**FAQ 219**

# RTI Blocks in Custom Simulink Libraries

**Question**

I have created a Simulink library that is organized in subsystem blocks. Some of the subsystem blocks contain blocks from the RTI libraries.
When I copy a subsystem block from my library to a model, the following error occurs:

```
Error using ==> set_param Attempting to override parameters of a block
'<blockpath>' which is inside a library link
```

What is the reason for this error?

**Solution**

Some of the RTI blocks have to modify their contents when they are copied. However, if an RTI block is part of a library-linked subsystem block, Simulink prevents modifications in general. This is a Simulink protection mechanism to avoid accidental modifications.

However, the block-specific Simulink parameter `MaskSelfModifiable` allows a subsystem block to modify itself, even if it is linked to a Simulink library. This setting is required if a subsystem block contains RTI blocks.

To ensure that a library-linked subsystem block has the `MaskSelfModifiable` setting, follow these steps:

- Open the custom Simulink library and select `Unlock` from the Edit menu.

- Select the self-modifying subsystem block and ensure that this block is masked. This is necessary because the `MaskSelfModifiable` parameter can be set only for masked subsystem blocks.

- Enter the following command in the MATLAB® Command Window:

  ```
  set_param(gcbh, 'MaskSelfModifiable', 'on')
  ```

  As of MATLAB R13, the parameter can also be set by selecting the `Allow library block to modify its contents` option on the Initialization page of the subsystem's Mask Editor.

- Repeat these steps for all other affected subsystem blocks. Then, save the Simulink library.

You have to set this parameter for the subsystem block that contains the RTI block. You do not have to set it for the RTI block itself.

**Related documents**

- For more information about masked subsystems and the `MaskSelfModifiable` parameter, refer to the *Using Simulink* guide.

**Related FAQ**

- -

**FAQ Overview**

http://www.dspace.com/go/faq

**Support**

To request support, please use the form at http://www.dspace.com/go/supportrequest

**Updates and Patches**

Software updates and patches are available at http://www.dspace.com/go/patches.
dSPACE strongly recommends to use the most recent patches for your dSPACE installation.

**Important Notice**