

ChangeTracker[™] is an IBM[®] Rational[®] DOORS[®] accelerator product, part of the **Smarter Solutions** product line from River North Solutions



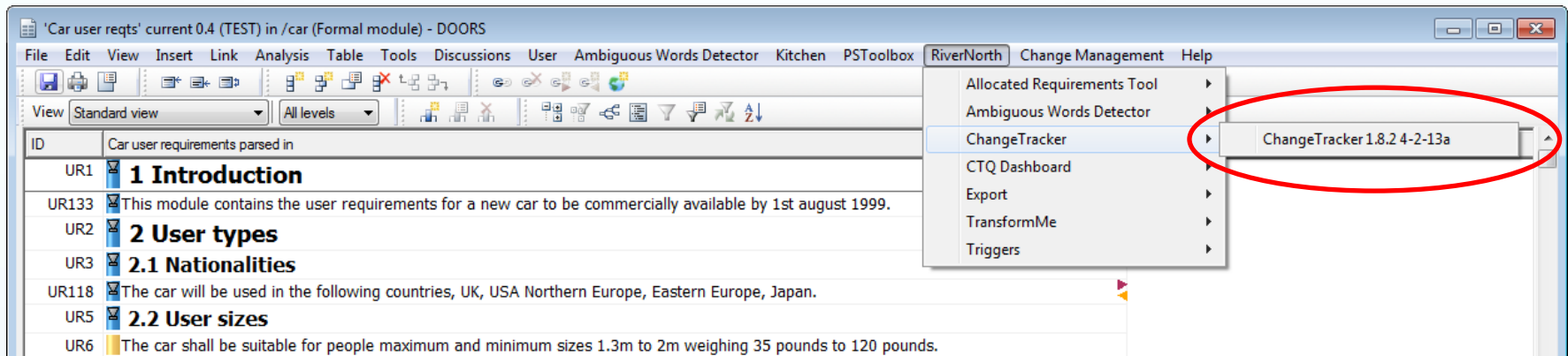
ChangeTracker[™] for DOORS

ChangeTracker[™] provides rich text mark up of revisions to current version or between baselines; it facilitates review and approval cycles

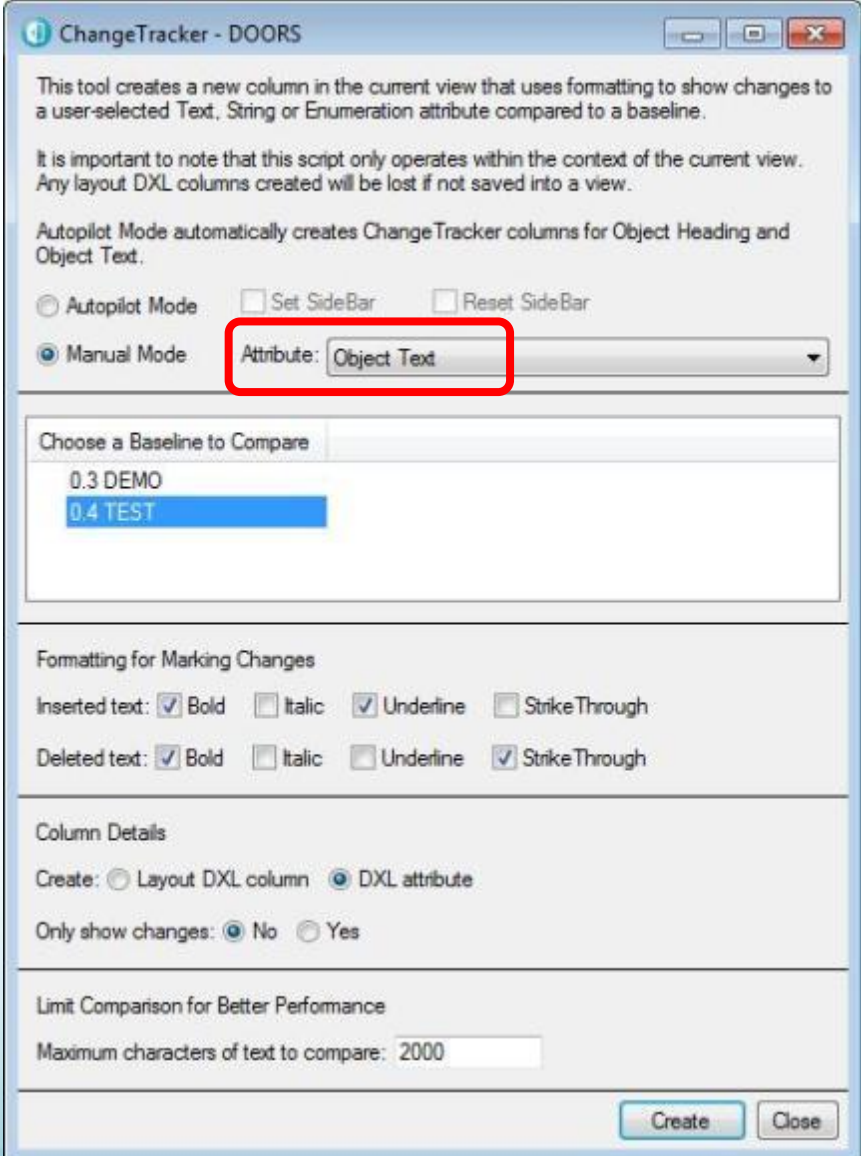
- Enables marked up review of current version compared to selected baseline
- Enhanced version of original developed by Telelogic Professional Services
 - Works with all text and string attribute types
- Designed to be used via a central script repository so all DOORS users can access ChangeTracker™'s features
- ChangeTracker™ features
 - Build dynamic history column for any text, string, or enumerated type DOORS attribute
 - Improved code readability and commenting
 - Enhanced error detection and handling
 - Improved user interaction
 - Autopilot Mode that automatically creates several predefined (and admin-configurable) ChangeTracker™ columns with a single click
 - Capability to detect changes in an object and flag a secondary attribute that a change exists – useful with a Rational Publishing Engine integration that simulates Microsoft Word-style change bars in the left margin

- Script creates a ChangeTracker™ column
- Column uses rich-text markup to show changes to a user-selected attribute
- Changes are with respect to user-selected baselined version
- Font formatting used to mark up changes in text is user selectable
- ChangeTracker™ column can display content...
 - For only objects that have changes, or
 - For all objects
- Note: Script does not identify changes to fonts or deleted or moved objects as changes

- Launch ChangeTracker™ from DOORS module drop-down addins menu



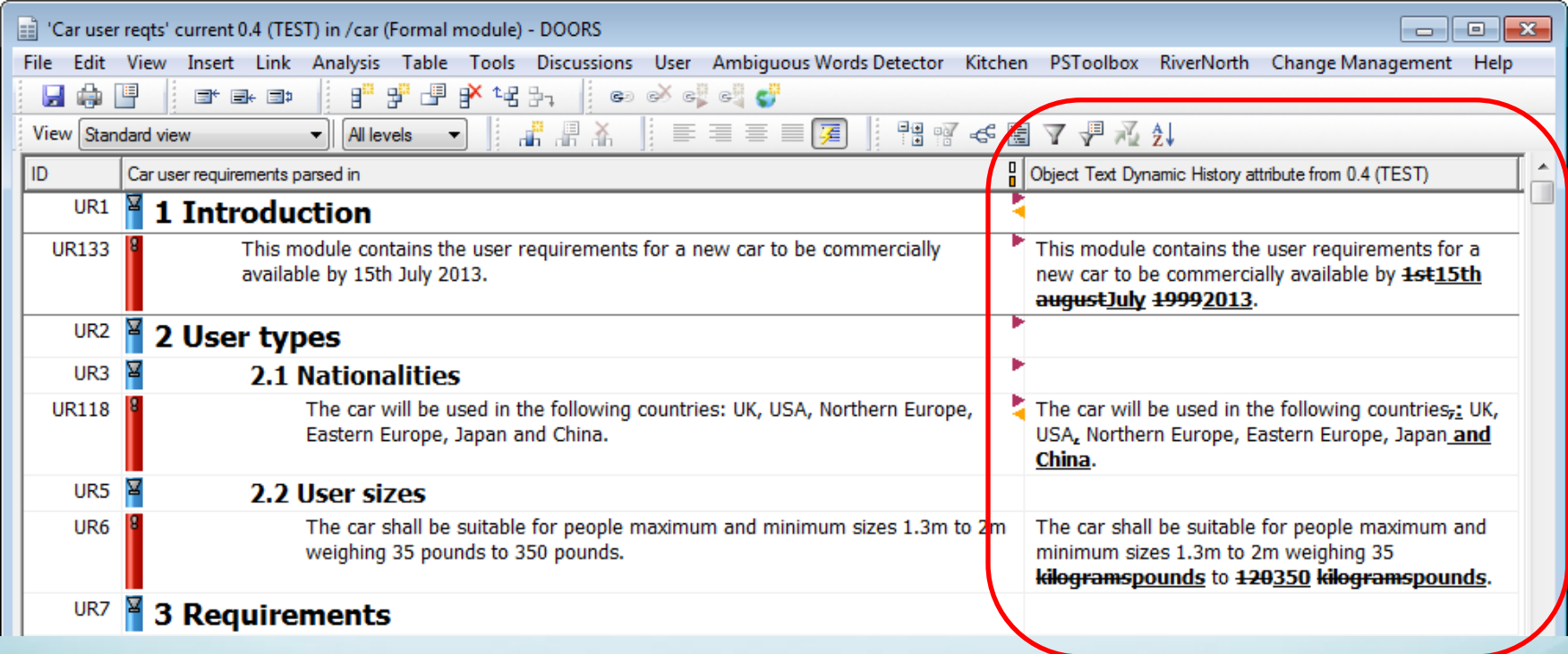
- Make selections in user interface
 - Which attribute to compare
 - Which baseline to compare



The screenshot shows the 'ChangeTracker - DOORS' dialog box. It contains the following sections and controls:

- Introduction:** A text block explaining the tool's purpose: 'This tool creates a new column in the current view that uses formatting to show changes to a user-selected Text, String or Enumeration attribute compared to a baseline. It is important to note that this script only operates within the context of the current view. Any layout DXL columns created will be lost if not saved into a view. Autopilot Mode automatically creates ChangeTracker columns for Object Heading and Object Text.'
- Mode Selection:** Radio buttons for 'Autopilot Mode' and 'Manual Mode'. The 'Manual Mode' is selected. To its right are checkboxes for 'Set SideBar' and 'Reset SideBar'. A red box highlights the 'Attribute: Object Text' dropdown menu.
- Baseline Selection:** A section titled 'Choose a Baseline to Compare' with a list box containing '0.3 DEMO' and '0.4 TEST'. '0.4 TEST' is highlighted in blue.
- Formatting for Marking Changes:** Checkboxes for 'Inserted text' (Bold, Italic, Underline, StrikeThrough) and 'Deleted text' (Bold, Italic, Underline, StrikeThrough). 'Bold' and 'StrikeThrough' are checked for both.
- Column Details:** Radio buttons for 'Create: Layout DXL column' and 'DXL attribute'. 'DXL attribute' is selected. Below it, 'Only show changes: No' is selected.
- Limit Comparison for Better Performance:** A text input field for 'Maximum characters of text to compare:' with the value '2000'.
- Buttons:** 'Create' and 'Close' buttons at the bottom right.

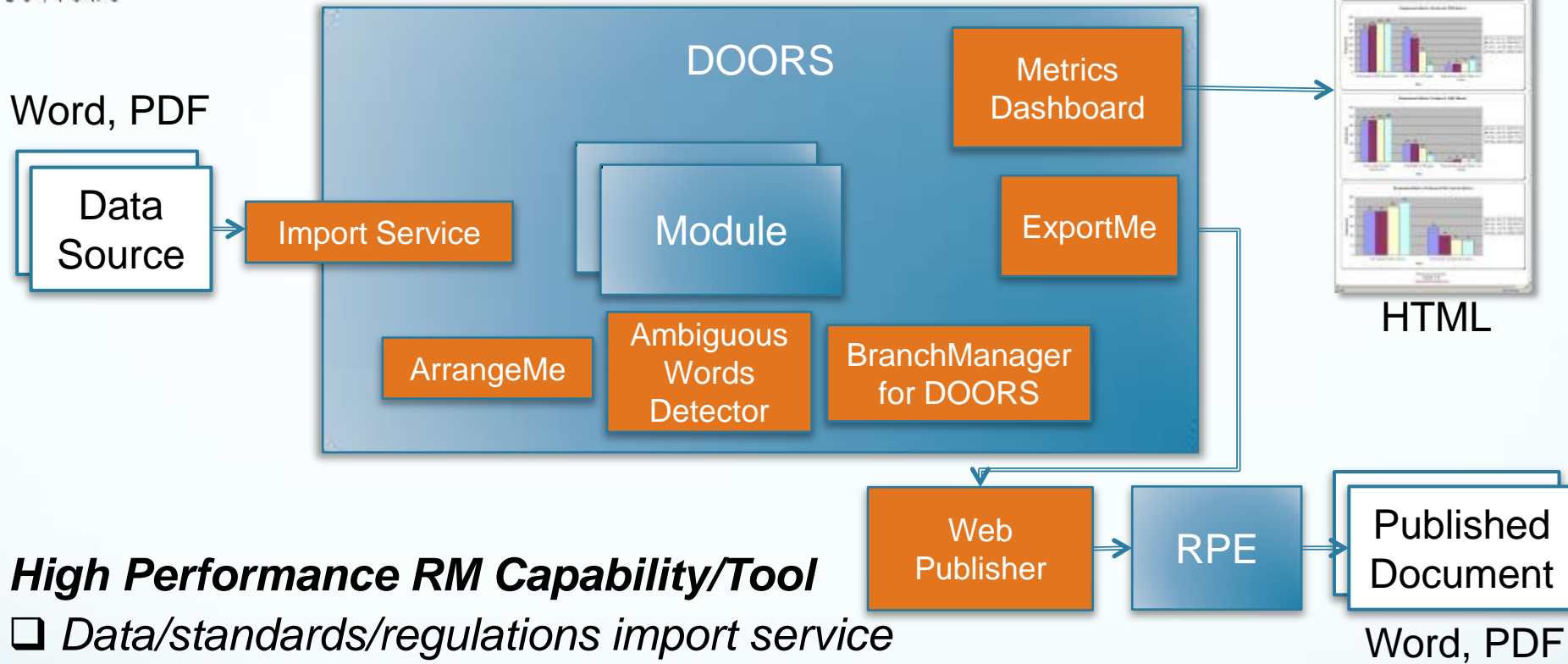
- ChangeTracker™ dynamic history column appears in module displaying changes



The screenshot shows the ChangeTracker application interface. The main window displays a table of user requirements for a car module. A red circle highlights the 'Object Text Dynamic History attribute from 0.4 (TEST)' column, which shows the history of changes for each requirement.

ID	Car user requirements parsed in	Object Text Dynamic History attribute from 0.4 (TEST)
UR1	1 Introduction	
UR133	This module contains the user requirements for a new car to be commercially available by 15th July 2013.	This module contains the user requirements for a new car to be commercially available by 1st July 1999 15th August 2013 .
UR2	2 User types	
UR3	2.1 Nationalities	
UR118	The car will be used in the following countries: UK, USA, Northern Europe, Eastern Europe, Japan and China.	The car will be used in the following countries; UK, USA, Northern Europe, Eastern Europe, Japan <u>and China</u> .
UR5	2.2 User sizes	
UR6	The car shall be suitable for people maximum and minimum sizes 1.3m to 2m weighing 35 pounds to 350 pounds.	The car shall be suitable for people maximum and minimum sizes 1.3m to 2m weighing 35 kilograms 35 kilograms .
UR7	3 Requirements	

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 / [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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ChangeTracker™ For More Information...

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