Solutions

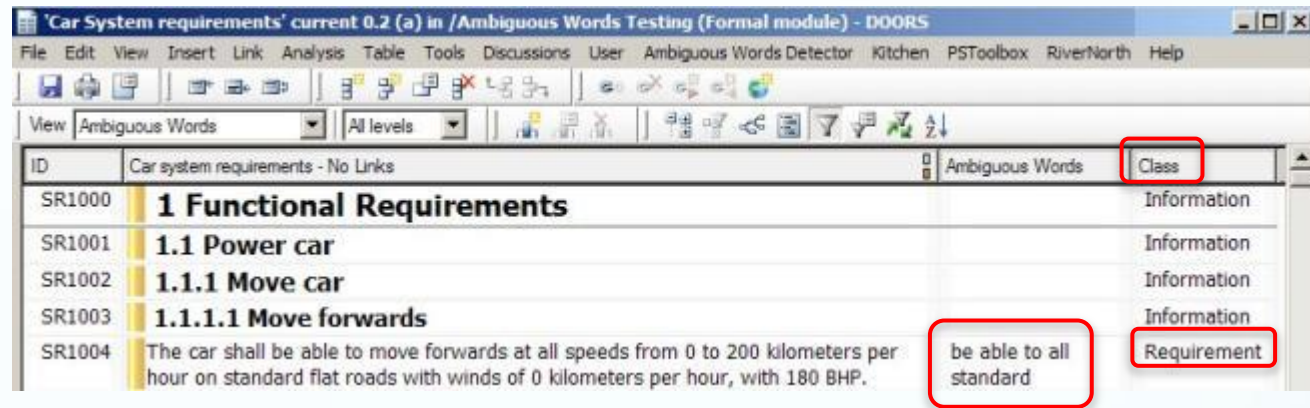


Ambiguous Words Detector™ **Tool for DOORS**

Automatic detection of ambiguous words in requirements

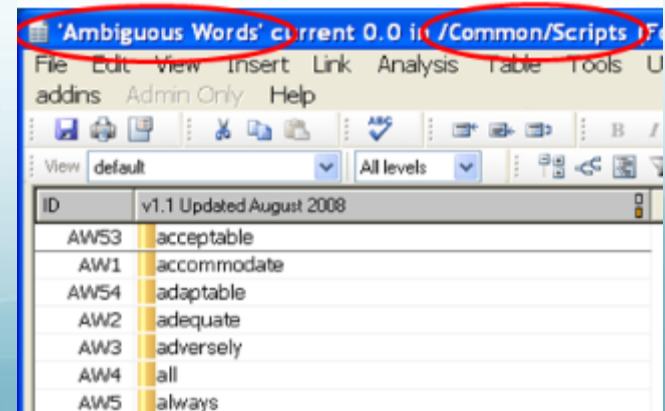
Ambiguous Words Detector (AWD)

- Automatically detects usage of ambiguous words in requirements



ID	Car system requirements - No Links	Ambiguous Words	Class
SR1000	1 Functional Requirements		Information
SR1001	1.1 Power car		Information
SR1002	1.1.1 Move car		Information
SR1003	1.1.1.1 Move forwards		Information
SR1004	The car shall be able to move forwards at all speeds from 0 to 200 kilometers per hour on standard flat roads with winds of 0 kilometers per hour, with 180 BHP.	be able to all standard	Requirement

- Blends into your DOORS schema
 - Recognizes requirements from attribute/enumerated value used in your schema to define object as requirement
- Ambiguous words search list contained in DOORS module
 - No coding required to modify list

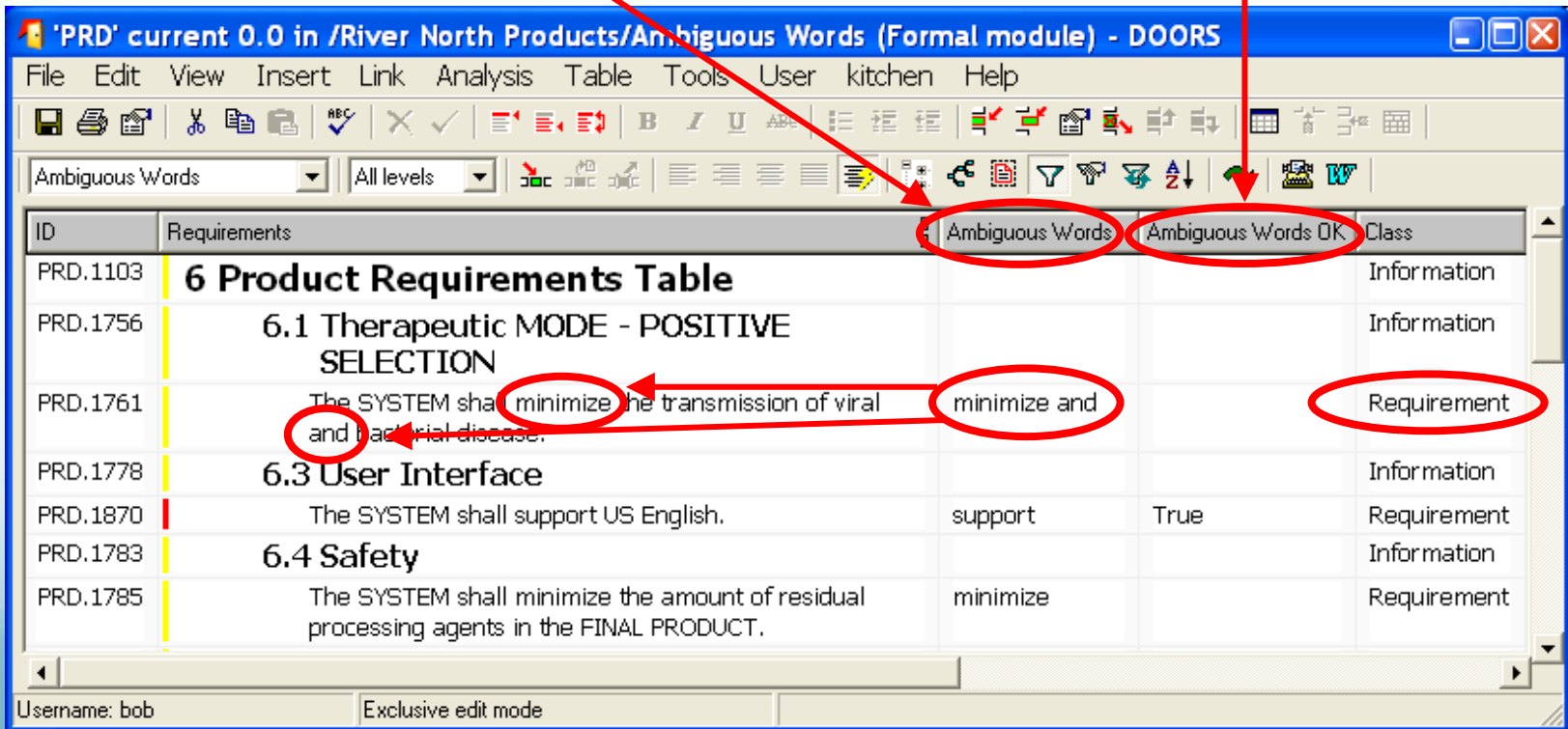


ID	v1.1 Updated August 2008
AW53	acceptable
AW1	accommodate
AW54	adaptable
AW2	adequate
AW3	adversely
AW4	all
AW5	always

Accelerate Requirements Management

Requirement Author Use Case

- Detected Ambiguous Words listed in “Ambiguous Words” column
- Requirement author must analyze requirements to
 - (a) remediate Ambiguous Words or
 - (b) designate listed Ambiguous Word(s) as legitimate (AW OK = True)

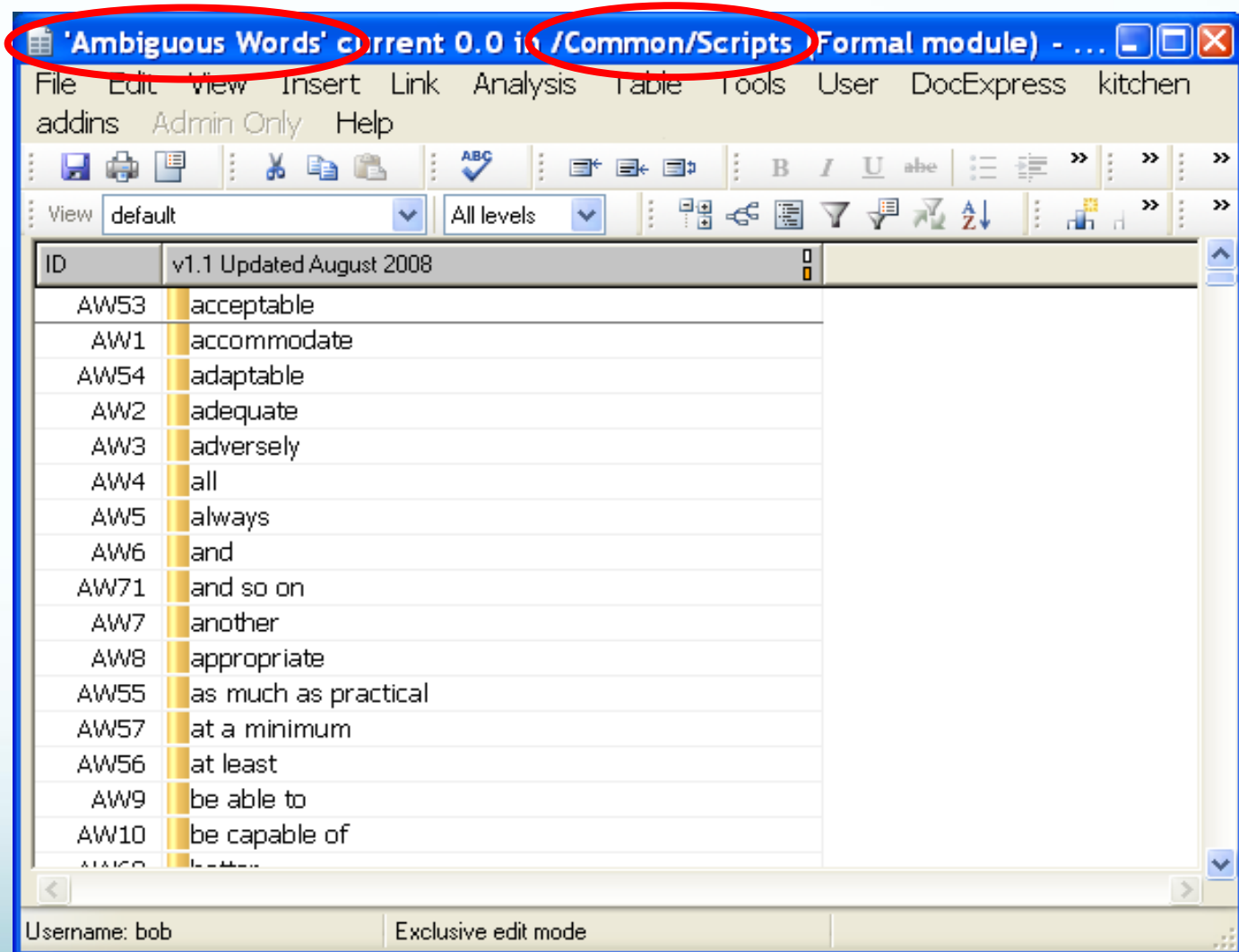


The screenshot shows the DOORS software interface with a table of requirements. The table has columns for ID, Requirements, Ambiguous Words, Ambiguous Words OK, and Class. The requirement PRD.1761 is highlighted, showing the text "The SYSTEM shall minimize the transmission of viral and bacterial disease." with "minimize" and "minimize and" circled in red. The "Ambiguous Words" and "Ambiguous Words OK" columns are also circled in red, with red arrows pointing to them from the text above. The status bar at the bottom shows "Username: bob" and "Exclusive edit mode".

ID	Requirements	Ambiguous Words	Ambiguous Words OK	Class
PRD.1103	6 Product Requirements Table			Information
PRD.1756	6.1 Therapeutic MODE - POSITIVE SELECTION			Information
PRD.1761	The SYSTEM shall minimize the transmission of viral and bacterial disease.	minimize and		Requirement
PRD.1778	6.3 User Interface			Information
PRD.1870	The SYSTEM shall support US English.	support	True	Requirement
PRD.1783	6.4 Safety			Information
PRD.1785	The SYSTEM shall minimize the amount of residual processing agents in the FINAL PRODUCT.	minimize		Requirement

Ambiguous Words Search List MODULE

- DOORS module-based
- Enterprise scope
- Easy to modify
- Easy to maintain
- Best practice: CCB approval to add/modify/delete words



ID	Word
AW53	acceptable
AW1	accommodate
AW54	adaptable
AW2	adequate
AW3	adversely
AW4	all
AW5	always
AW6	and
AW71	and so on
AW7	another
AW8	appropriate
AW55	as much as practical
AW57	at a minimum
AW56	at least
AW9	be able to
AW10	be capable of
AW60	better

Username: bob Exclusive edit mode

Accelerate Requirements Management

AWD Value Proposition

Requirements Rework

- Errors late detected in the Maintenance Phase can cost up to 200 times more than detected early in Requirement Analysis phase¹
- More than 40% of development budget can be consumed by poor requirements²

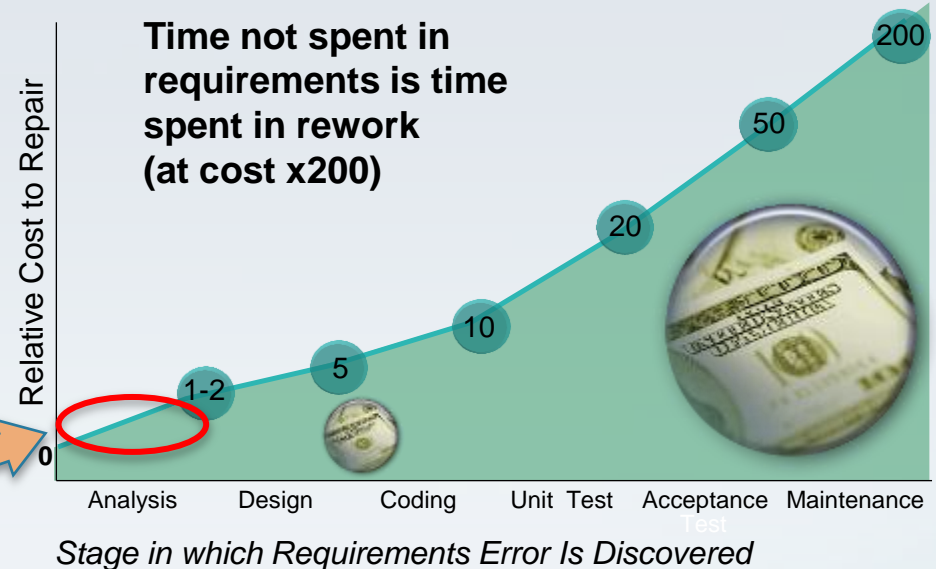
Project Delays

- Being late to market by 6 months or more will cost organizations 33% of the 5-year ROI³

Ambiguous Words Detector

- Avoid defects from ambiguities by remediating at point of insertion using AWD

Requirements issues drive excessive rework, delays, poor quality, and project failures

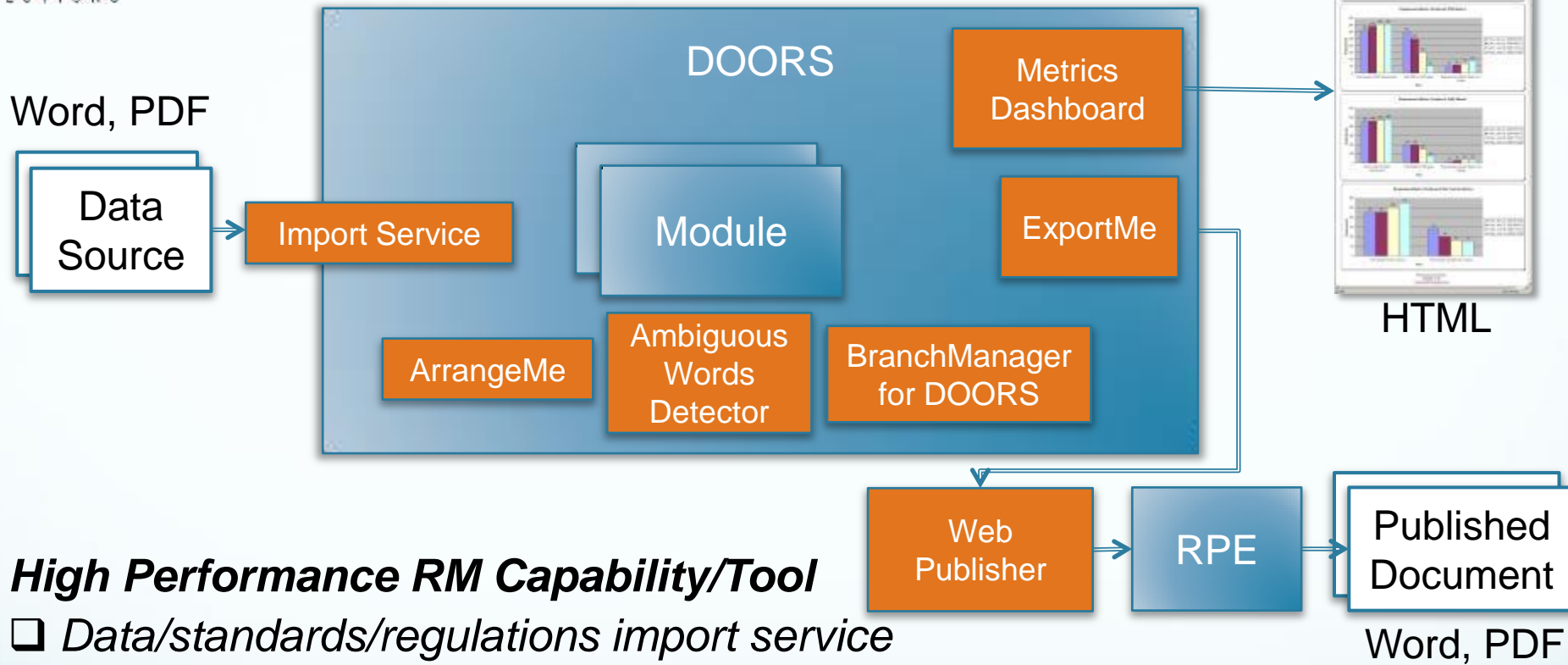


“Our research indicates 80-plus percent of development failures result directly from poor requirements gathering, management, and analysis.”

IDC, November 2007

Sources: 1) Leffingwell & Widrig, “Managing Software Requirements,” Addison Wesley, 1999 2) IAG Consulting, 2008 3) Don Reinertsen, McKinsey, 1983

River North Smarter Solutions for Requirements Management & Document Publishing



High Performance RM Capability/Tool

- Data/standards/regulations import service
- Automated data manipulation / [ArrangeMe](#)
- Boost requirement quality, reduce churn / [Ambiguous Words Detector](#)
- Parallel stream development / [BranchManager for DOORS](#)
- Automated, simplified, consistent document publishing / [ExportMe](#)
- Reduced tool footprint & licenses / [Web Publisher](#)
- Monitor leading indicator trends / [Requirement Metrics Dashboard](#)

River North Profile

Industry/Client Experience (partial)

- Transportation
 - Ansaldo STS
 - Bombardier Transportation
 - GE Transportation
- Automotive
 - Ford Motor Company
- Aerospace & Defense
 - Aerojet Rocketdyne
 - Crane Aerospace
 - Northrop Grumman
 - NASA JPL
 - LMCO-NASA
- Energy
 - NuScale Power
 - Westinghouse Nuclear
- Medical Device
 - Baxter Healthcare
 - Bayer Healthcare
 - Eli Lilly
 - Hospira
 - Roche Diagnostics
 - St. Jude Medical
- Telecommunications
 - Comcast
- Industrial
 - Chamberlain
 - HP Enterprise Services

Professional Society Leadership

INCOSE

- Chicagoland Chapter President
- Risk Management WG Co-Chair
- Midwest Biomedical Healthcare WG

IEEE

- Board of Directors

IBM Software Expertise

Requirements Management

- Rational DOORS
- Rational DOORS Next Generation
- Rational Requisite Pro

Collaborative Lifecycle Management

- Rational Team Concert (RTC)
- Rational Quality Manager (RQM)
- Jazz platform

Document Publishing

- Rational Publishing Engine (RPE)

Modeling

- Rhapsody (Systems & Software)
- Design Manager (DM)
- Rational Systems Architect (EA)
- Rational Software Architect (IT)

Product/Portfolio Management

- Rational Focal Point

Training

- All above IBM products
- MBSE – SysML/UML languages, plans, methods, and tools

River North Rational Accelerator

Products

- *Ambiguous Words Detector*[™] (AWD)
- *ArrangeMe*[™] – DOORS data manipulation
- *Requirement Metrics Dashboard*[™] (RMD)
- *ChangeTracker*[™] – revision rich text markup
- *ExportMe*[™] – automated doc publishing
- *Allocated Requirements Tool*[™] (ART)

Key River North Smarter Solutions

- Data input and manipulation automation
- Requirements quality and churn reduction automation
- Product variant productivity
- Process automation
- Data/document publishing automation
- Metrics

Staff Augmentation

- Systems engineers

Contact Information

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Accelerate Requirements Management For More Information...

- Ambiguous Words Detector™ can be customized to suit your organization's needs
- Contact Bob Parro at bparro@rivernorthsolutions.com