

Generating Code

Demo

- [Code Generation](#)

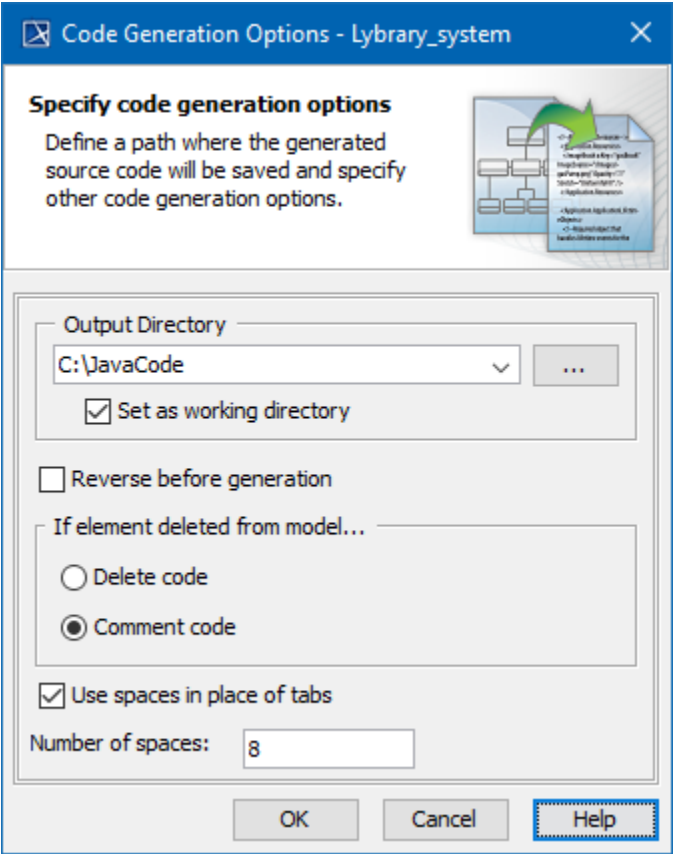
You can generate code for the selected and prepared set as well as directly for model elements.

Code Generation for a Set

Start code generation once the set or sets are prepared. For more details about creating and editing sets, see [Code Engineering Sets](#).

- Choose **Generate** from the **Code Engineering Sets** item shortcut menu. It allows code generating for all created sets.
- Choose **Generate** from the selected set shortcut menu. It allows code generating only for the selected set.


The **Code Generation Options** dialog appears.




Code Generation Options dialog

The **Code Generation Options** dialog allows you to specify the way your code will be generated.

Once you specify generating options for the set, code can be generated.

Box Name	Function
Output Directory	Type the directory where the generated files will be saved.
	The Set Output Directory dialog appears. Select the directory for the generated files.
Set as Working Directory	The output directory is set as a working directory and files are saved to the working directory.

Reverse before generation	<p>Changes your model according to changes in the existing code.</p> <div>  <p>Exercise caution when selecting the Reverse before generation check box. If the model differs from the code, all differences in the model will be discarded. In these cases, you will lose some of your work.</p> </div>
If element deleted from model	<p>To influence the structure of generated code, click one of the following option buttons:</p> <ul style="list-style-type: none"> • Delete code. The representation of deleted entities will be deleted from the code file. • Comment code. Deleted entities will be commented in the code file.
Use spaces in place of tabs	When selected, spaces (instead of tabs) will be written to the code file.
Number of spaces	Specify the number of spaces to be written.
OK	The Notification Window appears, displaying how code files are being generated. The Notification Window informs you about problems and errors (mainly file access and syntax errors) found in the code generation process and generation summary. You are also prompted to confirm that you wish to overwrite the file if the output directory already contains one with the same name.
Cancel	Closes the dialog without saving changes.
Help	Displays MagicDraw Help

Code Generation for a Model Element

All the classes contained in the component will be written into one file. However, code for the class can be generated in a different way. Select the class to generate in the browser Data package and click Generate in the class shortcut menu. For packages and components, you can also select **Generate**, but you will not be able to specify the generation options. All the options related to that task will be set according to the default values.

If you choose framework generation for a single class or for packages, the **Code Generation Options** dialog does not appear. The code is generated according to the default values.

If no errors occurred, you can view the results with your favorite file viewer or programming environment. Look for the files in the directory you specified as your **Working directory** in the [Round Trip Set dialog](#) or in the [Project Options dialog](#). Additional sub-directories could be created.

Related Pages:

- [Code Engineering Sets](#)
- [Generating Code](#)
- [Reverse Options](#)
- [Global options for Code Engineering](#)
- [Files of Properties](#)
- [Java Code Engineering](#)
- [C++ Code Engineering](#)
- [CORBA IDL Mapping To UML](#)