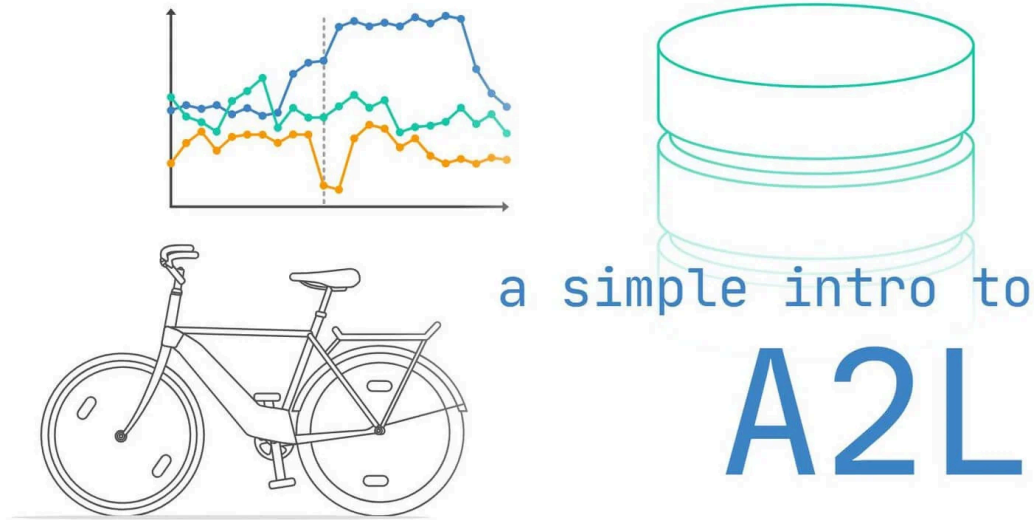


New A2L intro and CANedge-XCP Python tool

CSS Electronics newsletter - May 2025



XCP A2L Files - A Simple Intro

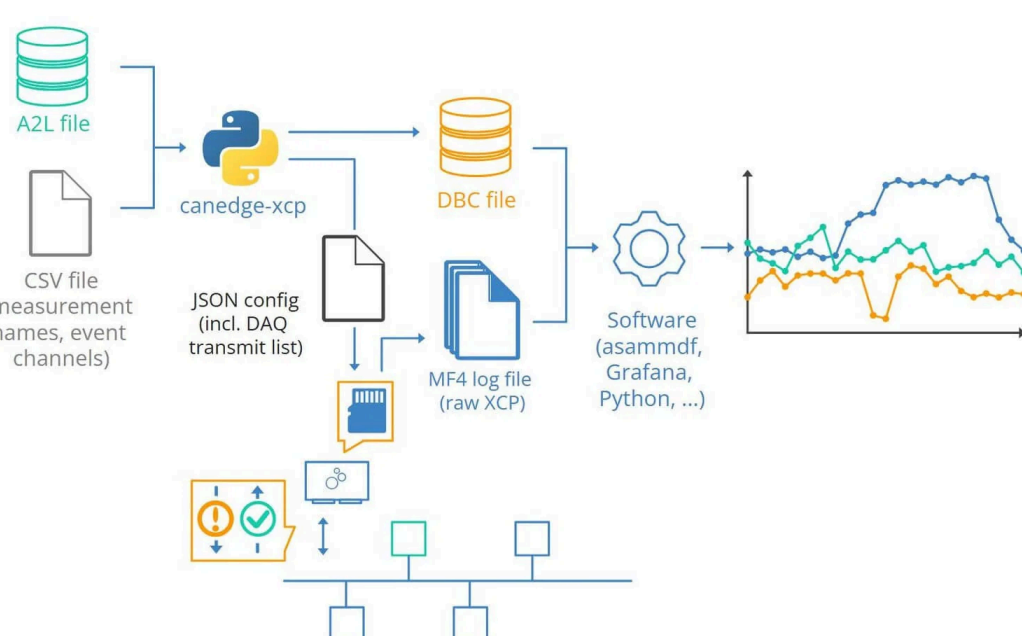
A2L (ASAP2) is a text file format defined in the ASAM MCD-2 MC standard. An A2L file describes the internal data of an ECU - and how a master tool can communicate with it for the purpose of measurement and calibration, using e.g. [CCP](#) or [XCP on CAN](#) - protocols frequently used by Original Equipment Manufacturers (OEMs).

In this intro we cover below key topics:

- What is an A2L file?
- A2L syntax
- How to get the A2L?
- A2L software tools
- A2L vs. DBC files
- canedge-xcp tool

In particular, we focus on A2L files in the context of XCP on CAN with outset in real-life sample files and use cases. This makes it key if you want to better understand XCP on CAN and/or you aim to use the [CANedge](#) for XCP data acquisition (more on this below).

[Learn more](#)



canedge-xcp: Easily log & analyze XCP data!

Our new 100% open source 'canedge-xcp' Python tool makes it easy to deploy the [CANedge](#) for [XCP on CAN](#) data logging using dynamic DAQ lists.

The tool lets you provide your A2L file and a CSV the measurements/signals you wish to record. Using this, the tool auto-generates a CANedge transmit list and DBC file.

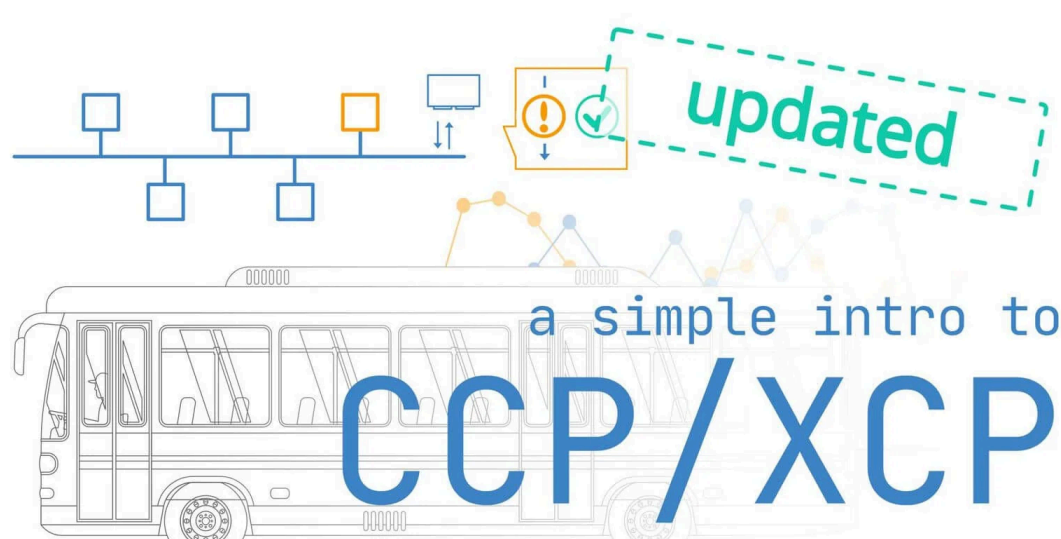
This lets you easily log your ECU data with the CANedge and analyze it with e.g. the asammdf GUI, Grafana dashboards, python-can, Vector tools, MATLAB and more.

The tool supports CAN FD (incl. WRITE_DAQ_MULTIPLE). It also lets you add your DAQ transmit list to an existing CANedge Configuration File (incl. validation) - and even lets you create transmit lists for multi-ECU communication.

You can test out the tool using our sample A2L + CSV via the [github](#) page.

Today, the canedge-xcp tool is actively used by OEM engineers for XCP data acquisition in prototype vehicles. Learn more below - and [contact us](#) for free technical sparring!

[Learn more](#)

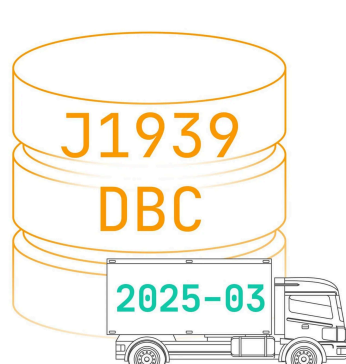


CCP/XCP Explained - a Simple Intro [updated]

We have now improved our CCP/XCP intro. In particular, this includes increased focus on XCP on CAN, 10+ new illustrations and new XCP on CAN dynamic DAQ examples.

The prior revision was focused on CCP, but based on user feedback we have now added a lot more examples and details for XCP on CAN. If you are looking to use the CANedge for XCP data logging, we recommend checking out the new intro below.

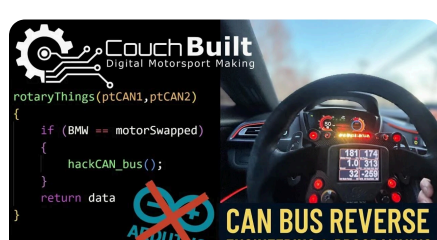
[Learn more](#)



J1939 DBC 2025-03 released!

We have now released the J1939 DBC 2025-03 revision. The new DBC adds 10+ new PGNs vs. the previous 2024-12 release, including 30+ new SPNs related to EV charging, ELD data, engine fuel and more. Get your copy today:

[Learn more](#)



Awesome video by Couch Built

Jon Volk uses our [CANmod.router](#) as part of his project to stream 4 x CAN via USB - and analyze the data via SavvyCAN. Definitely check this video out - Jon is truly a CAN bus expert! In particular, check out Jon's review of different CAN hardware around [5:40](#) in the video.

[Watch now](#)