Starting from a blank Simulink model

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This document provides instructions on how to create a control model with imperix ACG blockset, starting from a blank Simulink model. This removes the need to start from a template file.

- Create a blank Simulink model (R2020a: accept when asked to switch to *ert.tcl*)
- Go in **Model Configuration Parameters** (Ctrl + E) -> **Code Generation**
- Browse for a **System target file** and select *imperix_ACG_SDK.tlc*
- Add imperix Configuration block to Model
  - Either through the Library Browser under the imperix section
  - Or by typing "Configuration" directly within the model
- That's it!

Troubleshooting

imperix_ACG_SDK.tlc **is not available in the Model Configuration Parameters**

- In MATLAB, go in `C:\imperix\BB3_ACG_SDK\simulink\target` and run `imperix_ACG_SDK_setup.m` to add paths for the imperix target to the MATLAB path.
  The `savepath` command makes the setup persistent but may not execute if you do not have admin rights on the computer (check MATLAB logs).
- An alternative is to use a [startup script](#): create a file named `startup.m` which contains the following code and place it in a folder which is in the MATLAB search path (for instance the *MATLAB* folder found in the *Documents* directory). If this script already exists, just add the following commands to the end of the file.

```matlab
addpath('C:/imperix/BB3_ACG_SDK/simulink/target');
addpath('C:/imperix/BB3_ACG_SDK/simulink/blocks');
addpath('C:/imperix/BB3_ACG_SDK/simulink/functions');
```
Code language: Matlab (matlab)