Sequence Diagram from Java Source Wizard

⚠ This feature is available only in the Enterprise edition.

The **Sequence Diagram from Java Source Wizard** allows for visualizing Java method implementation within UML [Sequence diagrams](). At this time, the UML [Sequence diagram]() cannot show Java code with 100% accuracy; however, MagicDraw provides a mechanism for generating a diagram that reflects the essence of Java method content.
If you want to create a [sequence diagram]() from the Java source, you must first [reverse]() the Java source code to a model.

You can also create a model corresponding to your Java code structure manually.

🚫 Ensure the model you use to create a sequence diagram fully corresponds the Java source code you want to represent in the diagram.

One [sequence diagram]() can represent one method in a Java code. Classes are represented as lifelines, and method calls are represented as messages in the diagram. The [sequence diagram]() can also be used to visualize dependencies for all classes used in this method.

To create a sequence diagram using the **Sequence Diagram from Java Source Wizard**

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1. Open the **Sequence Diagram from Java Source Wizard** by doing one of the following:
     * On the **Diagrams** menu, select **Diagram Wizards** > **Sequence Diagram from Java Source Wizard**.
     * From the **Analyze** menu, select **Model Visualizer**. In the open Model Visualizer dialog, select to open the **Sequence Diagram from Java Source Wizard** and click **Start**.
     * In the Code Engineering Set, select an operation of the class and from the shortcut menu, select **Reverse Implementation**.
2. Follow the steps as directed by the wizard.

What you should know when selecting classes for the diagram:

* **Analyze and split long expressions in the diagram**: Select to display every call as a separate call message with a temporary variable initialization, if the expression containing calls cannot be displayed as a call message. In the final expression message, these calls are replaced with appropriate temporary variable names.
* **Create reply message**: Select to display the return message for every call message.
* **Wrap message text**: Select to wrap message text in the diagram. In the **Maximum wrapped messages name length (in pixels)** box, specify the maximum message text length in pixels.

Related Pages:

* [Extending sequence diagrams]()

* [Method Implementation Reverse]()
* [Sequence diagram]()
* [Code Engineering]()