



Question:

How to integrate the EHOOKS DEV Simulink® Integration Package into Simulink®

The EHOOKS-DEV Simulink® Integration Package provides the EHOOKS Blockset for Simulink®. The package works in combination with EHOOKS-DEV to enable simple integration of Simulink® models with EHOOKS for on-target bypass (OTB).

This article refers to a combination of:

- MATLAB® / Simulink® Releases R2015a – R2020b
- EHOOKS-DEV Front-End V4.10.x

Tip: Details of the installed versions of EHOOKS packages can be found from the [EHOOKS-DEV Help menu](#). [About EHOOKS-DEV](#) launches the About dialog in which all of the installed EHOOKS packages are listed.



Answer:

There are two ways to achieve the integration

Working with a shortcut within the EHOOKS-Dev Front-End

The shortcut can be found in EHOOKS-Dev Front End in the [Simulink®](#) menu, all compatible installed versions of Matlab® will be visible. For each version you have the option to [Open](#) or [Create shortcut on desktop](#). See Figure 1

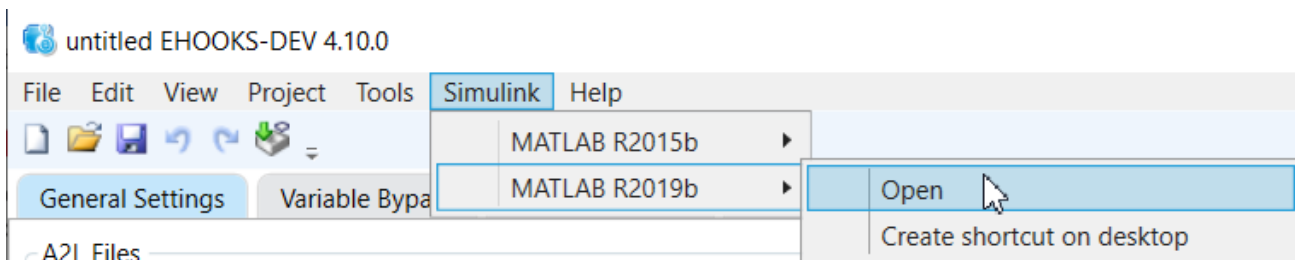


Figure 1: Using the "Simulink Shortcut"-Option

- [Open](#) launches that version of Matlab® with the environment prepared for use with EHOOKS.
- [Create shortcut on desktop](#) adds the same shortcut to the desktop, so Matlab® can be launched with the environment prepared for use with EHOOKS without launching EHOOKS Front End.

Both options make the EHOOKS Blockset in Simulink® available temporarily. After closing Matlab® and opening it directly again you will not have the EHOOKS blockset available.

Manually adding the EHOOKS blockset

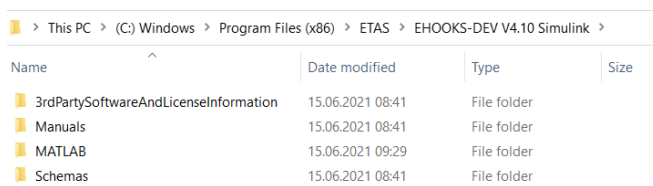
To enable EHOOKS to be used from within Simulink® without using one of the EHOOKS generated shortcuts it is necessary to first add the relevant EHOOKS-DEV Simulink® Integration package paths to the MATLAB® environment. This can be done using the following commands within the MATLAB® command prompt:

```
>> addpath <EHOOKS-DEV Simulink Integration Installation Directory>\MATLAB <ENTER>
```

```
>> add_ehooks_paths <ENTER>
```

Example: Let's assume the <EHOOKS-DEV Simulink® Integration Installation Directory> is

C:\Program Files (x86)\ETAS\EHOOKS-DEV V4.10 Simulink



| Name | Date modified | Type | Size |
|---------------------------------------|------------------|-------------|------|
| 3rdPartySoftwareAndLicenseInformation | 15.06.2021 08:41 | File folder | |
| Manuals | 15.06.2021 08:41 | File folder | |
| MATLAB | 15.06.2021 09:29 | File folder | |
| Schemas | 15.06.2021 08:41 | File folder | |

Figure 2: EHOOKS-DEV Simulink Integration Installation directory

```
>> addpath 'C:\Program Files (x86)\ETAS\EHOOKS-DEV V4.10 Simulink\MATLAB'
```

Note : If you have spaces in the path you need to enclose the path with apostrophes

```
>> add_ehooks_paths
```

On success you will get an appropriate message in the Matlab command window

Successfully added the EHOOKS directories to your MATLAB path.

To avoid having to do this every time MATLAB® is loaded, then these same commands can be added to the file <MATLAB Installation Directory>\toolbox\local\startup.m

For example: Let's assume we have the following path to the startup.m

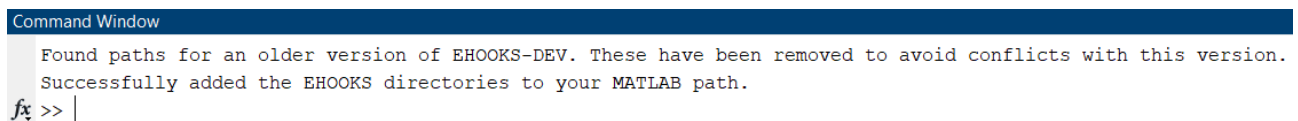
C:\Program Files\MATLAB\R2019b\toolbox\local\startup.m

Please add both lines (Figure 3) to startup.m

```
addpath 'C:\Program Files (x86)\ETAS\EHOOKS-DEV V4.10 Simulink\MATLAB'
add_ehooks_paths
```

Figure 3: startup.m - edited

When starting Matlab® you should get the similar success message in the Matlab® Command Window:



```
Command Window
Found paths for an older version of EHOOKS-DEV. These have been removed to avoid conflicts with this version.
Successfully added the EHOOKS directories to your MATLAB path.
fx >> |
```

Figure 4: Matlab® Command Window - successfully added the EHOOKS directories



Additional information:

How to verify if the integration has been successful

Check which products and its corresponding versions are installed in Matlab®

In the Matlab® Command Window enter "ver"

```
>> ver
```

This should list you "EHOOKS Blockset" and the version

```
EHOOKS Blockset                Version 4.10.0
```

Check the Matlab® search path

In the Matlab® Command Window enter "path" or use the "Set Path" from the Matlab® Menu bar (Figure 5). This should list you the following paths

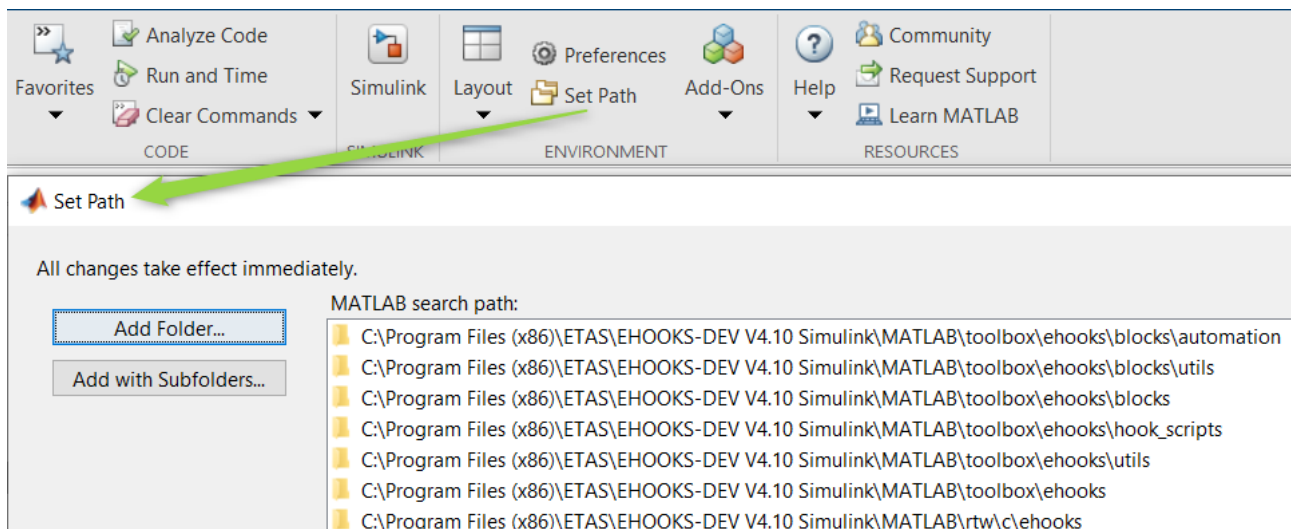


Figure 5: Matlab® - Set Path



In case of further questions:

Please feel free to contact our Support Center, if you have further questions.

Here you can find all information: <http://www.etas.com/en/hotlines.php>

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