



## **Evaluation Guide - JBuilder Integration**

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Describe Enterprise functionality is accessible through an Integrated Development Environment (IDE). This version of the application supports the following IDEs:

- Borland JBuilder 9.0
- IBM WebSphere Studio Application Developer 5.0. and Integrated Edition 5.0
- Eclipse Platform 2.1.3 and 3.0.1 (WinXP only)

## Working Within Borland JBuilder

Describe Enterprise offers a seamless, embedded integration within Borland JBuilder Enterprise edition and JBuilder Personal edition to provide a single, integrated modeling and development environment. With superior navigation, wizard-based automation of common tasks, and synchronous, Round Trip engineering, Describe Enterprise turns your UML into a live tool for understanding and manipulating the source base.

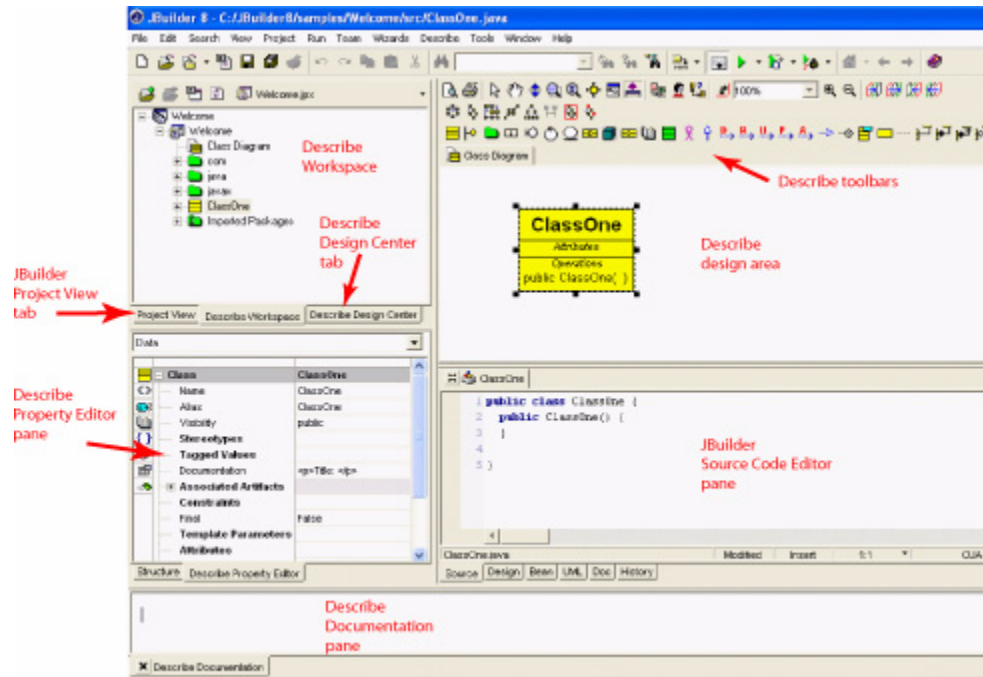
### What Is JBuilder?

JBuilder software is an Integrated Development Environment (IDE) for the Java platform providing a fully modular and easily extensible environment. This environment (called the AppBrowser) consists of several panes and panels for performing the following development functions:

- Editing
- Visual designing
- Navigating
- Browsing
- Compiling
- Debugging.

## Why Integrate with Describe Enterprise?

The JBuilder/Describe Enterprise integration lets Unified Modeling Language tools communicate with Integrated Development Environments. This capability eliminates the need to switch back and forth from design environment to development environment. It also maintains synchronization between design elements and the source code as you design systems. When integrated, the Describe Enterprise environment combines with the JBuilder environment by embedding its modeling functionality within JBuilder, letting you view and manipulate the class model and its underlying code simultaneously.



**TIP:** You can have multiple Projects open simultaneously while working with integrated IDEs. This lets you easily switch back and forth between Projects.

## Opening Describe Enterprise in JBuilder

When you start JBuilder and create a JBuilder project, the application automatically displays selected Describe Enterprise windows, toolbars, and menu options. Upon opening, Describe Enterprise automatically embeds itself in JBuilder if you install JBuilder prior to Describe Enterprise. Once embedded, you can connect and disconnect to Describe Enterprise, as needed.

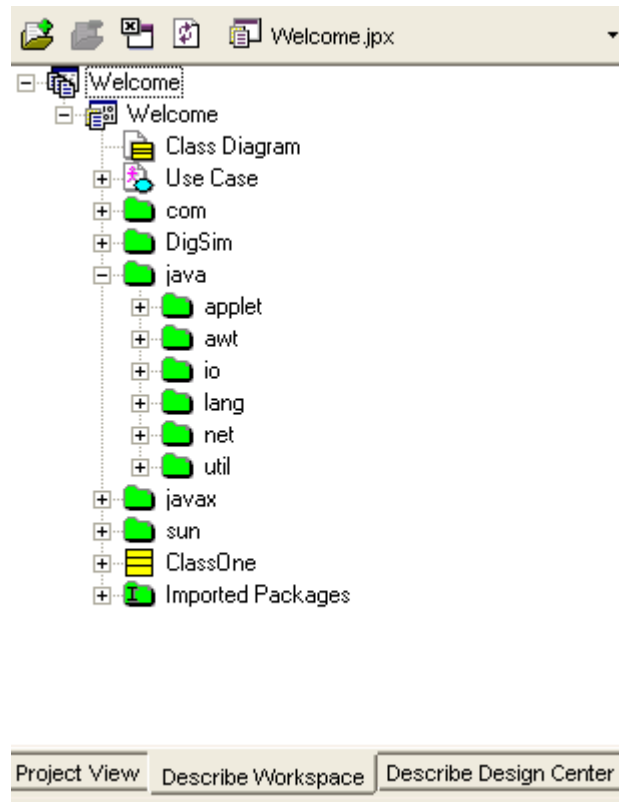
### Opening Describe Enterprise in JBuilder

- On the Windows **Start** button, point to **Programs, Embarcadero Describe 6, JBuilder**.

JBuilder starts, and automatically detects the integration with Describe Enterprise. The application then displays its workspace, along with the embedded Describe Enterprise windows, toolbars, and menu items.



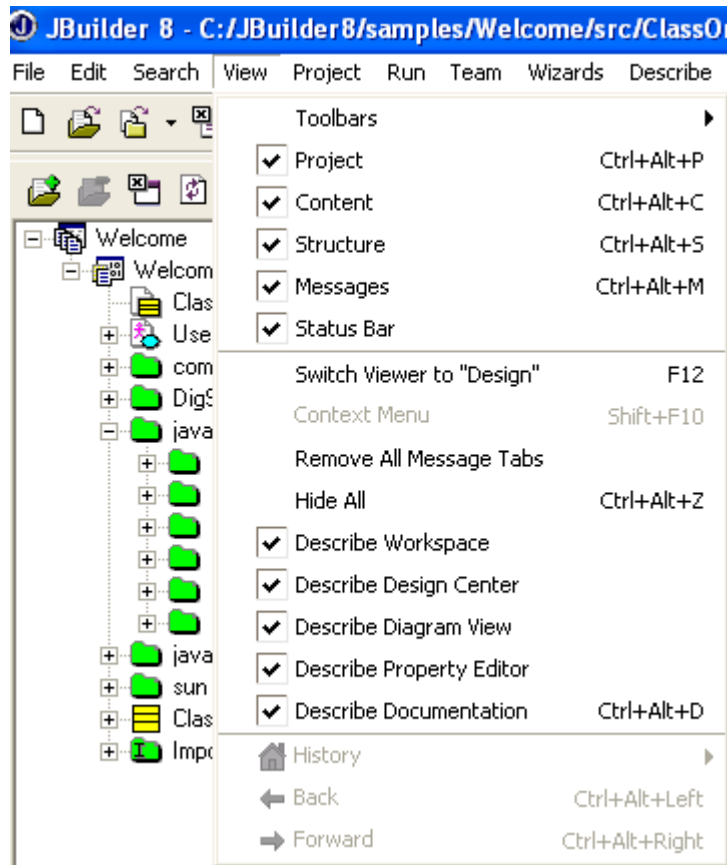
The Explorer (Describe Workspace) pane displays the current Describe System.



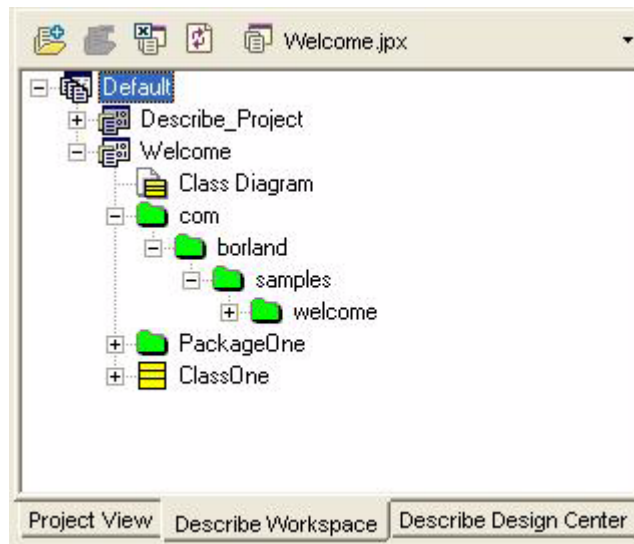
You can access the following Describe functionality from within the IDE:

- Describe Design Center
- Describe Documentation
- Describe Property Editor
- Describe Workspace

The System explorer displays the different tabs at the bottom of the Pane. To work in the Describe Workspace, click the Describe Workspace Tab.



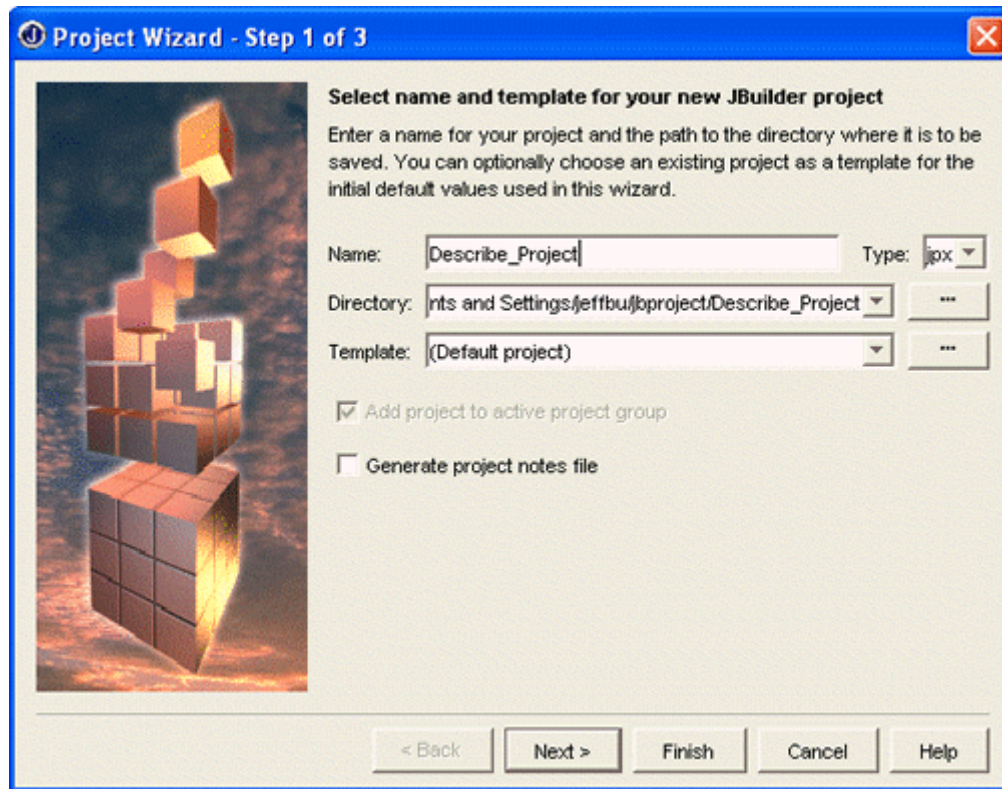
The graphic below is an example of how the diagrams and classes are displayed in the Package pane of JBuilder.



## Create a New Project

- 1 On the **JBuilder File** menu, click **New Project**.

The Project Wizard dialog box opens.



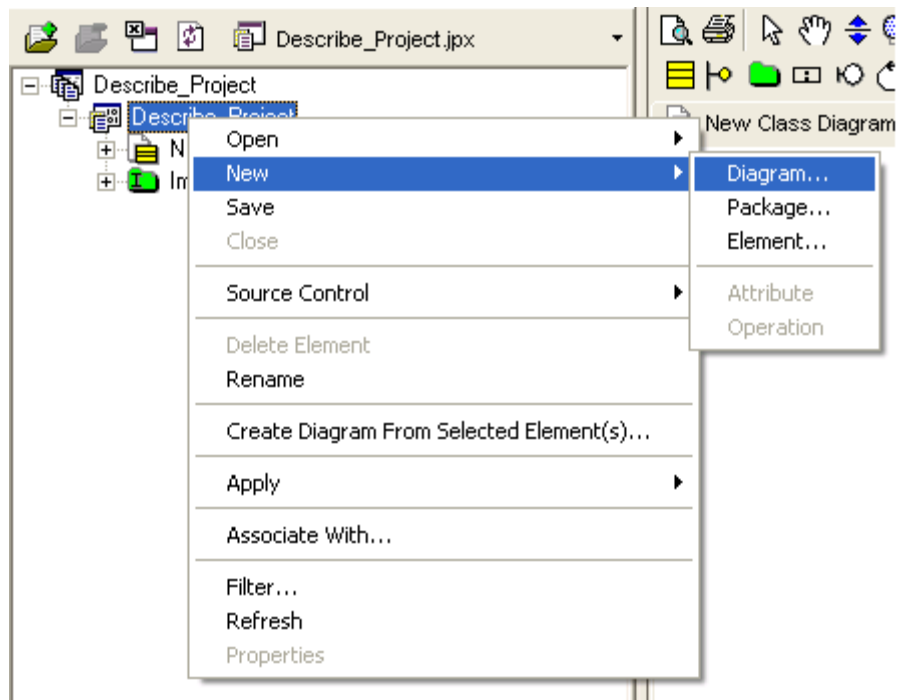
- 2 In the **Name** box, enter the new project name.
- 3 Click **Finish**.

Describe associates a workspace and project with the newly created JBuilder project, and then opens the new diagram dialog box.

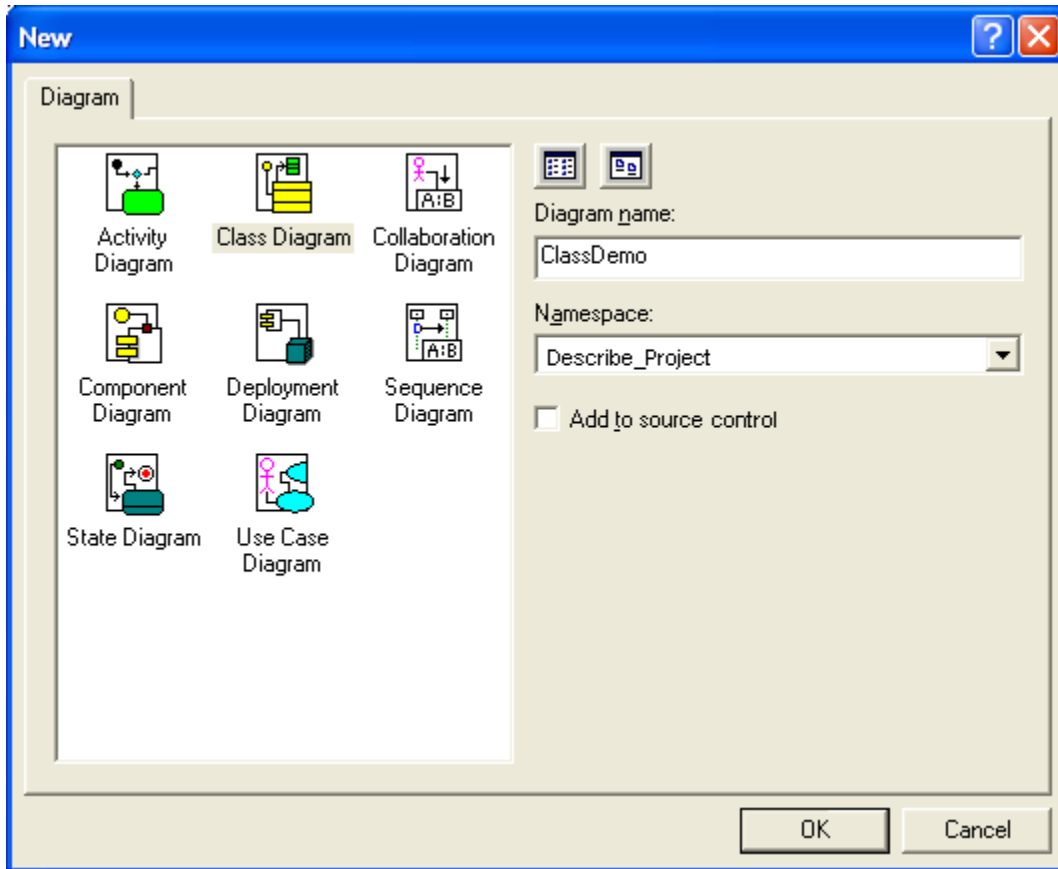
**NOTE:** When you create a project in JBuilder, a corresponding Workspace and Project is created and opened in Describe.

## Create a New Diagram

- 1 In the **Describe Workspace** pane, right-click **Describe\_Project**, and then click **Diagram**.



Describe Enterprise opens the New Diagram Dialog box.




- 2 In the **Diagram Name** box, enter a diagram name.
- 3 Click **OK**.

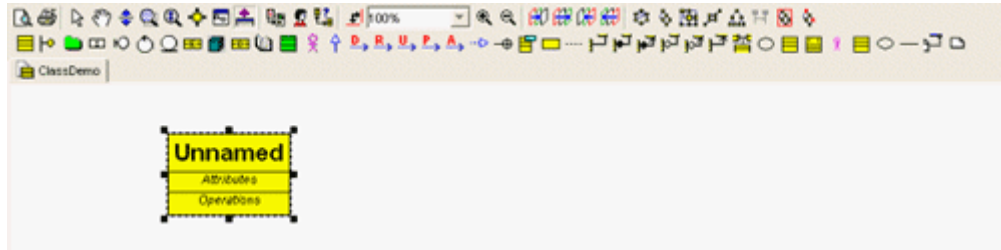
The Diagrams pane opens.

**NOTE:** Once the diagram is created, the navigation icons and the Class Methodology icons are now active in the JBuilder main window.

**NOTE:** When you create a diagram in JBuilder, a corresponding diagram is created and opened in Describe.

## Create a Model Element

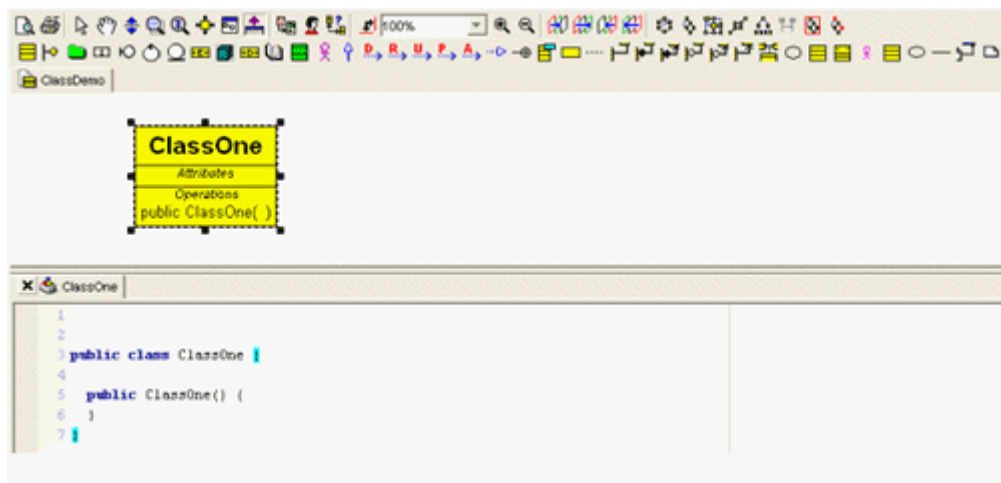
- 1 In the **JBuilder** window, click .
- 2 In the **Diagrams** pane, click once to place the class notation.



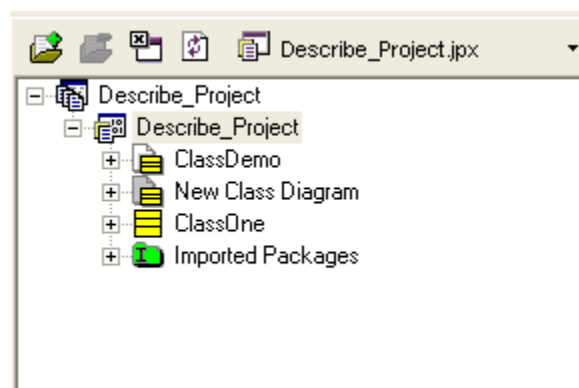
- 3 Label the attribute.

**TIP:** Start typing to automatically name it.

The Source pane opens and you can see the source code.



**NOTE:** The diagram and class you just created also appears in the Describe Workspace pane.



## Creating New Classes in JBuilder

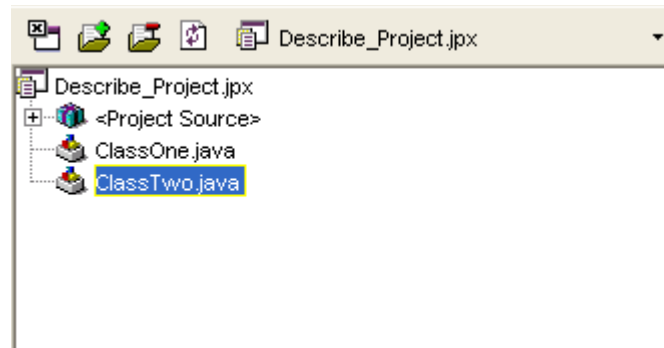
- 1 On the **JBuilder FILE** menu, click **New Class**.

The Class Wizard opens.

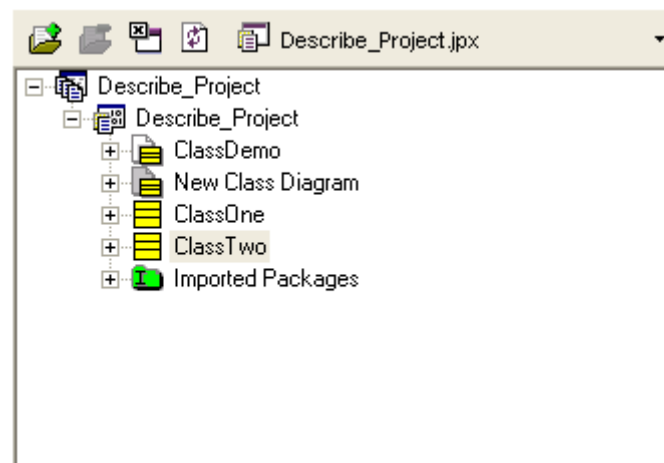
- 2 In the **Name** box, type the class name.
- 3 Click **Finish**.

**NOTE:** Any classes that are created or modified in JBuilder are instantly updated in the JBuilder Pane and the Describe Workspace Tab.

### JBuilder Pane



### Describe Workspace Pane



## Architecture and File Extensions

Describe Enterprise uses specific file extensions for

- Workspaces
- Projects
- Diagrams
- Versioned elements

The file extensions are described below.

## **Workspaces**

File Extension: .etw

Describe Enterprise introduces \*.etw files, represented in the application as unique workspaces used to contain project files. Superficially analogous to Describe Developer 5.8's System Groups, this new unit of file organization has no exact counterpart in previous versions of the application. You can open, close, and save workspaces in the application, but only one workspace can be open at a time.

## **Projects**

File Extension: .etd

Describe Enterprise replaces the old concept of Systems with Projects. These stand-alone \*.etd files are stored in workspaces, and are represented as subnodes of a workspace in the new Describe Workspace pane. Each project may consist of diagrams, artifacts, and other modeling elements. In any workspace, you can open, close, and save projects, as well as insert specific projects from other workspaces. Describe Enterprise lets you open and work with only one project at a time.

## **Diagrams**

File Extension: .etld for layout

This is the topographical data that makes up the diagram in Describe Enterprise's Diagram window. For example: the x and y locations of all objects, the length of links, the location of all diagram elements.

Describe Enterprise saves this information in a binary file with the extension \*.etld.

File Extension: .etld for presentation

This is the cosmetic data that makes up the look of the diagram in Describe Enterprise's Diagram window. For example: the color of all class elements in the diagram, the font used to denote class attributes, and so on.

Describe Enterprise saves this information in an editable XML file with the extension \*.etlp.

## **Versioned Elements**

File Extension: .etx

Describe generates associated versioned files with the extension .etx.

Associated artifact of element that has been versioned.

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