

CICIoV2024: A Benchmark CAN Dataset to Evaluate IoV Security Solutions

Hamideh Taslimasa, Sajjad Dadkhah, Euclides Carlos Pinto Neto, Shahrear Iqbal, Pulei Xiong, Philippe Lamontagne, Taufiq Rahman, Ali A. Ghorbani.

Collected Data

This directory presents the data collected in the experiments. Three subdirectories are available:

Hexadecimal: Data collected represented in **hexadecimal** format (benign, DoS, spoofing-GAS, spoofing-RPM, spoofing-SPEED, and spoofing-STEERING_WHEEL)

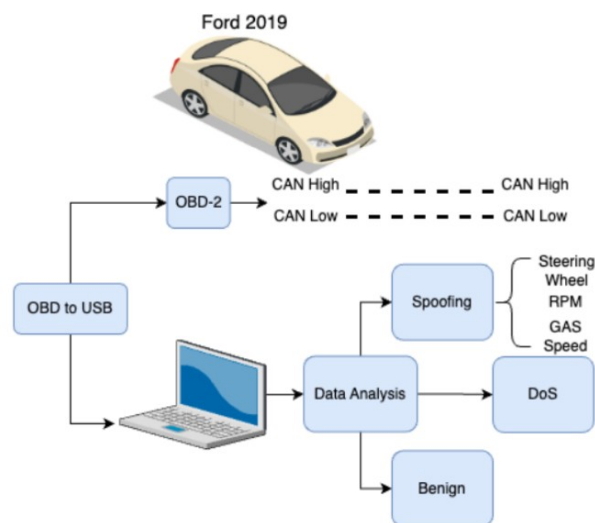
Decimal: Data collected represented in **decimal** format (benign, DoS, spoofing-GAS, spoofing-RPM, spoofing-SPEED, and spoofing-STEERING_WHEEL)

Binary: Data collected represented in **binary** format (benign, DoS, spoofing-GAS, spoofing-RPM, spoofing-SPEED, and spoofing-STEERING_WHEEL)

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Testbed



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Features

Feature Name	Description
ID	Arbitration - indicates the priority of the message and the type of data it carries.
DATA_0	Byte 0 of the data transmitted.
DATA_1	Byte 1 of the data transmitted.
DATA_2	Byte 2 of the data transmitted.
DATA_3	Byte 3 of the data transmitted.
DATA_4	Byte 4 of the data transmitted.
DATA_5	Byte 5 of the data transmitted.
DATA_6	Byte 6 of the data transmitted.
DATA_7	Byte 7 of the data transmitted.
label	The identification of benign or malicious traffic.
category	The identification of the category to which the traffic belongs.
specific_class	The identification of the specific class of the traffic.