Integration with MATLAB

You can use MATLAB Version **R2012a** or later to evaluate expressions written in MATLAB syntax in Simulation Toolkit. You must install MATLAB and set up your modeling tools to call and use it.
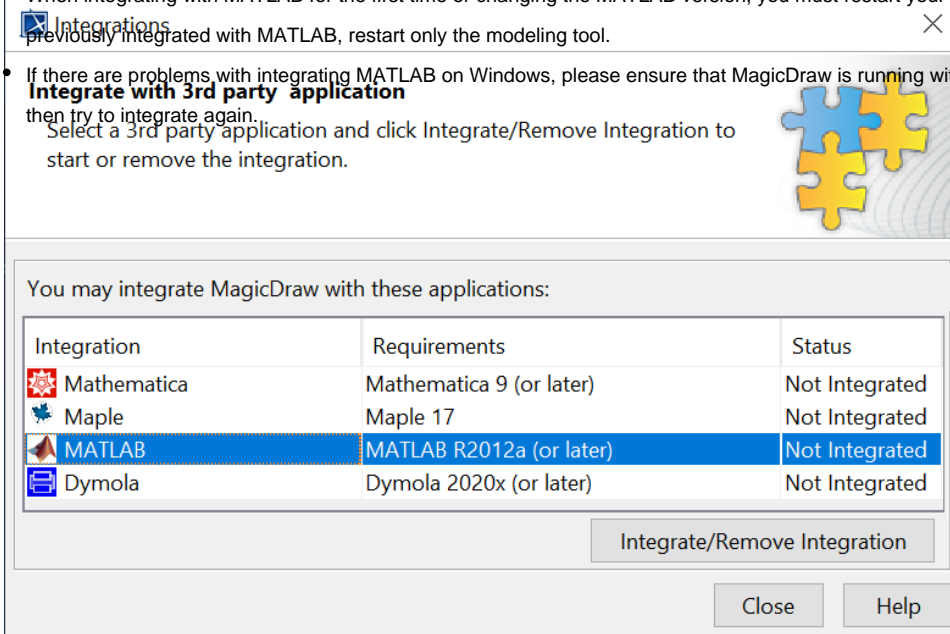
> ⚠️ **Note**
>
> - For successful integration, you must use either the 64-bit or 32-bit version of MATLAB to align it with the 64-bit or 32-bit version of modeling tools, e.g., MagicDraw or Cameo Systems Modeler.
>
> - To enable the **Integrations** menu, you must change the perspective to **Full Featured**, **System Engineer**, or **Software Architect** (from the main menu, select **Options** > **Perspectives** > **Perspectives**, select **Full Featured**, **System Engineer**, or **Software Architect**, and click **Apply**

To integrate a modeling tool with MATLAB (on Microsoft Windows and Mac OS X)
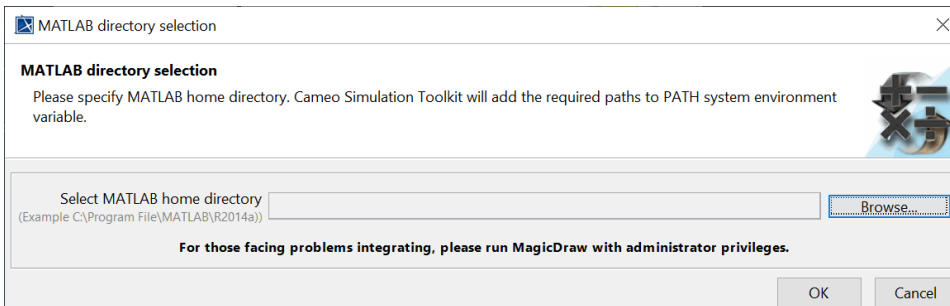
1. From the main menu, click **Tools** > **Integrations**. The **Integrations** dialog opens.

   - When integrating with MATLAB for the first time or changing the MATLAB version, you must restart your system. If the system has been previously integrated with MATLAB, restart only the modeling tool.

   - If there are problems with integrating MATLAB on Windows, please ensure that MagicDraw is running with the administrator's privileges, and then try to integrate again.

2. Select **MATLAB** and click **Integrate/Remove Integration**. The **MATLAB directory selection** dialog opens.

3. Click **Browse** to specify the MATLAB home directory, e.g., *C:\Program Files\MATLAB\R2019b*.
4. Click **OK** and restart your system or the modeling tool.

> ⚠️ **Note**
>
> You can manually verify the MATLAB integration process, e.g., setting the path of system variables in the Environment Variables to the correct MATLAB path of each operating system, through the following links:
>
> - Using MATLAB on Microsoft Windows
> - Using MATLAB on Mac OS 10.6 (Snow Leopard)
> - Using MATLAB on 32-bit and 64-bit Linux

Related pages

- Integration with external Evaluators
- Using MATLAB on Microsoft Windows
- Using MATLAB on Mac OS 10.6 (Snow Leopard)
- Using MATLAB on 32-bit and 64-bit Linux
- Connecting to a running MATLAB session
- Simulink co-simulation