

# Adding a Macro and editing Macro information

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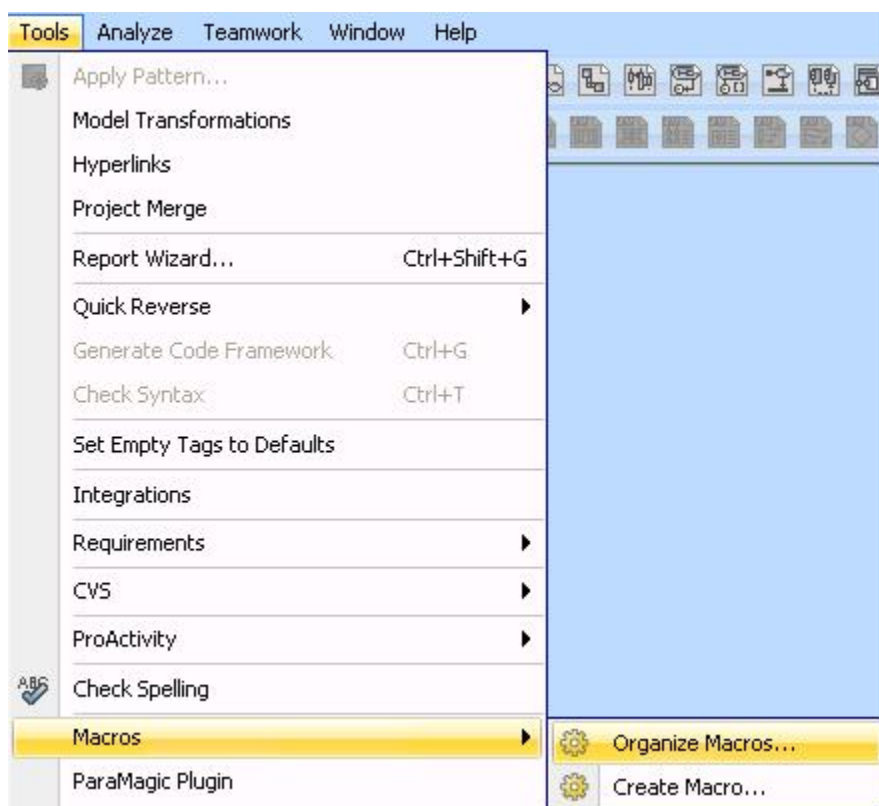
You can add a new macro and enter all necessary information about it by following the steps described in [Opening Macro Information Dialog](#) and [Adding a Macro and Its Information](#) below.

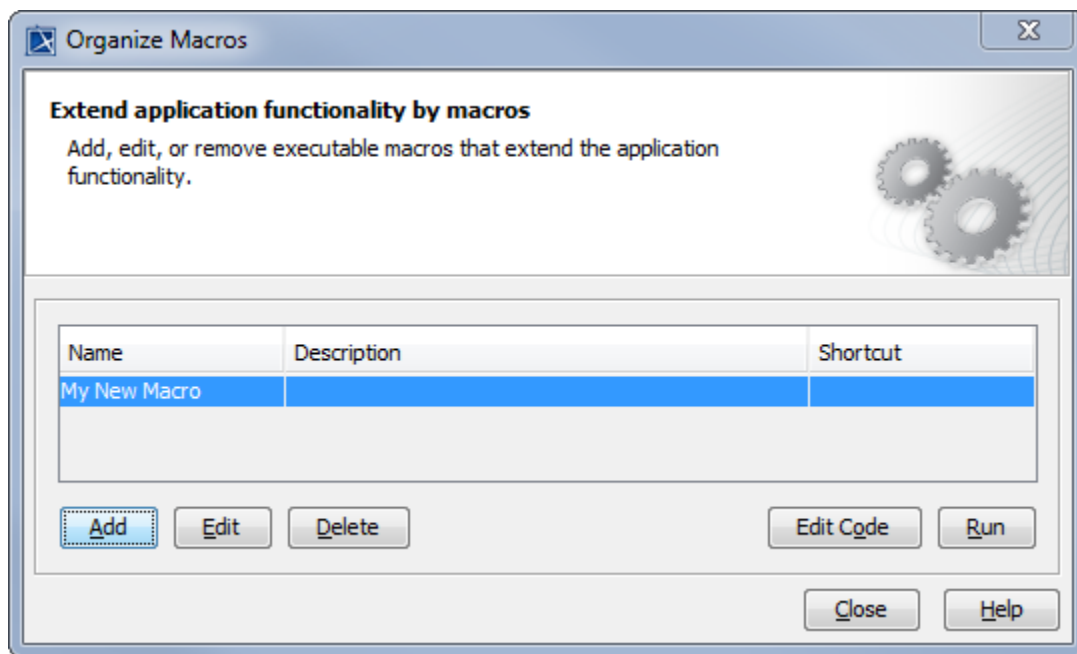
## Opening Macro Information Dialog

You can add or modify macro information such as the macro name and description, in the **Macro Information** dialog. To open the **Macro Information** dialog, you need to open the **Organize Macros** dialog first.

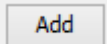
To open the **Organize Macros** dialog

- Click **Tools > Macros > Organize Macros** on the main menu. The **Organize Macros** dialog will open, see figures below.


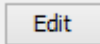




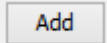
To open the **Macro Information** dialog





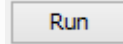
1. Click **Tools > Macros > Organize Macros** on the main menu to open the **Organize Macros** dialog, see above figure.
2. Click . The **Macro Information** dialog will open.

## Adding a Macro and Its Information

Use the  or  button in the **Organize Macros** dialog to add or edit a macro and its information in the **Macro Information** dialog. You can also press the mnemonic keys to add or edit a macro, see [Macro Information Dialog Mnemonic Keys](#).

To add a macro and enter macro information in the **Macro Information** dialog

1. Open the **Organize Macros** dialog (click **Tools > Macros > Organize Macros** on the main menu).
2. Click . The **Macro Information** dialog will open, see figure below.

 The , , , and  buttons in the **Organize Macros** dialog will be disabled if there is no macro in the macro table or if you do not select any macro from the table.

**Macro Information**

Name:\* My Macro

Macro Language:\* JavaScript

File:\* d:\macro-file.js ...

☐ Use path variables

☐ Add macro to model

Description:

Arguments

☐ Automatically run with default values

Name	Type	Array	Null	Default Value

Add Delete


Shortcuts

Current keys:

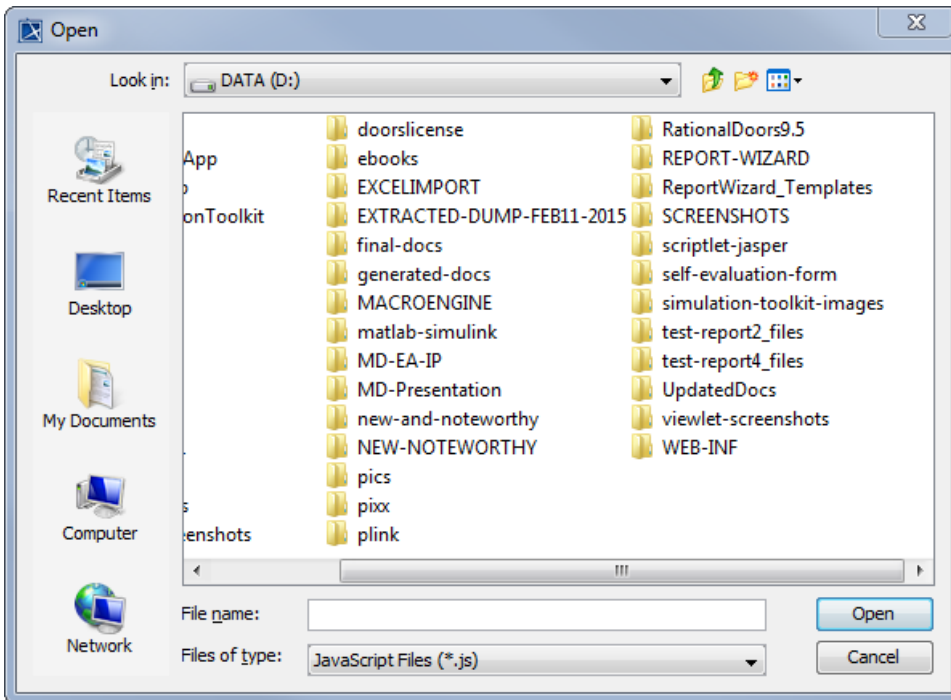
Assign Remove Remove All

Press new shortcut key:

OK Cancel Help

3. Type the macro name in the **Name** box.
4. The default macro language you have previously selected (see [Selecting a Default Macro Language](#)) will appear in the **Macro Language** box.
5. Click the  button, to locate a macro file. The **Open file** dialog will open, see figure below.

6. Select the file and its type (there are 5 types of file filter: \*.bsh, \*.groovy, \*.rb, \*.js, or \*.py), see figure below.



7. Click **Open**, see figure above. The selected pathname will appear in the **File** box in the **Macro Information** dialog, see figure below.



**Macro Information**

Name:\* My Macro

Macro Language:\* JavaScript

File:\* d:\macro-file.js

☐ Use path variables

☐ Add macro to model

Description:

Arguments

☐ Automatically run with default values

Name	Type	Array	Null	Default Value

Add Delete

Shortcuts

Current keys:

Assign Remove Remove All

Press new shortcut key:

OK Cancel Help

8. Select either (i) the **Use path variables** check box or (ii) the **Add macro to model** check box.

- If you have specified the file or network path in the **Environment Options** dialog by clicking **Options > Environment > Path Variables**

9. Type the macro description in the **Description** box, see figure above.
- the file path name. This field is the [Required] field, for example, <my path>/<macro name> is

! Macro name must be unique and cannot be duplicated.

- If you select the **Add macro to model** check box, your source code will be imported from the file to the model. The location to
10. The function of the **Automatically run with default values** check box is to allow you to run the default values automatically. If you select the check box, the system will not open a dialog to prompt you to input the value.
- You can open the **Macro Information** by using Ctrl+Alt+m as a shortcut key.

! If you select the **Automatically run with default values** check box, you need to enter the valid default value of each parameter.

11. Click **Add** to specify the arguments of the macro. The arguments specified in the **Arguments** table will be the global variables of a specific macro.

- **Name** column contains the name of a parameter
- **Type** column contains the type of a parameter
- **Array** check box is to identify if an array is the parameter
- **Null** check box is to identify if null is the parameter value
- **Default Value** column contains an initial value to run the macro

- A parameter type can be a String, Integer, Long, Double, Date, or ElementPath.
- If the **Null** check box is selected, you cannot enter the default value of that particular parameter.

12. Type a keyboard shortcut that will be used to run the macro in the **Default Value** column does not necessarily mean a null value, for example an empty string value is an empty string. Press new shortcut key:  box and click **Assign**. The newly assigned keyboard shortcut will appear in the **Current keys** box.
13. Click **OK**. The **Organize Macros** dialog will open, showing the newly added macro name, description, and keyboard shortcut. If you input an invalid default value or you do not enter the argument name, the system will display the following error message when you run the script: **The following argument(s) are invalid: <List of the invalid argument>.**

- Macro names, filenames, and languages are required.
- Macro description and keyboard shortcuts are optional.

14. Click **Close** if any of the required fields are not entered or duplicate macro name is entered, the following message will open: **The following field(s) are invalid: <List of the problems>.**

## Editing Macro Info

- ☒ Automatically run with default values

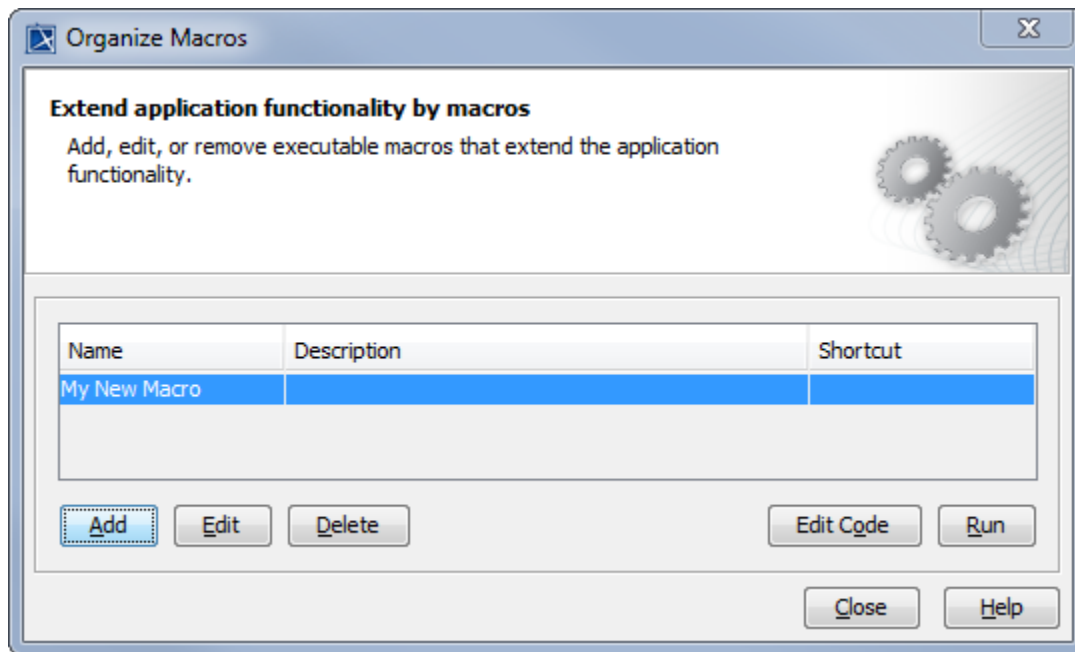
If the ☒ check box is selected and at least one value is empty or not valid, then the following error message will open: **The following value(s) are invalid: <List of the invalid value>.**

You can see macro information such as names and descriptions, as well as the macro keyboard shortcuts in the **Organize Macros** dialog.

- ☒ Automatically run with default values

If the ☒ check box is selected, all variables must have valid values or are set to null. To edit macro information

1. Click **Tools > Macros > Organize Macros**. The **Organize Macros** dialog will open, see figure below.


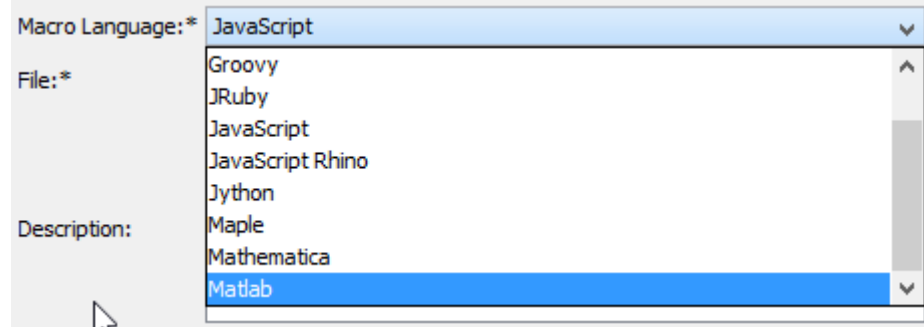


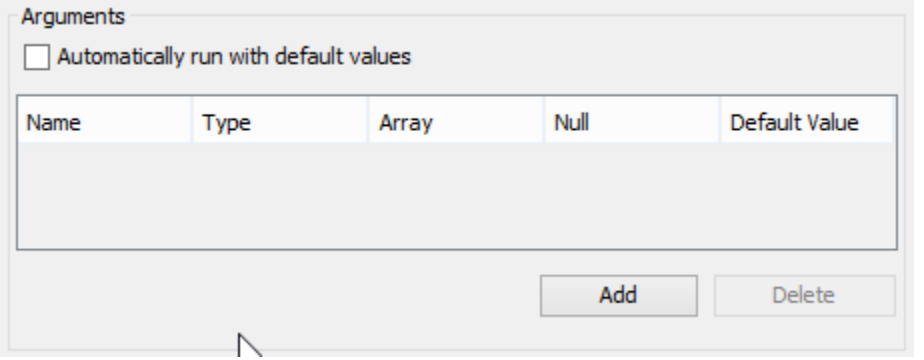
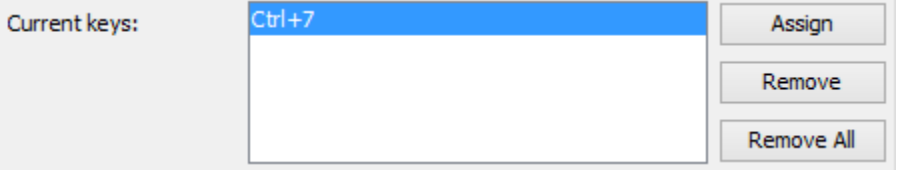
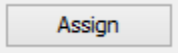
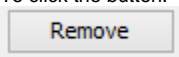


2. Select a macro from the table and either click **Edit** or press **Alt + E**. The **Macro Information** dialog will open.
3. Edit the macro information.
4. Click **OK** to save it. You will see the altered information in the **Organize Macros** dialog.

5. Click **Close**.

## Macro Information Dialog Mnemonic Keys

Macro Engine provides mnemonic keys for you to perform some operations, for example, highlight a textbox and click a specific button in the **Macro Information** dialog. The table below lists the **Macro Information** dialog mnemonic keys and their function. Below is a table listing of Macro Information Dialog Mnemonic Keys.

Mnemonic keys	Function
Alt + N	To place the pointer in the box. 
Alt + M	To highlight the box. 
Alt + F	To place the pointer in the box. 
Alt + .	To open the <b>File</b> dialog.
Alt + D	To place the pointer in the box. 
Alt + A	To add an argument in the <b>Arguments</b> box. 
Alt + I	To delete an argument in the <b>Arguments</b> area.
Alt + U	To highlight the <b>Current keys</b> box. 
Alt + G	To click the button. 
Alt + R	To click the button. 

Alt + E	<div>To click the button.</div> <div><div>Remove All</div></div>
Alt + P	<div>To place the pointer in the box.</div> <div><div>Press new shortcut key:</div><div></div></div>
Alt + O	<div>To click the button.</div> <div><div>OK</div></div>
Alt + C	<div>To click the button.</div> <div><div>Cancel</div></div>
Alt + H	<div>To click the button.</div> <div><div>Help</div></div>