

Describe™

Enterprise 6.1.0

New Features Guide



Embarcadero's Describe Enterprise is a next-generation UML design and development tool that offers both rich modeling features and productivity-focused development utilities embedded within your choice of leading Java IDE.

With superior navigation, wizard-based automation of common tasks, and synchronous, round-trip engineering, Describe Enterprise turns the UML into a live tool for understanding and manipulating your code.

Describe Enterprise 6.1.0 Prerequisites	2
Installation and Setup.....	3
Supported Third Party Products	4
Supported Platforms	4
Most Useful Features.....	2
More New Feature Information	56

Describe Enterprise 6.1.0 Prerequisites

1. In order to use Describe Enterprise 6.1.0, with 5.0.0 of IBM's WebSphere® Studio Application Enterprise (WSAD) Java Integrated Development Environment (Java IDE) you must be using **Windows XP Professional** operating system. .
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Installation

In some cases, when displaying the **About Describe** dialog, the Microsoft® FrontPage® install program may start up and attempt to install files on your machine. If this occurs, you may cancel the installation and this will have no effect on your ability to use Describe.

Installation and Setup

Please note the following important items that are associated with the installation of Describe Enterprise 6.1.0:

- ◆ Please review the Describe Installation Guide prior to installing Describe.
- ◆ Embarcadero Describe 6.1.0 Enterprise Edition uses components also used in Office 2000. Due to a known Office 2000 Windows Installer issue, when launching Java IDE, you may be prompted for the Office 2000 installation image. You have the choice of allowing the Windows Installer to install the components, or clicking Cancel to continue using Embarcadero Describe 6.1.0 Enterprise Edition without installing the components. If you choose not to install the components, the Windows Installer will appear each time you launch Java IDE. For more information on this issue, please refer to the following Microsoft Knowledge Base article (Q304107): <http://support.microsoft.com/default.aspx?scid=kb;EN-US;q304107>
- ◆ Describe requires Microsoft Internet Explorer 5.0 or greater.

Supported Third Party Products

The following third party products were tested with Describe Enterprise 6.1.0:

Software	Version(s)
<ul style="list-style-type: none">IBM WebSphere® Studio Application Enterprise running only Windows XP Professional operating system.Eclipse running only Windows XP Professional operating system.2.1 & 2.1.1Borland JBuilder 7 & 8.Sun ONE Studio 5.0	<ul style="list-style-type: none">5.0.0
Microsoft® Visual SourceSafe	<ul style="list-style-type: none">6.1.0c
<ul style="list-style-type: none">Concurrent Versions System (CVS)CVSNT	<ul style="list-style-type: none">1.11.12.06
Rational® ClearCase®	<ul style="list-style-type: none">2002.05.00
Borland StarTeam	<ul style="list-style-type: none">5.3
Telelogic DOORS	<ul style="list-style-type: none">6.0
Perforce	<ul style="list-style-type: none">2003.1

Supported Platforms

Describe Enterprise 6.1.0 working with WSAD 5.0 and Eclipse 2.1 & 2.1.1 IDE is only supported on the Windows XP Professional operating system.

Most Useful Features

All the Power of Describe Inside the IDE

A substantial portion of the functionality included in Describe 5.x was available when used inside an IDE, but not everything was possible when working in that way. Describe 6.1.0 changes all of that.

The full power of Describe 6.1.0 is accessible to you within the IDE, so you are missing nothing. This includes access to:

- Enhanced Pattern Promotion
- EJB Support
- DOORS 6.0 Integration
- IDE Multiple Project Support
- Type Library Import

You can also turn the different Views inside Forte on or off. Select **View** from the main menu, and select any of the views mentioned above.

IDE Support

JBuilder 7.0, 8.0

Sun ONE Studio, Sun ONE Studio Update 1

WebSphere 5.0 (Windows XP Operating System support ONLY)

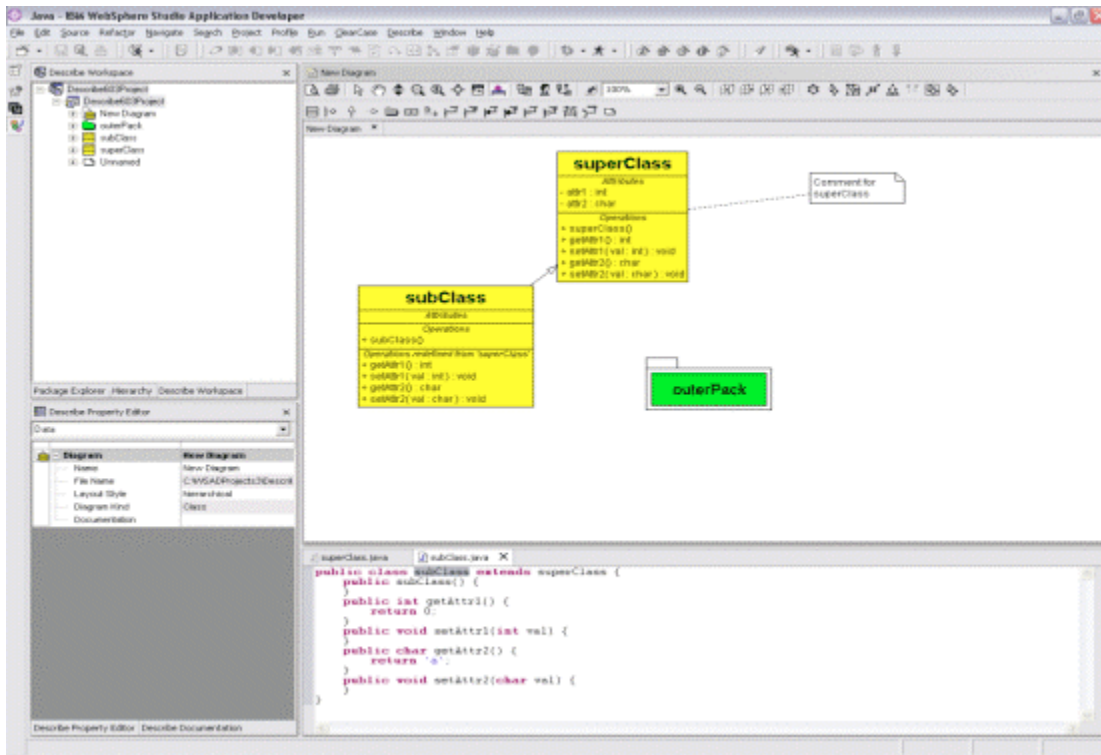
Eclipse 2.1 & 2.1.1 (Windows XP Operating System support ONLY)

UML 2.0 Supported

Describe Enterprise 6.1.0 is the only design tool on the market to implement the emerging UML 2.0 standard. Look for UML 2.0 specifications in the Class and Sequence diagrams created in Describe Enterprise 6.1.0. For more information on UML 2.0, please visit the Object Management Group's web site at <http://www.omg.org/uml>.

New Product Design

Describe Enterprise's Graphical User Interface, menu bar items, toolbars, and context-sensitive shortcut (right-click) menus are greatly enhanced.



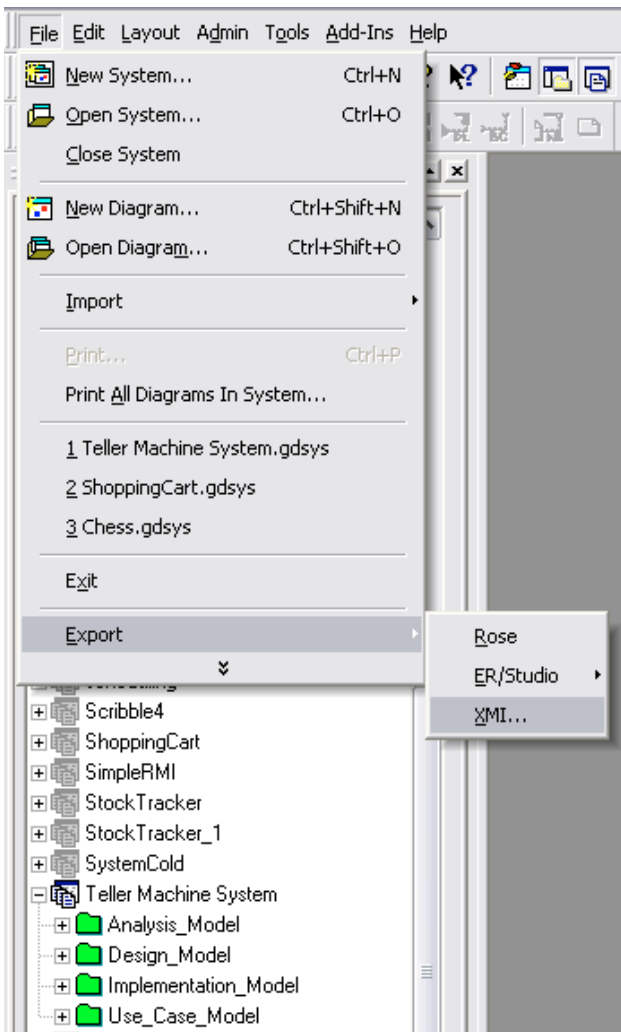
Projects Replace Systems

Describe Enterprise 6.1.0 replaces the old concept of Systems with Projects. These stand-alone *.etd files are stored in workspaces, and are represented as sub-nodes of a workspace in the new Describe Workspace pane. Each project may consist of system model diagrams, objects, and other modeling elements. In any workspace, you can open, close, save, and delete projects, as well as insert specific projects from other workspaces.

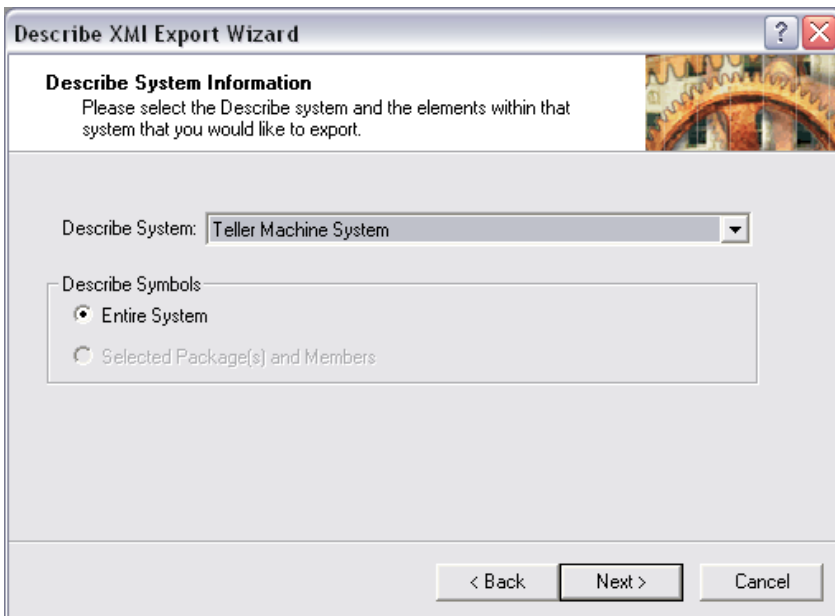
Upgrade Your Describe 5.8 Projects

Describe Enterprise 5.8 System Export to XMI

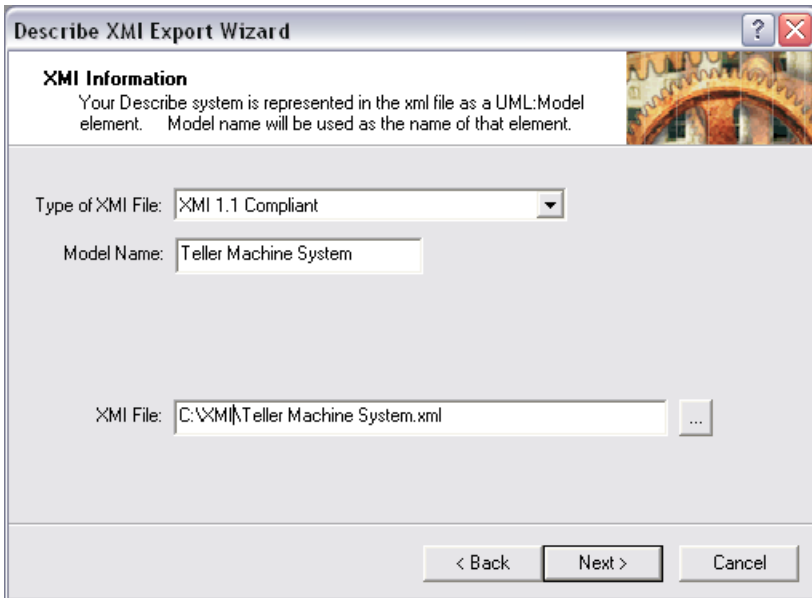
To upgrade your current Describe 5.8 systems to Describe 6.1.0, you will need to export each system to XMI. This process can be done via the FILE menu from Describe 5.8 as seen below.



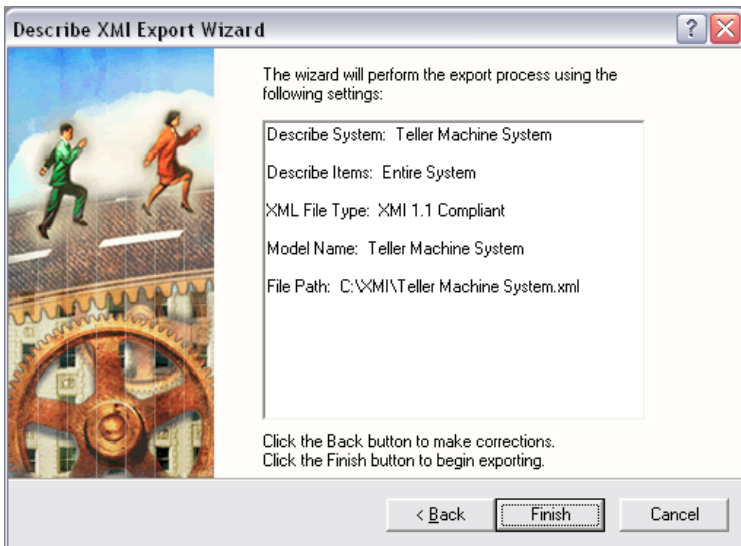
Make sure and select "Entire System" for export.



For workflow, create a folder where you will save the newly exported system as a XMI file. You will need to navigate to this in Describe 6.1.0 for the upgrade process.

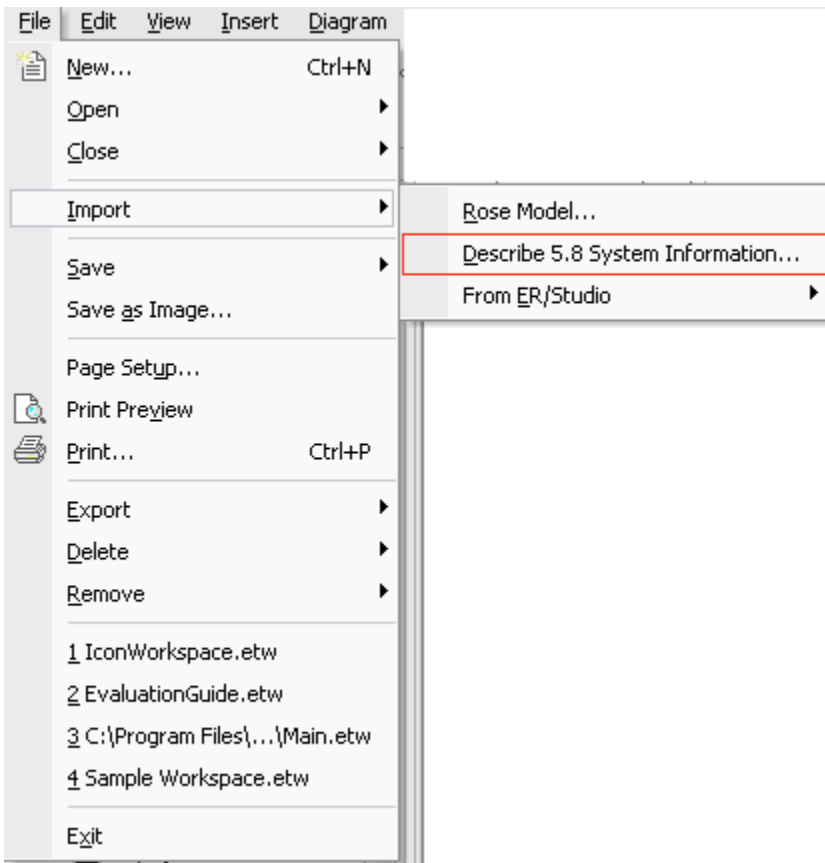


Once the export has finished, close down Describe 5.8 and open up Describe 6.1.0.

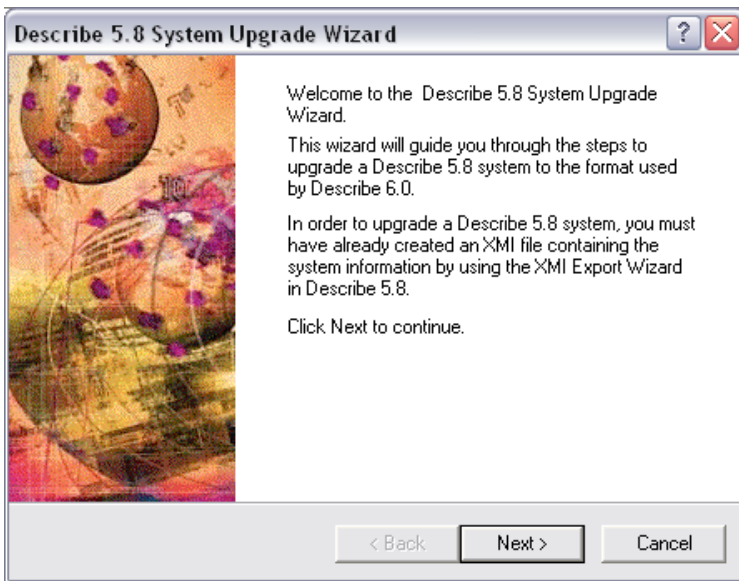


Describe Enterprise 6.1.0 System Upgrade from Describe 5.8

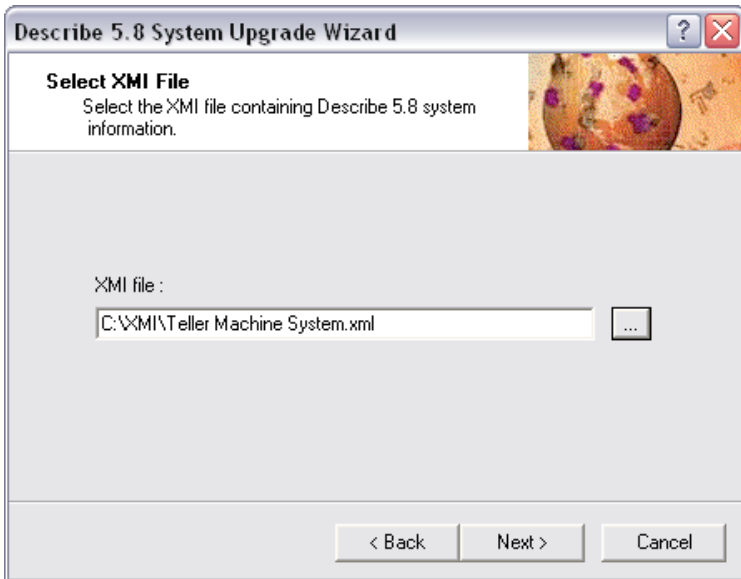
From the FILE menu in Describe 6.1.0 select Import → Describe 5.8 System Information.



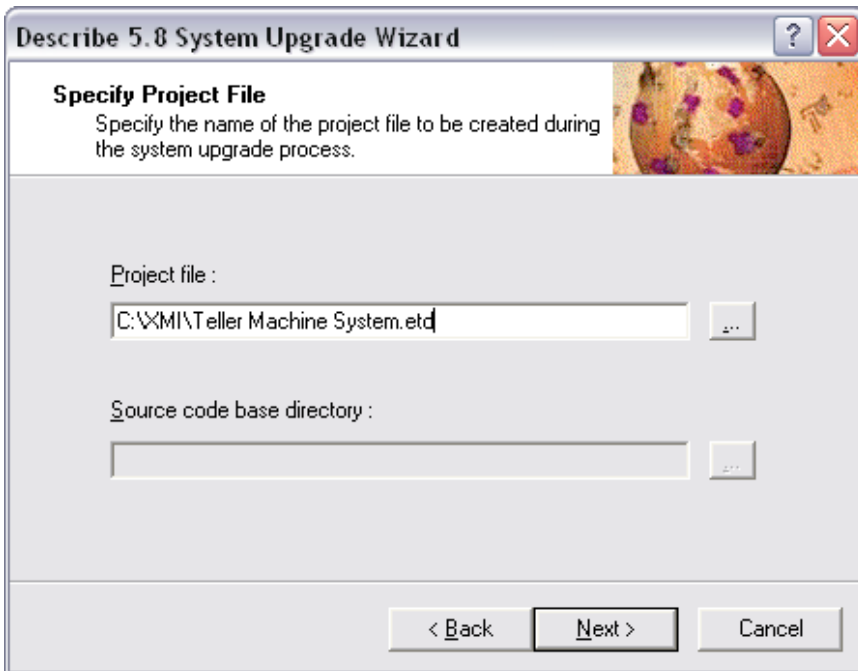
A system upgrade wizard will walk you through the entire process.



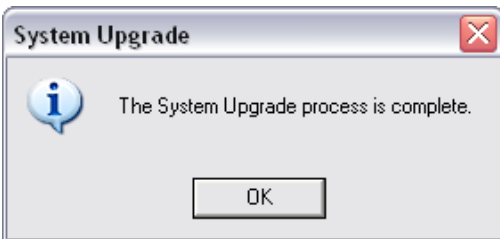
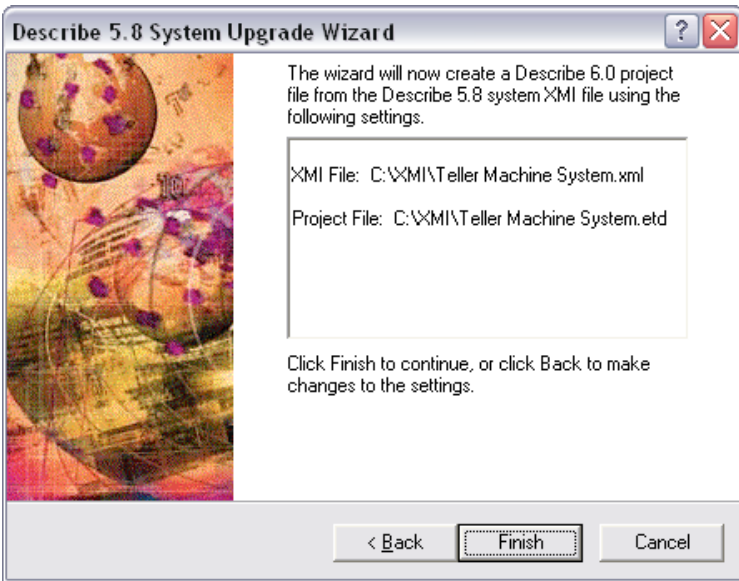
Navigate to where you stored your exported system to XML. Use the Browse to locate.



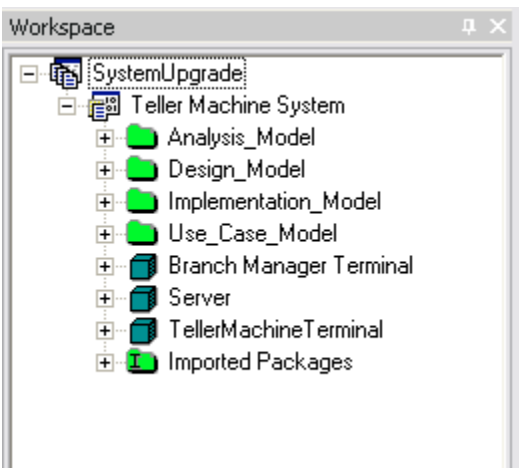
Notice that once you click next, you will see that a new Project will be created. The new project metadata will now be stored as an ETD XML file, not a ".GDSYS". For further information see the "Projects replace Systems" section of release notes. Notice below if your system had corresponding source code along with it, you must navigate to that source directory exactly if order for successful upgrade.



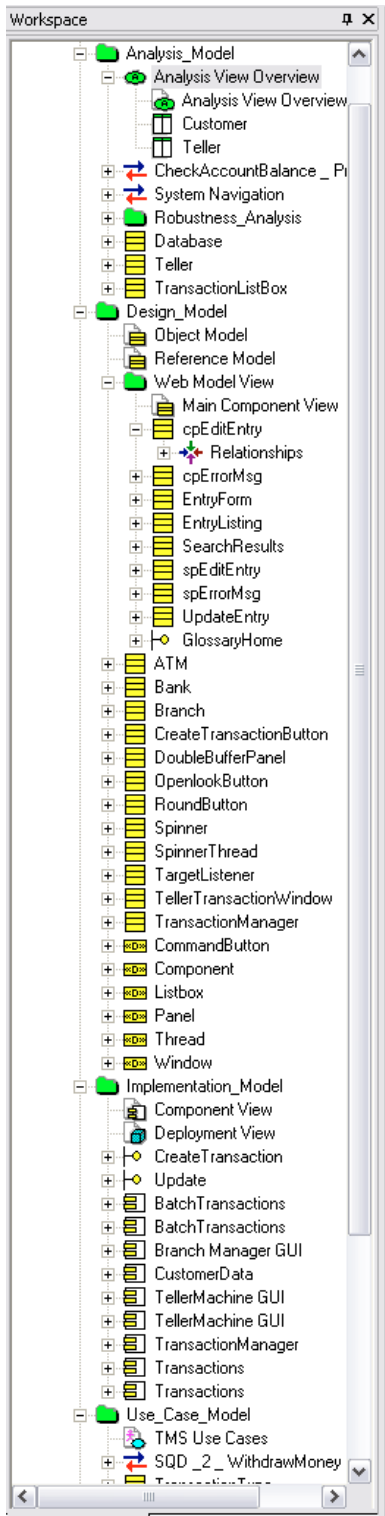
Click Finish as you are finished with the system upgrade.



Notice you now have a Project in the Workspace called Teller Machine System.



By expanding the packages you will find the diagrams. Double click to open and view.



New Describe Workspace Pane

This new expandable tree window lets you view, organize, and work with any workspace's projects, their diagrams, and the corresponding objects and elements of those diagrams. Powerful drag and drop functionality and extensive shortcut menu options make this new window the starting and ending point for keeping tabs on everything in your workspace.

The New Dialog Box

The New dialog box is a centralized location for the creation of new workspaces, and any new projects, diagrams, packages, or other diagram elements you want to add to an existing workspace. This multi-tabbed dialog box lets you name and specify parameters for newly created items. You can access the New dialog box from the application's menu bar, from the Standard toolbar, and by right-clicking the Describe Workspace pane.

Source Code Control

Describe offers source control of individual components of your Describe projects, including diagrams, packages and elements. Source files are managed at the same time as the elements with which they are associated. To add a Describe project to source control so that it can be accessed by multiple users, use the following steps.

1. In a default installation of Describe Enterprise 6.1.0, the **Handle Source Files and Elements** preference is set to **No**. This means that when adding the Describe workspace and Describe project elements to SCM, the source files are not automatically added to SCM along with their associated elements. If you want to version control your source files along with the Describe workspace file (*.etw), you will need to change the **Handle Source Files and Elements** preference to **Yes**. To access Describe preferences, select **Preferences** from the **Describe** menu.
2. Create a new Forte project.
3. Create your Describe project as desired.
4. Save the entire project.
5. From the Describe Workspace pane, select the workspace node, right-click and select **Source Control>Add to Source Control**. The **Configuration Management** dialog appears.
6. Select the **Check out immediately** option button, make any desired comments and click **OK**.
7. Select the project in the SCM provider that the workspace should be added to and click **OK**. The Describe Workspace file (*.etw) is added to source control.
8. From the Describe Workspace pane, select the project node and all other elements to be added to source control.
9. Right-click and select **Source Control>Add to Source Control**. The **Configuration Management** dialog appears.
10. If desired, select the **Check out immediately** button and make any desired comments. Click **OK**.
11. Select the project in the SCM provider to which the workspace file was added in step 6 and click **OK**.
12. The Describe project and elements are added to source control. If you set the Handle Source Files and Elements preference to Yes, your source files will also be added to source control.

To use the project on other machines, use the following steps.

1. Select **Open Workspace from SCM** from the **File** menu.
2. Select the project in the SCM provider that contains the Describe workspace file.
3. Click **OK**.
4. If necessary, you are prompted to create the required folders on your local machine. The project along with its associated elements will then appear in the Workspace pane.

Symbol Compartments and How to Use Them

Describe 6.1.0 has a greatly enhanced drawing area and elements themselves are also enhanced. Users can maneuver within an element's compartments in a very dynamic way, previously not possible in Describe 5.x. For example, a Class is a compartment, but in Describe 6.1.0:

- ♦ Attributes are compartments of their own. The Attribute **name** is a section within an individual Attribute compartment, and is separated from the **type** section and the **initialValue** section.
- ♦ Jump from naming an attribute to specifying a type and initial value by typing ":" and "=", respectively:

AndPort

Attributes

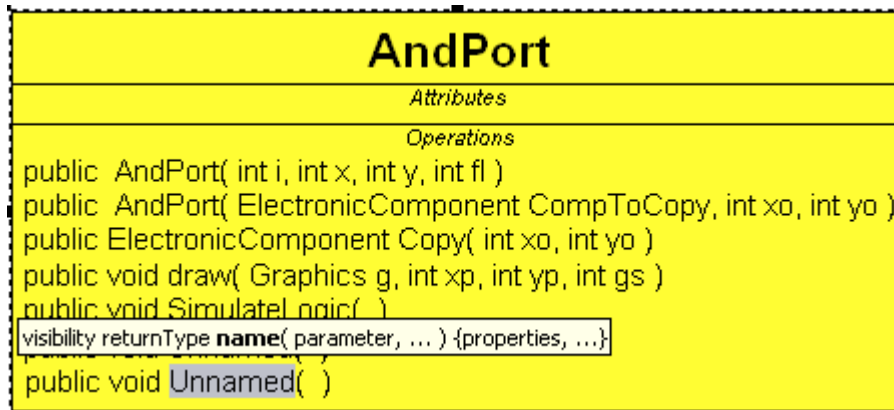
visibility derived type **name**[multiplicity...] = initialValue {properties, ...}

private int Unnamed

Operations

```
public AndPort( int i, int x, int y, int fl )
public AndPort( ElectronicComponent CompToCopy, int xo, int yo )
public ElectronicComponent Copy( int xo, int yo )
public void draw( Graphics g, int xp, int yp, int gs )
public void SimulateLogic( )
public void Unnamed( )
public void Unnamed( )
```

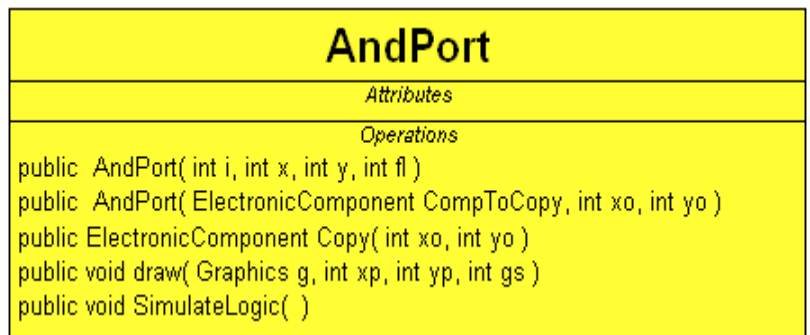
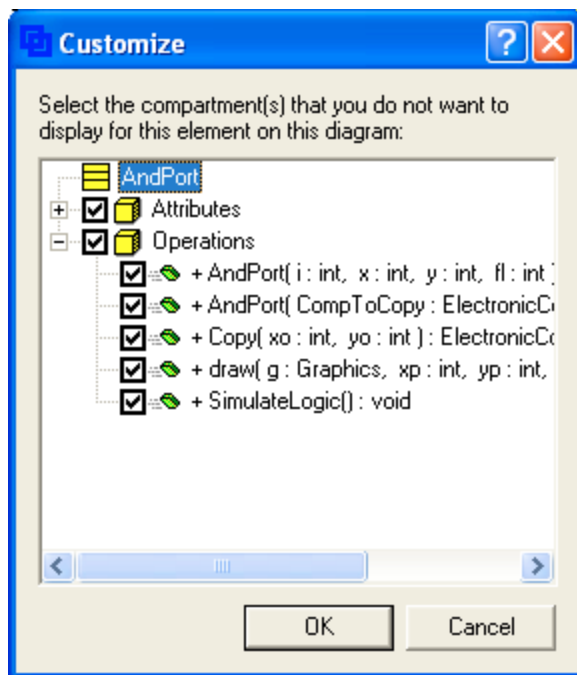
- Operations are also compartments of their own. Visibility, name and type are sections within an individual Operation compartment:



The fact that these compartments all act as their own editable sections allows you to do things that were never possible before:

- Drag an operation or attribute from one class to another.
- Reorder operations or attributes by dragging and dropping.
- Drag an operation out onto the Diagram white space and a brand new class with that operation's name will be created.

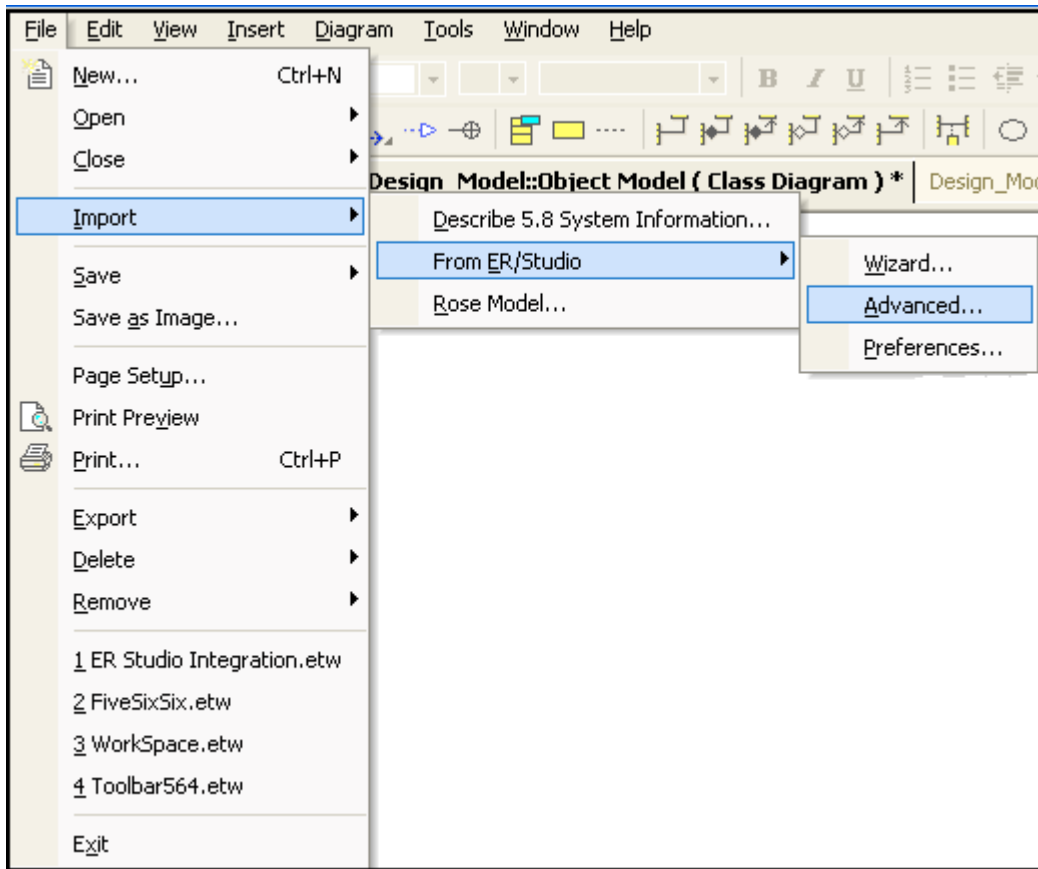
Finally, the compartments themselves are customizable. To use this feature, right-click a class and select **Customize** from the **Compartment** menu. Notice that you can clear the check boxes for specific attributes or operations to show or hide them from this symbol. The names of the compartments are also changeable, allowing you to label the "Operations" compartment anything you want.



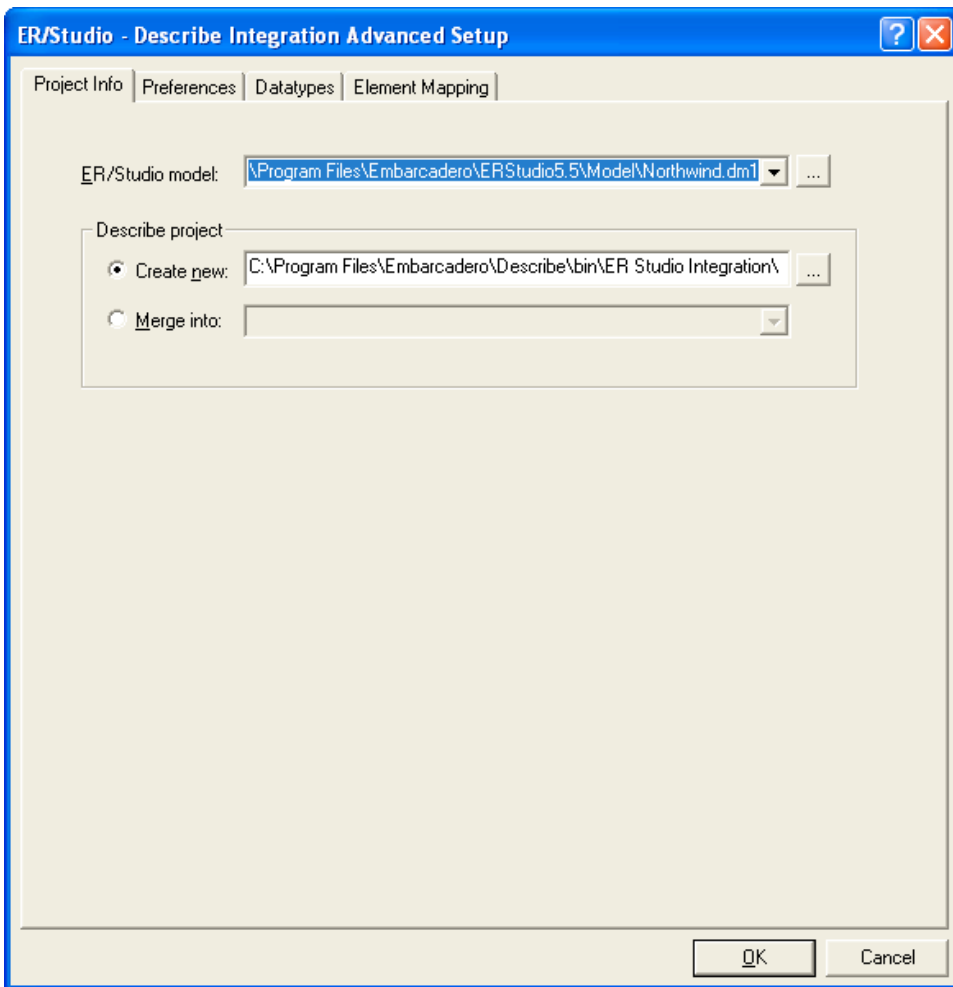
Describe mapping with ER Studio

Import Preferences

The first step in importing a Model from ER Studio is from the FILE Menu. Select Import → from ER Studio → Advanced. There is also a wizard that can walk you step by step through the import process.

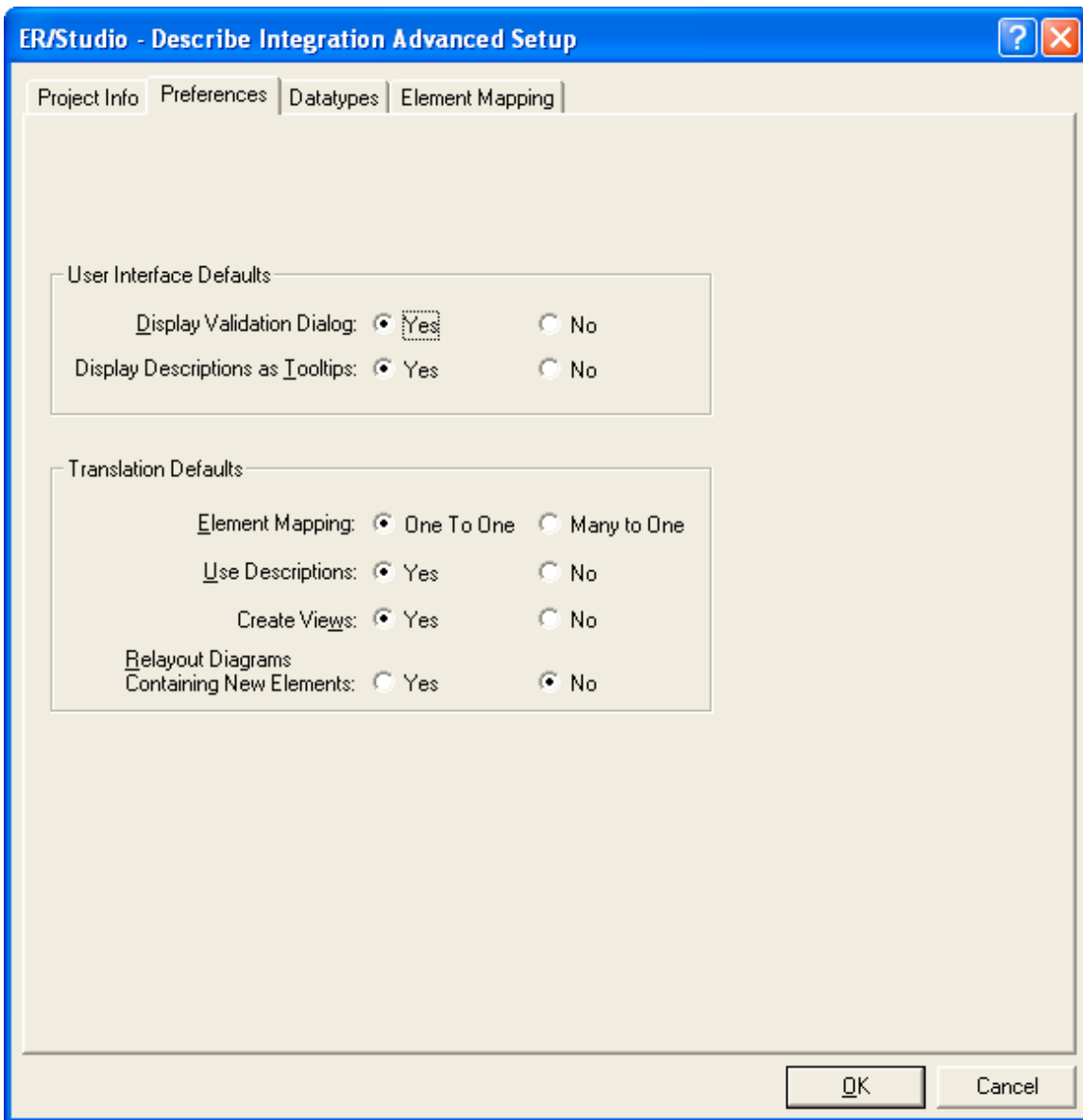


Once you have select Advanced, Describe will bring up the next dialog confirming which model you are about to import from ER Studio.

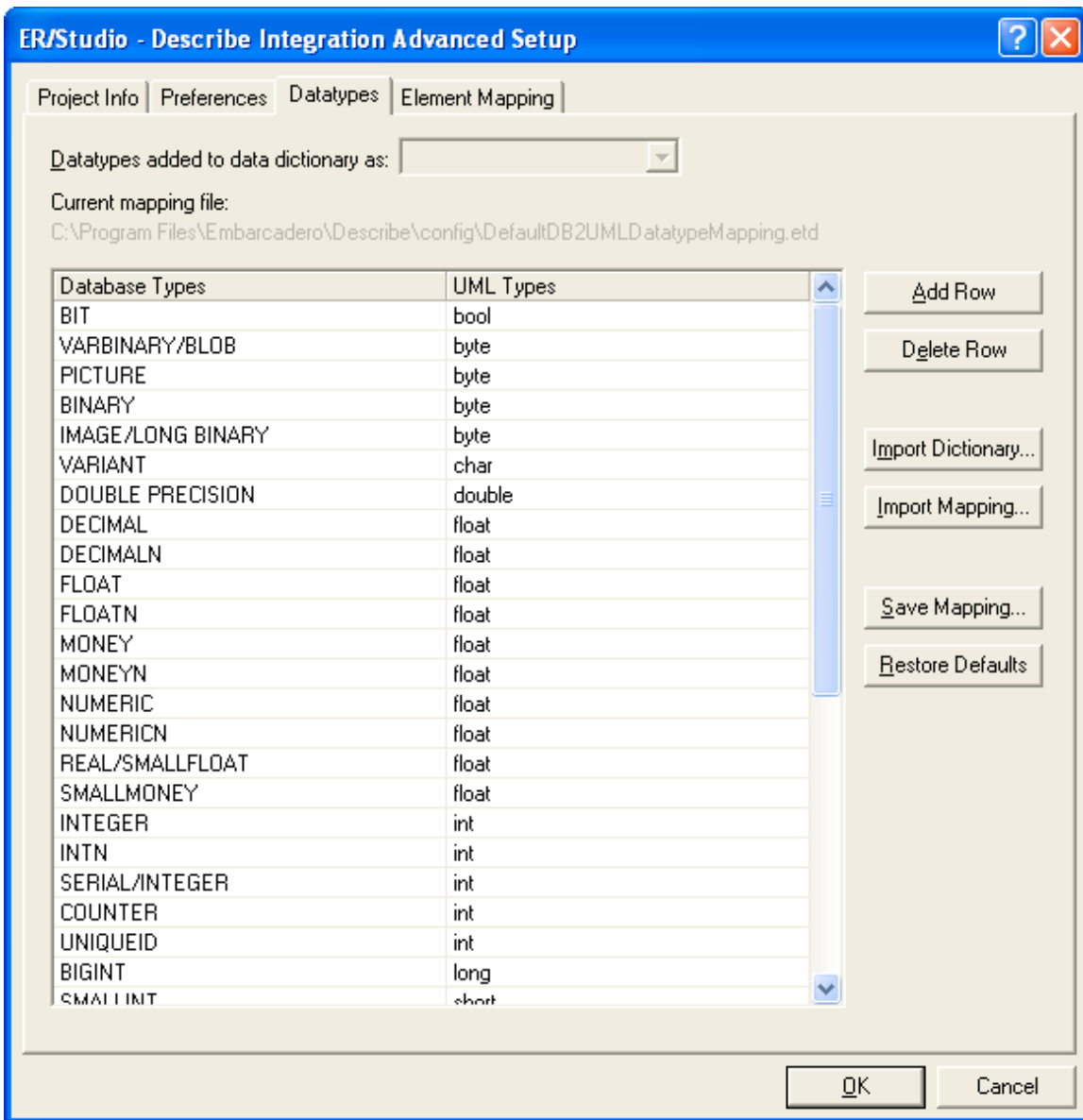


Notice that you can merge changes and additions back and forth from Describe and ER Studio. The mapping works the exact same in both directions.

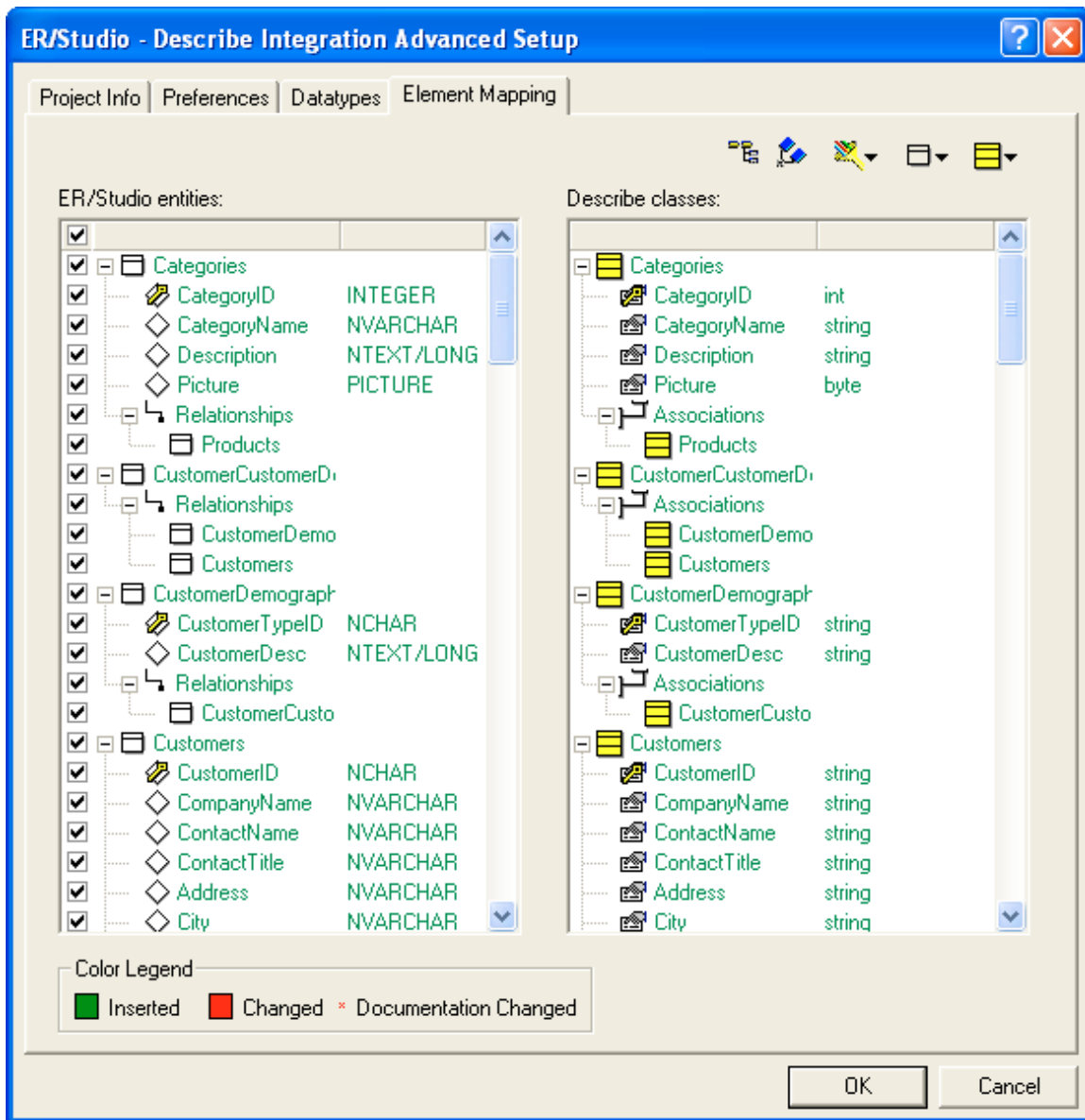
Next you can set the preferences. Keep the defaults for this tutorial.



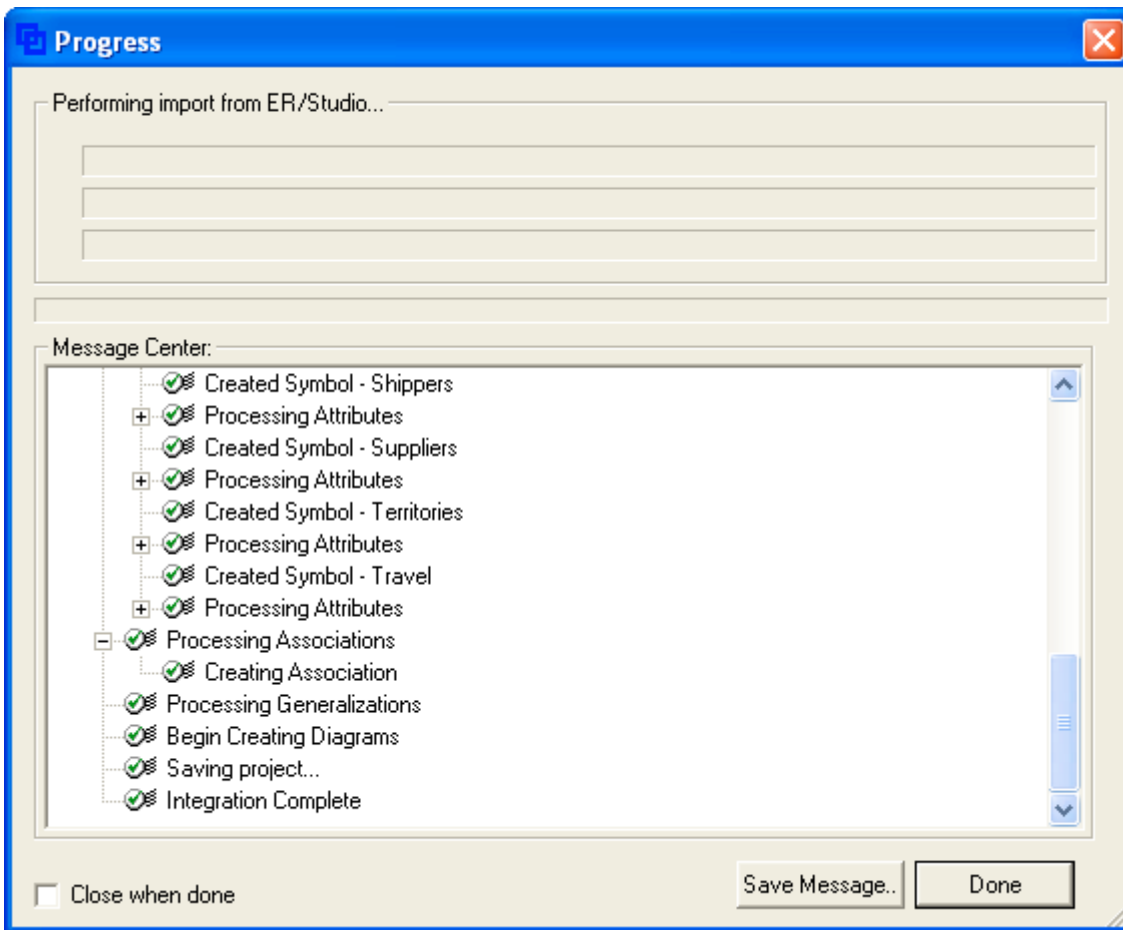
Describe and ER Studio offer a sophisticated mapping model for Data Types. You will be able to create, modify, and map each Data Type as you need.



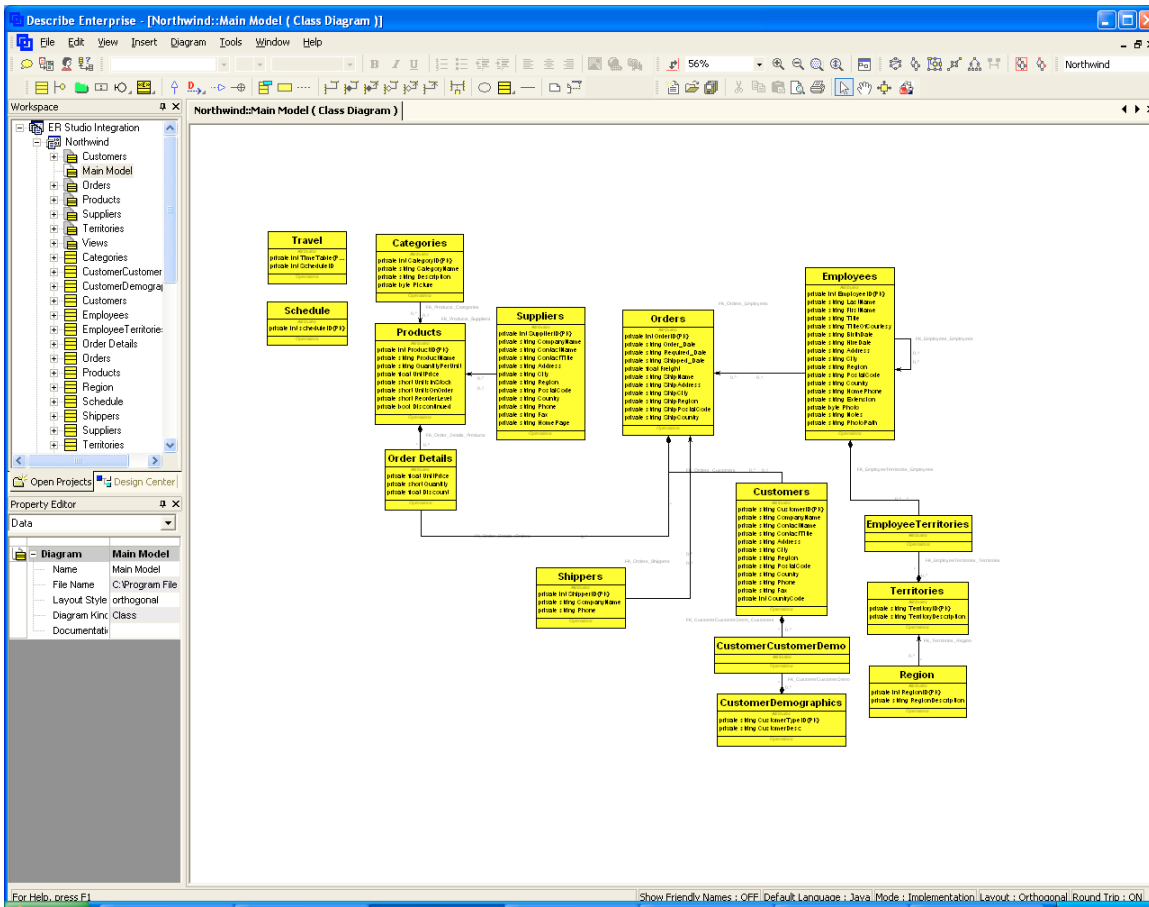
Now switch to the Element Mapping tab. This where you can map your tables to classes. As well the columns and attributes will also be mapped. You can map columns to any number of classes to become attributes. You can also unselect and select tables that you want brought over through this mapping. Columns can also be added to brand new classes for creation. Once you are finished click OK.



Once the taskbar is finished click DONE.



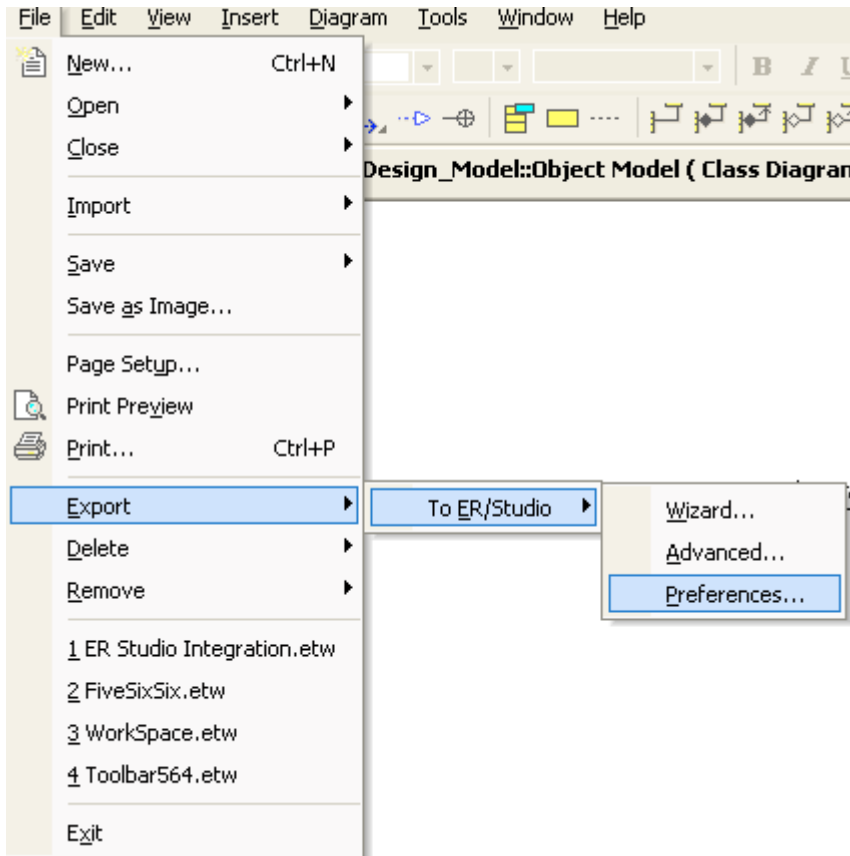
Now open up the Main Model for viewing. IF you created any new classes or mapped columns to other classes you will see them populated in the class diagram.



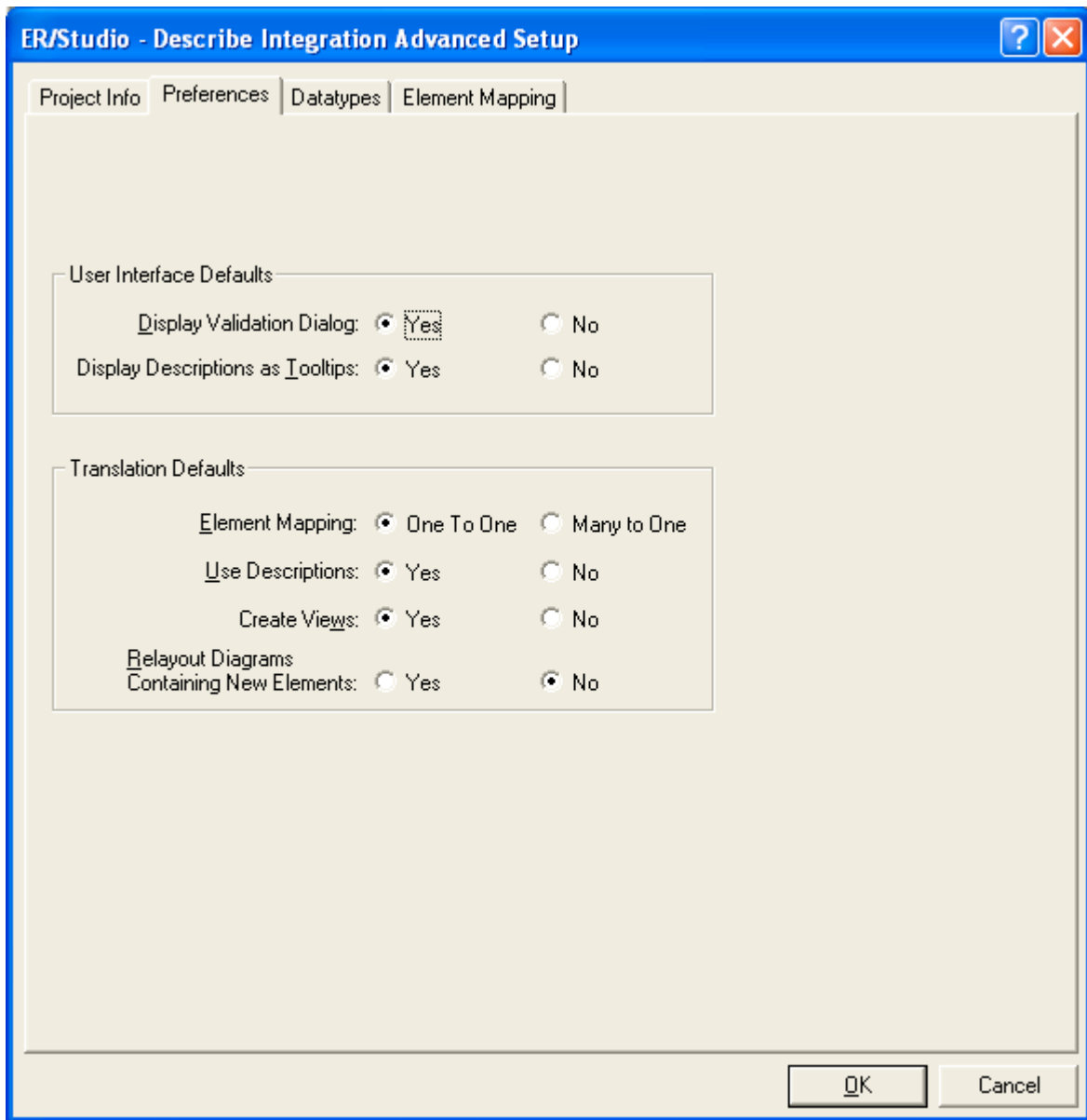
Export Preferences

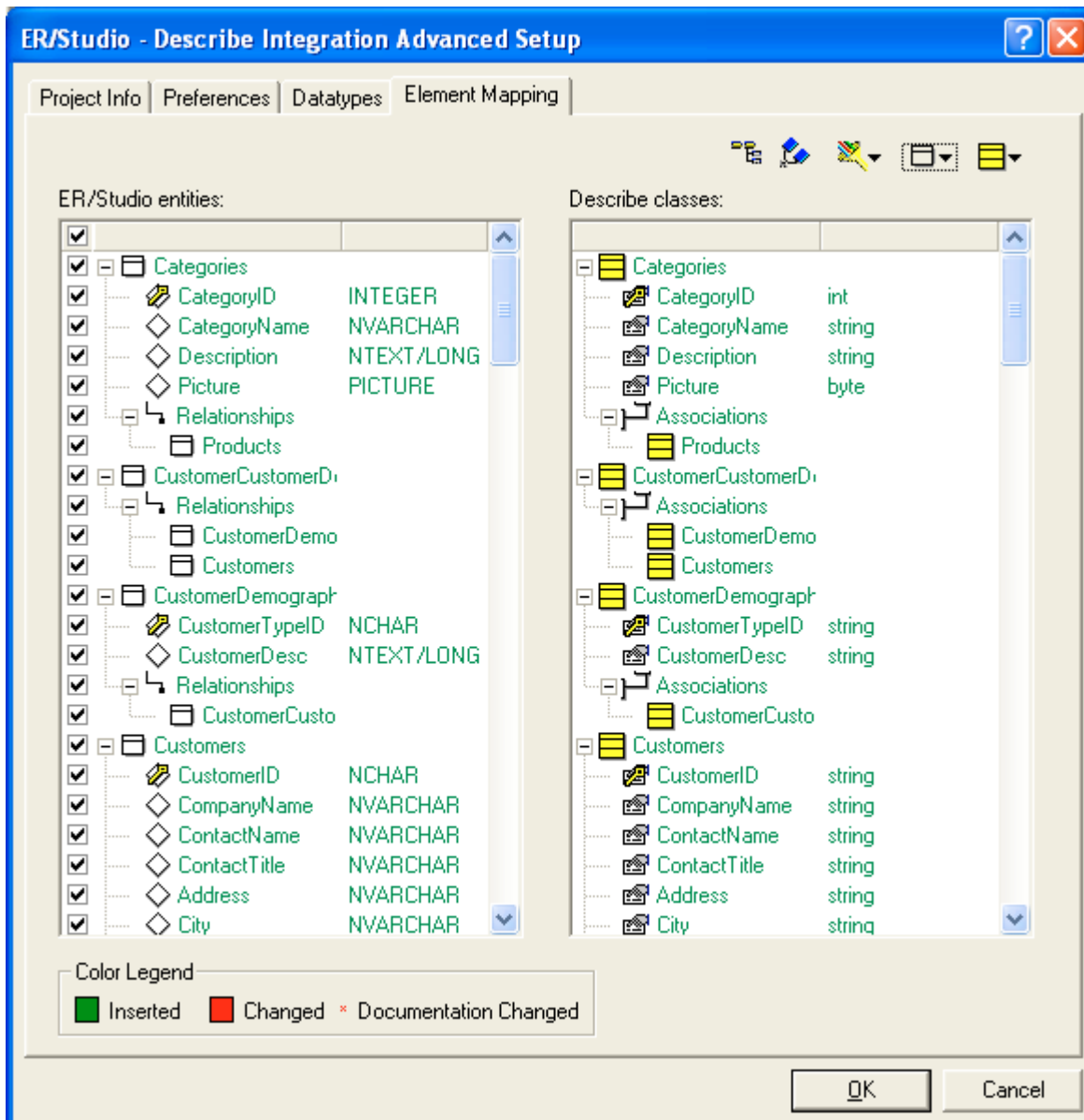
The first step in this is to set the export preferences.

1. Choose FILE->EXPORT->ER/STUDIO->PREFERENCES.



2. The ER/Studio Export Preferences dialog box opens. Click on each area of the graphic below for additional information on each of the Translation Defaults.



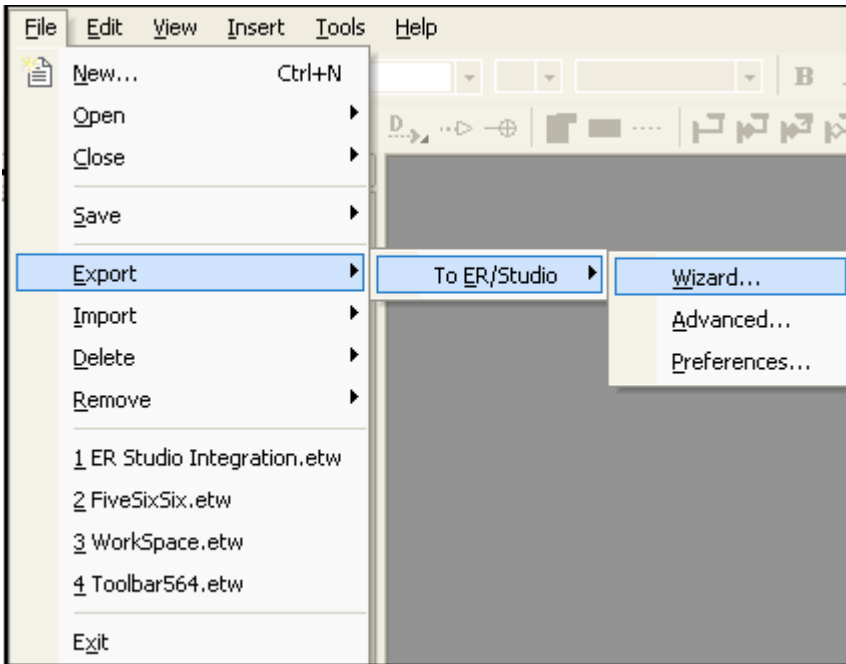


- For purposes of this tutorial set the Element Mapping to One to One and the Display Validation Dialog to Yes.

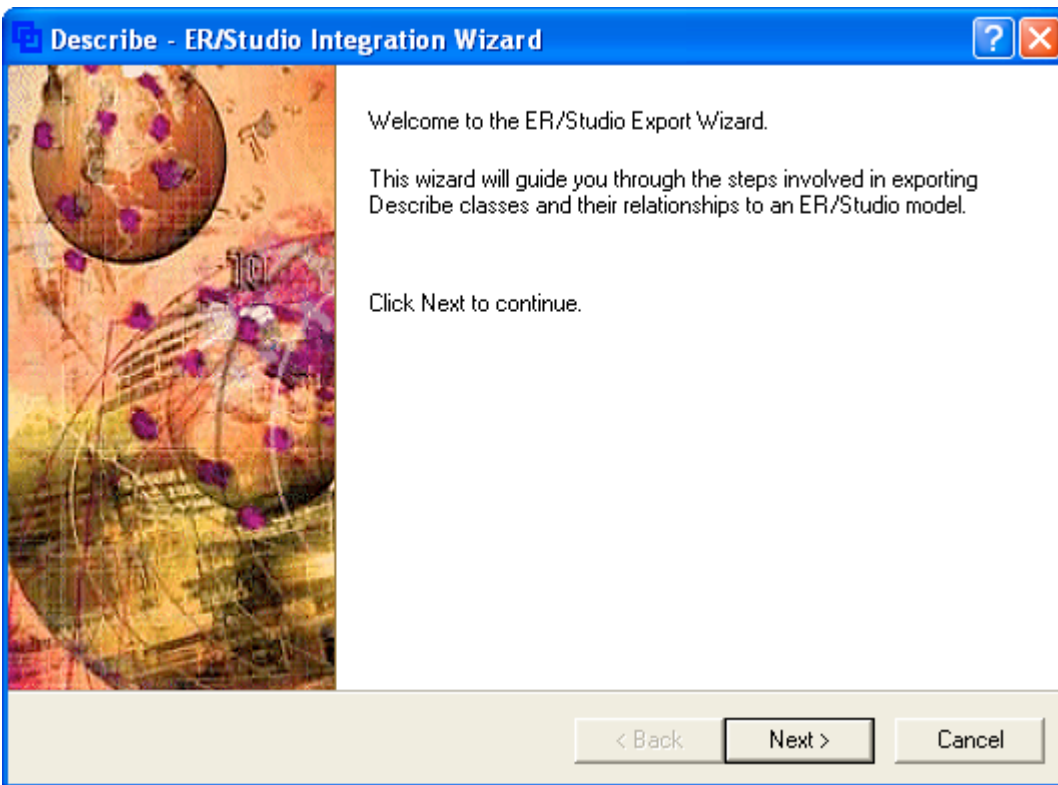
Starting the Export Wizard

This is a step-by-step process to export selected Describe class symbols and their relationships to an ER/Studio diagram.

- To gain access to the One to One Export, choose FILE->EXPORT->ER/STUDIO->WIZARD.



The ER/Studio - Describe Integration Wizard dialog box opens. The ER/Studio Application opens in the background as well.



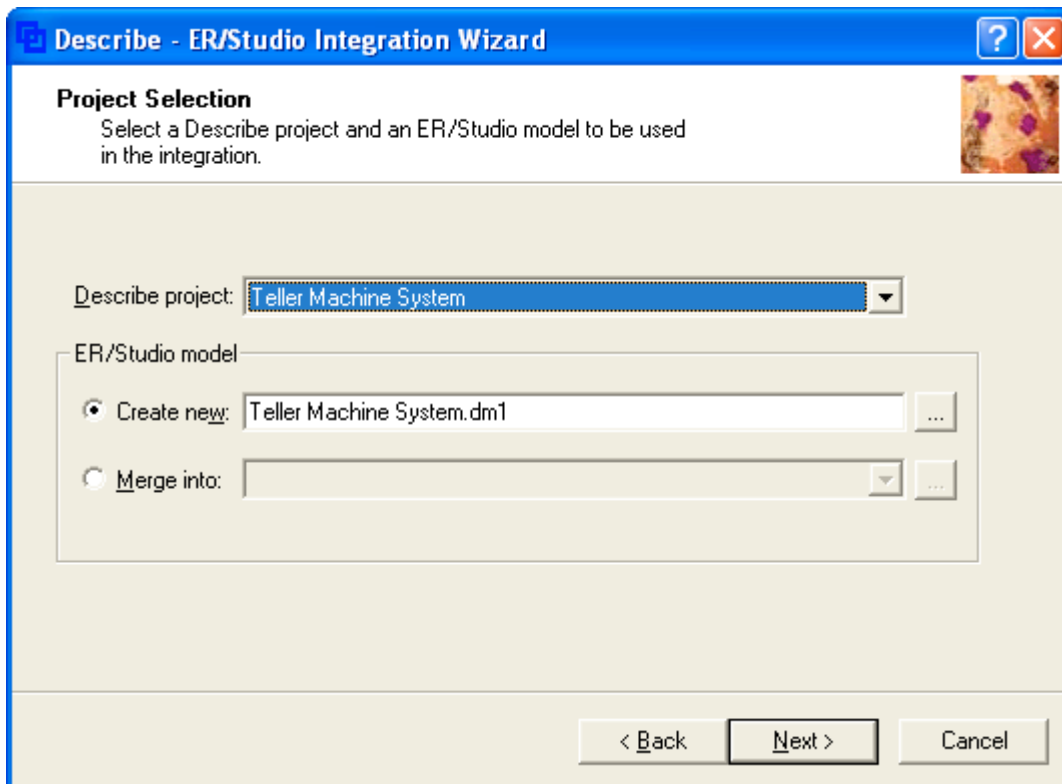
You can also launch ER/Studio directly from within Describe by

clicking

on the Toolbar.

2. Click

. The Project Selection dialog box opens.



3. The opened Describe Project appears in the Describe Project text box.

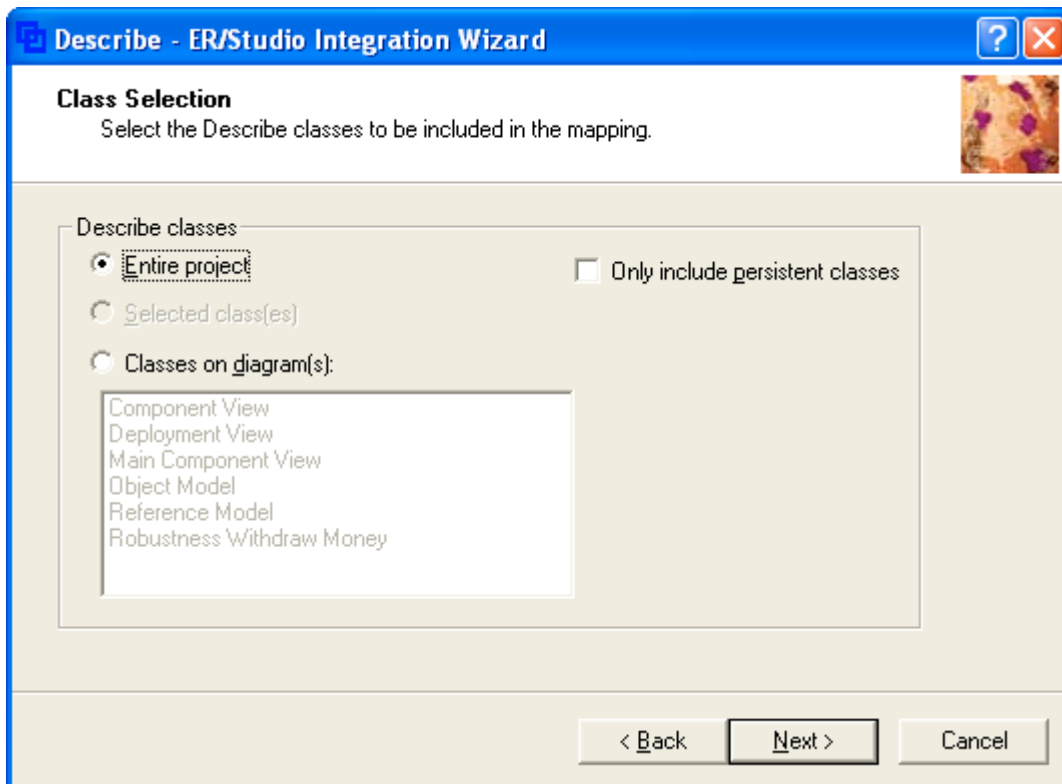
You can select a different Project from the drop-down list where all the registered Projects are listed.

4. Select the New option in the ER/Studio Diagram box. The default name of the new diagram is the Describe Project name with a file extension of .dm1. You can change this name but for purposes of this tutorial we will leave it as is. If no path is specified for the new ER/Studio diagram, it is automatically saved to the default model area.

When you select the New option, the Merge into option is no longer available. However, if you select this option, an ER/Studio diagram must be selected. For more information on Merge [click here](#).

Selecting Classes for Export

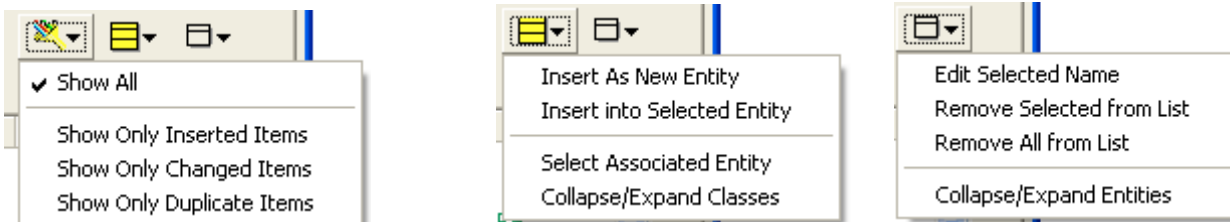
1. Click [here](#) and the Class Symbol Selection dialog box opens.

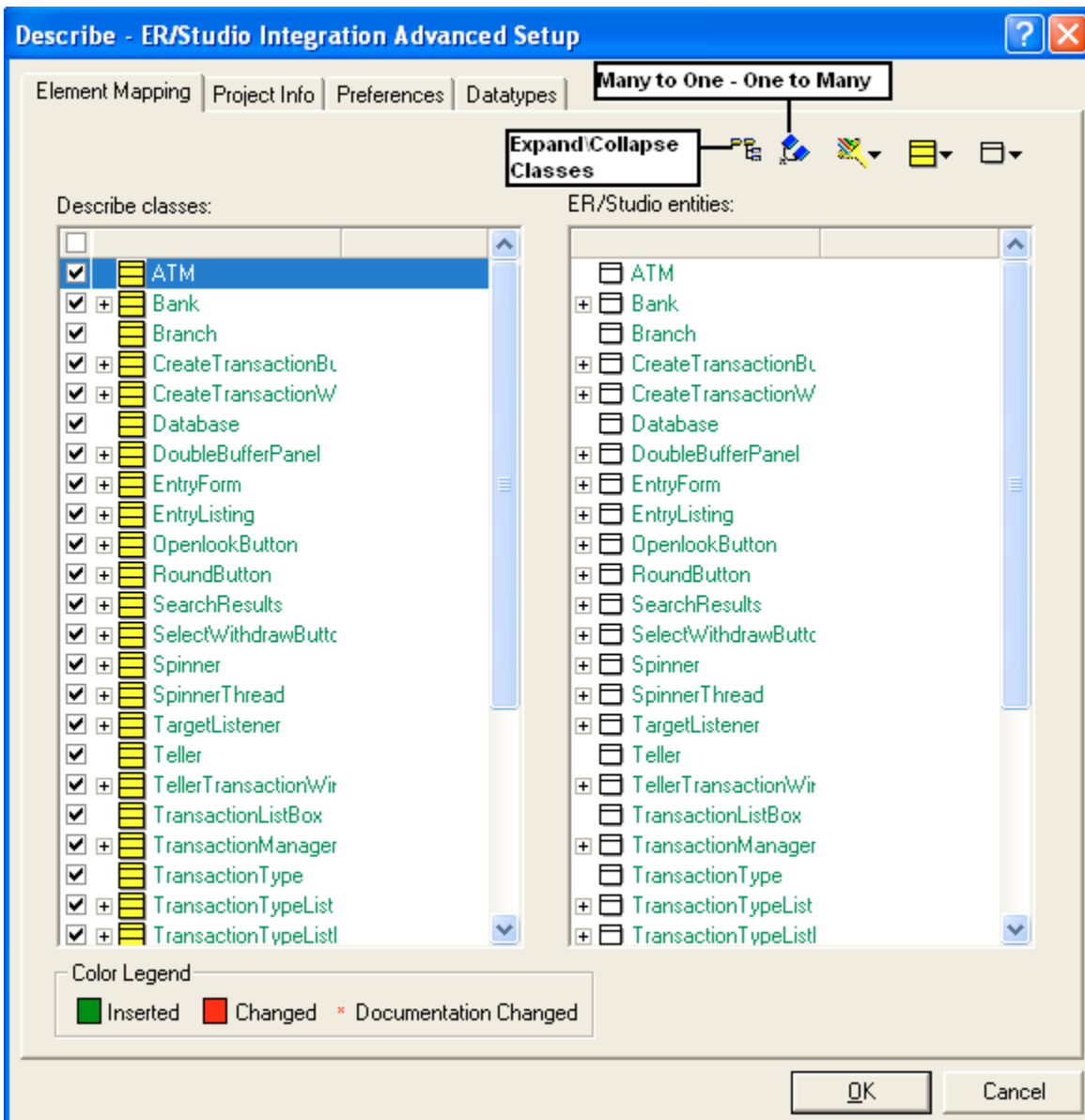


- For purposes of this tutorial, we will select the Entire Project option. This means that all classes in the Describe Project are included in the export. This is the default setting. All diagrams in the selected Project containing classes are displayed in the list box.

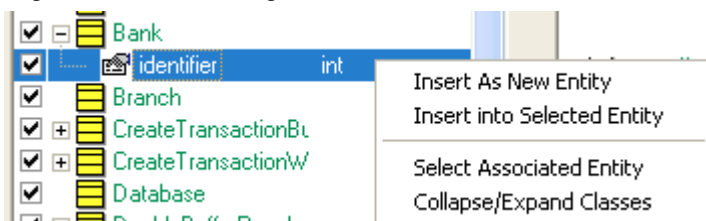
Advanced Element Mapping

Some of the elements of the dialog box are explained in the graphic below. For additional information on this dialog box click [here](#).





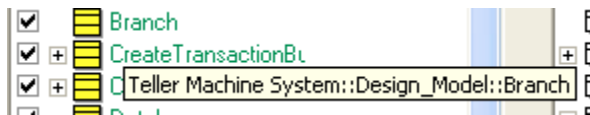
1. Select the class "Bank" from the Describe Classes list box.
2. Right-click in the background of the list box and the Class Actions menu opens.



3. Choose Insert As New from the menu. An entity labeled "New Entity" is added to the ER/Studio Entities list box. Notice that the attributes and types are also added.



If you selected "Display Descriptions as Tooltips" in the Preferences dialog box, when you place the cursor on an Entity or Class in the Element Mapping dialog box, a "flyover" popup window opens. This window displays the name of the entity or class and its description.



4. Double click on the label "New Entity" and label it "TutorialClass". Press Enter and the entity is renamed.

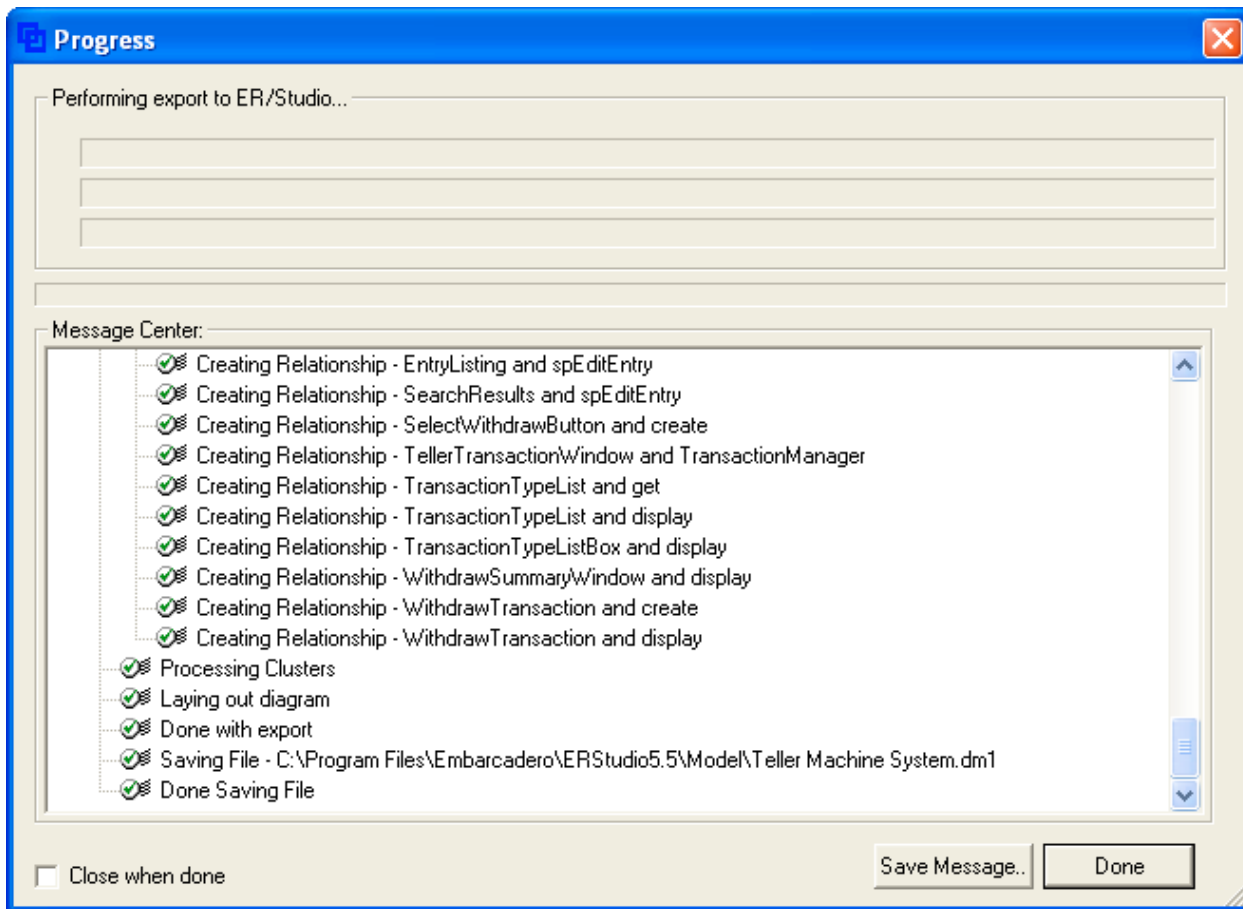
Completing the One to One Export Wizard

1. Click to close the Advanced Setup dialog box. The export process starts and a progress dialog box opens to track the process.
The message center will report:

Duplicate entity names

Duplicate attribute names within an entity

Unresolved datatypes



2. We will save these messages by clicking . The Save As dialog box opens.
3. Name the message text file Tutorial.txt. The default path is x:\Program Files\Embarcadero\Describe\bin. For

purposes of this tutorial, do not change the path. Click
box closes.

. The dialog

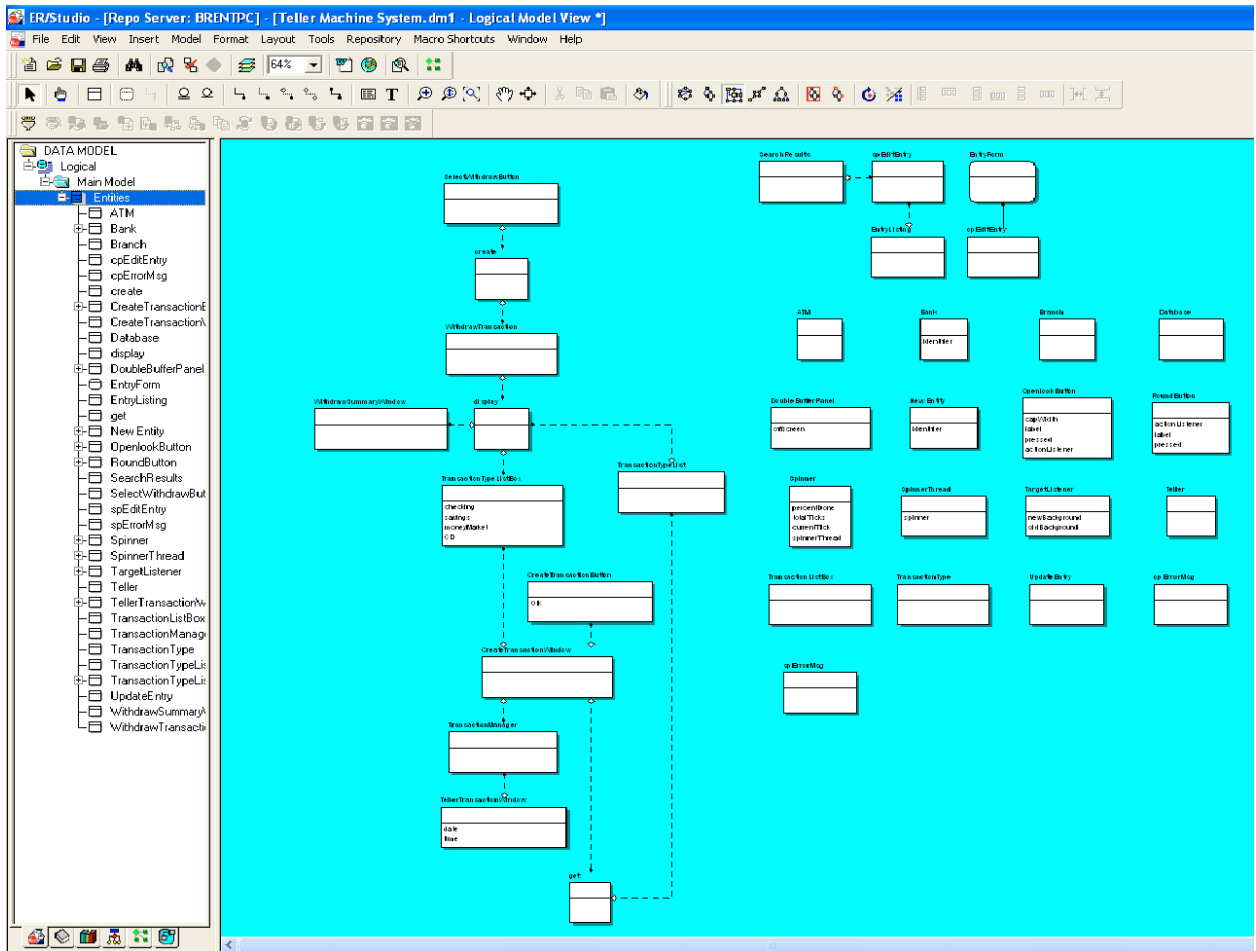
4. Click and the Progress dialog box closes.

Viewing the Exported View in ER/Studio

Because the "New" option was selected on the second screen of the Export Wizard, the Describe Project was imported into ER/Studio. The export process creates a logical model with one view.

Bring the ER/Studio to the forefront. The following diagram is created in ER/Studio. Notice that the new entity we created called TutorialClass appears in the diagram.

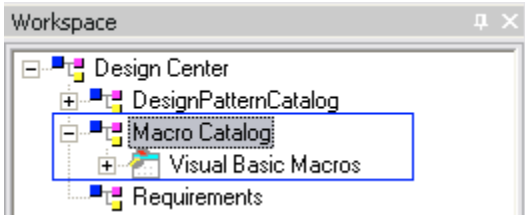
Because of layout restraints, you may want to reorganize the entities and relationships in the view window.



You can also do an export from ER/Studio to Describe by choosing FILE->EXPORT->DESCRIBE (from ER/Studio) or FILE->IMPORT->ER/STUDIO (from the Describe application).

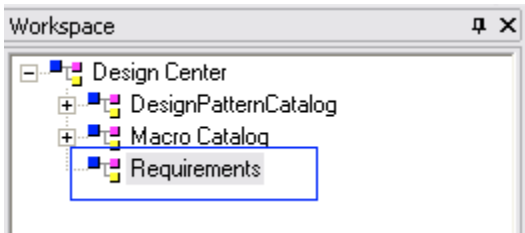
Apply Macros

The Macro Catalog will give users the option to apply custom scripts to their modeling environment. Each custom script will show in the Design Center window pane.



Requirements using XML

This will replace the current Requirements tab in Describe 5.8 and will have integrations with DOORS and Word Documents.



Keyboard Accelerators

Describe 6.1.0 provides keyboard command access to common functions. Here is a summary of what you can do from your keyboard.

From anywhere in an IDE:

Keyboard Command	Result
ALT+ENTER	Focuses on the Describe Property Editor, highlighting its first field.
CTRL+O	Launches Forte's Open dialog box, letting you open an existing workspace.
CTRL+P	If the focus is in the Describe diagram area, this opens the Print dialog box, letting you print the diagram in the active Diagram Window.
CTRL+SHIFT+S	Saves workspace.
CTRL+ALT+D	Shows or hides the doc pane.

From the Property Editor:

Keyboard Command	Result
ALT+ENTER	Makes the Describe Property Editor the active window in the workspace, letting you navigate and work in the editor with keystrokes.
RIGHT ARROW	Expands the target node in the Describe Property Editor's tree pane. This functionality is available only for items located under bold tree nodes.
LEFT ARROW	Compacts the target node in the Describe Property Editor's tree pane. This functionality is available only for items located under bold tree nodes.
UP ARROW	Highlights the item immediately above the currently highlighted item.
DOWN ARROW	Highlights the item immediately below the currently highlighted item.
CTRL+SHIFT+UP	Highlights all items above the current selection.
CTRL+SHIFT+DOWN	Highlights all items below the current selection.
INSERT	Creates an additional instance of the target property. This function is only available for properties displayed in bold.
ALT+Z	Resizes the Property Name column.

From a Diagram:

Keyboard Command	Result
ALT+SHIFT+A	Inserts attribute into selected element on diagram, if applicable.
ALT+SHIFT+C	Adds class to diagram.
ALT+SHIFT+G	Adds generalization between elements. The first element selected will be the child element and the second element selected will be the parent element.
ALT+SHIFT+K	Adds package to diagram.
ALT+SHIFT+L	Adds implementation between elements.
ALT+SHIFT+N	Adds interface to diagram.
ALT+SHIFT+O	Inserts operation into selected element on diagram, if applicable.
ALT+SHIFT+S	Adds navigable association between elements. The first element selected will have no navigation and the second element will have a navigable association end.
ALT+SHIFT+Y	Adds dependency between elements.
CTRL+A	Selects all elements and links in the active Diagram window.
CTRL+C	Copies the active element.
CTRL+V	Pastes the most recently copied or cut element.
CTRL+M	Toggles Show Friendly Names mode on and off.
CTRL+SHIFT+A	Selects All Similar elements or links, depending on what is selected on the active diagram.
CTRL+SHIFT+C	Uses a Circular layout style for the active diagram.
CTRL+SHIFT+H	Uses a Hierarchical layout style for the active diagram.
CTRL+SHIFT+I	Incrementally updates a diagram using the current style.
CTRL+SHIFT+L	Performs a layout of the active diagram.
CTRL+SHIFT+O	Uses an Orthogonal layout style for the active diagram.
CTRL+SHIFT+Q	Performs a layout of the target Sequence Diagram.
CTRL+SHIFT+R	Resizes the target element to fit its contents.
CTRL+SHIFT+T	Uses a Tree layout style for the active diagram.
CTRL+SHIFT+Y	Uses a Symmetric layout style for the active diagram.

SHIFT+DELETE or CTRL+X or DELETE	Cuts the active element.
F8	Toggles the Overview Window in class diagrams.

From the Documentation Pane or Advanced Documentation Editor:

Keyboard Command	Result
CTRL+A	Highlights to include the entire document.
CTRL+B	Bolds highlighted text.
CTRL+I	Italicizes highlighted text.
CTRL+U	Underlines highlighted text.
CTRL+L	Applies hyperlink functionality to highlighted text.
CTRL+F	Opens Find dialog box, letting you search for specific strings.
CTRL+Z	Undoes the last action.
CTRL+C	Copies text.
CTRL+V	Pastes the Clipboard contents.
CTRL+D	Increases the indent of text.
CTRL+SHIFT+D	Decreased the indent of text.
CTRL+END	Moves cursor to the end of the document.
CTRL+HOME	Moves cursor to the beginning of the document.
SHIFT+END	Highlights to the end of a line.
SHIFT+HOME	Highlights to the beginning of a line.
SHIFT+DOWN ARROW	Highlights to one line down.
SHIFT+UP ARROW	Highlights to one line up.
SHIFT+PAGE UP	Highlights to one screen up.
SHIFT+PAGE DOWN	Highlights to one screen down.
BACKSPACE	Deletes one character to the left.
DELETE	Deletes one character to the right.
END	Moves cursor to the end of a line.
HOME	Moves cursor to the beginning of a line.
PAGE UP	Moves cursor once screen up (scrolling).
PAGE DOWN	Moves cursor once screen down (scrolling).

Enhanced Layout and Zooming

Describe 6.1.0 has added substantial improvements to diagram layout and zooming capabilities. Access to these new options is available in the following ways:

From the Menu Bar:

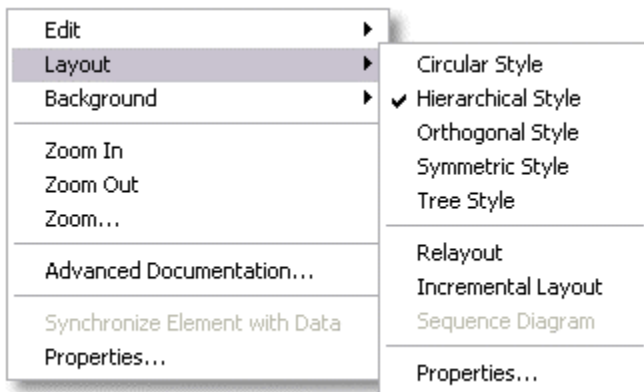
Layout Commands



Zooming Commands



From the Diagram Shortcut (Right-Click) Menu:



In addition, you also have the ability to perform a layout of your sequence diagrams. This will align all elements at their topmost point and straighten messages.

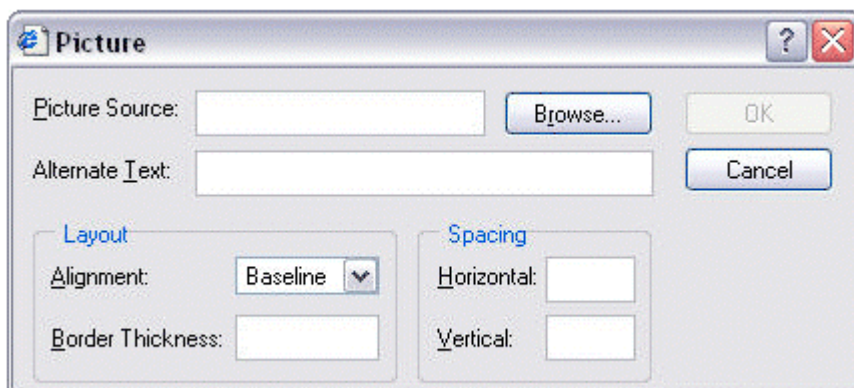


All of these enhancements are added to assist with diagram navigation and layout, especially on larger more complex diagrams.

Leverage the Power of the Enhanced Documentation Pane

There are many enhancements to the Documentation Pane in Describe 6.1.0. New capabilities include:

Inserting Pictures:



Link and Navigate to External Documents:



Additional New Options via Context Menu:

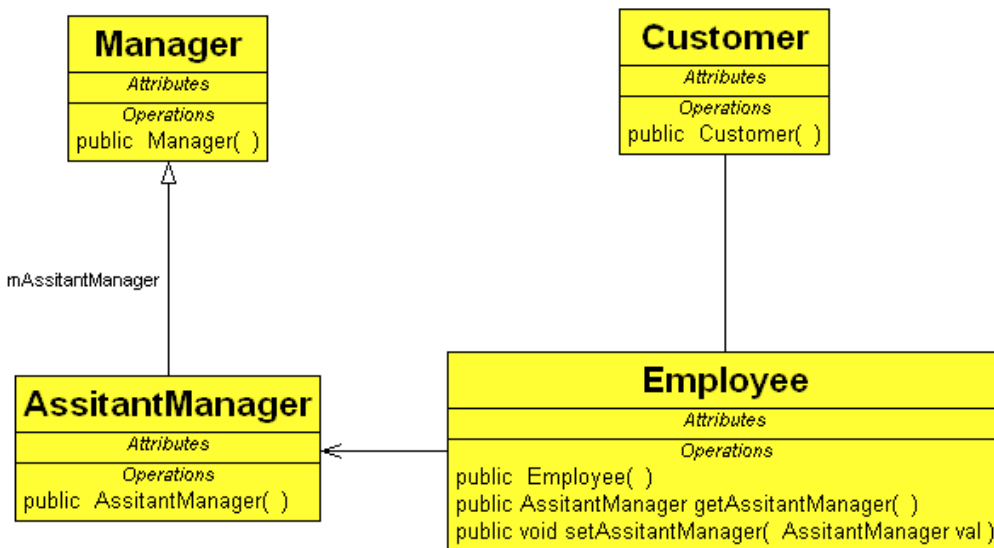
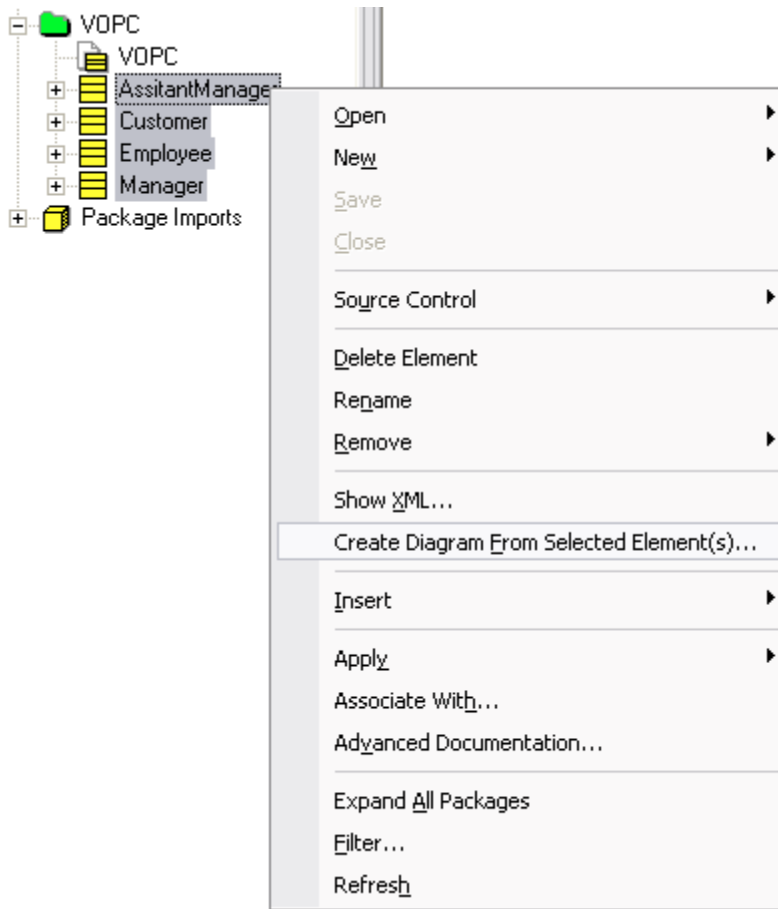


Previous versions of Describe 5.8 provided a Documentation Pane for writing text about any symbol or element in a project. The enhanced Documentation Pane in 6.1.0 gives you the power to bring rich documentation well beyond text to your development projects.

Create a Diagram from Selected Elements

This feature in Describe 6.1.0 allows users to select any number of elements in the Describe Workspace pane and create a diagram from them. To use this feature:

1. From the Workspace Pane, select whichever symbols you would like to include on a diagram.
2. Right-click the selected elements and select **Create Diagram from Selected Element(s)** from the shortcut menu.
3. The **New** dialog is displayed.
4. Select a diagram type and specify a name for the diagram.
5. Click **OK**.
6. The diagram is created and is displayed in the diagram view.



Utilize your SCM tool for Powerful Enterprise Collaboration

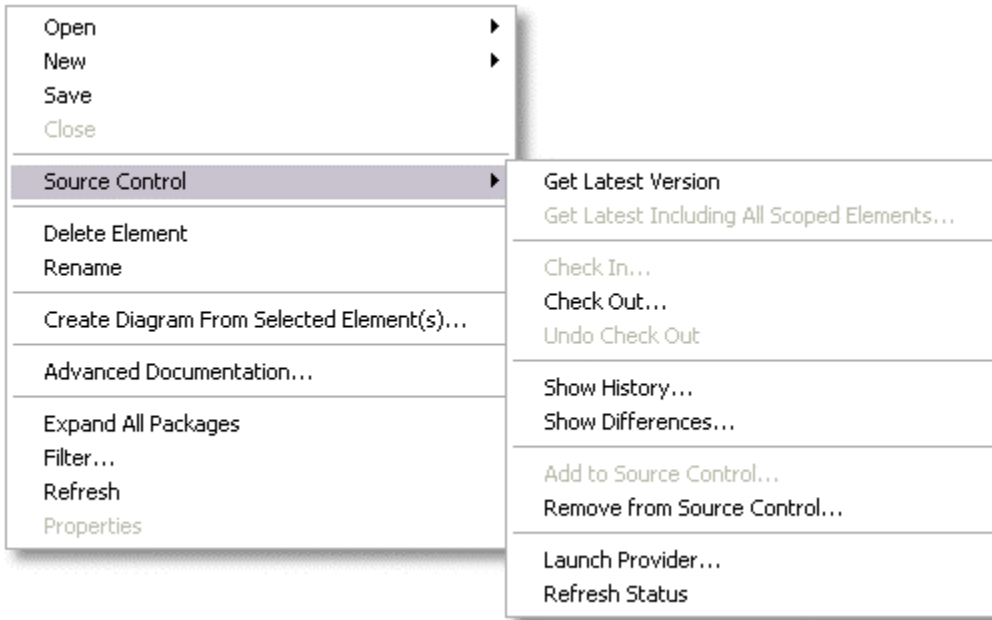
With the release of Describe 6.1.0, your existing SCM environment (such as Visual SourceSafe, ClearCase or CVS) is the mechanism by which all Enterprises/modelers will collaborate. This provides users with a much more robust configuration mechanism.

Describe's native data store is now XMI. Since XMI is simply an XML representation of UML meta data represented in a simple ASCII text file, the ability to version control elements at a much more granular level is now supported. For instance, Describe 6.1.0 handles the versioning of Packages, as well as individual Class elements. The Describe development team, along with input from numerous customers, also determined that the SCM tool made a great choice for a data store, as the number of artifacts generated through an entire development lifecycle was much more than just modeling artifacts. Those artifacts, such as source code, can now be versioned along side the elements they

pertain to. A second distinct advantage of this architecture is, since clients will only access the SCM repository whenever a check in/out or get is performed, the network will not be a bottleneck to performance.

Users will work entirely on their own projects, or shared projects, accessing the SCM repository only when needed. Lastly, when used in conjunction with IDE integrations, Describe will simultaneously check in/out any source file that is associated with the symbol that the user selects (checks in/out). This will be automatic, and under the control of the user. So, although users will not be able to see each other's model changes in real time via the virtual "white board" previously available in Describe 5.x, they will be able to work collaboratively, with the SCM server being the mechanism providing this ability. This approach is much more desirable in production, as users have knowledge of what has changed in the model, at any level, by whomever, at any time.

To access this new functionality, right click on an element in the Describe Workspace:

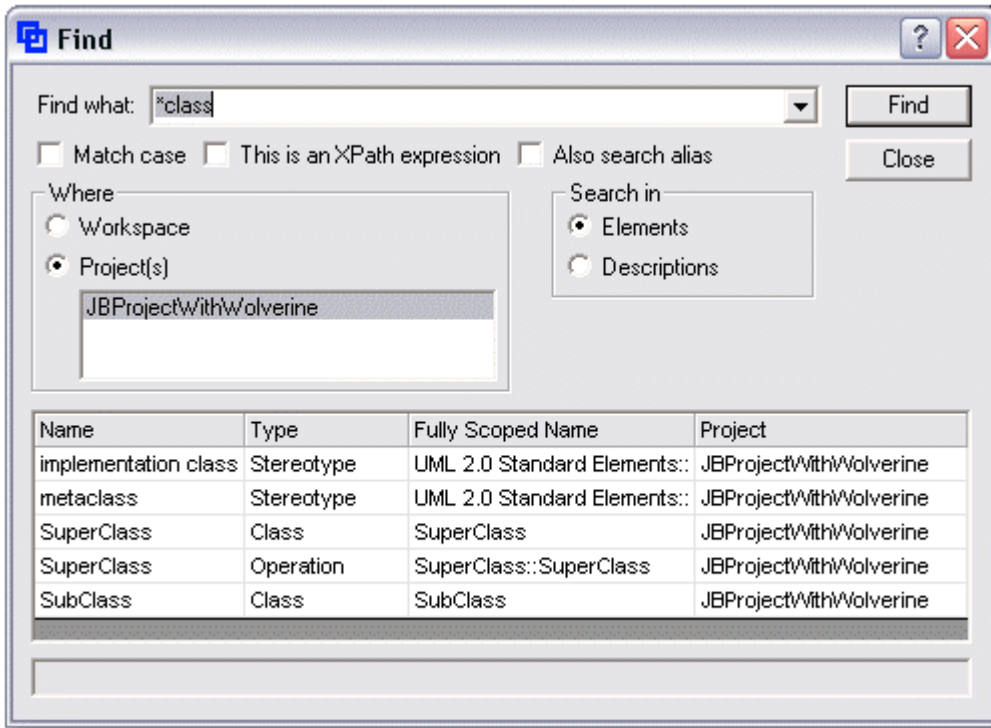


Find Anything in the Model with the New Find Dialog - Including XPath

Describe 6.1.0 includes a rich **Find** dialog. Users can search by Workspace, or by Project for essentially anything and everything. In addition, Describe 6.1.0 provides the unique ability to search using XPath - the XML equivalent to doing SQL queries against databases. For more information on XPath expressions, visit:

<http://www.w3.org/TR/xpath>.

In Forte, select **Find in Model** from the **Search** menu.

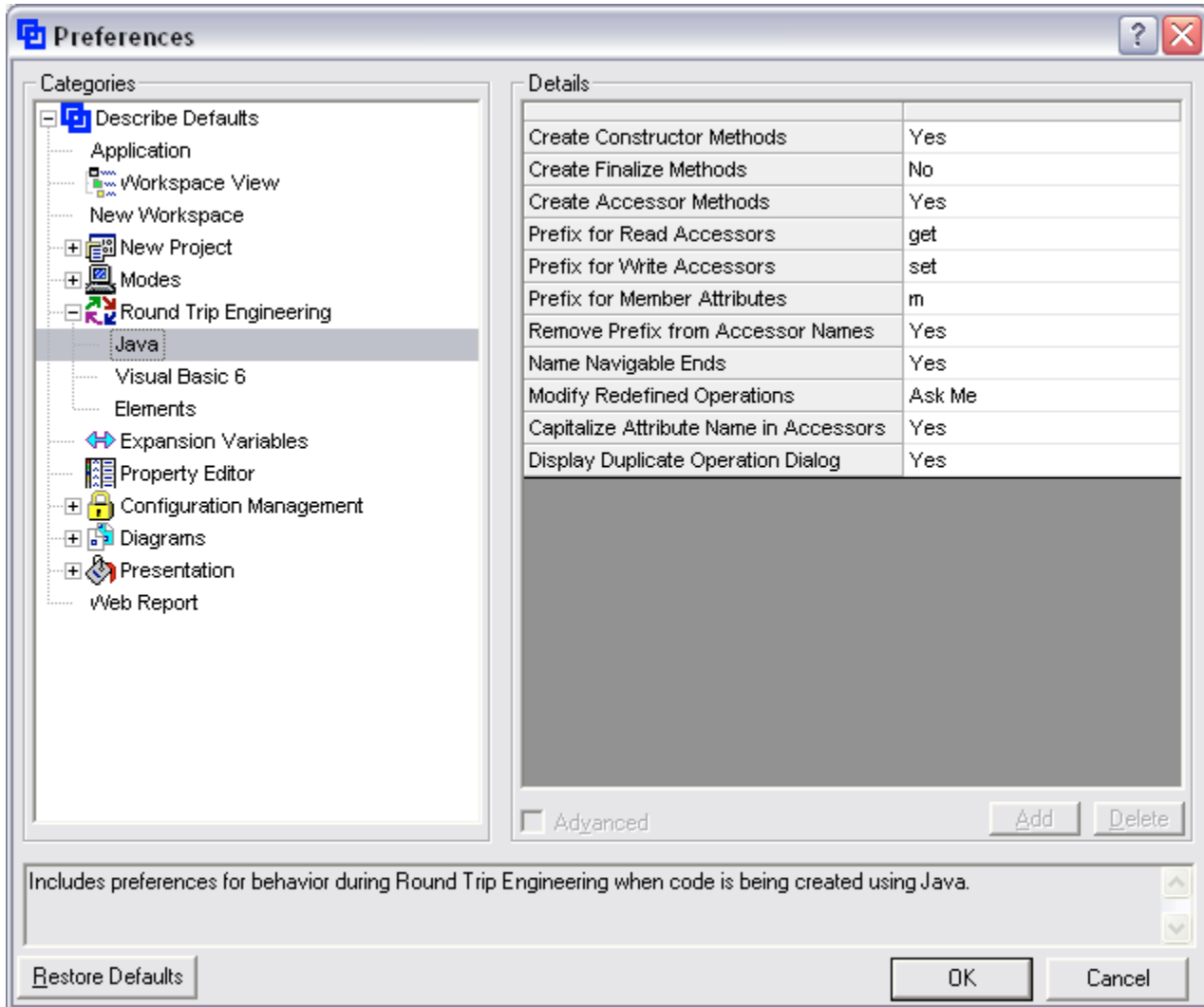


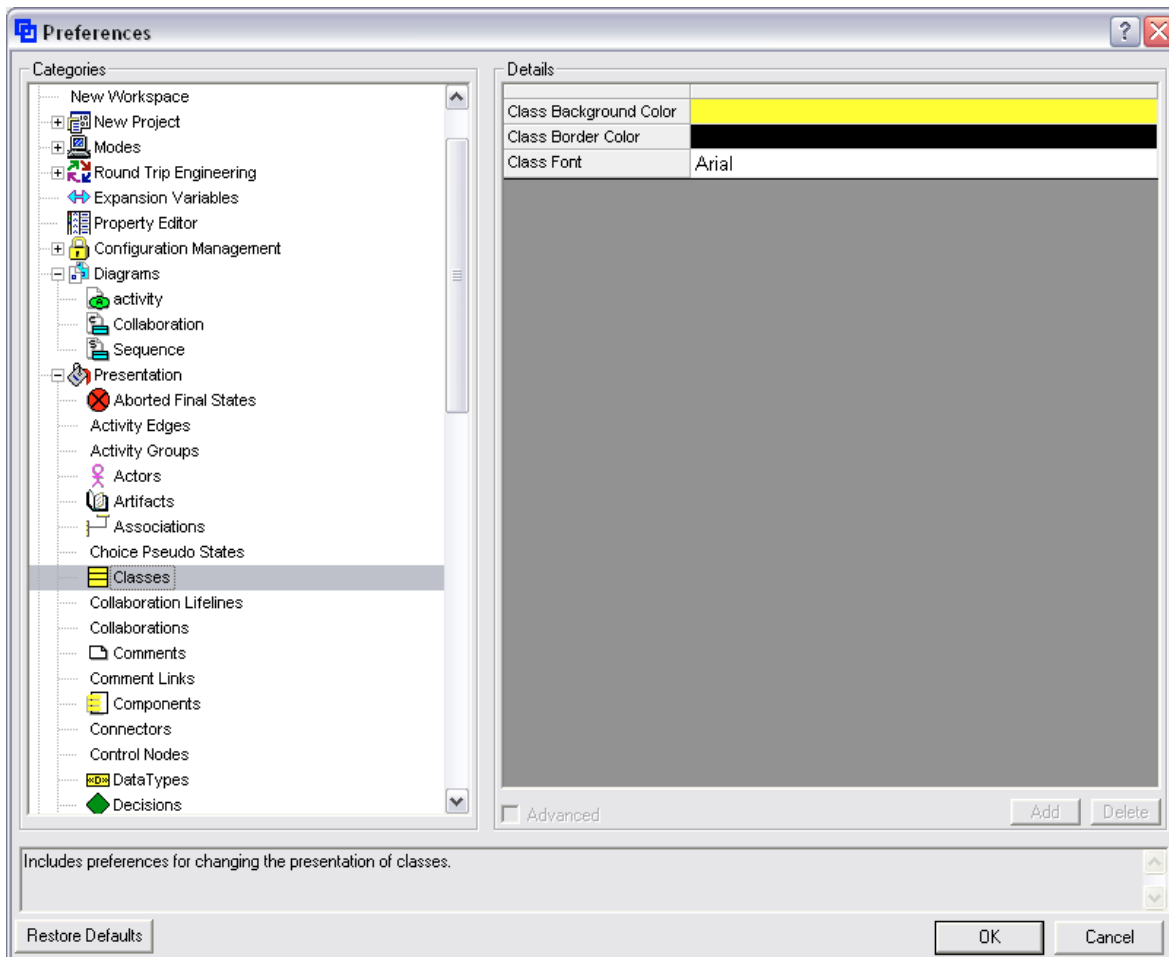
Replace functionality is also included; just select **Replace in Model** from the **Search** menu.

Enhanced Preferences Allows More User Control

As mentioned in **All the Power**, Describe 6.1.0 gives users access to preferences from within the IDE (not available in 5.x of Describe). Also, the preferences that are available to you have been expanded, allowing individuals much more control of the way Describe works for them. To access Describe Preferences:

In Forte, select **Preferences** from the **Describe** menu.



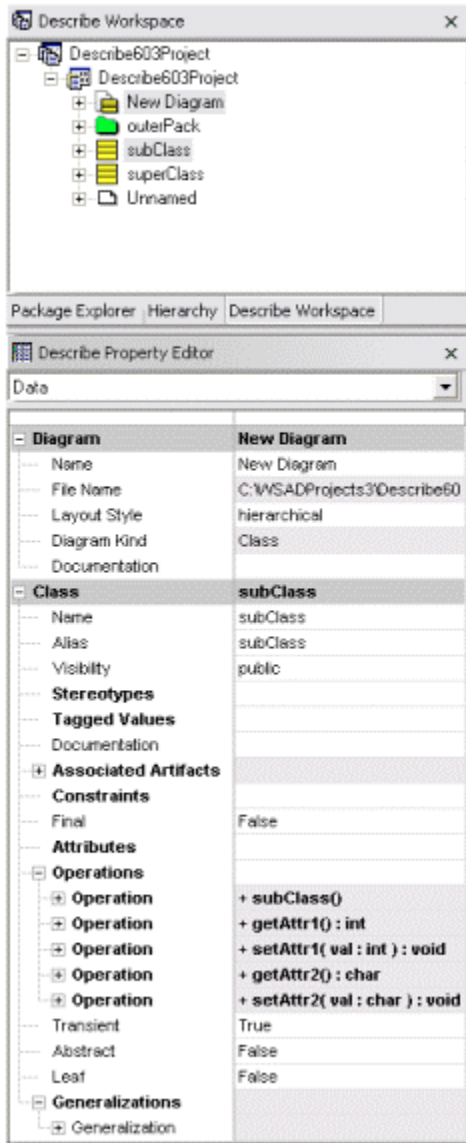


New and Improved Property Editor is Right Where You Need It

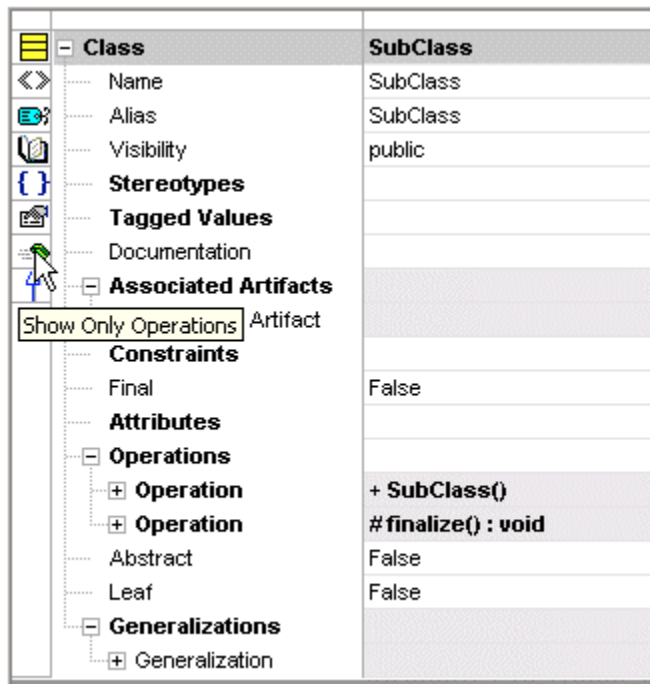
Describe 5.x provided a rich Property Editor. To access the properties of an element, you simply double-clicked the model element to view its properties. The disadvantages of this was that you had to open a separate dialog to view element properties and you were not able to view the properties of more than one element at a time. This had the potential of slowing you down.

In Describe 6.1.0, the Property Editor is always available as a new Describe Property Editor pane. Select any element from either the Workspace pane, or a Diagram, and its properties are immediately visible to you. Additional benefits of this new property editor are:

- The ability to manage and navigate a variety of elements, regardless of type, without having to select them individually. Notice that in the Workspace Pane (top) both a Diagram and a Class is selected at the same time. In the Property Editor, you can see the properties for both!

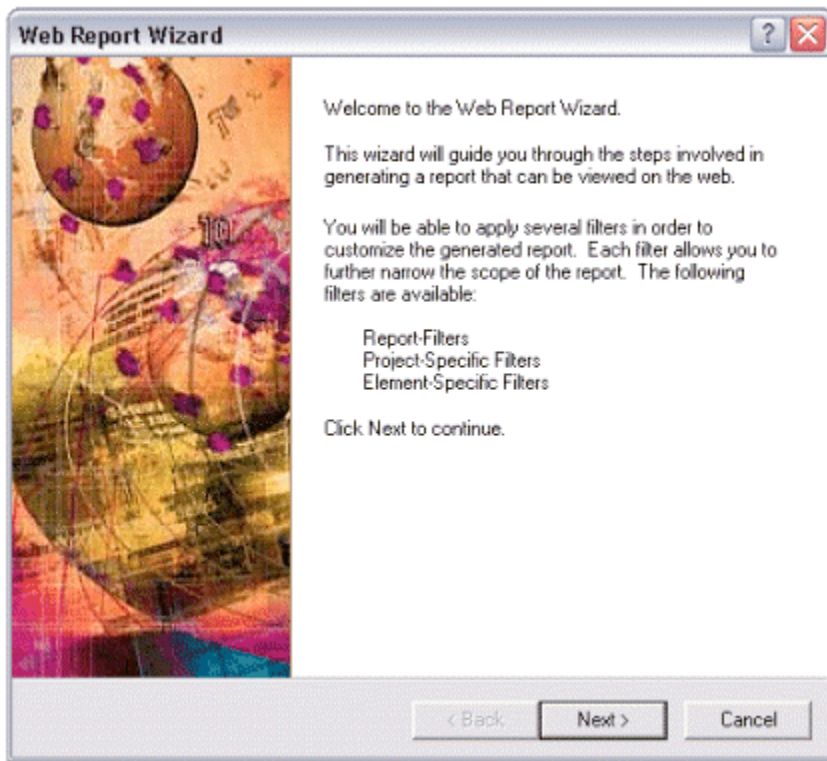


- ♦ The unique ability to filter the Property editor to show just properties of a certain type:



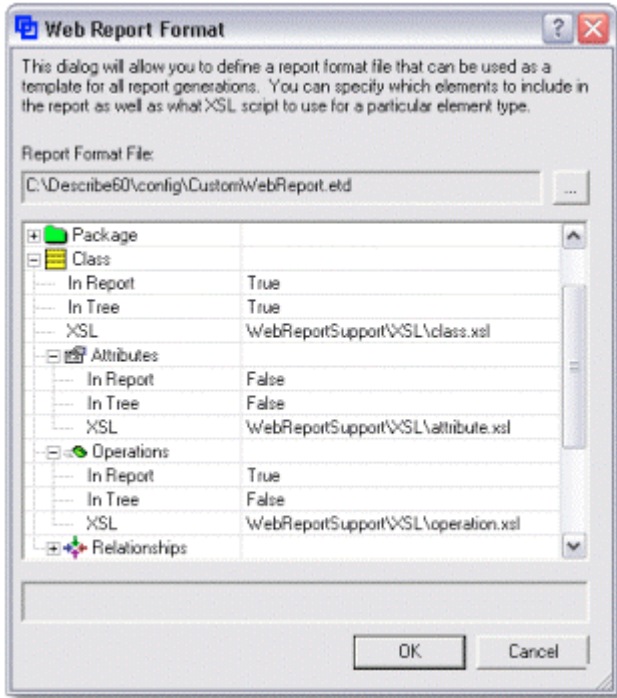
Customizable Web Report

Describe has a history of providing comprehensive reports and rich documentation. Describe 6.1.0 brings the Web Report, in particular, to a new level. You are able to customize exactly what goes into the Web Report for your project. Select specific diagrams, or certain model elements - you have complete control of what is reported. The resulting report is a browser-enabled view of the project, sharable with anyone who has access to a web browser.

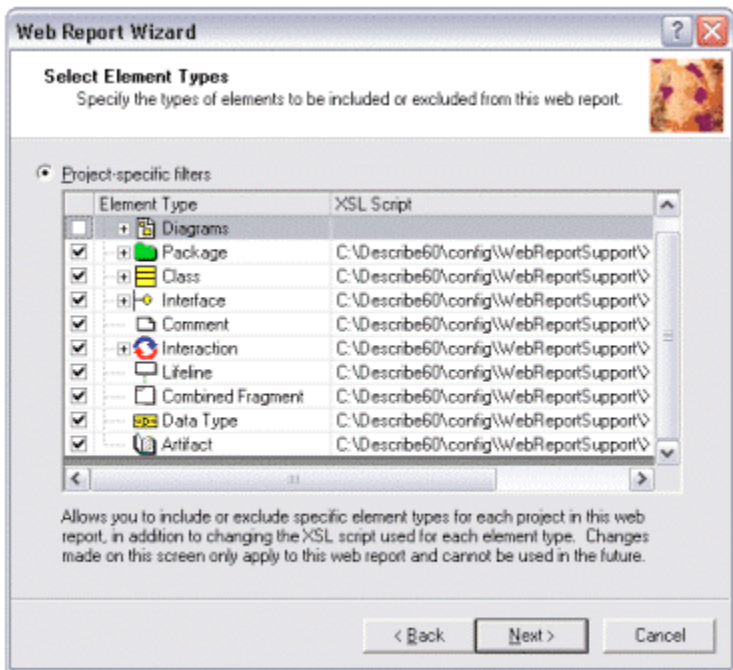


You can generate your report using the default report format included with Describe, or create your own. Your custom report format includes information about which elements to include or exclude from either the report details or the report tree. In addition, you can specify alternate XSL scripts to make your report appear exactly as you desire.

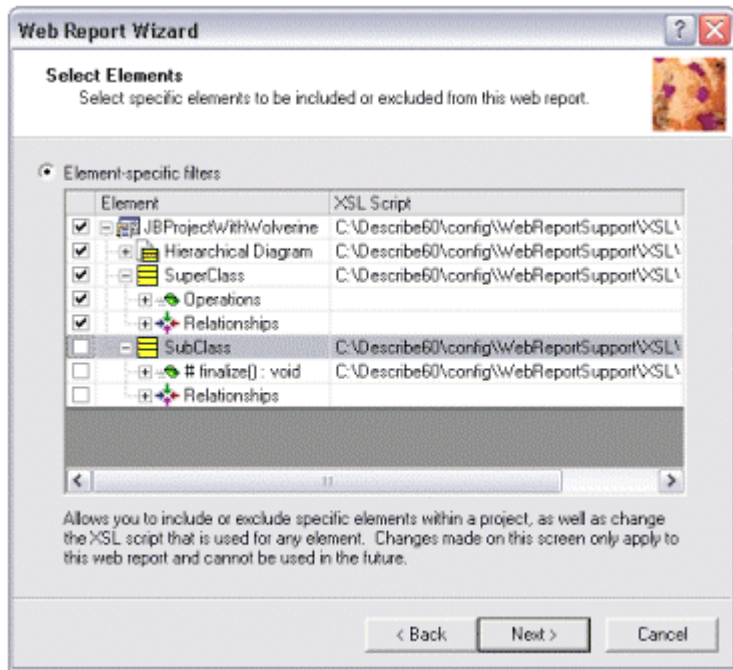
Best of all, your customized report can be saved and used for generating reports at any time in the future. This gives you the ability to create report templates (Customer Report, Management Report, Enterprise Report, etc.) that can be used by specific groups of people for their reporting needs.



After creating your general report template, you can further narrow the information included in the web report for a specific project. For example, if you don't want to include any diagrams in a specific report, you can exclude them on the following screen.

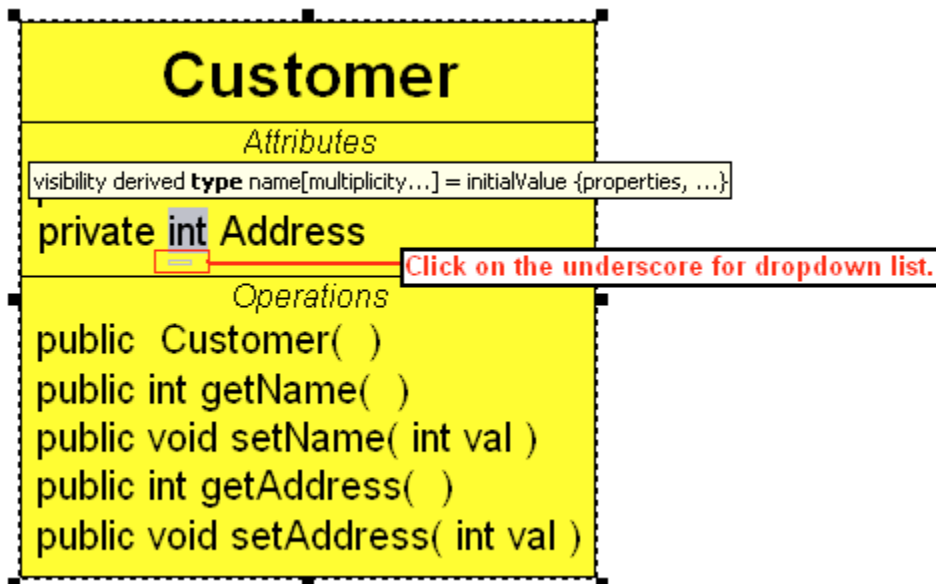


Finally, if you do not want to include specific elements from a project in your web report, you can exclude them on the following screen.

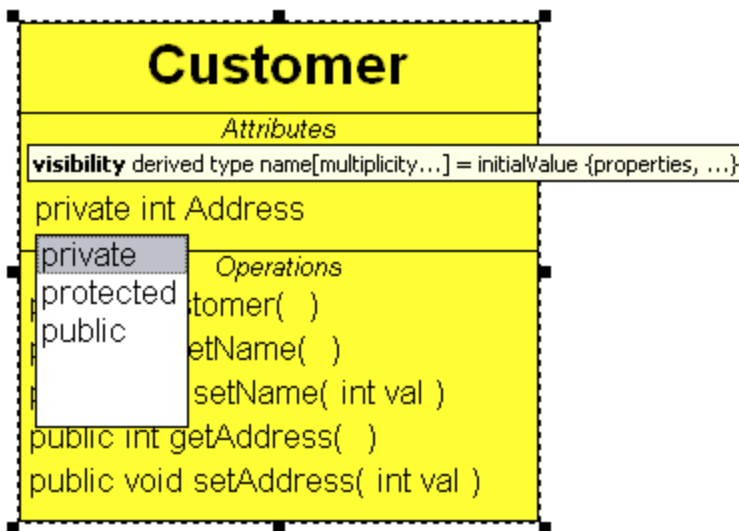
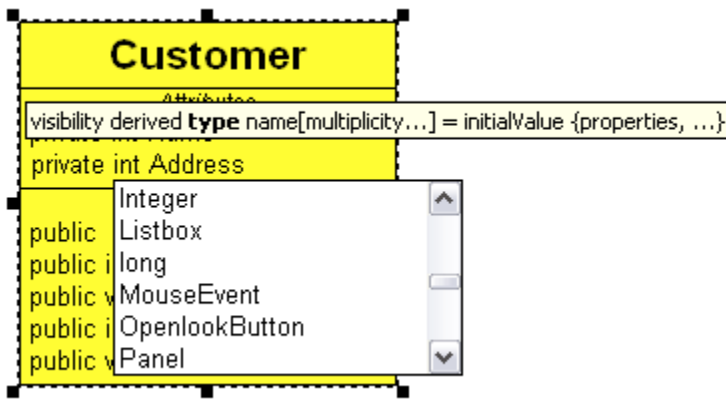


Control for Attributes and Operations

When creating classes and populating them with attribute and operations you will find several efficiency mechanisms. Once you drop a class, just start typing and the object is named. When adding an attribute or operation, either hit CNRL+ALT+A or right click and say add new attribute. Once you name it, you will get a pop hint editor and in the return and visibility section you will find an underscore.

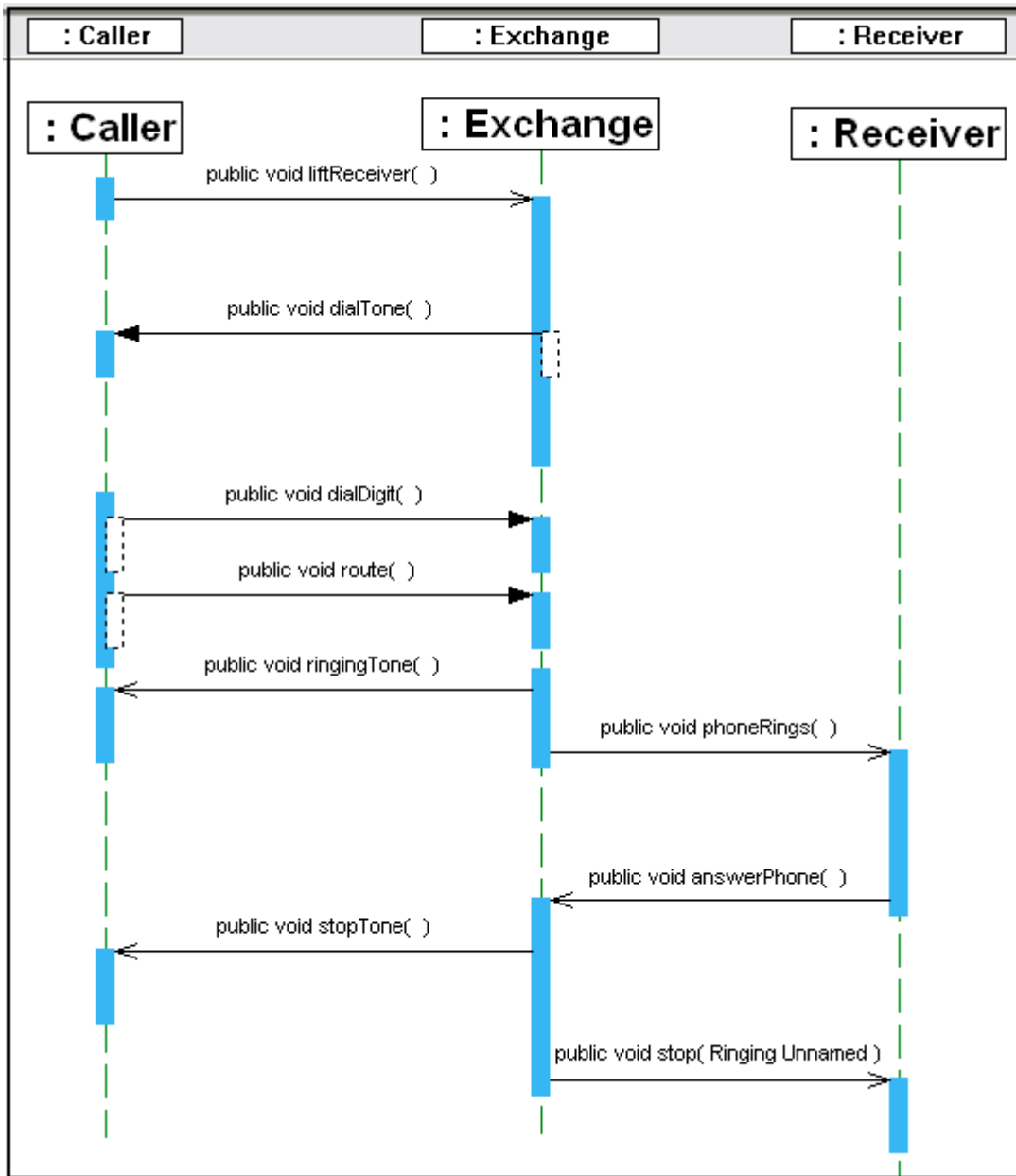


Click on that underscore you will you have a populated drop down box.

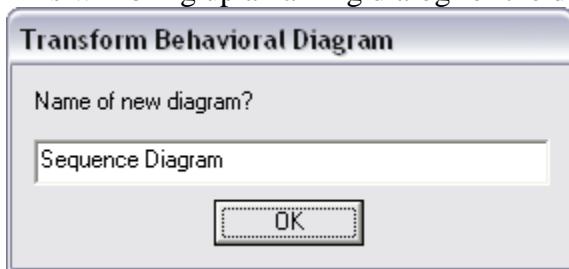


Automated Sequence and Collaboration Diagrams Created Interchangeably

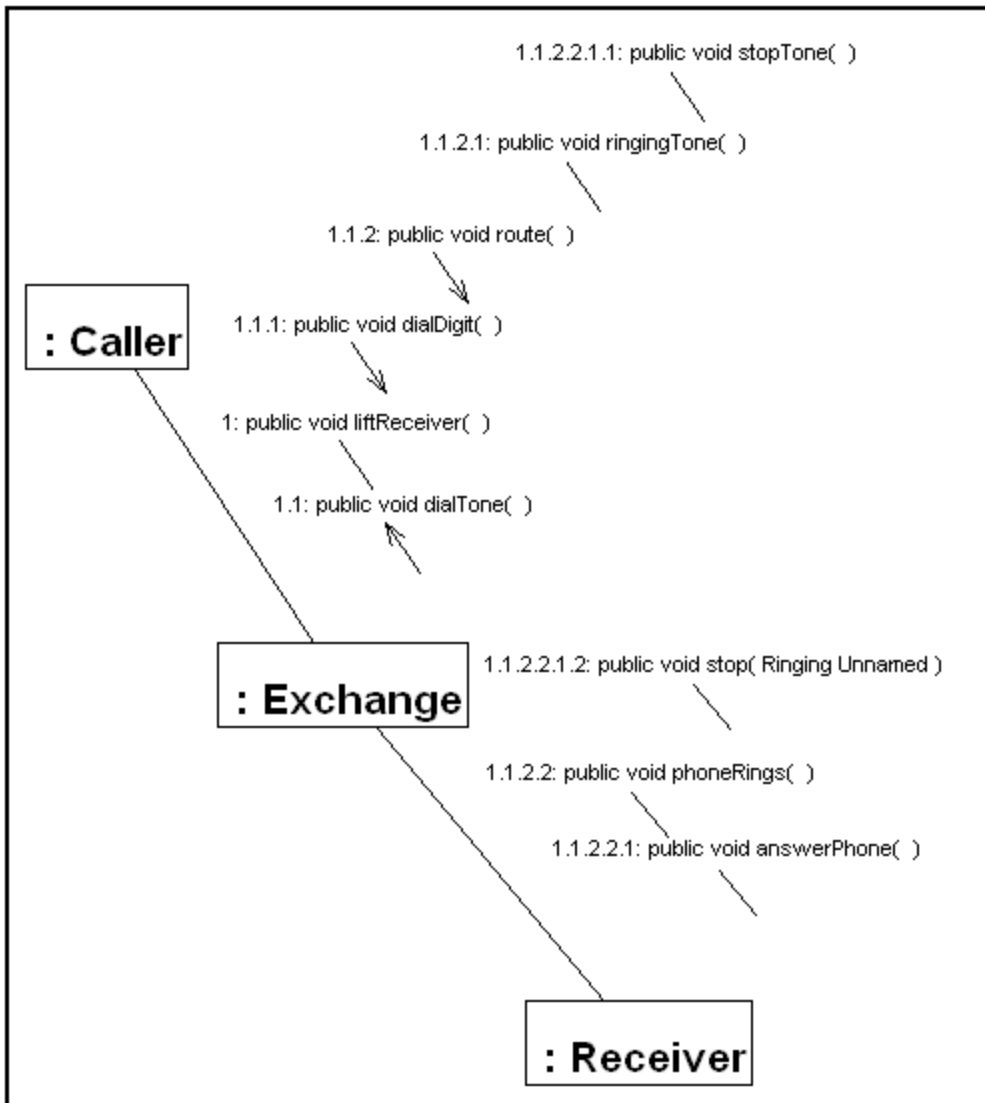
Once you have created a sequence or collaboration diagram, you will be able to create and toggle between the interaction diagrams. All that is needed to create a sequence or collaboration diagram from each other is to hit F6. Also notice on the collaboration diagram messages are automatically numbered.



This will bring up a naming dialog for the diagram you are to create and it is automatically created.

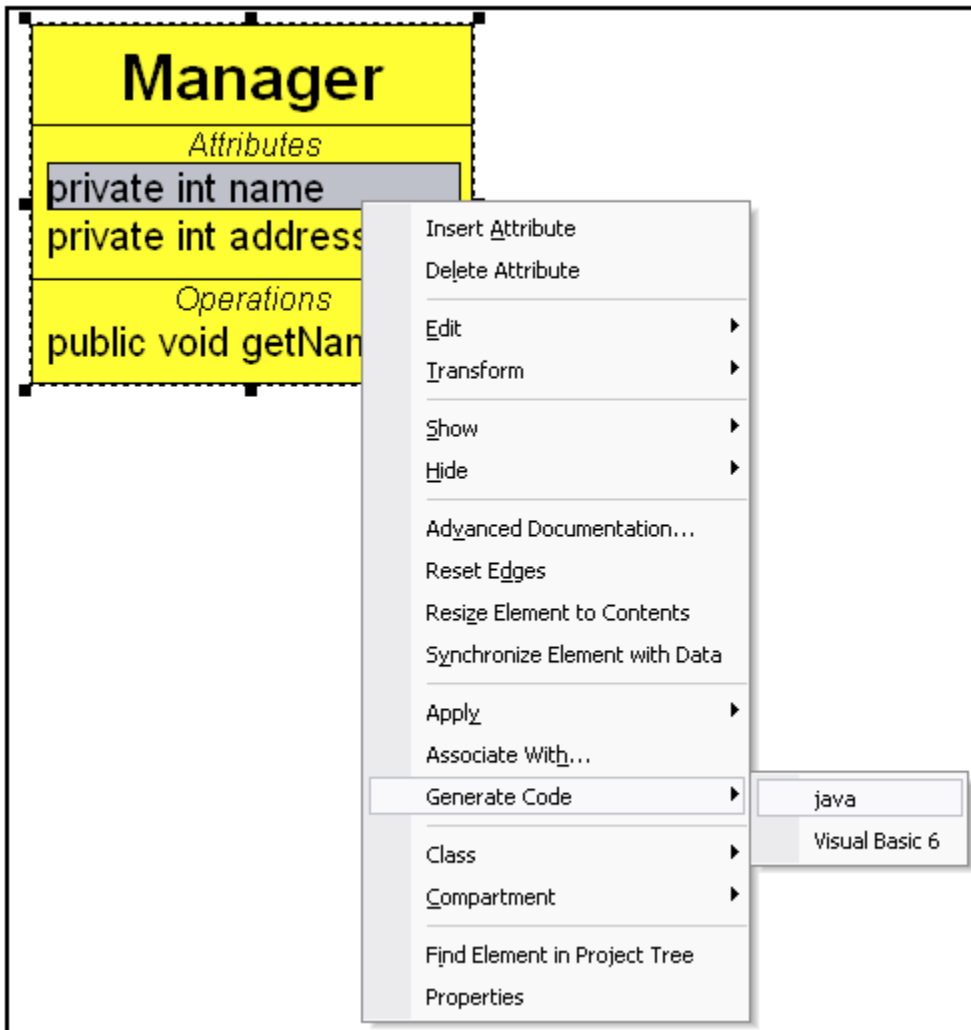


Also notice on the collaboration diagram messages are automatically numbered.



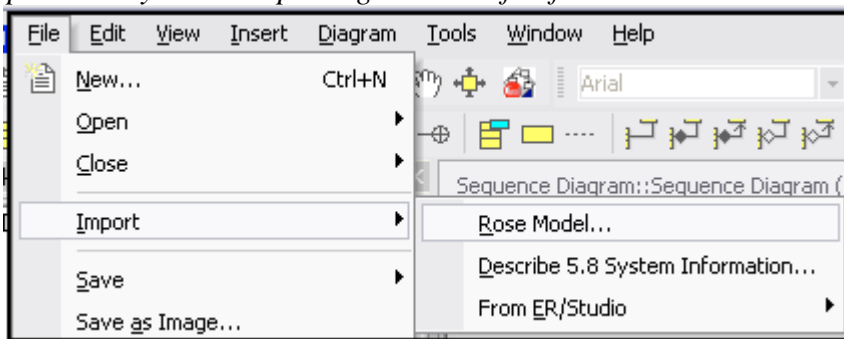
Language Support

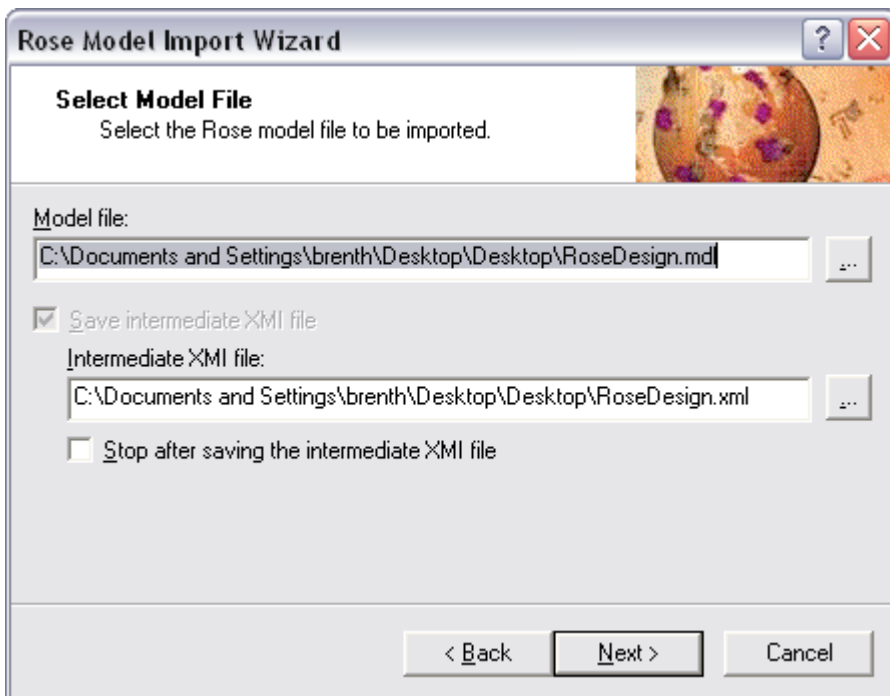
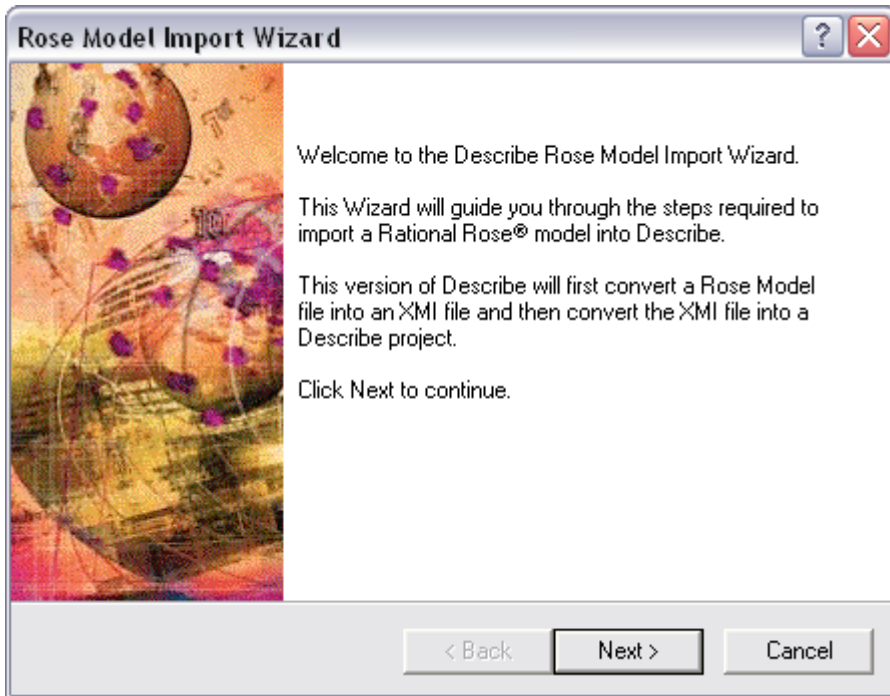
In the BETA release of Describe will only include JAVA and VB code generation. This can be done by right clicking on the class and selecting code generation.

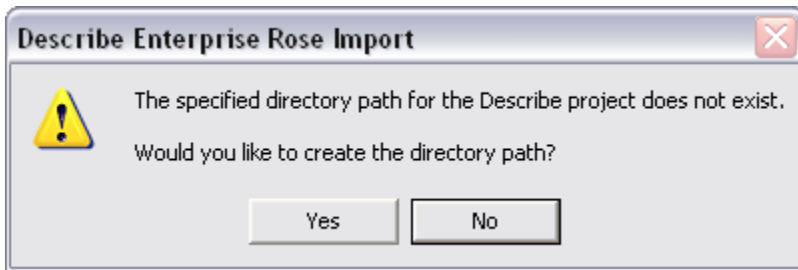
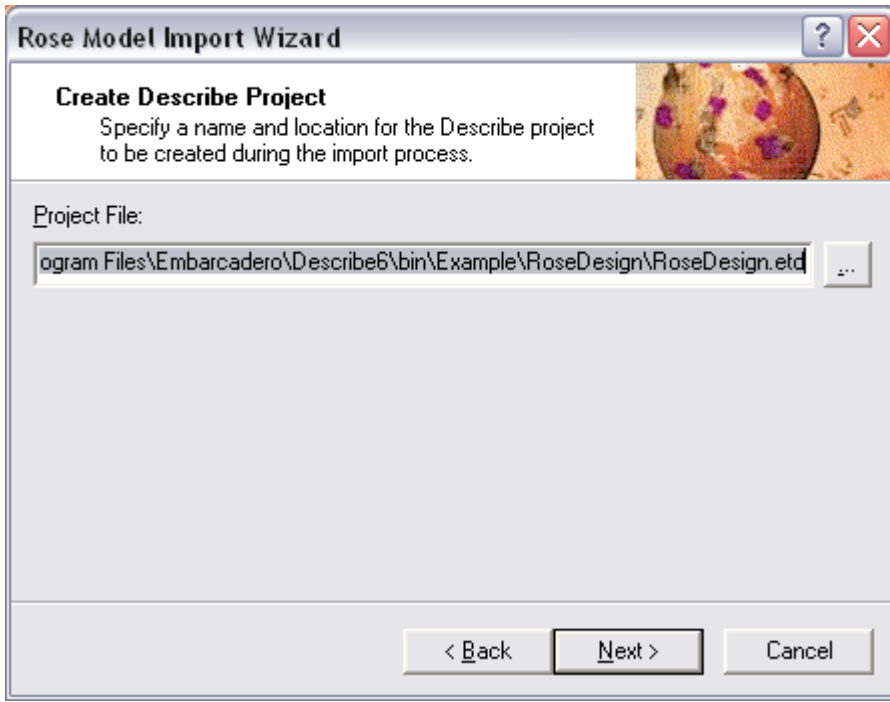


Rose Import

To import a Rose MDL file, go to the file menu and select import. This will open the rose import dialog. Once you have walked through the following dialogs you will have a newly created and imported rose model into Describe 6.1.0. *NOTE: When bringing Rose models with CAT files, make sure those CAT files are on the computer that you are importing the MDL file from.*

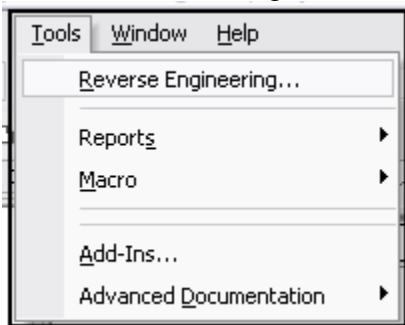




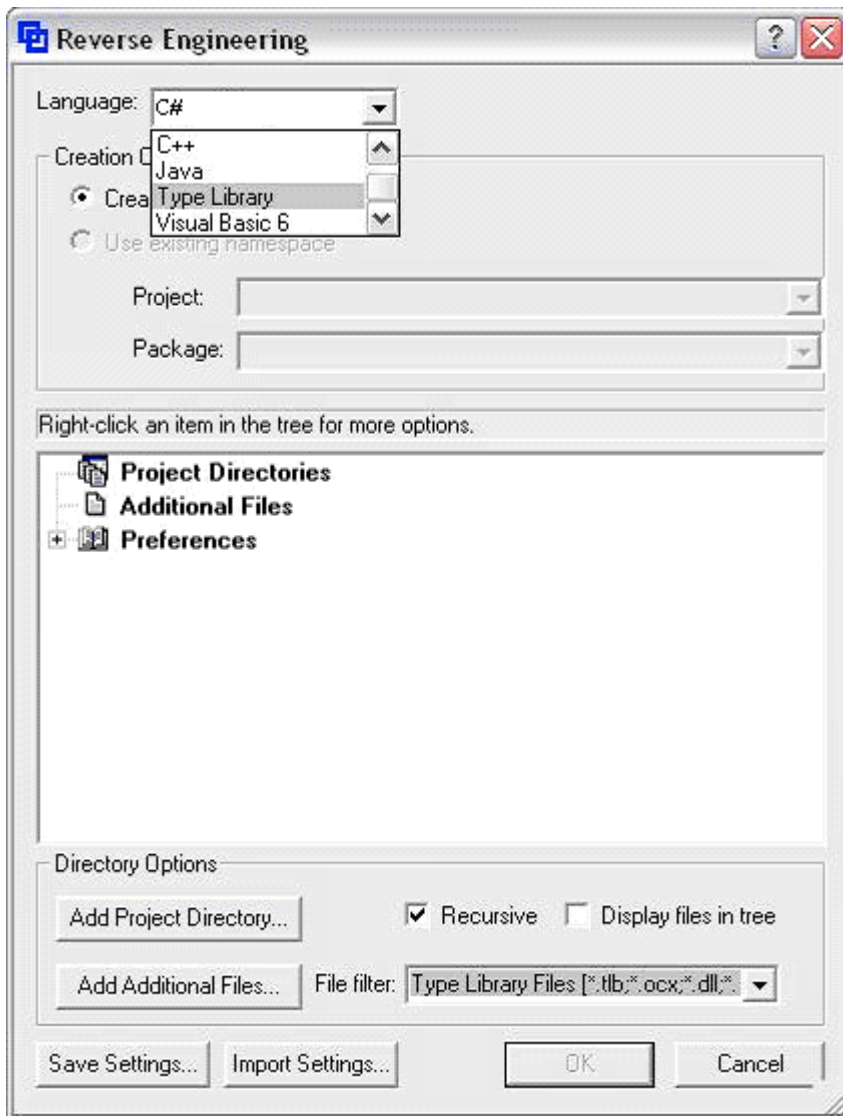


Reverse Engineering Support

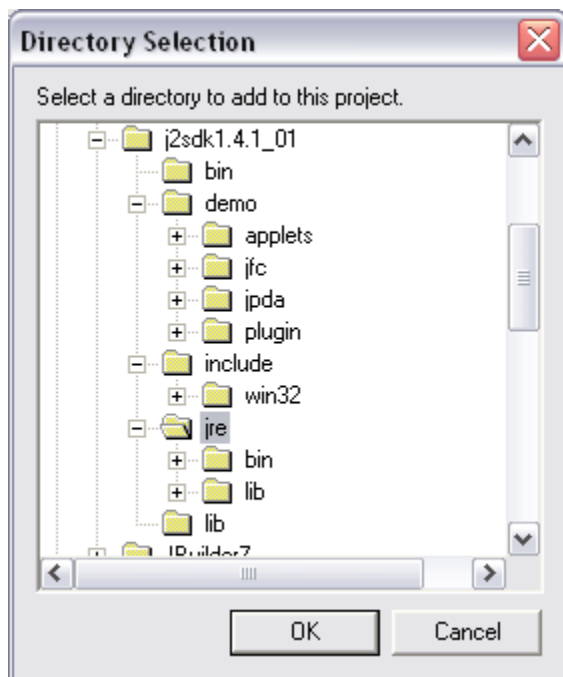
You will be able to reverse engineer C#, C++, JAVA, VB, and Type Library Import. This can be done from the Tools menu, Reverse Engineer.



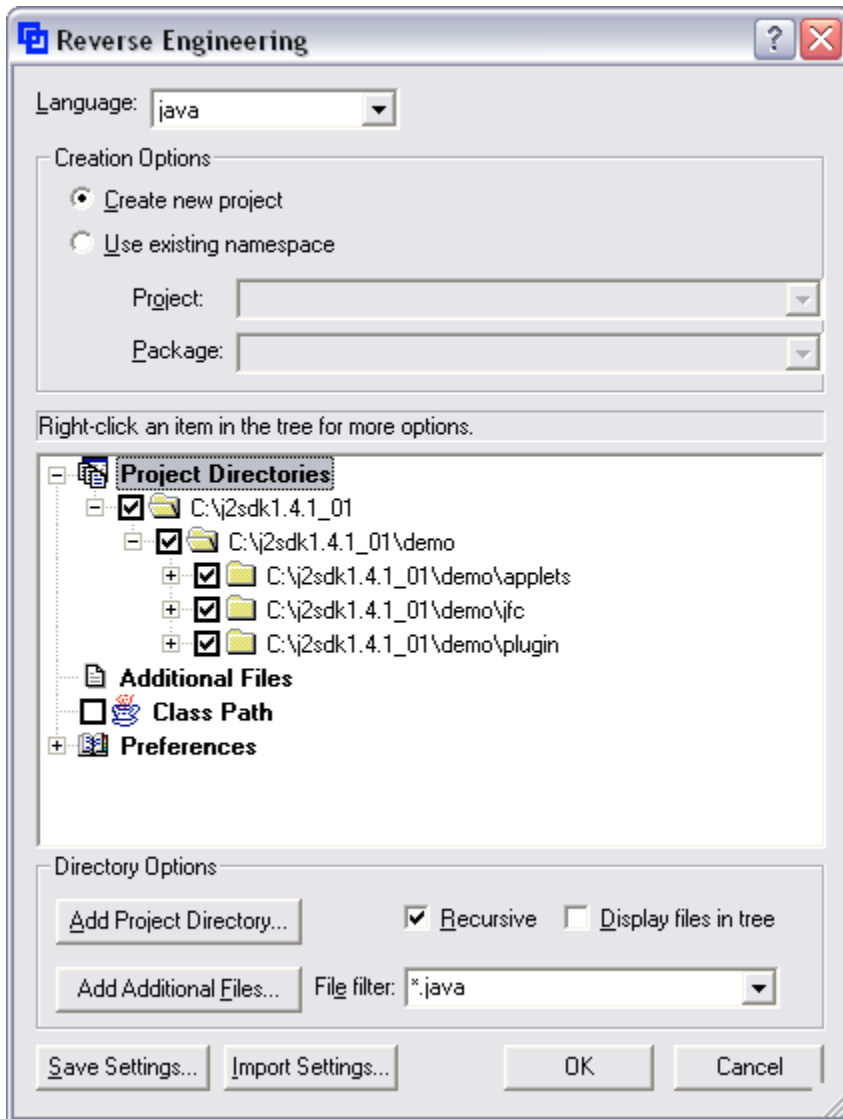
Once you have selected the language you want to reverse engineer you will see that Describe will recurse the directory structure.



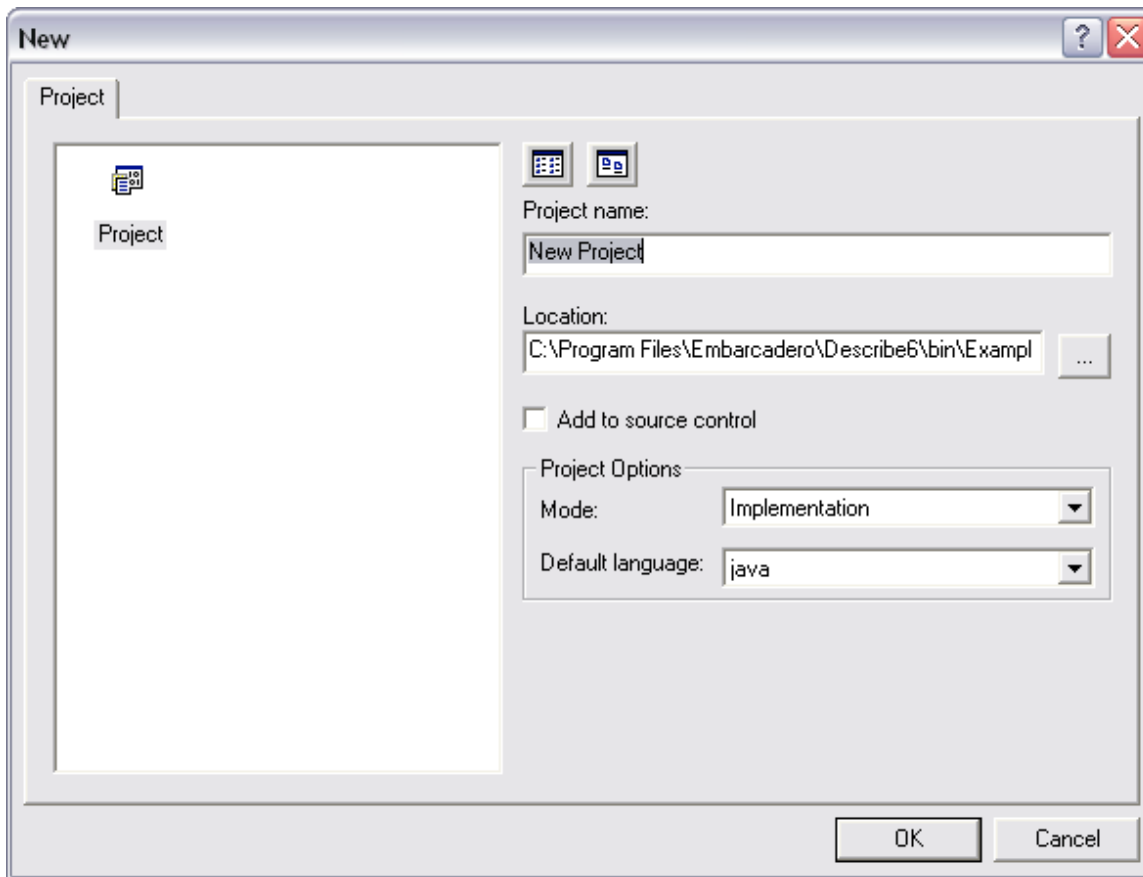
Double Click on the Project Directory and navigate to the source code.



You will be able to uncheck which directories you want reverse engineered.



Describe will then prompt you to create a new Project inside of your current workspace.



Reverse Engineering of Sequence and Collaboration Diagrams

To reverse engineer operations into sequence and collaboration diagrams, right click on the selected operation and select Reverse Engineer Operation. This will prompt you to create Sequence or Collaboration diagrams.

```

Ellipses
Attributes
private double esize[*]
private float estroke[*]
private double maxSize

Operations
public Ellipses( )
public void getRandomXY( int i, double size, int w, int h )
public void reset( int w, int h )
public void step( int w, int h )
public void render( int w, int h, Graphics2D g2 )
public void main( String argv[*] )

```

- Insert Operation
- Delete Operation

- Edit ▶
- Transform ▶

- Show ▶
- Hide ▶

- Advanced Documentation...
- Reset Edges
- Resize Element to Contents
- Synchronize Element with Data


- Apply ▶
- Associate With...
- Reverse Engineer Operation...

- Class ▶
- Compartment ▶


- Find Element in Project Tree
- Properties

New
?
✖


Diagram



Activity Diagram



Collaboration Diagram



Sequence Diagram






Diagram name:

New Diagram

Namespace:

Reverse Engineered Project::java2d::demos::Arcs_Curves: ▼

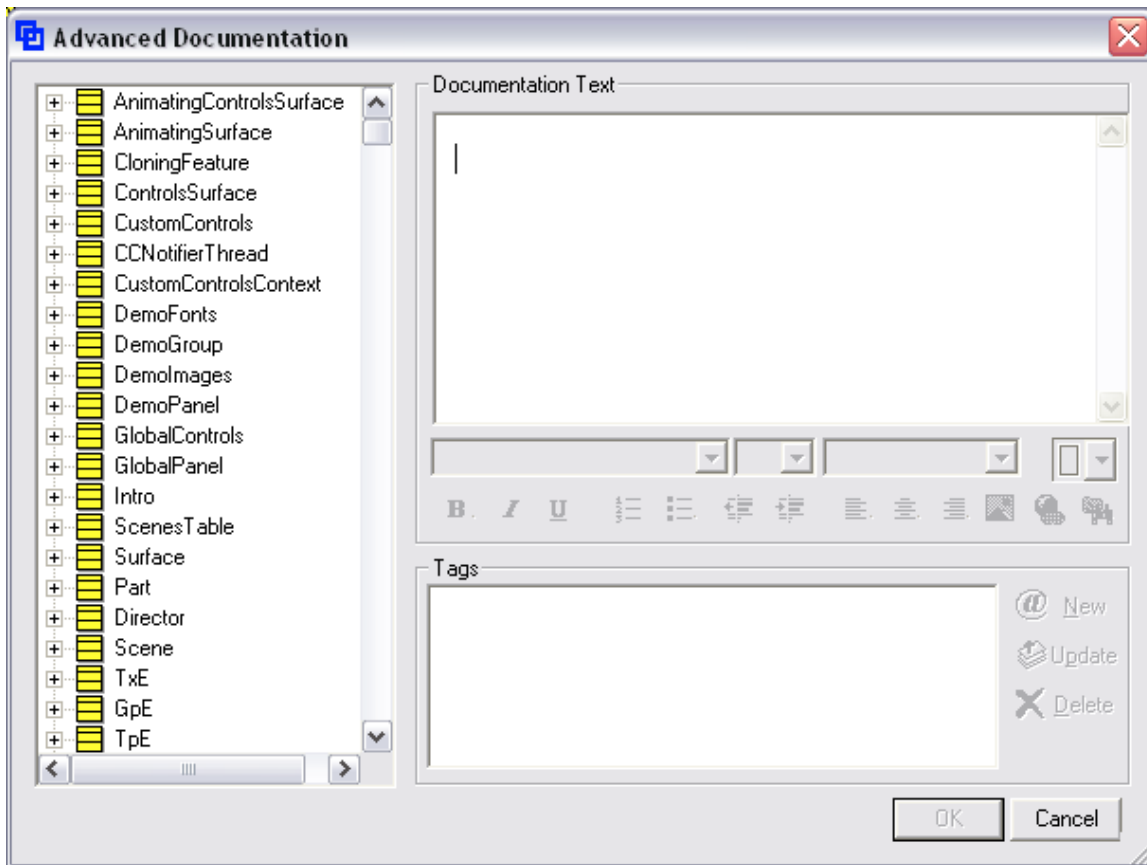
OK

Cancel

Page 59 of 82

ADVANCED DOCUMENTATION PANE

There is a built in source code editor to quickly comment your source code.

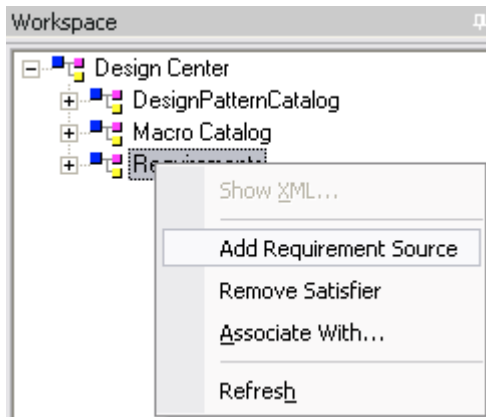


More New Feature Information

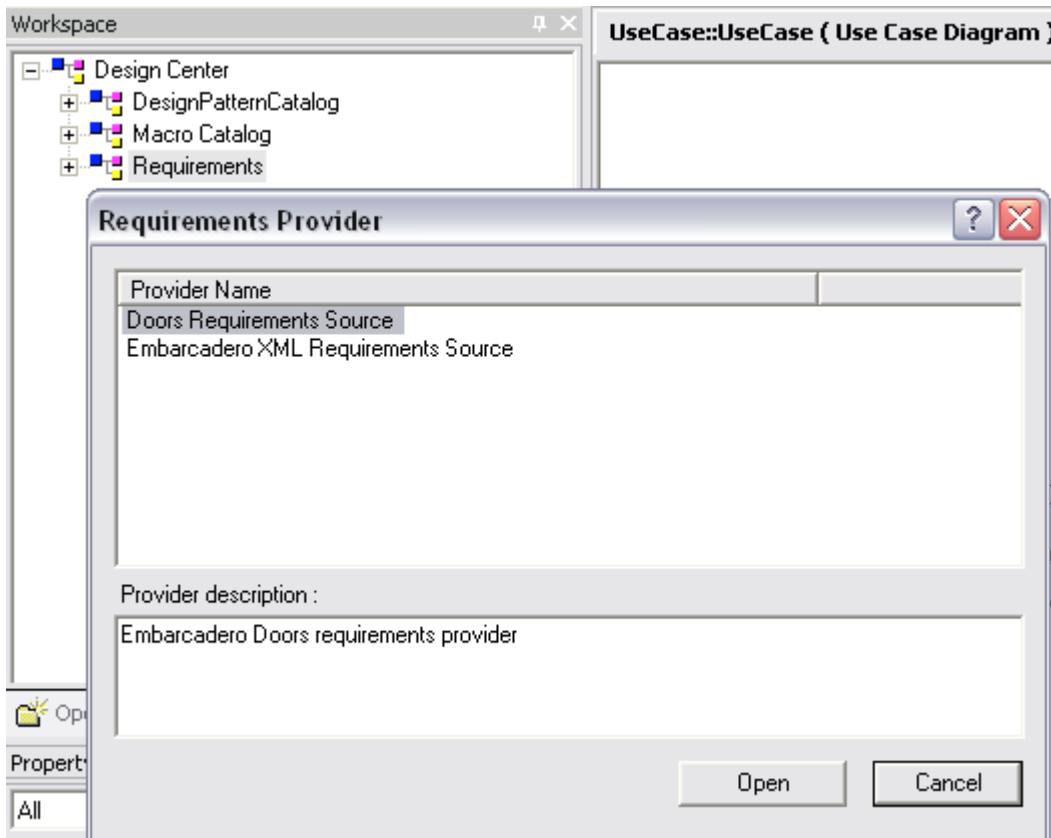
Telelogic DOORS 6.0 Requirements Support

Describe will detect DOORS during the installation process and install the necessary files needed for the integration. Once you have installed Describe you will be able to associate the DOORS requirements project to Describe modeling elements. In the Describe Design Center right click on the Requirements node and select Add Requirement Source.

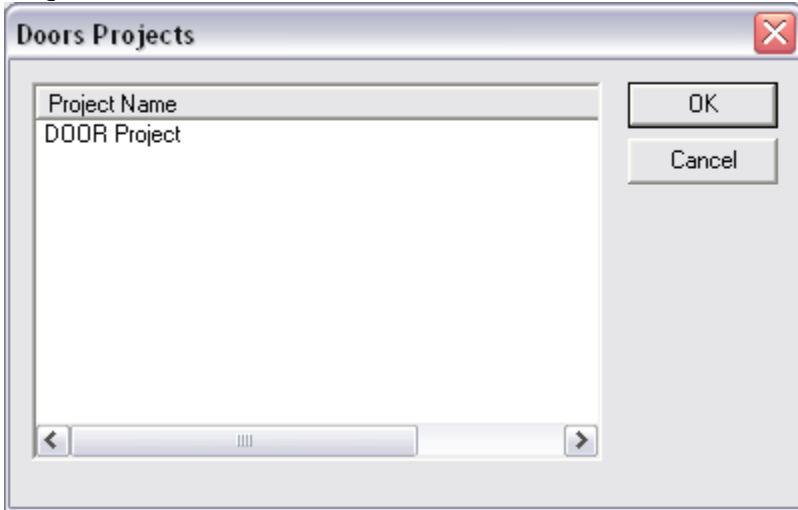
NOTE: USERS MUST LOG INTO DOORS FIRST IF THEY WANT TO RUN DESCRIBE SIMULTANEOUSLY.



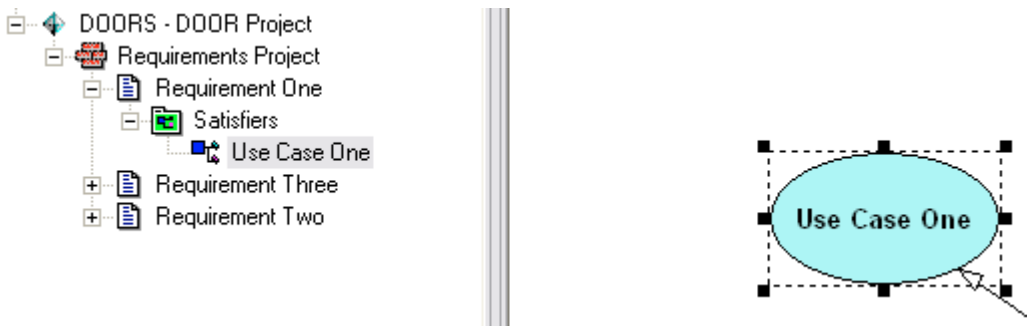
The Requirements Provider dialog will open and then you select Doors Requirements Source.



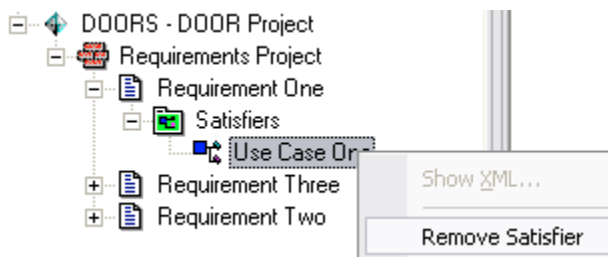
The Doors Projects dialog will show all available DOORS projects that can be brought into the Design Center Requirements node.



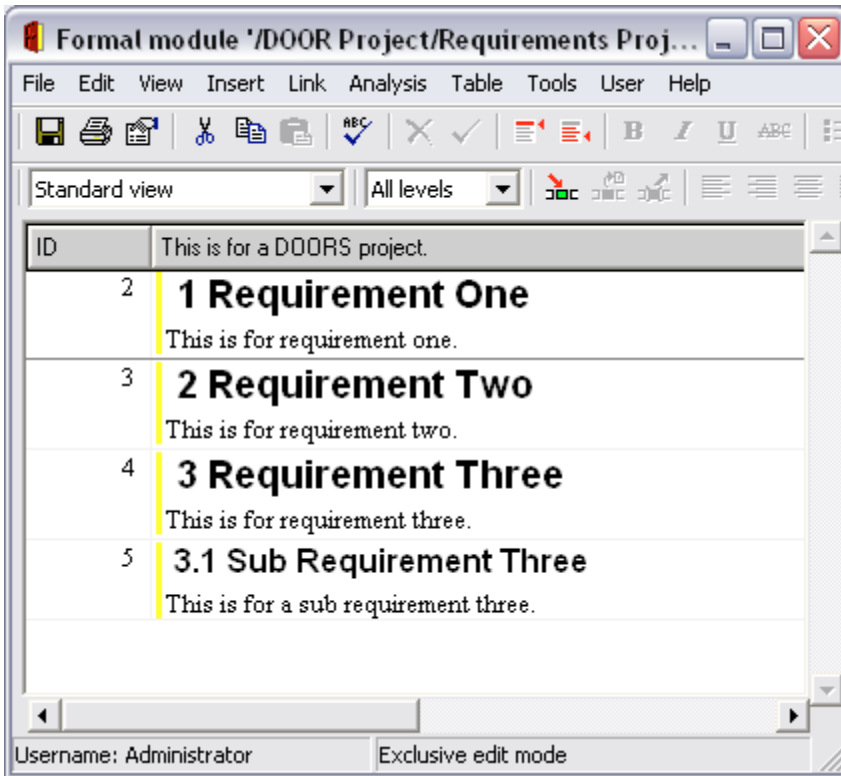
Once you have clicked on OK, you will see the Doors Requirement project populated in the requirements node. You can expand the node to see all existing requirements and sub requirements. You can now drag/drop any requirement onto any diagram modeling elements. Once a requirement is associated with a modeling element, you will see it populated under the Satisfiers node.



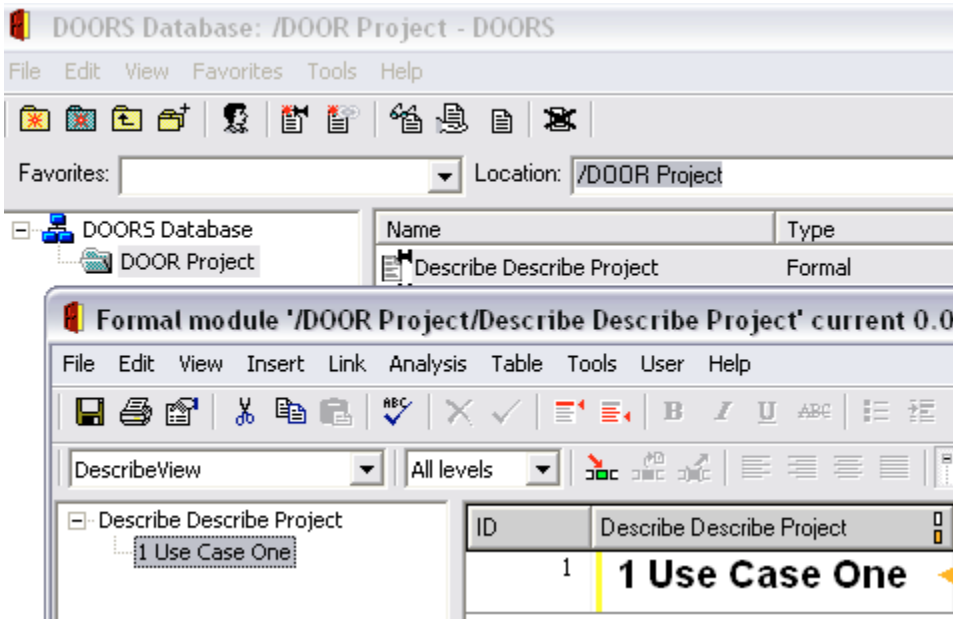
You can remove a Satisfier by right clicking and selecting Remove Satisfier.



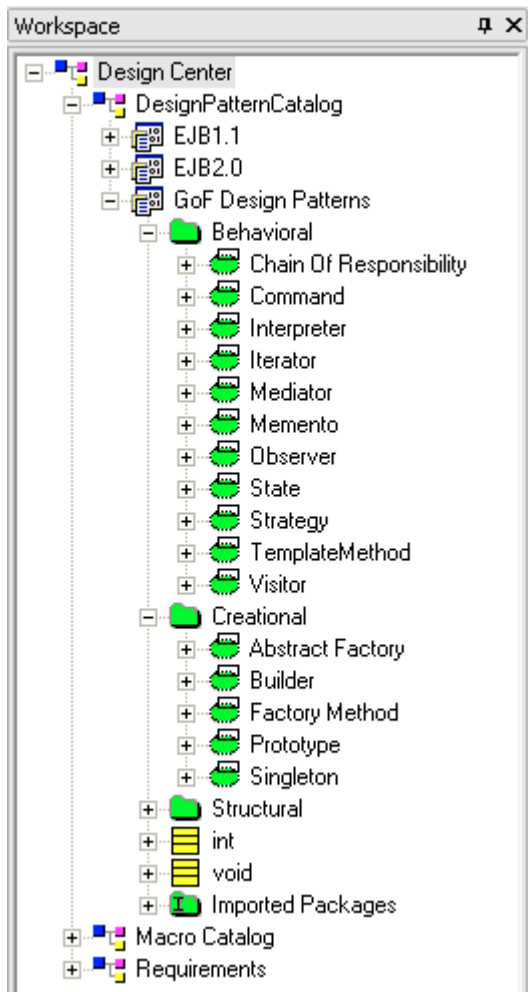
In DOORS, open up the Formal Module that you have associated with Describe. In the Formal Module you can add, delete, and modify requirements. Once requirements have been added, deleted and modified, go back to Describe and select Refresh on the requirement projects node and the new requirements or changes will be populated.



In the DOORS Project you will see that Describe will create a matching module for every DOORS module associated with Describe. This Describe module will exhibit all of the Describe modeling elements that are associated with DOORS requirements. You will be able to see all associated requirements from Describe inside of the Describe created DOORS module.



Pattern Support

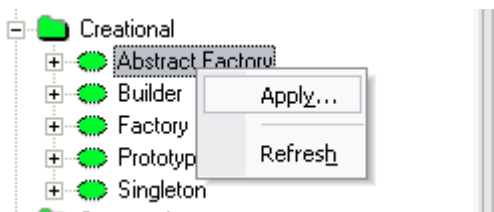


Users will have the ability to do the following with Patterns within Describe.

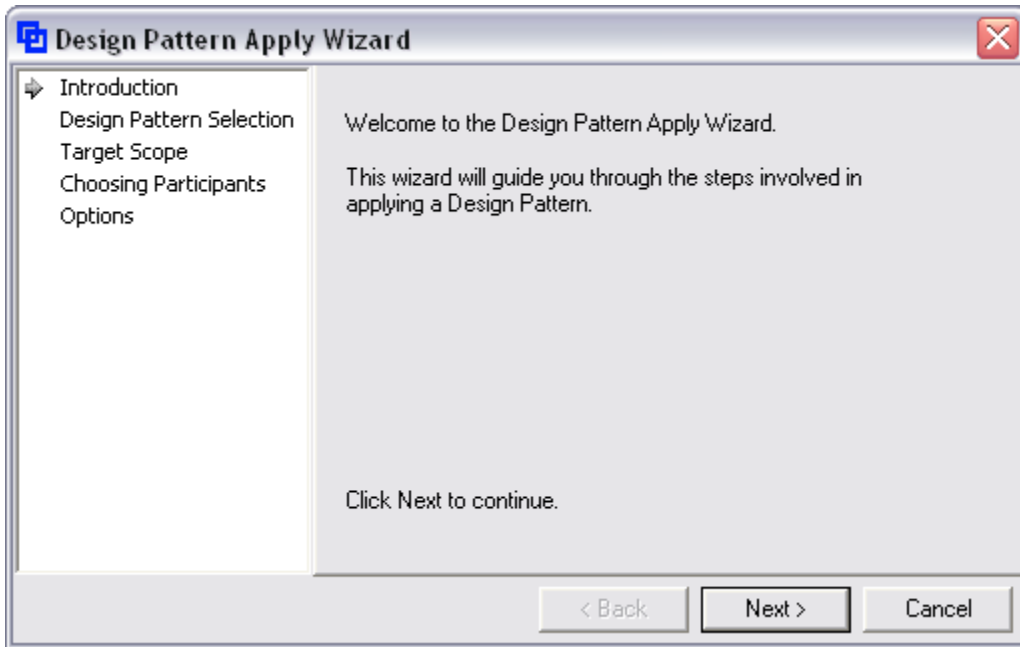
- **View patterns**
 - This can be done from the design center by clicking on the pattern in the tree.
 - This can also be done from the project tree if a user has created a collaboration in their own project.
 - This will allow the user the ability to see information about their pattern in the Describe application.
- **Apply patterns**
 - This can be done by right-clicking on any element in the project tree, from any element on a diagram, or from the design center.
 - This will allow the user the ability to “instantiate” the pattern into one of their own projects.
- **Create patterns**
 - The user will use Describe to model/create their pattern. They will be able to create/draw all of the appropriate elements. This will be done from within a project.
 - There will be a Pattern Creation Dialog that can be invoked from the Design Pattern window pane.
- **Update patterns**
 - The user will use Describe to update their pattern. This can be done from the design center or within a project.
 - This will allow the user the ability to add/update/delete information from any of the patterns.
- **Delete patterns**

- The user will use Describe to delete their pattern. This can be done from the design center or within a project.
- **Ensure Pattern Consistency**
 - Once a user has changed/deleted a pattern from the design catalog or promoted changes from a project, they may want to apply this change to projects (elements) that have been instantiated due to the pattern or they may want to remove those elements that have been instantiated due to the pattern.
 - This will be from the design center only.
- **Copy patterns**
 - Give the user the ability to copy an entire pattern. This can be done from the design center or within a project.
- **Promote patterns**
 - Once a user has created and/or modified a pattern, we need to give them the ability to add it to the design pattern catalog so that it can be used by other projects. This can be done from the pattern itself (in the project).
 - This will involve copying it to the catalog. There will be no connection between the two after this.
- **Import patterns**
 - Once a user has created and/or modified a pattern, we need to give them the ability to add it to the design pattern catalog so that it can be used by other projects. This can be done from the design center.
 - This will involve copying it to the catalog. There will be no connection between the two after this.
- **Check in/out patterns**
 - We will tie into the SCC integration by providing all of the same menu items and then calling the integration.
- **Categorize/Recategorize patterns**
 - Give the user the ability to specify the package that the pattern lives in and/or change it.

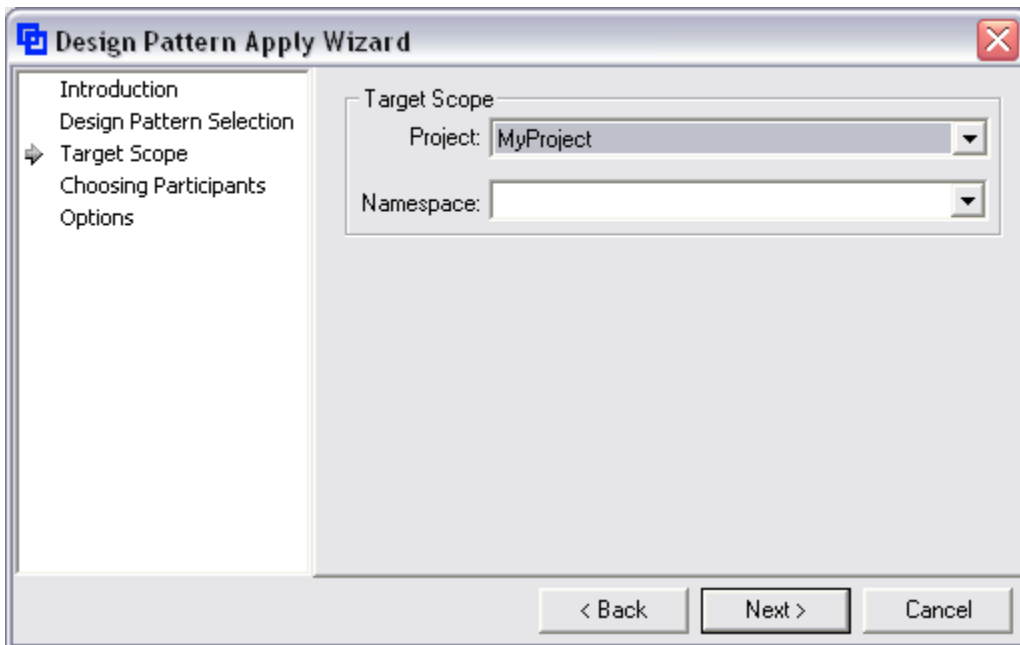
Design Center Apply Pattern Creation



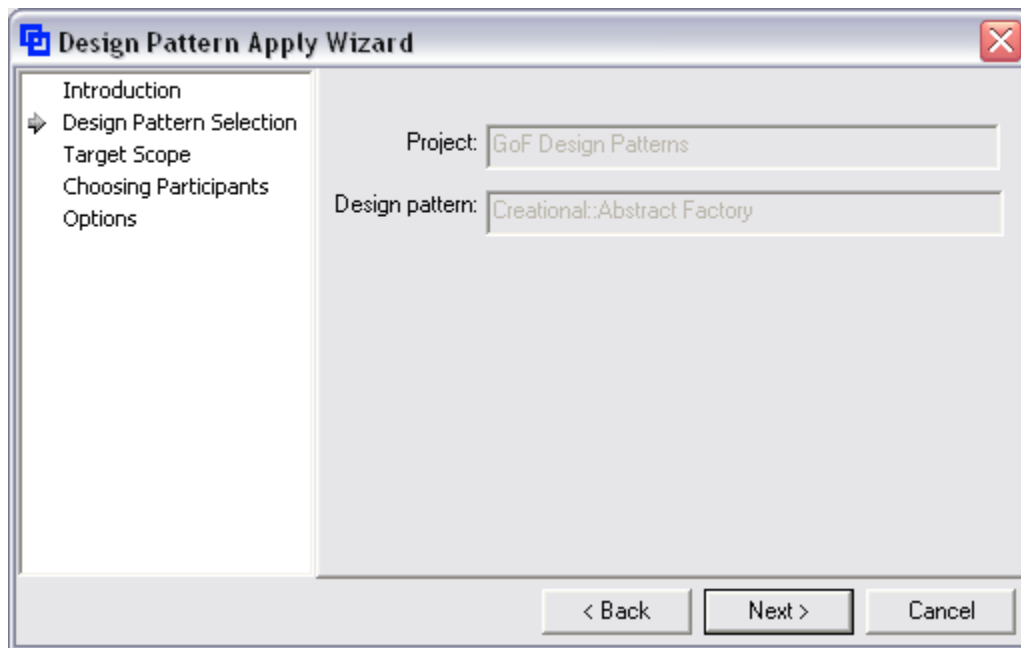
- Apply will only be activated if at least one project in the project workspace exists.
- Apply will only appear when one collaboration is selected in the tree.
- Upon clicking apply, the Design Pattern Apply Wizard will appear:



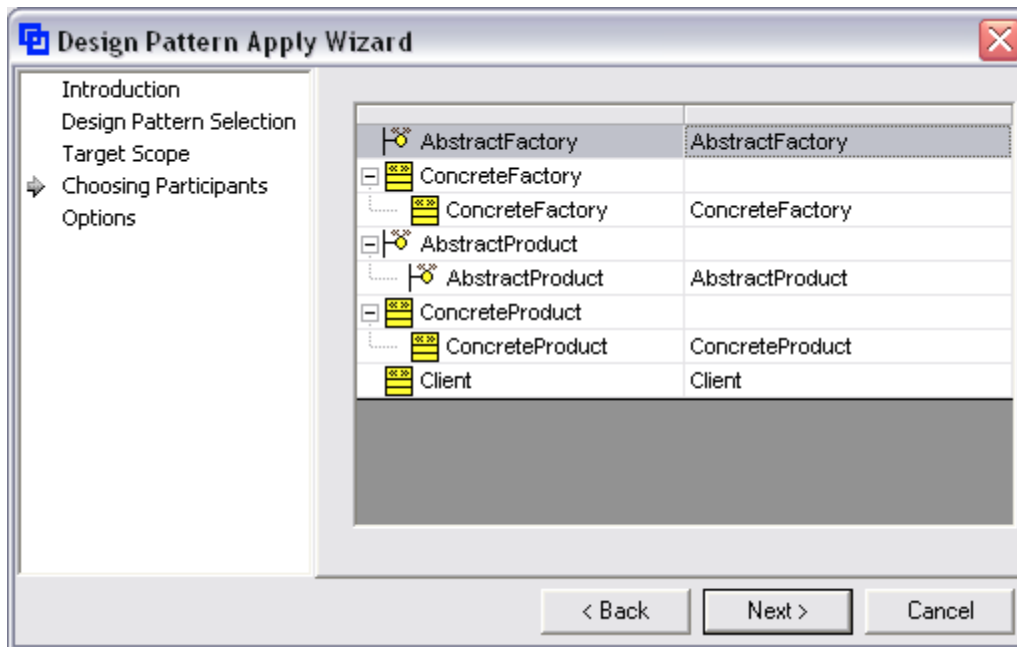
- Project will default to the first open project in the project tree. Project list will be all of the projects in the current workspace.



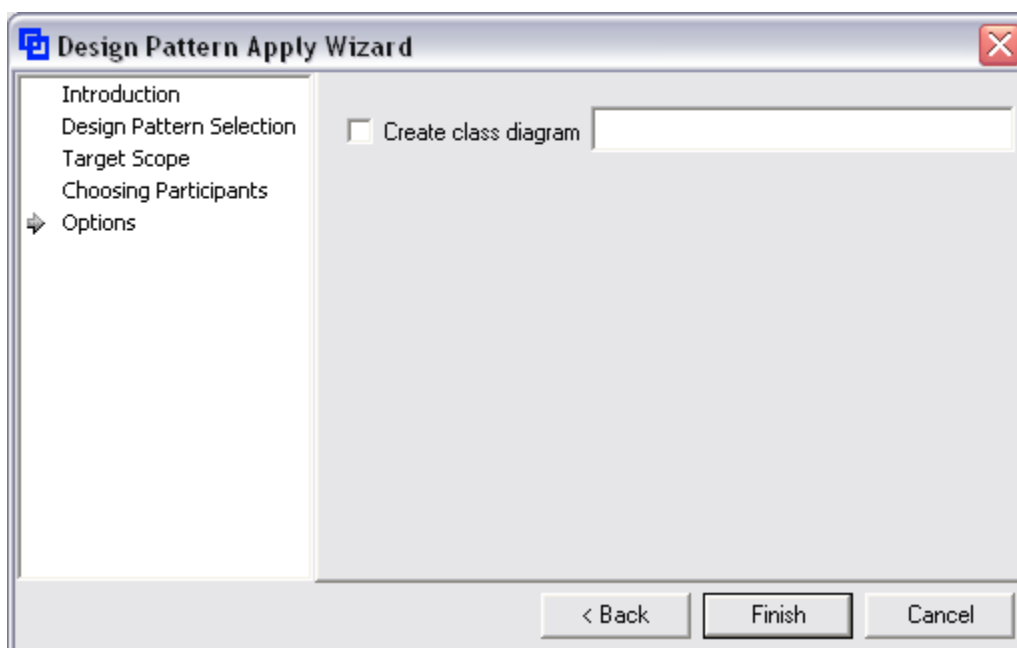
- The Design Pattern Selection dialog will show the name of Pattern Project and the Design Pattern name.

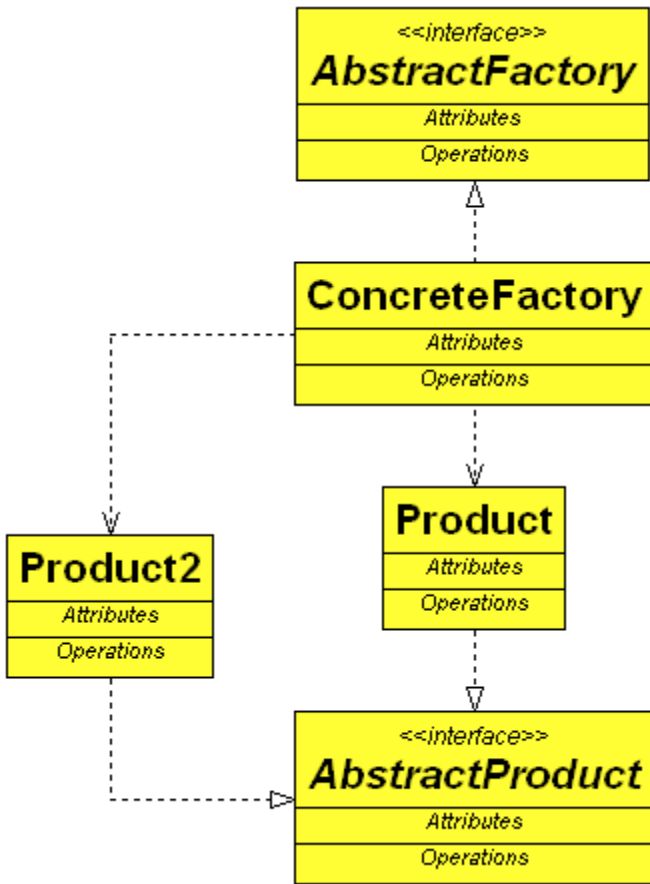


- Participants will be each of the elements participating in the pattern as roles. The role names (left side) will be determined by the element name. The instance name (right side) will be defaulted to the element name since we are coming from the design center.
- Instance name lists will be populated with all of the element names of the same role type. Currently, the only types that can be in roles, are Interfaces and Classes through the GUI.
- Participants that can have multiple instances playing in the role will appear with one child node, but more can be added. The name will be calculated based on the number of instances.

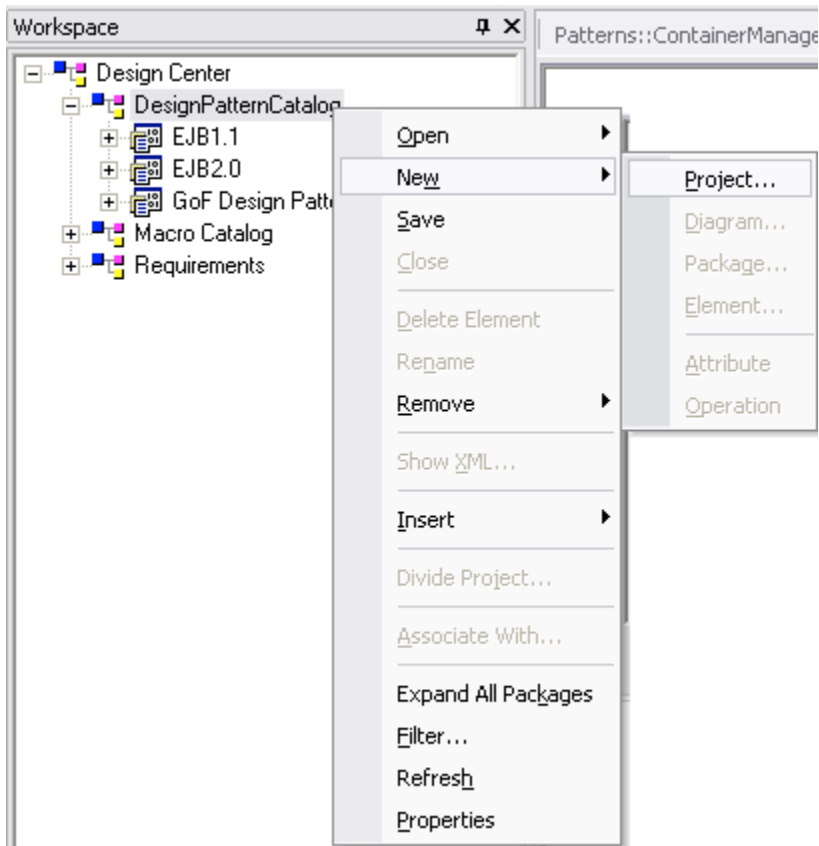


- Create Diagram will specify whether or not the user wants a diagram to be created with the new/modified elements upon application of this pattern.

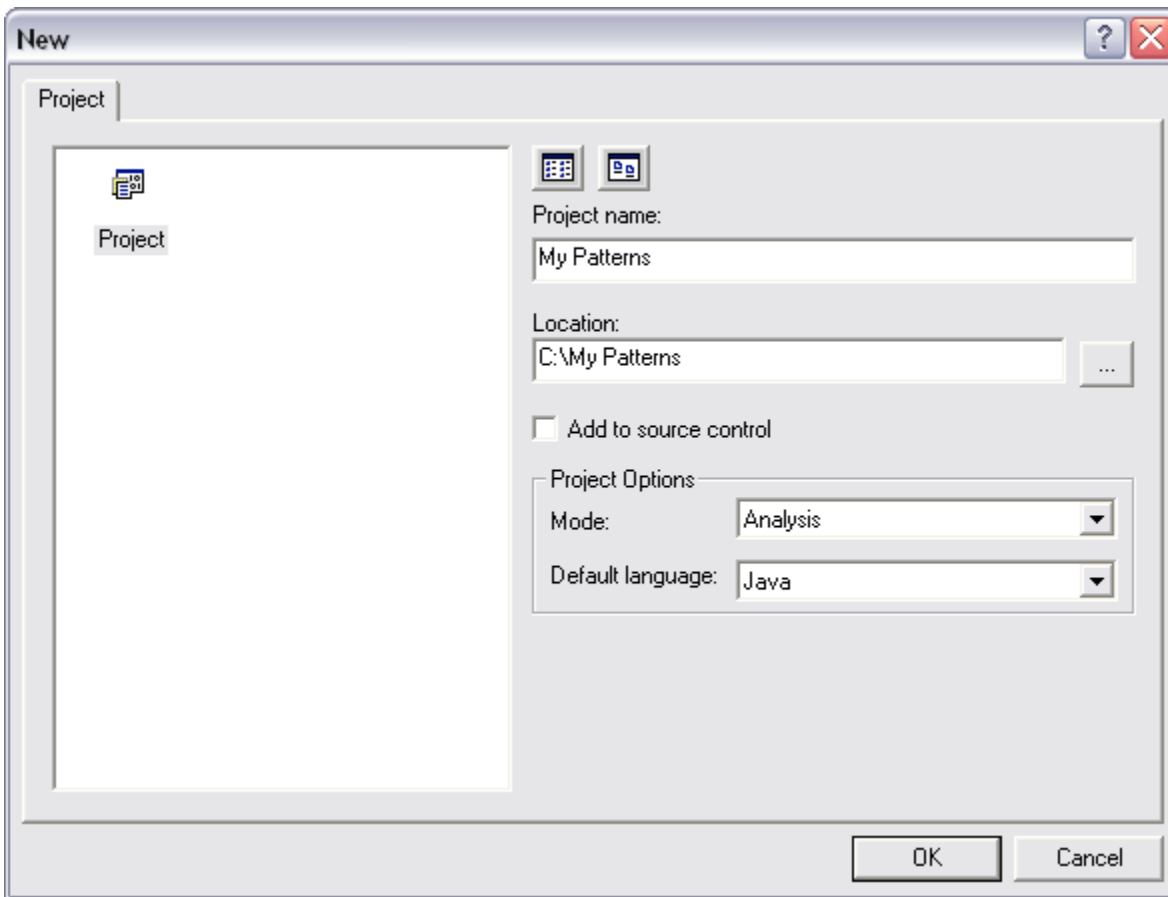




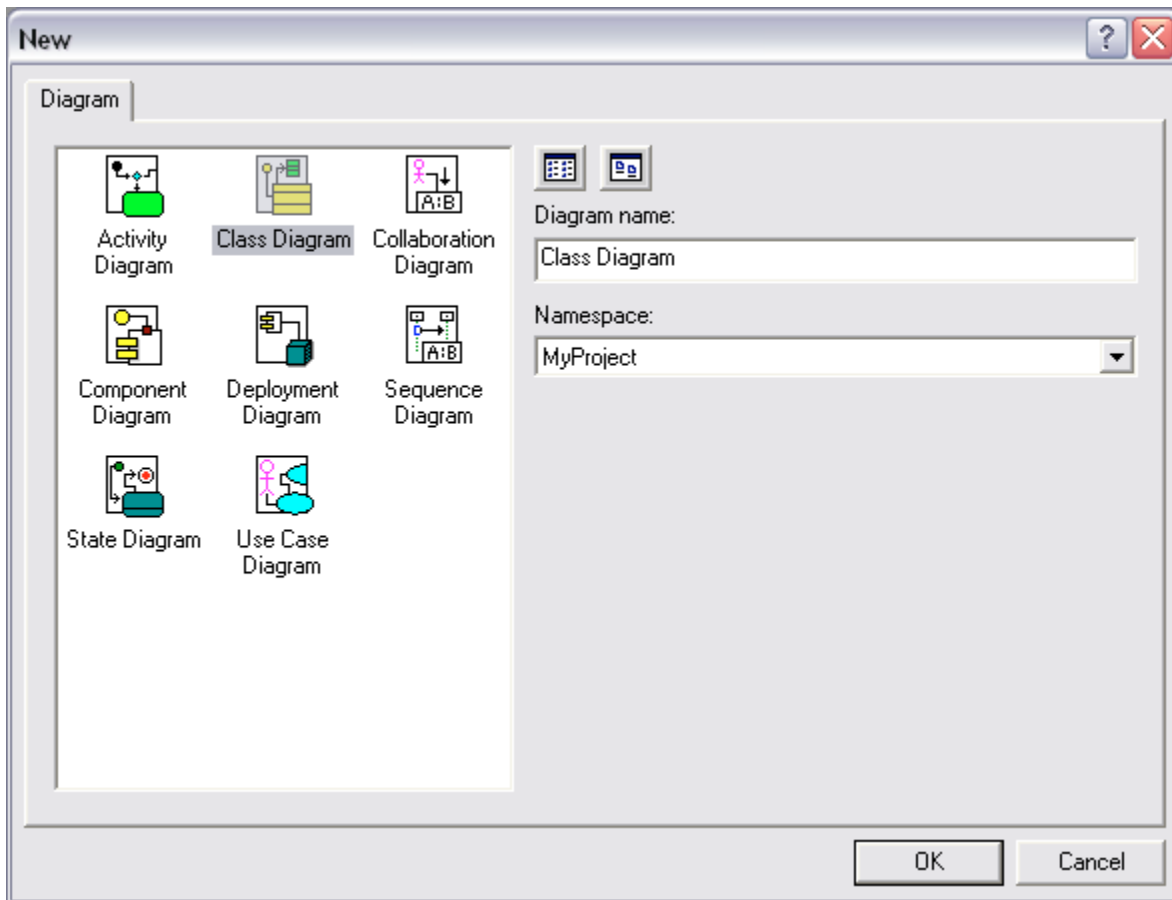
You can create a Pattern on a Class Diagram and promote that Pattern to the Design Center. First you must create a new Project in the Design Center and name it. To do this, right click on the Design Pattern Catalog node and select New | Project.



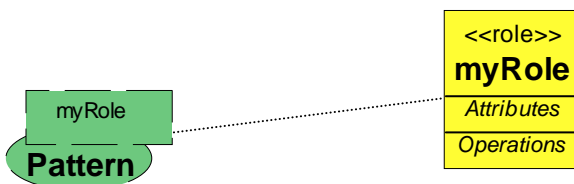
The New Project Dialog will open and you can name the new Pattern Project. Also in this dialog you can establish the Location of where this Project is stored.



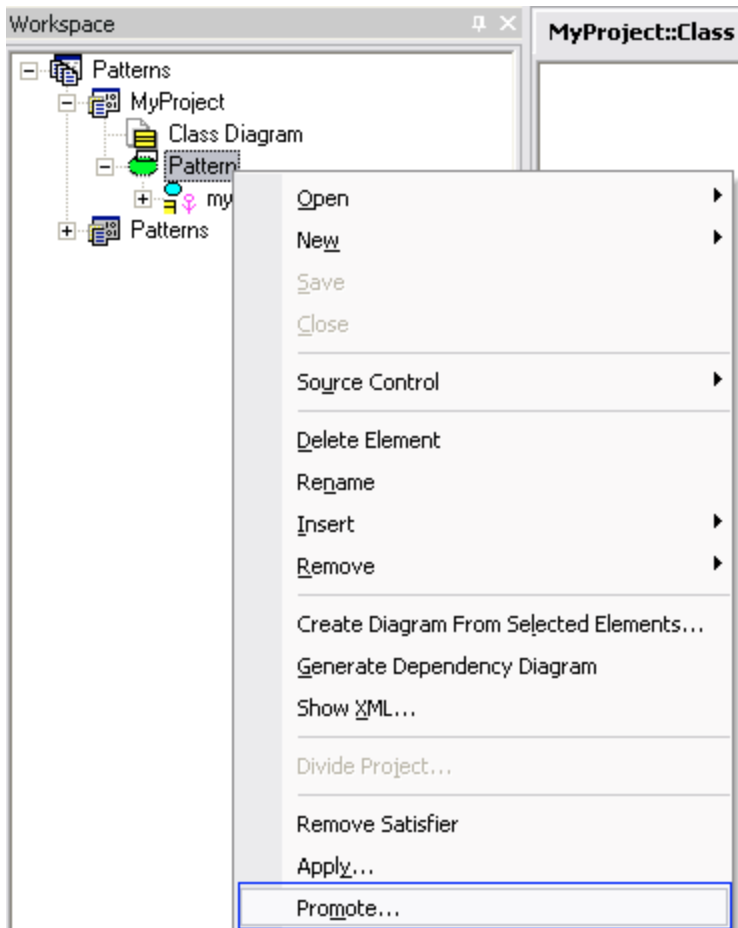
Next create a New Class Diagram.



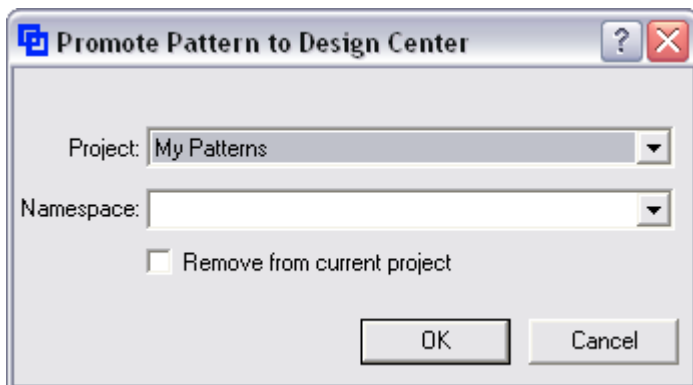
Create the Pattern you want on the class diagram.



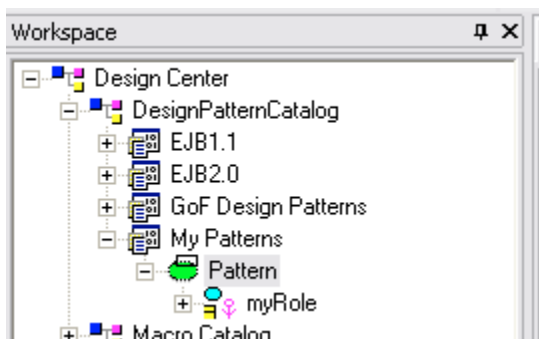
Now that the Pattern is created, you can Promote this to the newly created Project in the Design Center. To Promote a Pattern right click on the Pattern in the Project tree and select Promote.



The Promote Pattern to Design Center dialog will open and you can select the Project you want to promote the Pattern to.

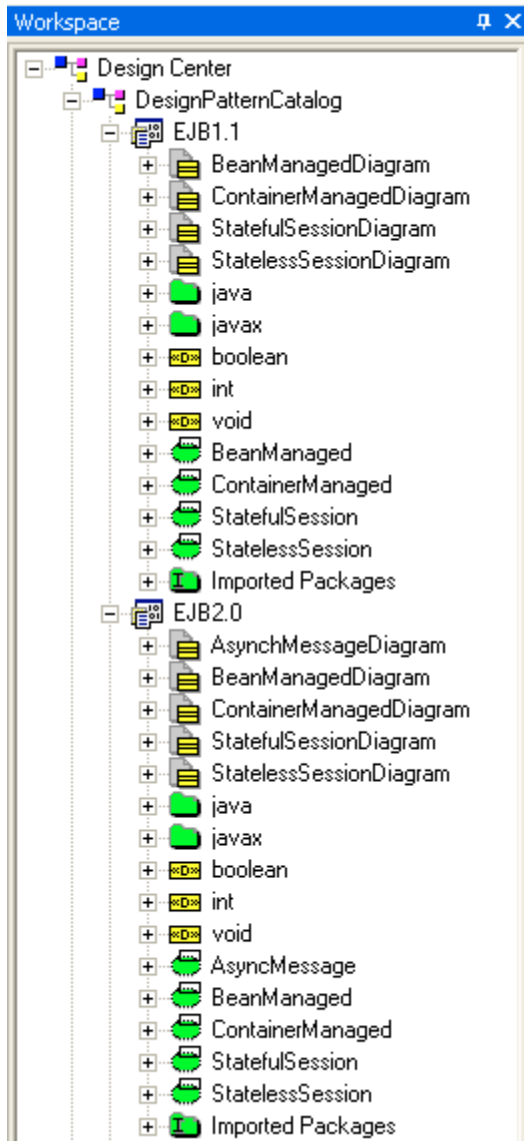


You will now see the newly created Pattern in the Design Center.

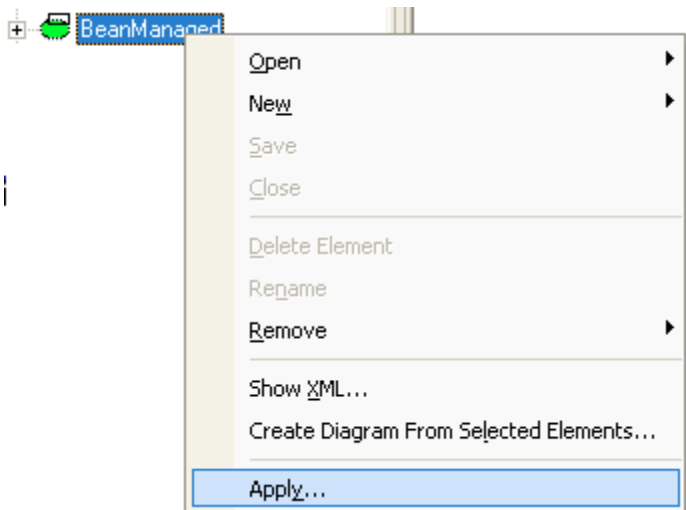


EJB Support

EJB Support will be in the Design Center. The Design Center is the tab next to the Open Projects pane. Describe supports EJB 1.1 & 2.0. The EJB wizard will walk you through creation of each Bean.



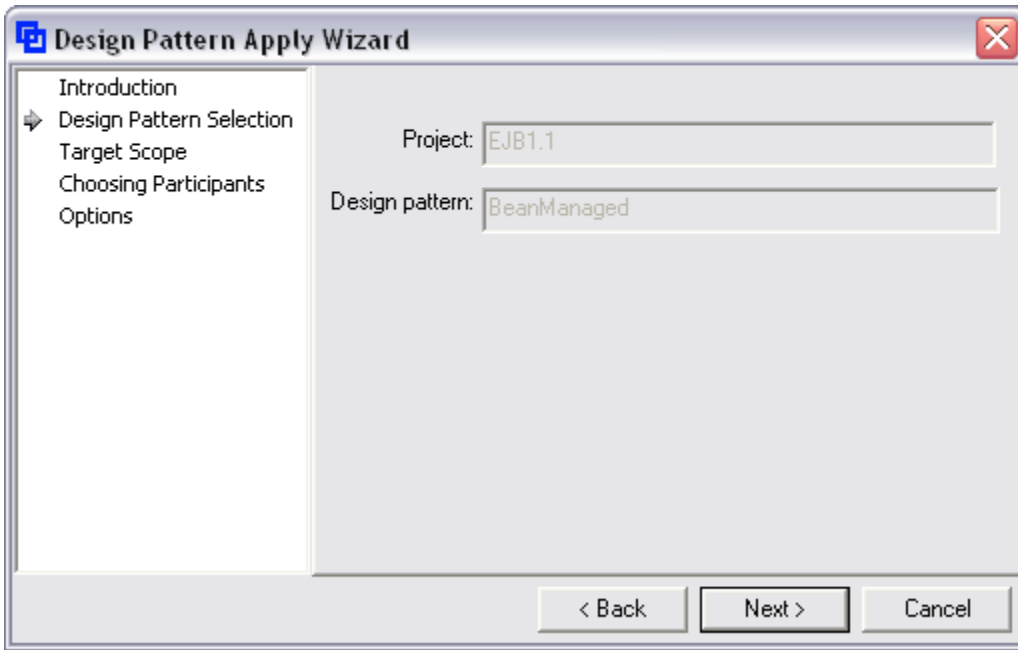
Right click on the Bean that you want to create and select Apply.



The Design Pattern Apply Wizard will walk you through the creation of the Bean.



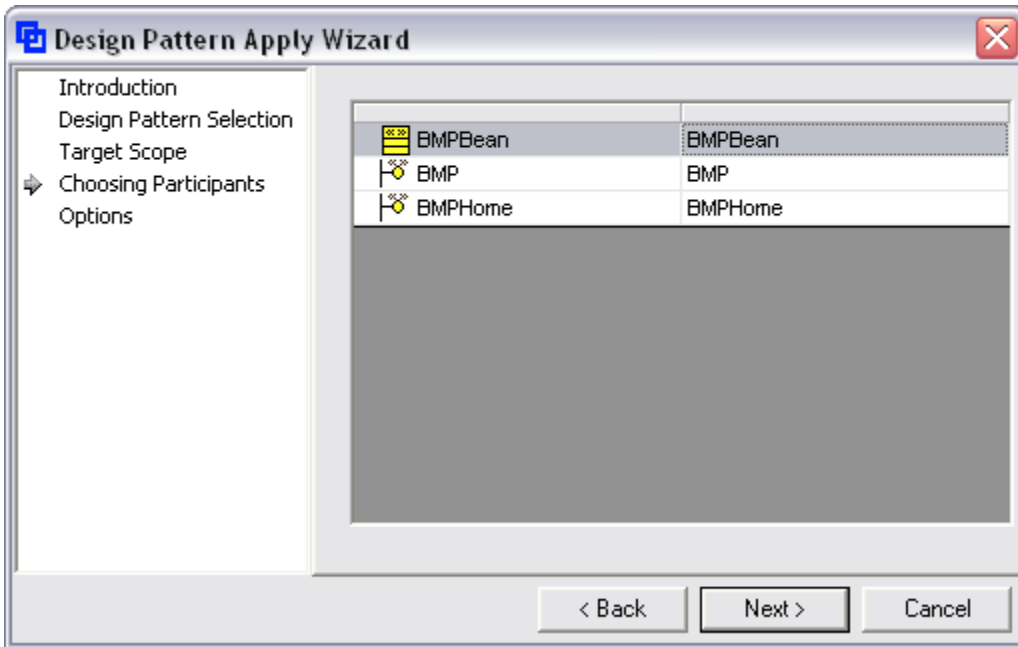
Click next to Design Pattern Selection.



The drop down box will allow you to select which Project you want to create the Bean in.



The Choosing Participants dialog will enable you to name the Bean.



The Options dialog will enable you to either:

1. Create the Bean, and have it only exist in the Project tree you selected.
2. Create a new Class Diagram for the Bean.

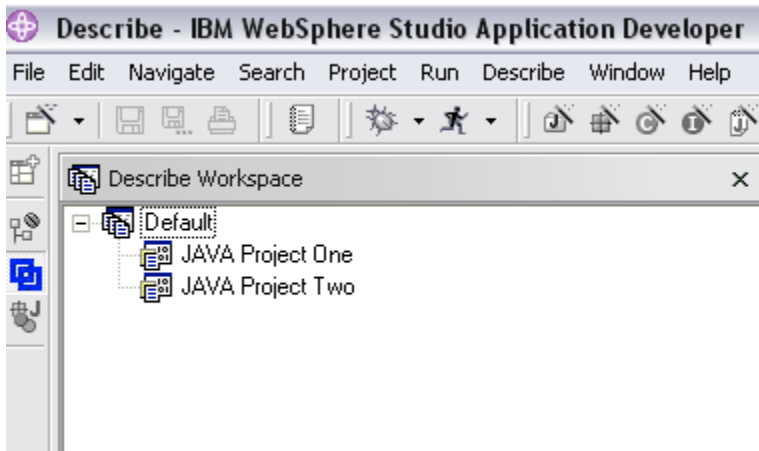


Select Finish and the respective Bean is created.

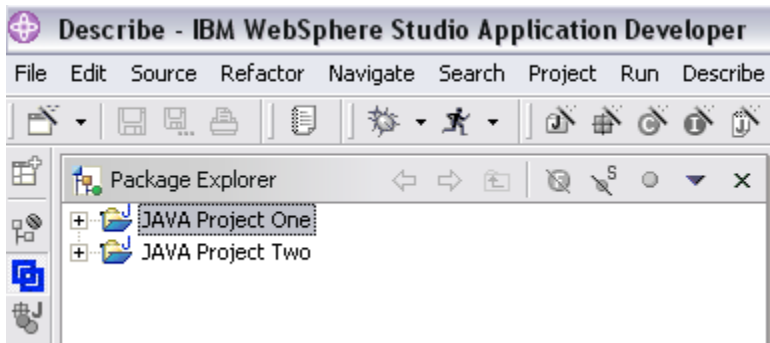
Multi-Project Support in WebSphere 5.0, Eclipse 2.1 & 2.1.1, and JBuilder 7 & 8.

Describe supports the ability to associate multiple WSAD, Eclipse 2.1 & 2.1.1, and JBuilder 7 & 8. Projects with Describe Projects. You can now create and name a new Describe Workspace and have multiple Describe Project in the Workspace view.

Describe Workspace view with two Projects in WSAD for example.



The corresponding Projects in the Package Explorer view.



Each newly Project you create in WSAD for example, Describe will ask you which Workspace you want to store them in and where. This will enable you switch back and forth between Projects without closing the current Project you are working in to open another.





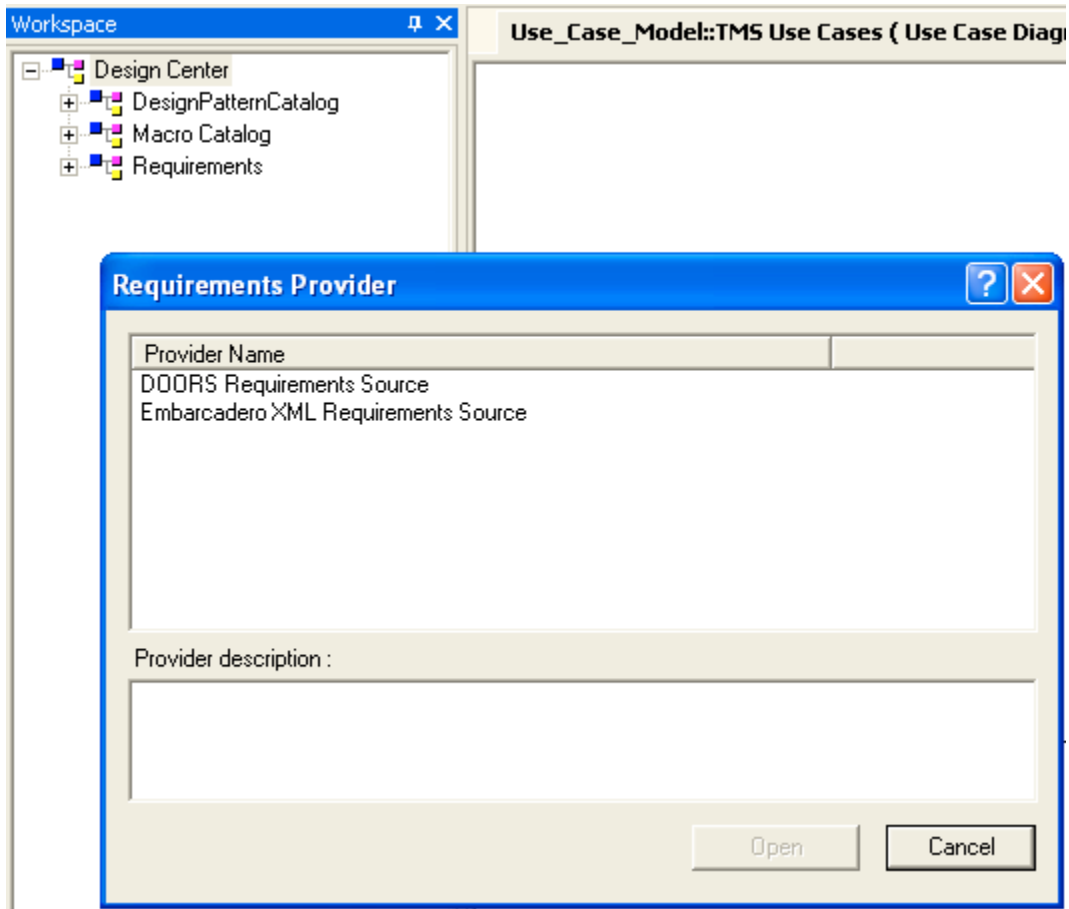
Flat File requirements integration

Describe can import an XML file representing requirements available for drag and drop onto modeling elements. There is a sample file that is located in the Describe installation directory under samples | requirements. It is called Automated Teller Machine.etc.

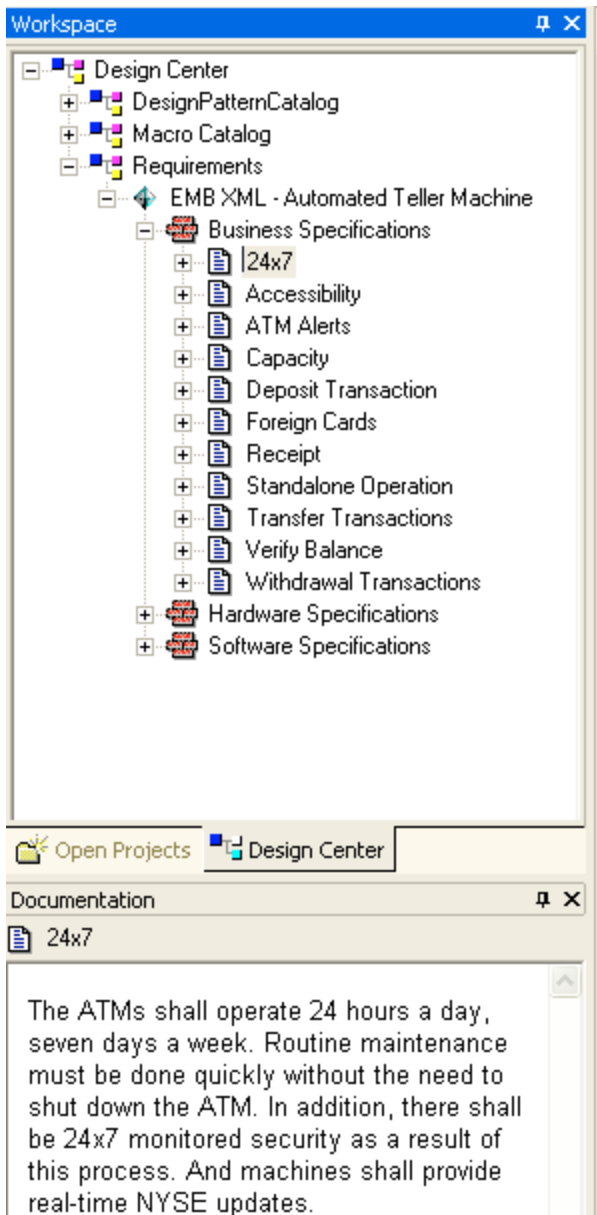
Flat File requirements

The sample requirement file can be found C:\Program Files\Embarcadero\Describe\samples\requirements directory. It is called Automated Teller Machine.etc.

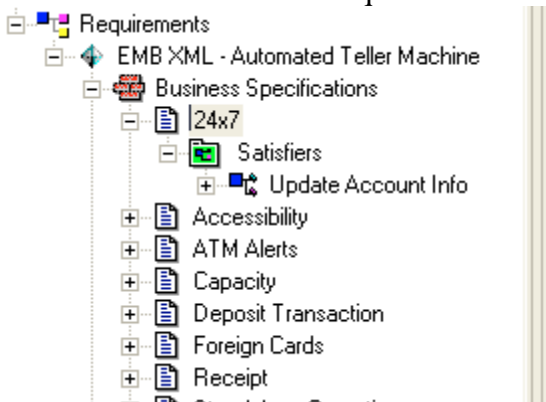
To bring in flat file requirements, select the Requirements node and the Requirements Provide dialog will open. Select Embarcadero XML requirements source and then select Open. This will prompt you to find the requirements dialog you want to associate with a Describe project.



Select the Automated Teller Machine.etreq file and that will now be populated into the Design Center requirements node.



Notice that you can see the description of each requirement in the Documentation pane. These requirements are now available for association to modeling elements. Simple drag and drop them onto elements and you will see a Satisfier node under the requirement that will show the associated element.



In the Open Projects one, you can now select the element that has the corresponding requirement attached and see the requirement.



NOTE: You may have to right click in the Open Projects pane and select the requirements artifact for it to be shown in the tree.

