



IBM Software Group

Essentials of Rational XDE

Creating Diagrams in XDE

Rational® software

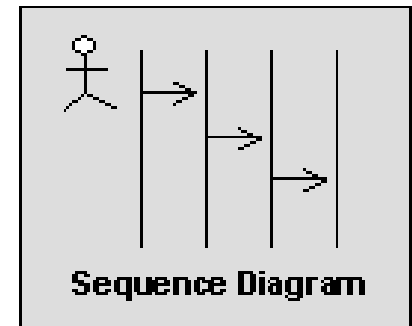
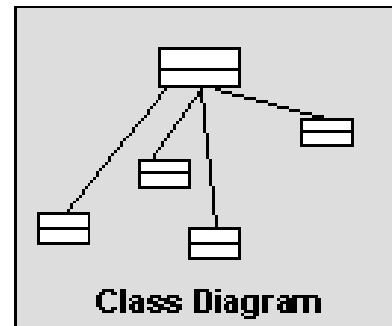
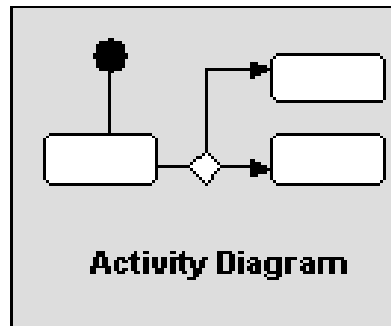
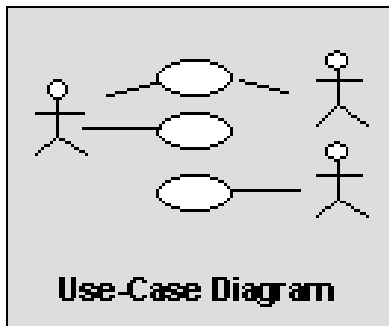


Objectives

- ◆ Create new diagrams in your project
- ◆ Demonstrate how to add model elements to a diagram

Diagrams

- ◆ Diagrams graphically depict a view of a part of your model
- ◆ Different diagrams represent different views of the system that you are developing
- ◆ A model element will appear on one or more diagrams

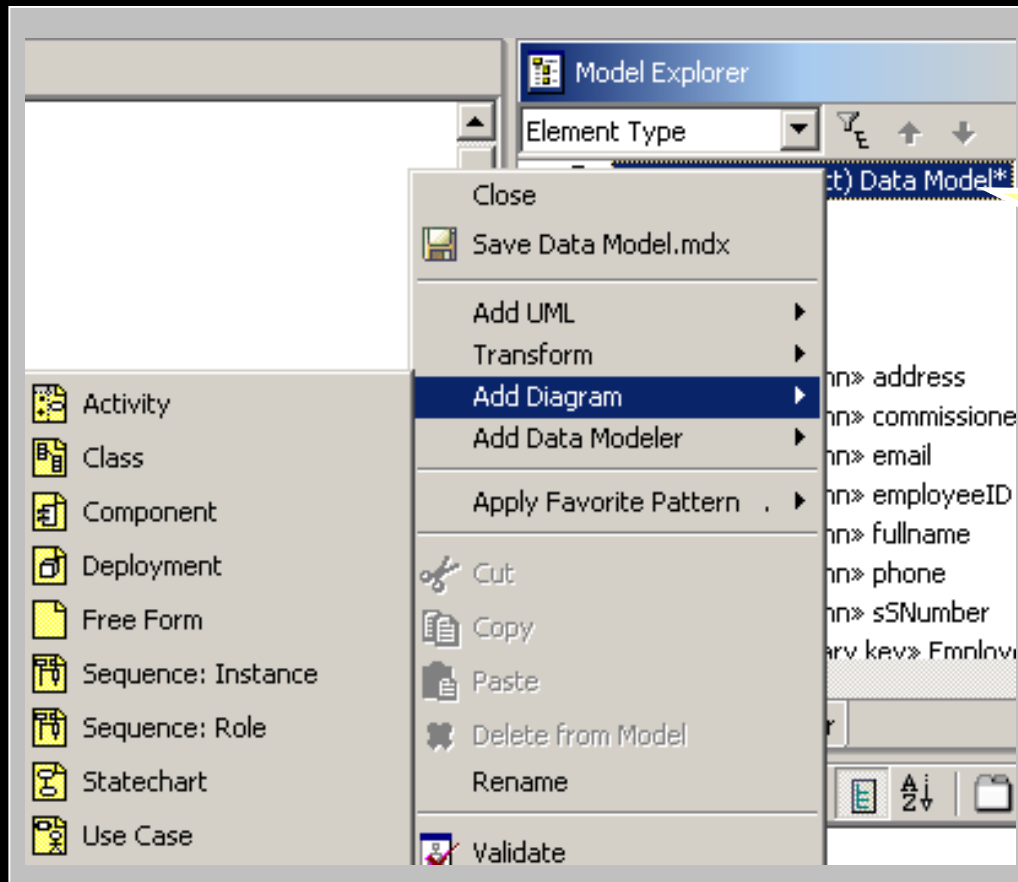


How to Create Diagrams

- ◆ You can create new diagrams:
 - Where?
 - In models
 - In model elements, such as packages, collaborations, or state machines
 - How?
 - Using the Model Explorer
 - Using the Modeling Toolbar

How to Create Diagrams in Models

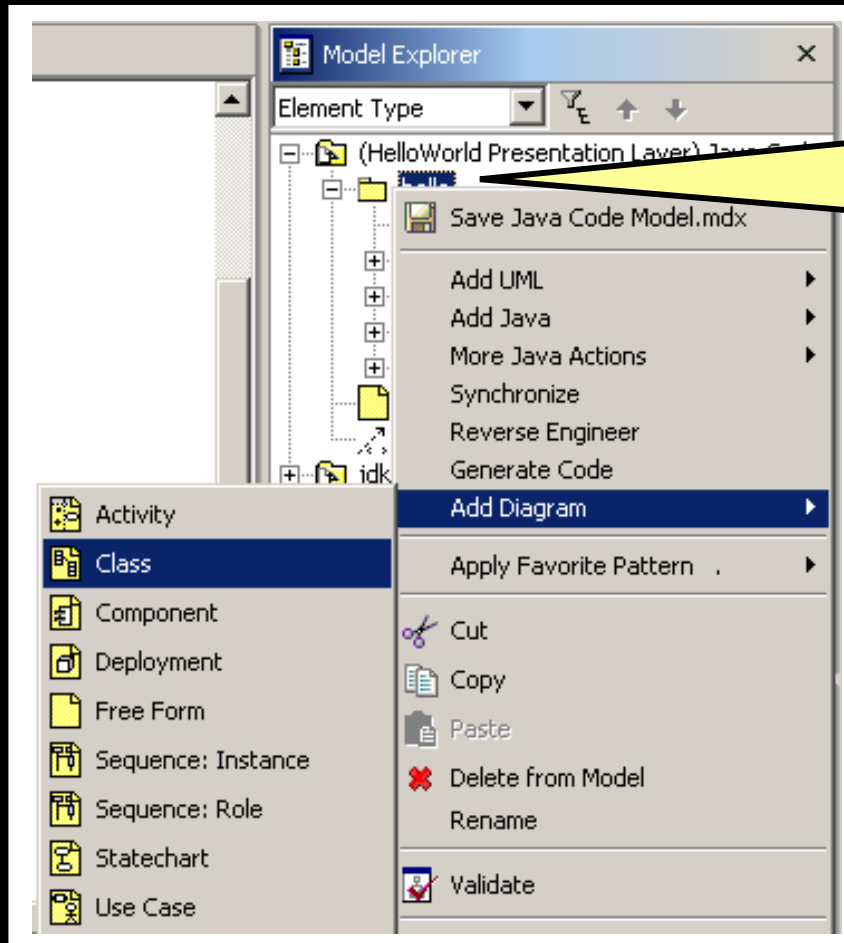
- ◆ To add a new diagram to a model:



In the Model Explorer, right-click a model, click **Add Diagram**, and then click a diagram type.

How to Create Diagrams in Model Elements

- ◆ To add a new diagram under a model element:

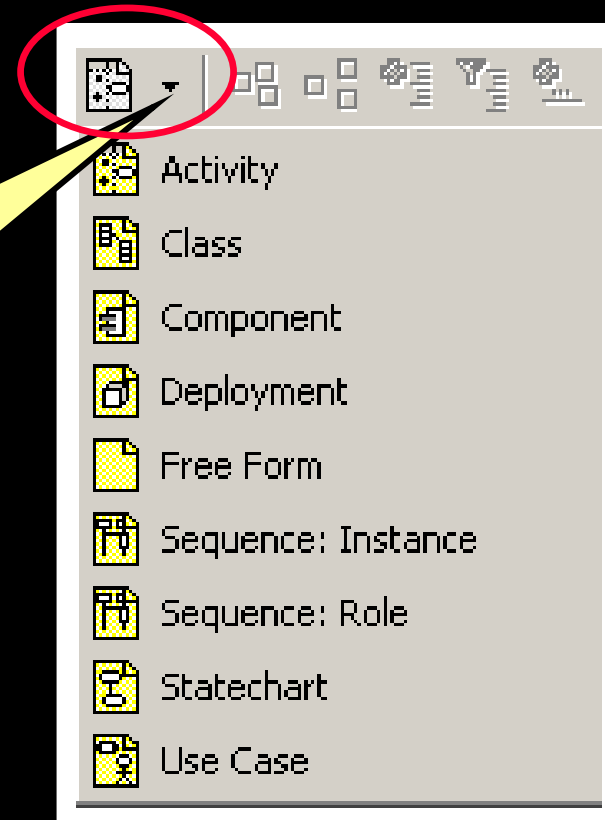


In the Model Explorer, right-click the model element under which you want to add a diagram, click **Add Diagram**, and then click a diagram type.

How to Create Diagrams Using the Toolbar

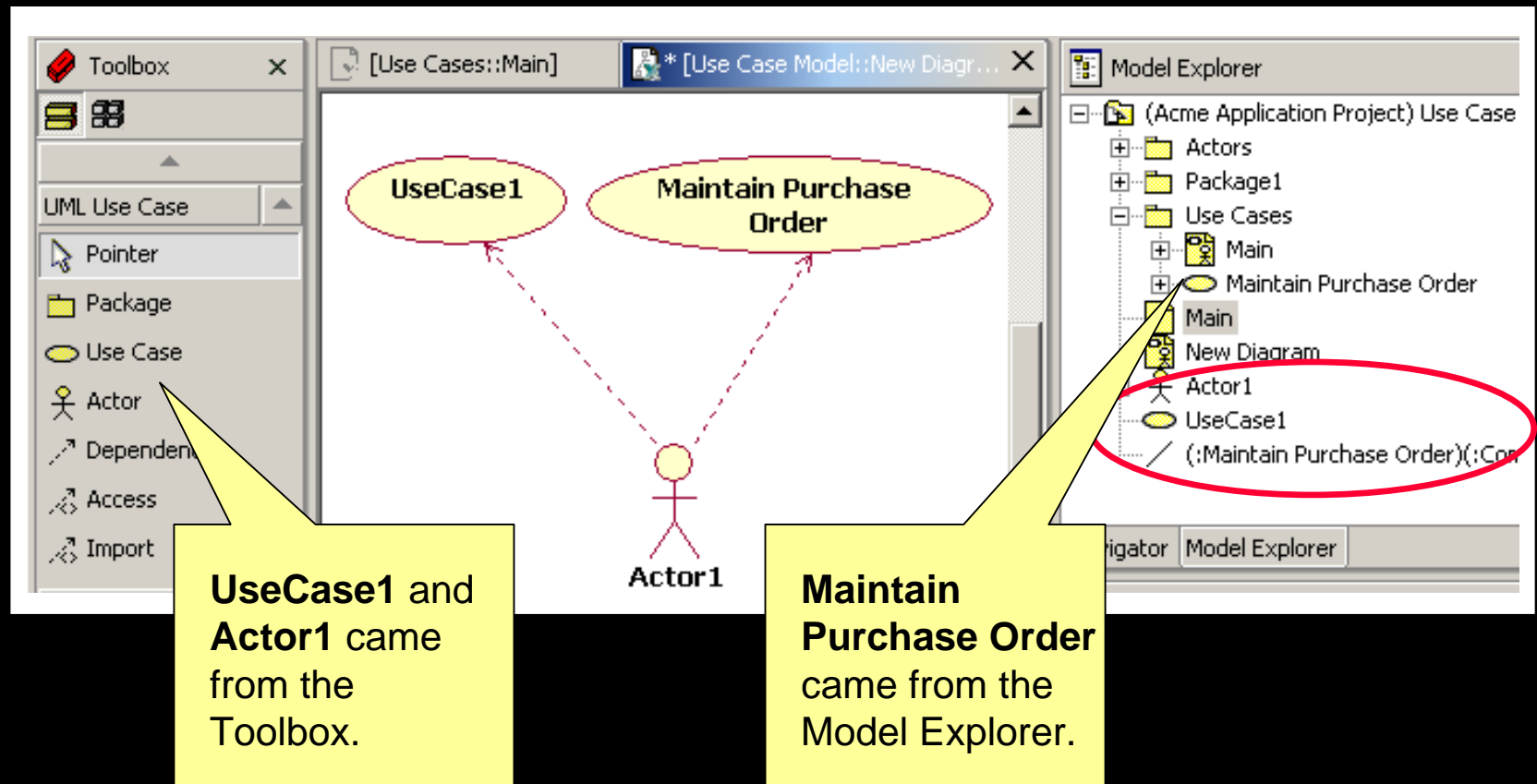
- ◆ To add a new diagram using the toolbar:

Select a model in the Model Explorer. On the toolbar, click the **Add Diagram** button and then click a diagram type.



Adding Model Elements to the Drawing Area

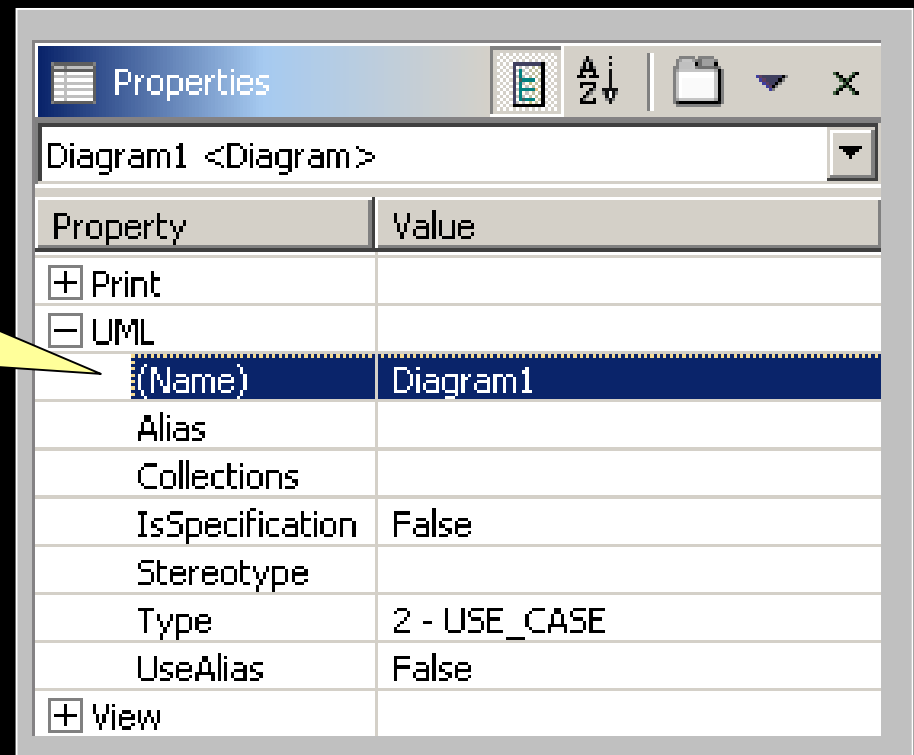
- ◆ Drag elements from the toolbox or the Model Explorer to add them to your model.



Naming Diagrams

- ◆ Diagram names usually identify the contents or purpose of the diagram.
- ◆ You can name a diagram in the:
 - Model Explorer
 - Properties window

In the Properties window, expand **UML**, click **Name**, type the new diagram name, and press ENTER.

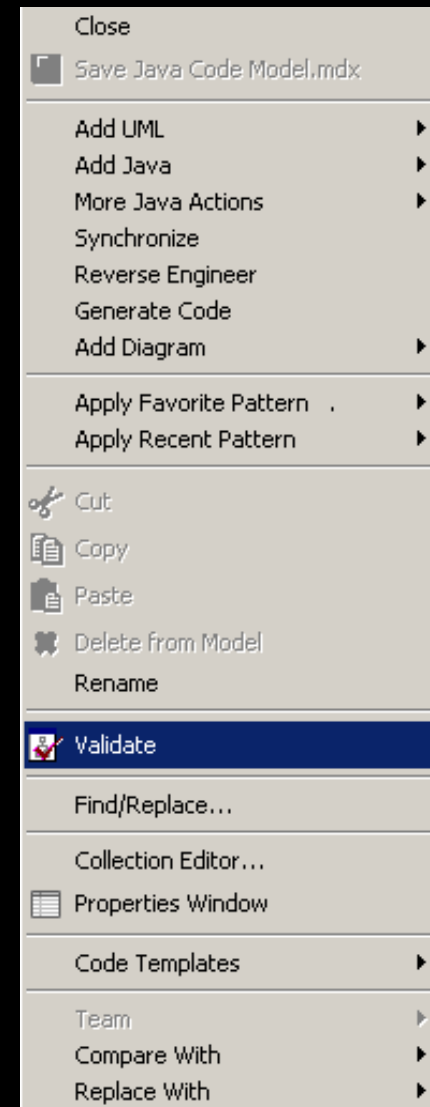


Linking Diagrams

- ◆ XDE provides linking between diagrams to ease navigation.
- ◆ You can add a link by:
 - Adding a note to the diagram
 - Dragging target diagram onto a note
- ◆ You can double-click a note to view the target diagram.

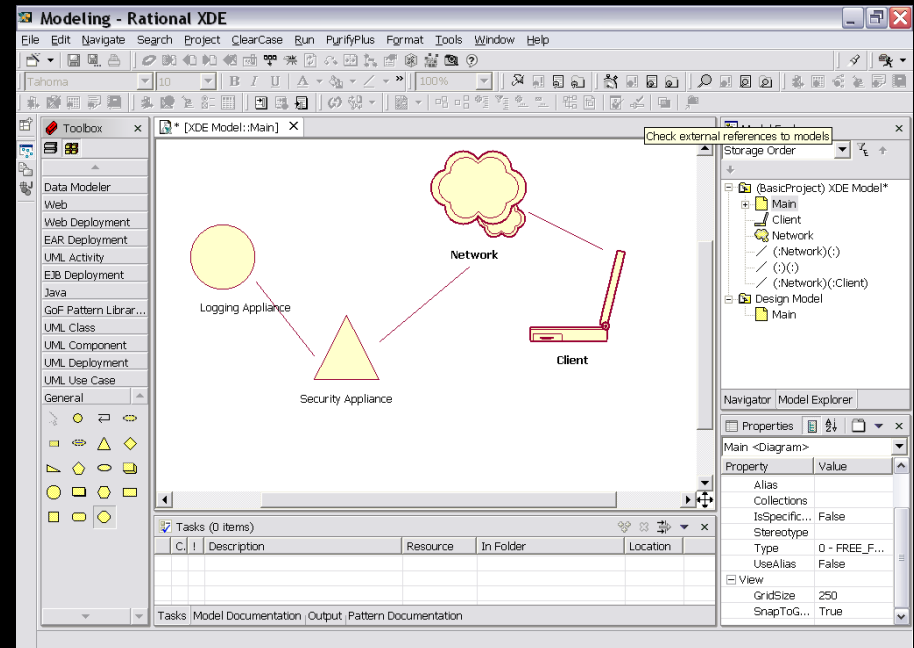
Validating a UML Diagram

- ◆ Validates model elements for UML compliance
- ◆ Validates any or all elements in model
- ◆ Validation results appear in Output and Tasks windows



Free-Form Diagrams

- ◆ Free-form diagrams can contain both UML and non-UML elements
- ◆ You can use them to:
 - Enhance model
 - Convey information that is particular to your organization or project



Repurposing a Free Form Diagram

- ◆ In the Properties window, you can change the type of a diagram from free-form to:

- Class
- Use case
- Component
- Deployment

The screenshot shows a 'Properties' window for a diagram named 'Diagram1'. The window has a title bar with standard icons. Below the title bar is a dropdown menu showing 'Diagram1 <Diagram>'. The main area is a table with two columns: 'Property' and 'Value'.

Property	Value
+ Print	
- UML	
(Name)	Diagram1
Alias	
Collections	
IsSpecification	False
Stereotype	
Type	U - FREE FORM
UseAlias	False
+ View	

How Many Diagrams Need to be Created?

◆ Depends

- You use diagrams to visualize system from different perspectives
- No complex system can be understood in its entirety from one perspective

◆ Model elements will appear on one or more diagrams

- For example, a Class may appear on one or more class diagrams, be represented in a Statechart diagram, and have instances appear on a Sequence diagram
- Each diagram will provide a different perspective

Lab: Creating Diagrams

- ◆ In this lab, you will:
 - Create a new package
 - Create a package in the design model
 - Add classes in the Model Explorer
 - Create a class diagram



More Information

- ◆ Other IBM courseware that provides insights into UML and visual modeling includes:
 - DEV275: Essentials of Visual Modeling
 - DEV475: Mastering Object-Oriented Analysis and Design with UML
 - DEV490: Mastering Rational XDE for J2EE Enterprise

Summary

- ◆ Diagrams provide a means of visualizing and manipulating the model elements.
- ◆ Since diagrams can illustrate multiple views of a model, the same model element can be represented in one or more diagrams.
- ◆ The diagram name usually identifies the contents or purpose of the diagram.

