Steps to build the TMM Application

# Clone, build and generate the Adaptive project

On **Windows**, clone the project from the repository: [Innovation/Adaptive\_Apps\_BMSSOA: Contains the source code for Adaptive Apps for BMS-SOA project (vitesco.io)](https://github.vitesco.io/Innovation/Adaptive_Apps_BMSSOA)

Import the project in Davinci IDE and generate the source code.

# Clone the Vector SIP on WSL

On **WSL**, execute the following commands:

mkdir ~/tmm\_ws

cd ~/tmm\_ws

git clone -b SIP\_Vector\_R4.21.28 --single-branch https://github.vitesco.io/FLA-Team/ap-stack-vector.git SIP\_Vector\_R4.21.28

cd SIP\_Vector\_R4.21.28/

mkdir Applications

cd Applications/

# Adding TMM application to the Vector build system

Copy ap-swcl-tmscs folder from Windows to WSL inside Applications folder

Execute the following commands on WSL:

ln -s ~/tmm\_ws/SIP\_Vector\_R4.21.28/Applications/ap-swcl-tmscs/buildcnf/ap\_swcl\_tmscs.py ../BuildHelper/src/app\_sw\_modules/ap\_swcl\_tmscs.py

cd ap-swcl-tmscs/scripts/

chmod +x build\*

./build\_aarch64\_skipgen.sh

The build should be successful. If you faced the following error:

09:38:59 [ ERROR] Could not install target <app\_sw\_modules.ap\_swcl\_tmscs.ApSwclTmscs object at 0x7f7eca169e50>

./build.sh: line 120: install\_aarch64\_ap-swcl-tmscs/run.sh: Not a directory

chmod: cannot access 'install\_aarch64\_ap-swcl-tmscs/run.sh': Not a directory

Folder install\_aarch64\_ap-swcl-tmscs not available!

Execute the following command and try again

rm ../../../install\_aarch64\_ap-swcl-tmscs

# Adding the State Manager application

Copy the file [exe\_my\_state\_manager\_executable.tar](https://vitesco.sharepoint.com/:u:/r/teams/InnovationSDAVehicleControl-BMSSOA/Shared%20Documents/03_Engineering/01_Software/TMM/exe_my_state_manager_executable.tar?csf=1&web=1&e=5OxXJf) to the folder **SIP\_Vector\_R4.21.28**, then execute the following commands:

cd ~/tmm\_ws/SIP\_Vector\_R4.21.28

tar xf exe\_my\_state\_manager\_executable.tar -C install\_aarch64\_ap-swcl-tmscs/opt/

rm install\_aarch64\_ap-swcl-tmscs.tar.gz

tar --exclude="install\_aarch64\_ap-swcl-tmscs/include" --exclude="install\_aarch64\_ap-swcl-tmscs/lib" -zcf install\_aarch64\_ap-swcl-tmscs.tar.gz ./install\_aarch64\_ap-swcl-tmscs/

Now you can deploy the TMM application on HW.