





WebSphere Business Modeler overview

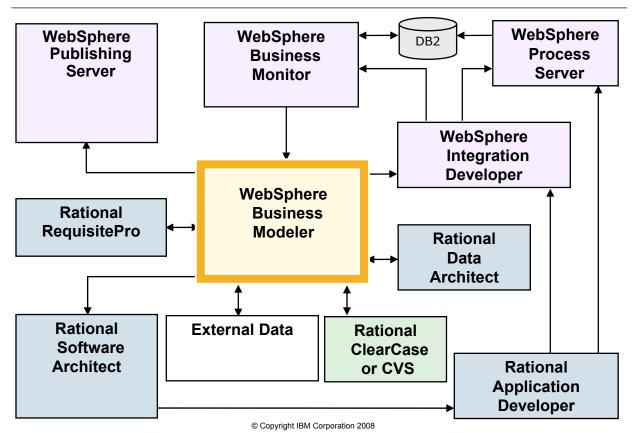
Unit 3

Unit objectives

After completing this unit, you should be able to:

- Explain the value of WebSphere Business Modeler
- Describe the features in WebSphere Business Modeler
- Describe the user interface
- Explain where to find help contents

Creating a model using WebSphere Business Modeler



WebSphere Business Modeler value

- Provides a common language for effective business and IT collaboration
- Allows people who know the business to model the business
- Business-focused users understand and transform their businesses through advanced business modeling, simulation, analysis, reporting, and collaboration capabilities
 - Understanding business models can increase return on investment
 - Add business measures to define key performance indicators (KPIs)
 - Add metrics that measure business process performance
 - Integrates with WebSphere Business Monitor to report on process performance
- IT-focused users export models to multiple development environments to jump-start application development

WebSphere Business Modeler supports a heuristic approach

- Heuristic approach
 - Used for problems that lack an optimal solution such as a process design
- Heuristic problem solving
 - Involves creating a set of rules or a procedure to solve problems
 - Uses experimental and trial-and-error methods
 - Based on requirements and constraints
- Potential process requirements and constraints
 - Time to complete
 - Cost to complete
 - Number of resources available
 - Schedule of resources
 - Number of paths or cases to follow
 - Frequency of process instances and starts

WebSphere Business Modeler: Documentation features

- Captures and models sequences of activities, complex logic, and business rules
- Specific modeling constructs to represent different types of work and flow logic
- Ability to represent the process in two different layouts, freeform and swimlane, and switch back and forth as needed
- Elements to represent different types of work
- Structures to represent the organization of the resource elements
- Storage of several different types of process-related information based on the level of analysis to be performed
- Ability to attach additional process documentation
- A set of catalogs to organize all model information

WebSphere Business Modeler: Simulation features

- Simulation allows you to assess process performance, generate statistics, and pinpoint potential areas of improvement
- Average or statistically-varying durations can be applied to work activities to analyze cycle time
- Resources assigned to activities are included when calculating process costs
- Flows can be animated during simulation, allowing visualization of real-time flow of process
- Simulation results are available for analysis and reference
- Simulation enables determination of the most efficient model prior to implementation by conducting "what-if" analysis

WebSphere Business Modeler: Analysis features

- Visual organization
 - Color-code the elements by role, classification, or organization units
 - Display labels above and below process model elements
- Static analysis
 - Displays activities by organization, location, classification
 - Displays role and resource cost and availability
 - Matrix analysis shows associations between model elements
- Simulation permits analysis of workloads and bottlenecks
 - Cycle time
 - Costs
 - Resource utilization
- Dynamic analysis
 - Validate current conditions
 - Evaluate the benefits of different alternatives
 - Build a business case for the future

WebSphere Business Modeler: Support for other products and multiple-user environments

- Seven modes designed to support specific development efforts
 - Three for model development and analysis
 - Four for technology implementation
- Multi-user support (team support)

compare versions, audit trail

- Use a repository to share Modeler files
- Basic
 Intermediate
 Advanced
 WebSphere Business Integration Server Foundation
 WebSphere MQ Workflow
- Features such as share, update, commit, synchronize, get contents,

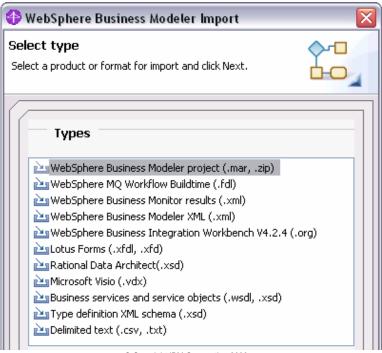
WebSphere Process Server

RileNet Business Process Manager

- View history of all changes to the models
- CVS and ClearCase repository providers are supported
- Publishing support
 - Draft and released versions
 - Access control
 - Collaboration with those that do not have modeler
- Support for creation of business measures for monitoring

Importing

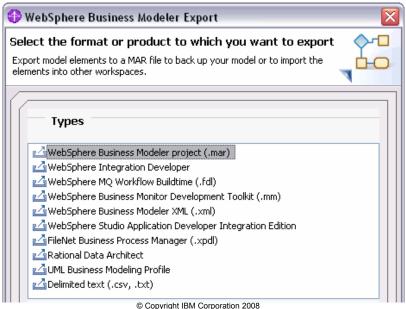
 Importing information from a variety of sources facilitates building business process models quickly



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Exporting

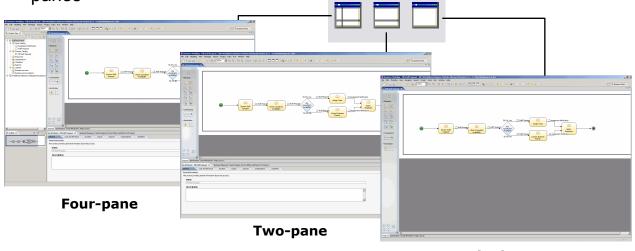
- Exports information from Modeler to another application
- No deployment-related information is generated when you export files
 - This information will be generated when you import the files into Application Developer Integration Edition, WebSphere Integration Developer, or WebSphere MQ Workflow.



User interface: Eclipse

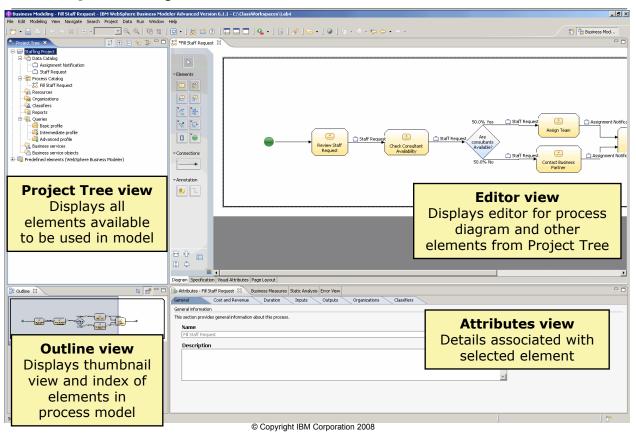
- WebSphere Business Modeler's user interface is built on Eclipse, an open source framework that controls multiple panes in one window
- The interface can be changed quickly by clicking a button for standard settings
 - Switch to four-pane, two-pane, or single-pane layout

Customize layout: Add more than four panes, relocate panes, or resize panes

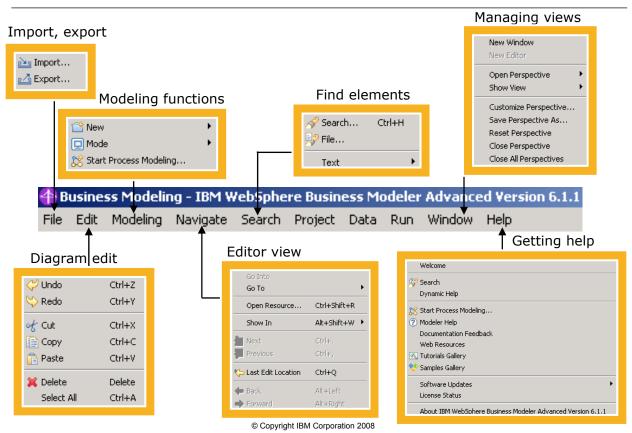


Single pane

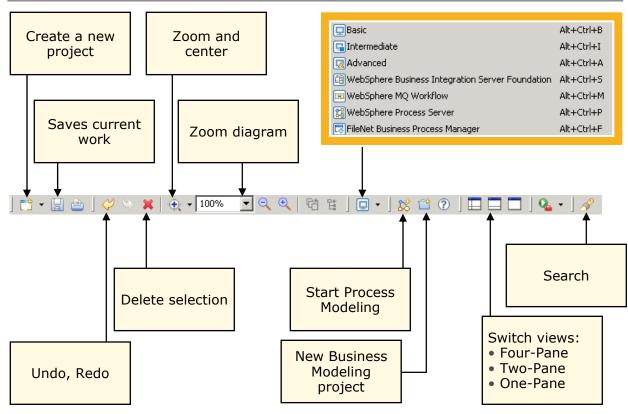
Four-pane layout



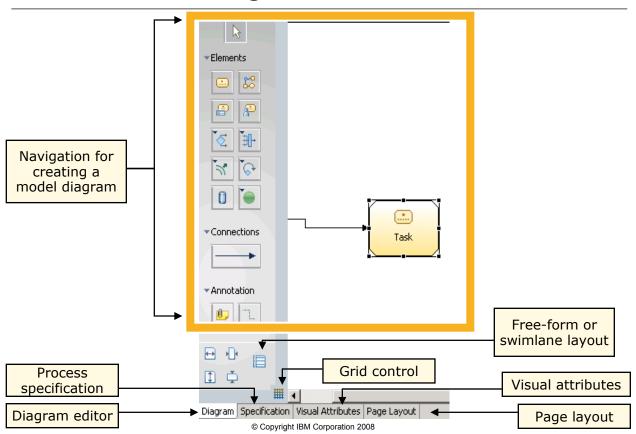
Basic menu bar navigation



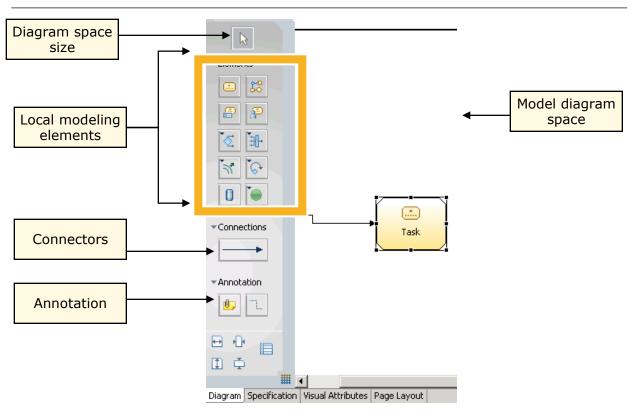
Basic tool bar navigation



Process editor navigation

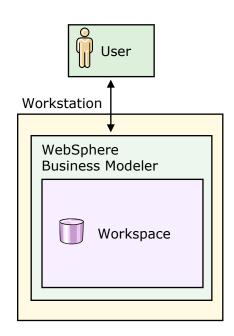


Model diagram creation navigation



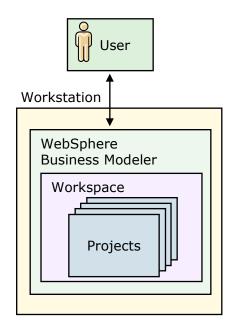
Workspace

- A folder in which WebSphere
 Business Modeler stores model
 information and user preferences on
 the hard drive
- Only one workspace can be open for each instance of WebSphere Business Modeler
- Each workspace can contain multiple projects
 - Elements across all projects in the same workspace cannot share the same name

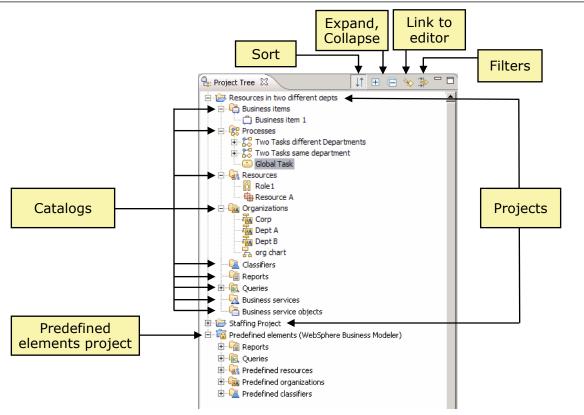


Project

- A grouping of models and other artifacts related to a single work effort
- Top-level container that holds all of the catalogs, processes, and modeling elements related to a particular work effort
 - A single project can hold all of the modeling elements for your company or organization, or
 - A separate project can be created for different business processes, functions, or work groups
 - Separate projects in the same workspace can share elements through use of references
 - Common project should be used for large modeling efforts
- Creating a project is the first step in modeling a new process



Project Tree view



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Basic elements used in a process model

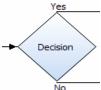




Service



- Basic building block representing an activity in a process model
- Lowest level of work portrayed in a process
- Process
 - Sequence of activities that are linked by flows of control and data
- Service
 - External process outside the organization that can be used within the organization's processes



Decision

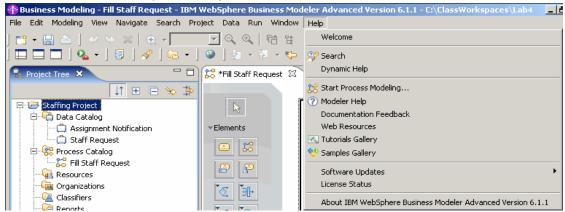
- Flow control construct: different from activities like tasks or processes
- Used to show alternate paths from a preceding activity
- **Business** item
 - Business document, work product, or commodity transformed in business operations and is passed from one activity to the next
- Repository
 - Storage area for information used in a business process © Copyright IBM Corporation 2008

- - Business item

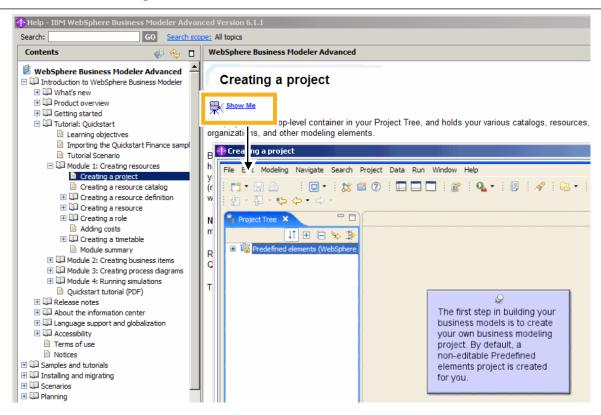


WebSphere Business Modeler Help menu

- Welcome
 - Complete set of support topics: what's new, tutorials, samples, hints and tips, product support, Web resources
- Start Process Modeling
 - Launches a wizard to create a new project quickly
- Modeler Help
 - Help database
- Software Updates
 - Retrieve the latest product updates

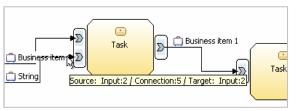


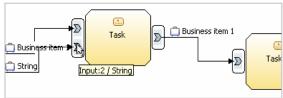
Modeler Help: Video tutorials



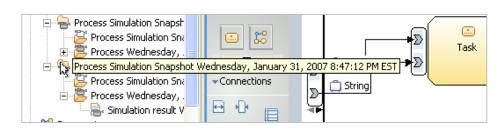
Hover help

Hovering cursor over an element displays associated information









Checkpoint: WebSphere Business Modeler overview

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 are the four panes in Modeler when using the Apply 4-pane layout?
- 2. What is the difference between a workspace and a project?
- 3. Name the types of analysis you can perform using Modeler.
- 4. Name some of the basic elements you use in your process model.

Checkpoint solutions: WebSphere Business Modeler overview

- 1. Project Tree, outline, editor, and attributes view
- 2. A workspace is a folder in which WebSphere Business Modeler stores model information and user preferences on the hard drive.
 - A project is the top-level container that holds all of the catalogs, processes, and modeling elements related to a particular work effort.
- 3. Visual analysis, static analysis, and dynamic analysis
- Process, service, task, decision, business item, and repository

Unit summary

Having completed this unit, you should be able to:

- Explain the value of WebSphere Business Modeler
- Describe the features in WebSphere Business Modeler
- Describe the user interface
- Explain where to find help contents

Exercise overview

In this exercise, you will:

Create a simple process called Fill Staff Request

Review activity: Using Help

- 1. List the static analysis that includes the names of the connectors on the path.
- 2. What are the definitions of stop and end?
- 3. What are the definitions of roles and resources?
- 4. How do you navigate the Project Tree using the keyboard?
- 5. You were not able to connect to CVSNT repository during the checkout. What is a possible cause?
- 6. You were examining the resources costs summary report. There is a column called Annual Per Time Unit Cost. How does Modeler derive this value?
- 7. Where do you find the new functions and features for the current release?
- 8. During the model validation, you got an error ZNO000409E Incompatible input and output on connection. How do you fix this error?

Solutions: Using Help

- 1. Paths unable to be followed analysis
- A stop node marks the end of a process.
 An end node is a visual marker within a process that identifies where a particular flow ends.
- Roles add additional characteristics to resources.
 Resources represent the people, equipment, or material used to perform a project or a task.
- 4. You can navigate the Project Tree using the keyboard instead of using a mouse. To move from node to node in the Project Tree, use the up and down arrow keys. To expand and contract nodes, use the left and right arrow keys, respectively
- The cause may be due to an incompatibility between CVSNT and the Eclipse platform on which WebSphere Business Modeler is built. You need to configure CVSNT to fix the incompatibility.
- 6. The annualized cost comes from the cost per time unit values of the role, based on a 366-day (8784-hour) year.
- 7. In the "What's new" section
- 8. ZNO000409E:

Incompatible input and output on connection "connection name." The output of element "element name" does not produce the collection of unique data items required by the input of element "element name."

Action:

Either edit the output of the first element to produce the required date item collection or edit the second element to expect a different input.

References

- IBM Redbooks: www.redbooks.ibm.com
 - Best Practices for Using WebSphere Business Modeler and Monitor (REDP-4159)
 - Business Process Management: Modeling through Monitoring Using WebSphere V6.0.2 Products (SG24-7148)
 - Downloadable soft copies are free of charge
- developerWorks: www.ibm.com/developerworks
- Certification exam
 - Test 991: IBM WebSphere Business Modeler Advanced Business Analysis and Design