

*Ambiguous Words Detector™* is an IBM® DOORS® accelerator product  
from River North Solutions

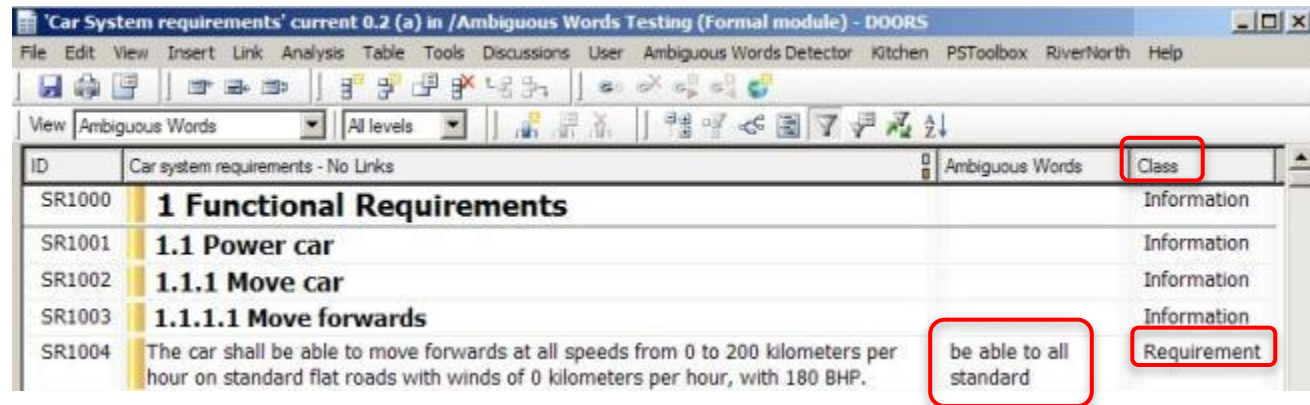


***Ambiguous Words Detector™***  
**Tool for DOORS**

*Automatic detection of ambiguous words in requirements*

# Ambiguous Words Detector (AWD)

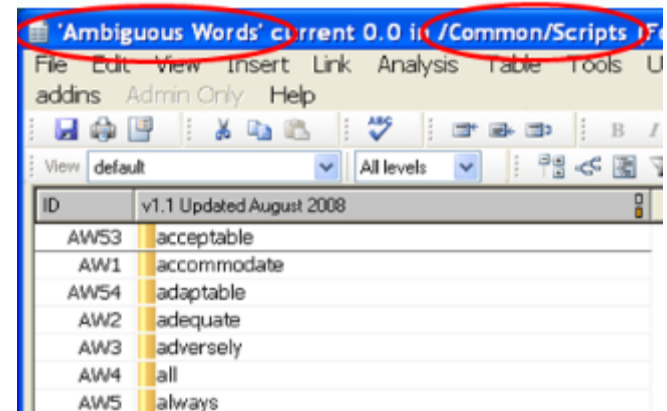
- Automatically detects usage of ambiguous words in requirements



ID	Car system requirements - No Links	Ambiguous Words	Class
SR1000	<b>1 Functional Requirements</b>		Information
SR1001	<b>1.1 Power car</b>		Information
SR1002	<b>1.1.1 Move car</b>		Information
SR1003	<b>1.1.1.1 Move forwards</b>		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(s) used in your schema to define objects as requirements
  - Allows more than one requirement designator (e.g. functional & nonfunctional)

- Ambiguous words search list contained in DOORS module
  - No coding required to modify ambiguous words in search list

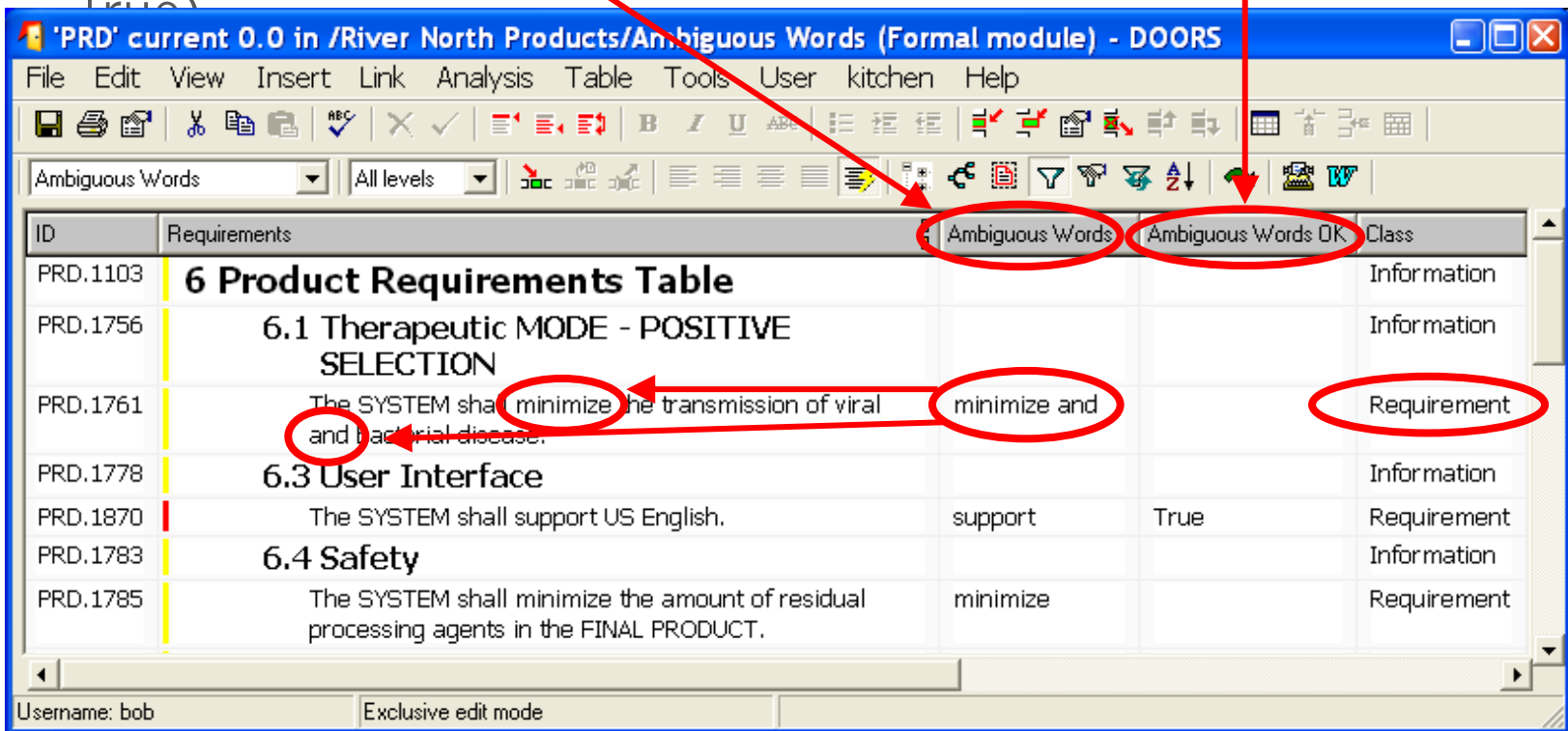


ID	v1.1 Updated August 2008
AW53	acceptable
AW1	accommodate
AW54	adaptable
AW2	adequate
AW3	adversely
AW4	all
AW5	always

# 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)



'PRD' current 0.0 in /River North Products/Ambiguous Words (Formal module) - DOORS

File Edit View Insert Link Analysis Table Tools User kitchen Help

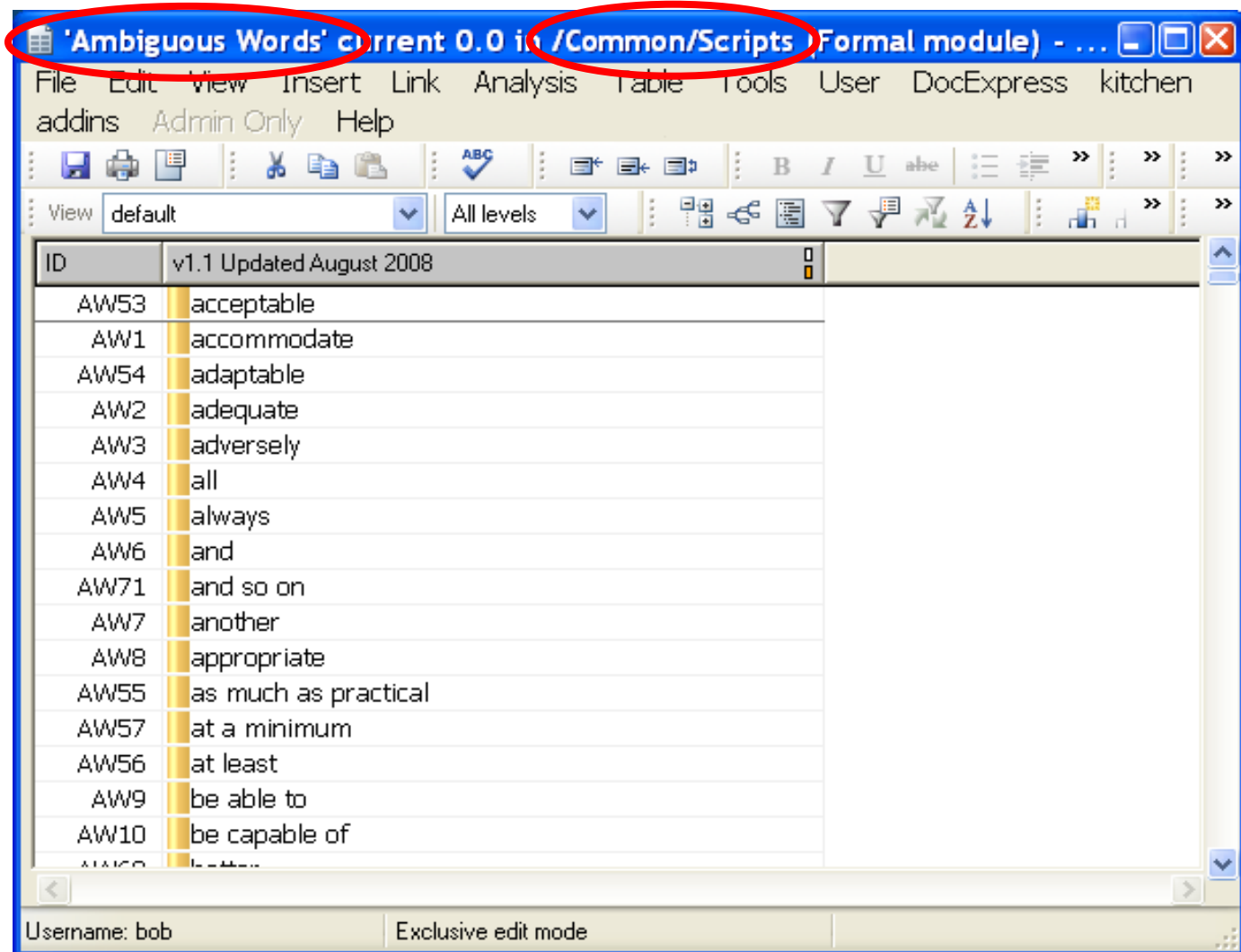
Ambiguous Words All levels

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

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# 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
AW11	be clear

# 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 phase<sup>1</sup>
- More than 40% of development budget can be consumed by poor requirements<sup>2</sup>

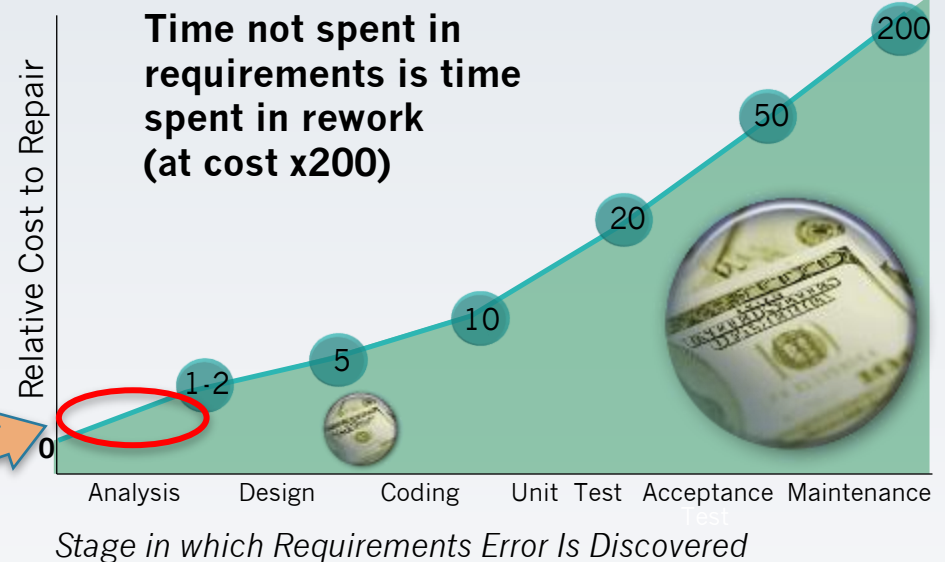
### Project Delays

- Being late to market by 6 months or more will cost organizations 33% of the 5-year ROI<sup>3</sup>

### 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*

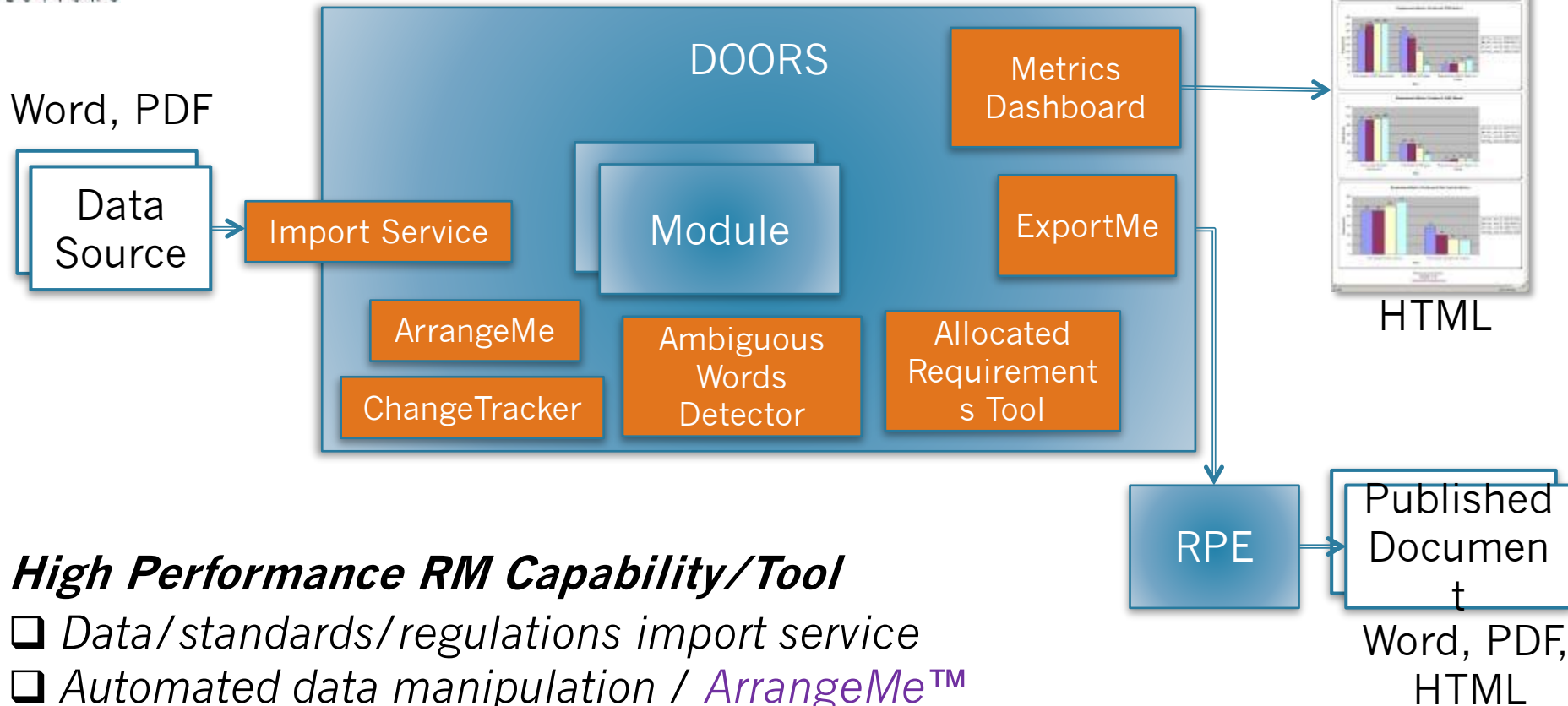


*“Our research indicates 80-plus percent of development failures result directly from poor requirements gathering, management, and analysis.”*

*IDC, November 2007*

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

# River North Accelerator Tools 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™](#)
- Automated, simplified, consistent document publishing / [ExportMe™](#)
- Monitor leading indicator trends / [Metrics Dashboard™](#)
- Display revision markup using rich text / [ChangeTracker™](#)
- Reuse requirements / [Allocated Requirements Tool™](#)

# River North Profile – Industries/Clients\*, Products

- **Aerospace & Defense**
  - Aerojet Rocketdyne
  - Boeing
  - Collins Aerospace
  - Crane Aerospace
  - LMCO-NASA
  - NASA JPL
  - Northrop Grumman
- **Energy**
  - NuScale Power
  - Sandia National Labs
  - Westinghouse Nuclear
- **Automotive**
  - Ford Motor Company
  - Honda Motor Company
  - Johnson Controls
- **Medical Device**
  - Ameda
  - Ascensia Diabetes Care
  - Baxter Healthcare
  - Bayer Healthcare
  - Eli Lilly
  - Hospira
  - J&J Vision
  - Roche Diagnostics
  - St. Jude Medical (Abbott)
- **Semiconductor**
  - NXP Semiconductors
- **Transportation**
  - Ansaldo STS
  - Bombardier Transportation
  - GE Transportation
- **Telecommunications**
  - Comcast
  - Motorola Solutions
- **Industrial**
  - Chamberlain
  - HP Enterprise Services

## DOORS Classic Accelerator Products from River North

- *Ambiguous Words Detector™ (AWD)* – boosts requirement quality by automatically detecting ambiguous words in DOORS
- *ArrangeMe™* – automated DOORS data manipulation/movement
- *Requirement Metrics Dashboard™ (RMD)* – automated metrics production for DOORS
- *ChangeTracker™* – revision markup displayed using rich text in DOORS
- *ExportMe™* – document publishing automation taken to a new level in DOORS
- *Allocated Requirements Tool™ (ART)* – facilitates requirement reuse in DOORS

### Contact Information

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\* Partial List



# For More Information...

- *Ambiguous Words Detector*<sup>™</sup> can be customized to suit your organization's needs
- Contact Bob Parro at [bparro@rivernorthsolutions.com](mailto:bparro@rivernorthsolutions.com)