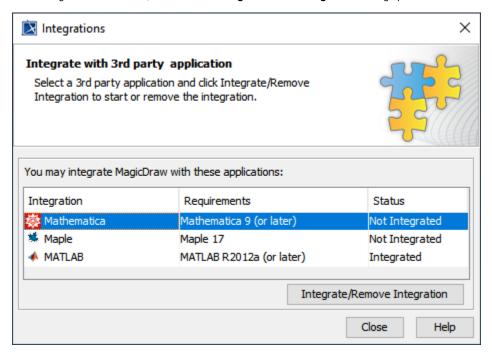
## **Integration with Mathematica**

Cameo Simulation Toolkit supports Mathematica®, a Mathematical computation engine, to analyze and solve Mathematica®l expressions. Once you have installed Mathematica®, you can specify it as the language of opaque expressions.

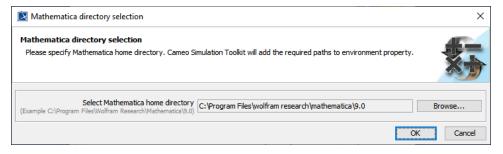
First, you must install Mathematica® on your local machine, and then set up your system to allow Cameo Simulation Toolkit to use the installed Mathematica®.

To use Mathematica® on a 32-bit or 64-bit version of Microsoft Windows and Linux

1. On the MagicDraw main menu, select **Tools** > **Integrations**. The **Integrations** dialog opens.



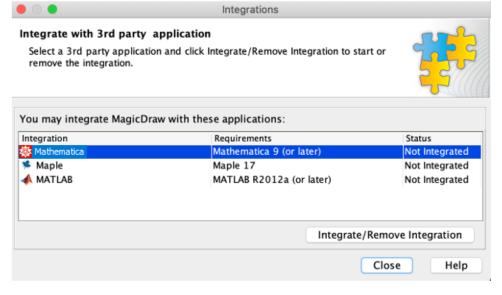
2. From the list, select Mathematica and click Integrate/Remove Integration. The Mathematica directory selection dialog opens.



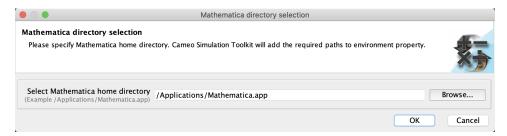
- 3. Browse for the home directory of Mathematica®.
- 4. Click **OK** and restart MagicDraw.

To use Mathematica® on Mac OSX

1. From the main menu, click **Tools** > **Integrations**. The **Integrations** dialog opens.



2. From the list, select Mathematica and click Integrate/Remove Integration. The Mathematica directory selection dialog opens.



- 3. Specify the directory where you have installed Mathematica  ${\bf @M.}$
- 4. Restart the modeling tool.

## Information

(Only for integration with Mathematica Version 12.3) After completing the steps above using the Integration dialog, you must change JAVA\_H OME to JDK 11 by following the steps below:

- 1. Download JDK 11 (11.0.12 recommended) according to your operating system from https://www.oracle.com/java/technologies /downloads/#java11. Alternatively, you can use the bundled java from Mathematica 12.3 (JDK 11.0.10) in the [Mathematica installation dir]\SystemFiles\Java\Windows-x86-64 directory.
- 2. Open the property file of the modeling tool, [Modeling Tool dir]/bin/[Modeling Tool].properties, with a text editor, e.g., magicdraw. properties.
- 3. Change JAVA\_HOME to the JDK 11 directory and save the file, for example:

JAVA\_HOME=C\:\\Program Files\\AdoptOpenJDK\\jdk-11.0.12

4. Restart the modeling tool.