

Date: 2019-06-03

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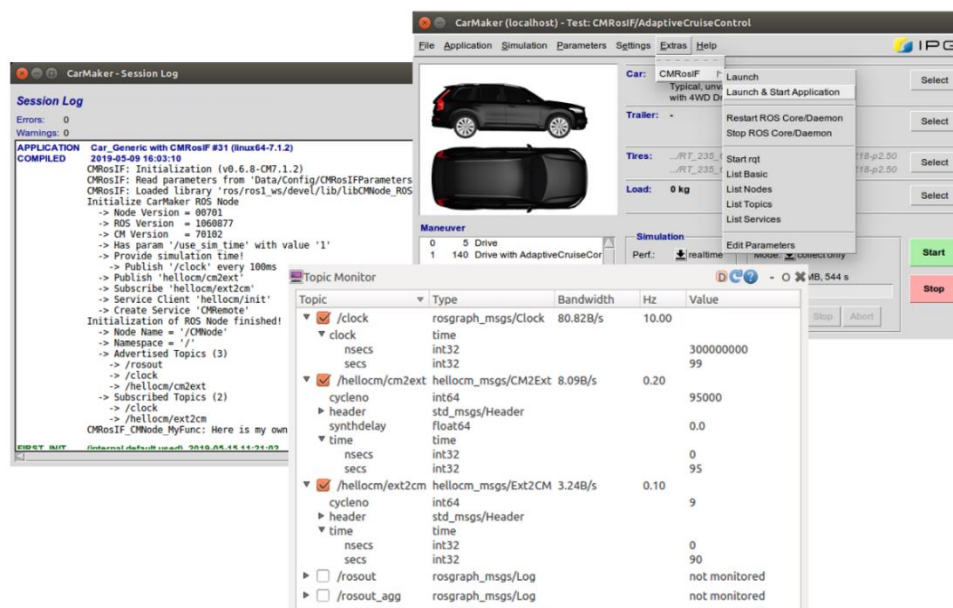
For Release: CarMaker 6, CarMaker 7, CarMaker 8

Notice: This article will give you a brief introduction to the CarMaker ROS Interface. For detailed information please check "CMRosIF_UsersGuide.pdf" inside the "/doc" folder of the provided package.

CarMaker ROS Interface

ROS (Robot Operating System) is an open-source, meta-operating system in the field of robotics. Now it is more and more widely used in automobile industry for the development of advanced driver assistance systems and automated driving.

This demo package includes relevant files that will help you to update your already existing CarMaker project with an interface to ROS. If you have already installed ROS on your system, you will be able to run the interface after a quick preparation.



The demo package provides an example that demonstrates a basic communication between a ROS Node inside CarMaker and an external ROS Node with or without a simple synchronization mechanism.

For detailed information please check "CMRosIF_UsersGuide.pdf" inside the "/doc" folder of the provided package.

System requirements

General system requirements are linked to the requirements of CarMaker (see CarMaker Release Notes) and ROS (see <http://www.ros.org/>). The following table shows the compatibility for different operating systems and ROS versions.

Platform	ROS 1	ROS 2
Linux Tested for: <ul style="list-style-type: none"> Ubuntu 16.04, 64bit 	Example HelloCM with ROS workspace Tested for <ul style="list-style-type: none"> ROS kinetic kame 	Currently not supported. The basic CMRosIF library is independent from ROS version and can be reused. Adaption in build process, open source code for shared library with CarMaker ROS Node and ROS Workspace are necessary. Modification can be done by user. CM GUI extensions will not work (other ROS programs need to be executed).
Windows	Currently no investigation on these platforms	
Xenomai		

Disclaimer:

Using CarMaker ROS Interface needs good programming knowledge of C/C++ and ROS.

This demo example aims at showing the functionality of CarMaker ROS co-simulation. The CarMaker ROS Interface may change itself in the future. Therefore, no official support will be provided. Any reports related to the usage of CarMaker ROS Interface may not be processed.

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