



WebSphere Education



Linking requirements to Rational RequisitePro

Unit 8

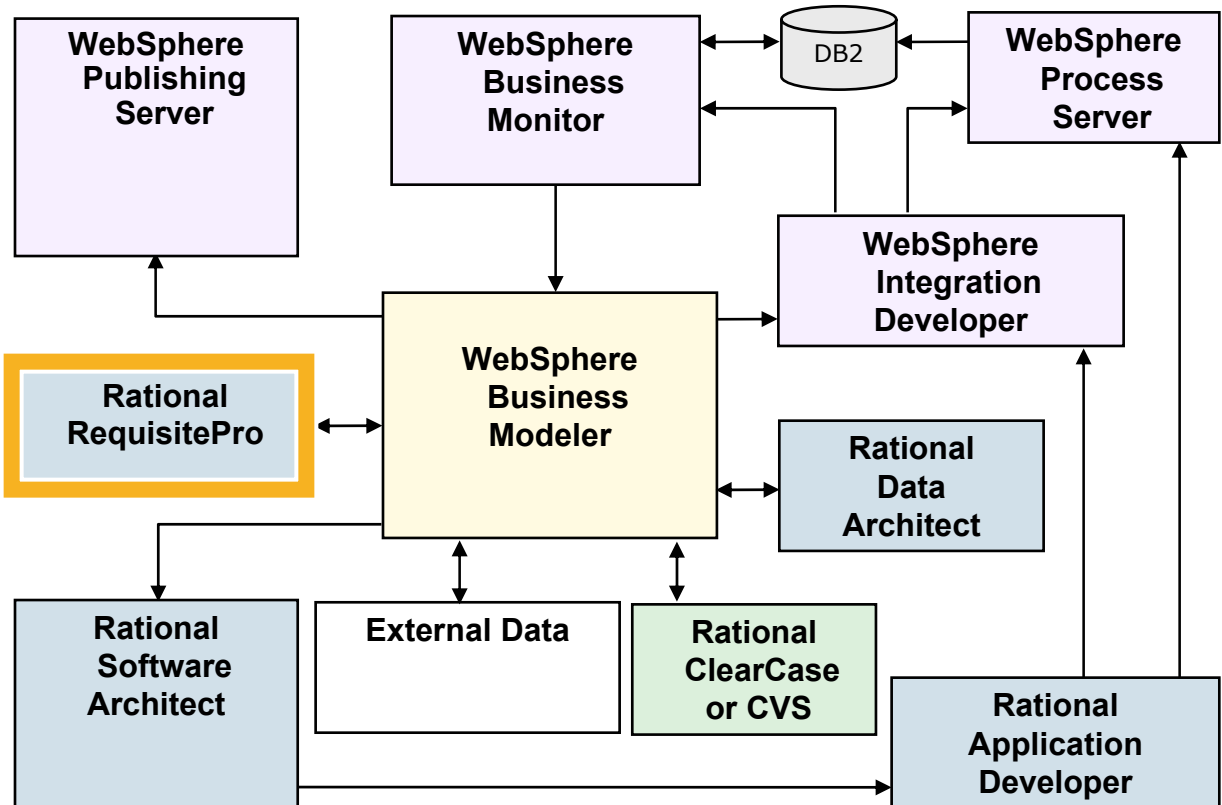


Unit objectives

After completing this unit, you should be able to:

- Explain the purpose and benefits of using IBM Rational RequisitePro
- Distinguish between direct and indirect associations between Modeler elements and RequisitePro requirements
- Work with Requirement perspective in Modeler and associate elements with requirements

Synchronizing requirements with RequisitePro



Overview: IBM Rational RequisitePro



- A requirements and use case management tool

- Creation and storage
- Categorization
- Linkage
- Query
- Notification

- Useful for finding, documenting, organizing, and tracking requirements

- Three basic scenarios for deploying RequisitePro:

- New project
 - You need new tools and processes for requirements tracking
- Existing project, change process
 - You are looking to replace the entire requirements tracking process
- Existing project, augment process
 - You utilize RequisitePro to build on top of the existing requirements tracking process and slowly phase out the old or inefficient tools and processes

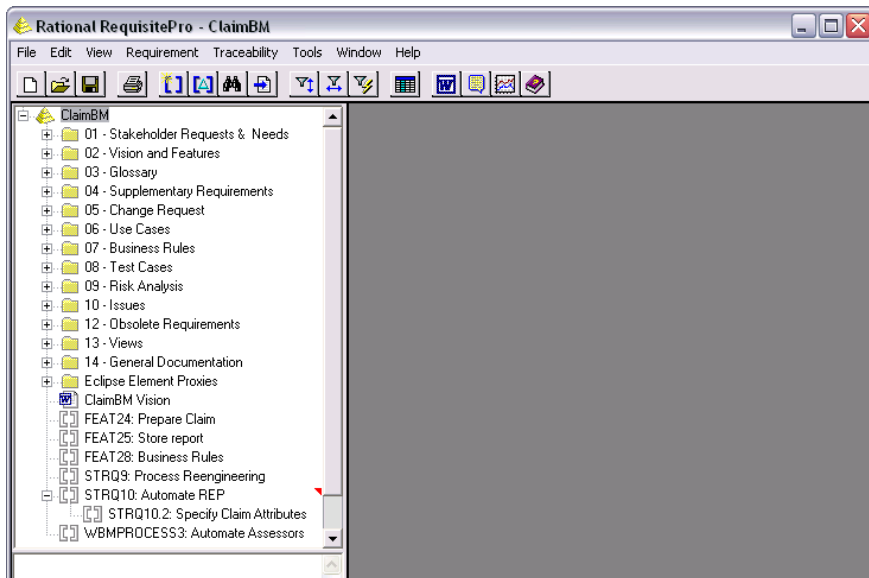
Rational. RequisitePro
Version 7.0.1



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Benefits of using Rational RequisitePro

- Single, centralized requirement collection point for all requirements.
 - Provides a unified interface with which to analyze and compare requirements
- Trace requirements to line items
- Share more information with your development teams about the requirements



RequisitePro terminology

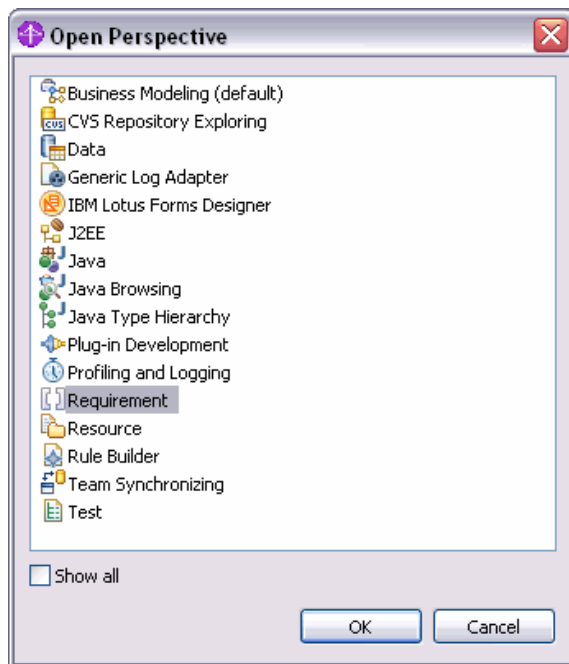
- Requirement
 - Describes a condition or capability to which a system must conform
 - Derived directly from user needs or stated in a contract, standard, specification, or other formally imposed document
- Rational RequisitePro project
 - Used to manage all information and artifacts related to a requirements management project
 - Requirement types
 - Document types
 - Documents
 - Database for storing requirement information
 - Security information for controlling access by users

Rational RequisitePro integration for WebSphere Business Modeler

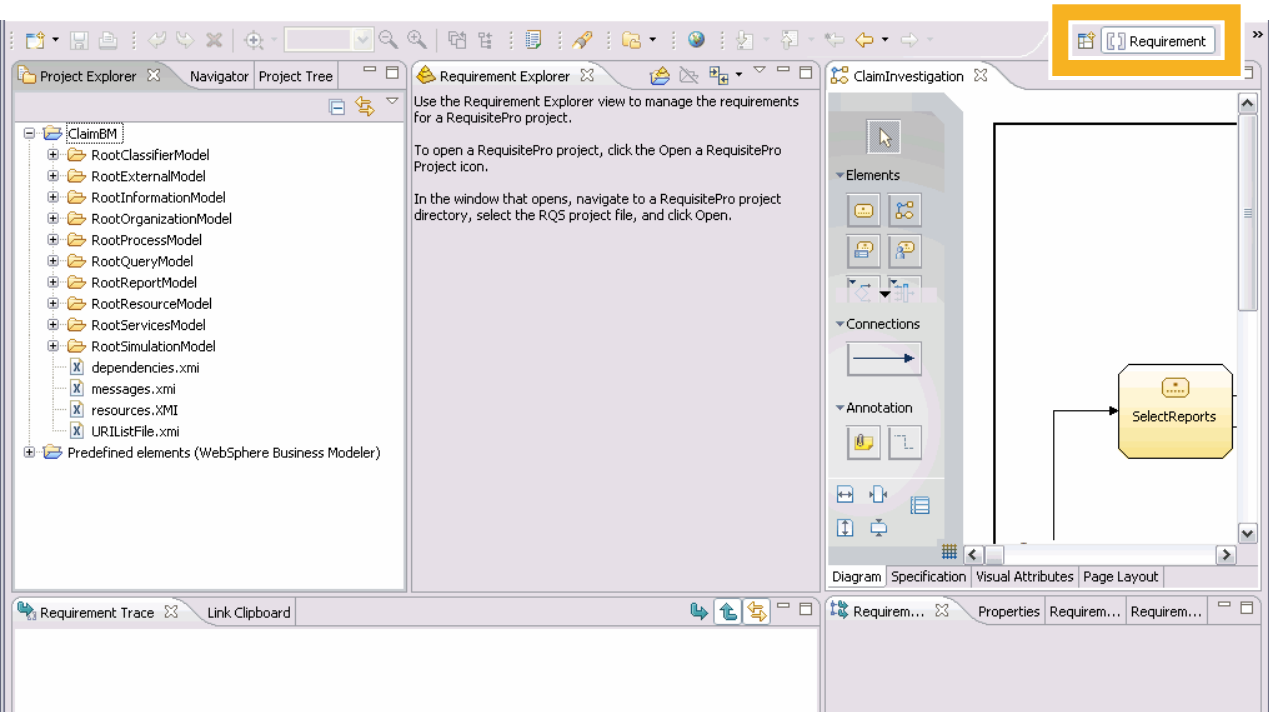
- Rational RequisitePro plug-in for WebSphere Business Modeler
- Rational RequisitePro must also be installed on same machine
- Associate model elements in Modeler with requirements in RequisitePro to provide traceability between requirements and business processes and process elements
- Modeler interacts with contents of Rational RequisitePro projects
- RequisitePro contains the Business Modeling template, which creates projects designed for the Rational RequisitePro integration
- Link requirements from projects created from other templates to WebSphere Business Modeler elements

Opening the Requirement perspective

- **Window > Open Perspective > Other**

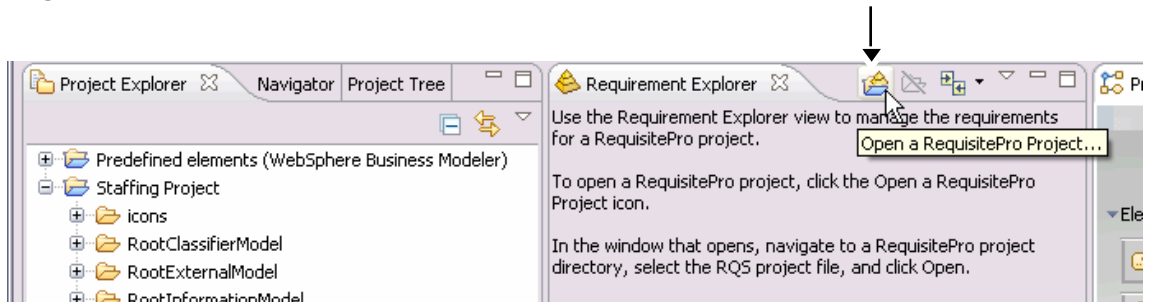


Requirement perspective



Using the Requirement Explorer view

- Right-click from Requirement Explorer or click icon



- Manage requirements by creating, moving, and deleting them
- Organize requirements into packages

Workspace with RequisitePro project opened

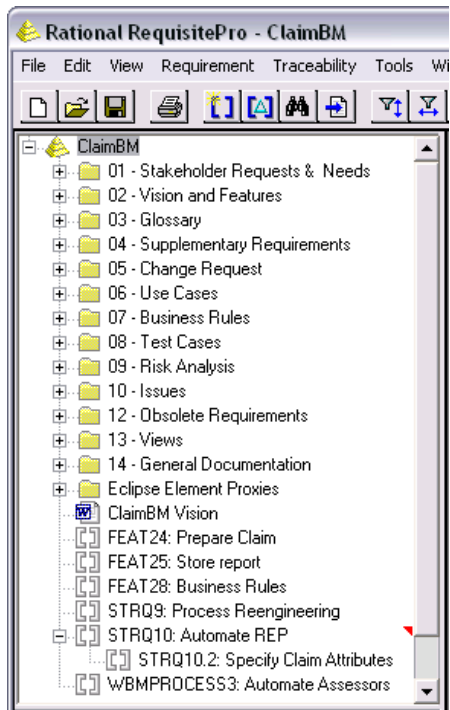
The screenshot displays the IBM RequisitePro workspace with the following components:

- Project Explorer:** Shows the project structure for 'ClaimBM', including Business Items, Claim, ClaimInvestigation, Processes, Resources, Organizations, Classifiers, Reports, Queries, Business services, Business service objects, and Predefined elements (WebSphere Business Modeler).
- Requirement Explorer:** Shows the hierarchy of requirements for 'ClaimBM', including Stakeholder Requests & Needs, Vision and Features, Glossary, Supplementary Requirements, Change Request, Use Cases, Business Rules, Test Cases, Risk Analysis, Issues, Obsolete Requirements, Views, General Documentation, Eclipse Element Proxies, ClaimBM Vision, FEAT24 Prepare Claim, FEAT25 Store report, FEAT28 Business Rules, **STRQ9 Process Reengineering** (highlighted), STRQ10 Automate REP, STRQ10.2 Specify Claim Attributes, and WBMPROCESS3 Automate Assessors.
- Requirement Trace:** Shows the trace for 'STRQ9 Process Reengineering'.
- Requirement Query Results:** Displays the properties of the selected requirement.

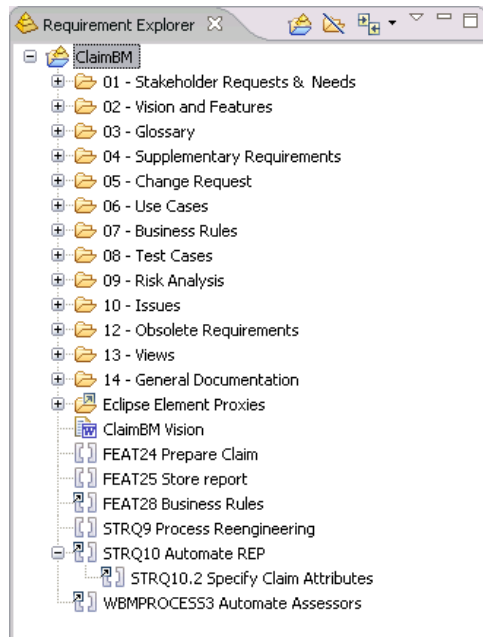
Property	Value
Attributes	
Assigned To	Unassigned
Contact Name	
Cost	
Difficulty	Medium
Estimated Development Hours	

Requirement Explorer: Comparison between RequisitePro and Modeler

Requirement Explorer in Rational RequisitePro

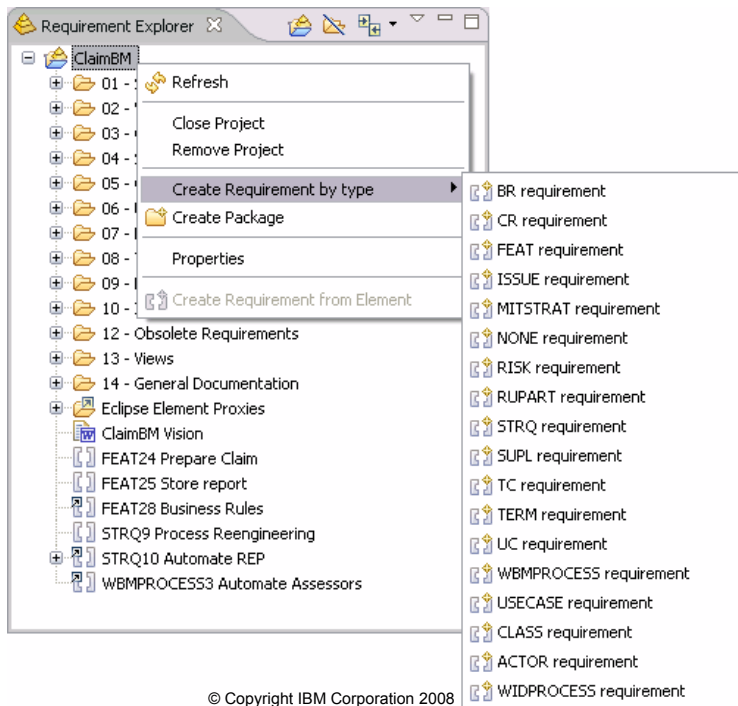


Requirement Explorer in WebSphere Business Modeler



Creating requirements

- Right-click project or package in Requirement Explorer and select requirement type to be created

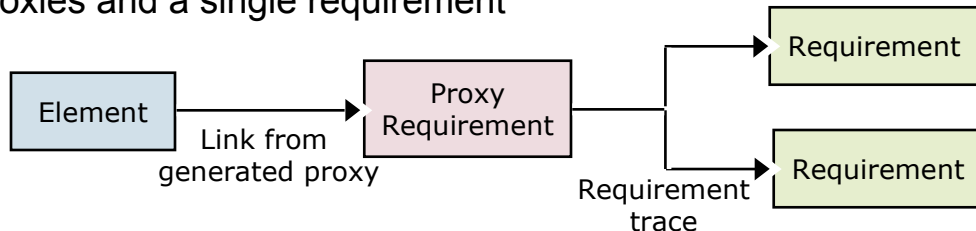


Associations between requirements and Modeler elements

- Associate requirements with Modeler elements quickly by dragging artifacts between views
- Create, view, and navigate to associated artifacts within Modeler
- Manage your Modeler elements with attributes, such as priority and status, in RequisitePro
- Establish traceability to requirements to indicate dependencies and ensure that your design satisfies your project requirements
- Monitor the impact of change within your project
- Develop use cases in RequisitePro and then model them
- Change the name and text of a requirement in either product and synchronize them with Modeler elements in direct associations based on rules, which you can configure
- Navigate between Modeler elements and associated requirements in the Requirement Explorer view, RequisitePro, and Microsoft Word requirements documents

Association types (1 of 2)

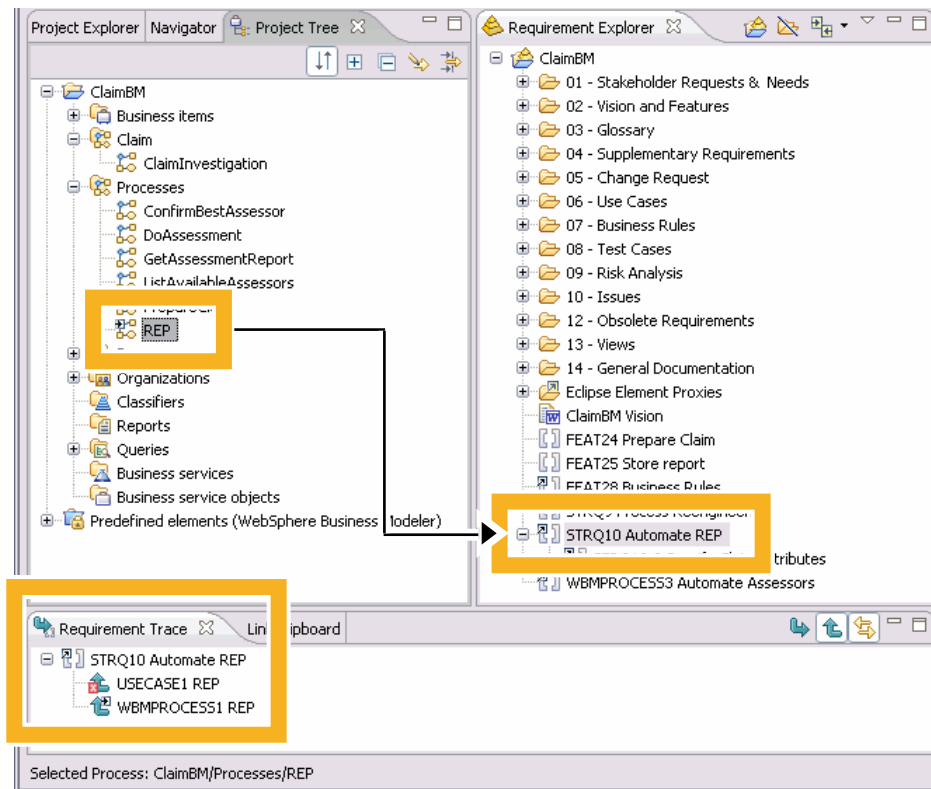
- You can link requirements and Modeler elements with direct or indirect associations
 - Use the integration to synchronize the direct associations
- Direct association
 - Associates a Modeler element and a requirement and synchronizes both artifacts so that you can manage them as a single, conceptual item
- Indirect association
 - Links Modeler elements and requirements through proxy requirements and traceability
 - Useful for creating many-to-many relationships with traceability between multiple requirements and a single proxy or between multiple proxies and a single requirement



Association types (2 of 2)

- Links between Modeler elements and requirements
 - A *link* is a connection between a requirement and a Modeler element in the Navigator, Project Explorer, or Project Tree view
- Requirement synchronization
 - When you link a Modeler element and requirement with a direct association, you must synchronize the name and text fields of the Modeler element and requirement
 - Synchronization resolves a mismatch in the name and text of requirements and Modeler elements

Associating Modeler element with RequisitePro requirement



Checkpoint: Linking requirements to Rational RequisitePro

Your instructor will review these questions with you as a group. If time permits, the instructor may provide you time to answer the questions on your own before the group discussion.

1. What is Rational RequisitePro primarily used for?
2. What is a direct association?
3. What is an indirect association?

Checkpoint solutions: Linking requirements to Rational RequisitePro

1. Finding, documenting, organizing, and tracking requirements.
2. A link that associates a Modeler element and a requirement and synchronizes both artifacts so that you can manage them as a single, conceptual item.
3. An indirect association links Modeler elements and requirements through proxy requirements.

Unit summary

Having completed this unit, you should be able to:

- Explain the purpose and benefits of using IBM Rational RequisitePro
- Distinguish between direct and indirect associations between Modeler elements and RequisitePro requirements
- Work with Requirement perspective in Modeler and associate elements with requirements

Exercise overview

In this exercise, you will:

- Use Requirement perspective
- Open RequisitePro project
- Associate Modeler elements with requirements