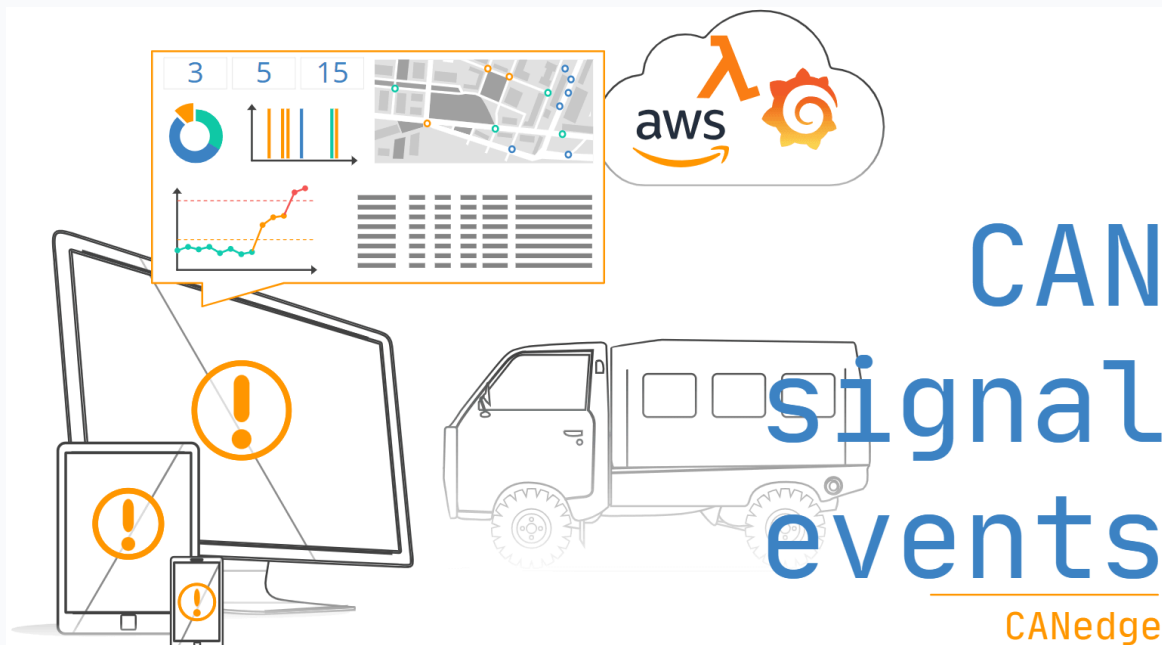


CAN signal event detection + upcoming webinar

CSS Electronics newsletter - December 2024



CAN signal events: Detect, notify and visualize

How do you find **12 failure events** across **10,000+ CAN bus log files**?

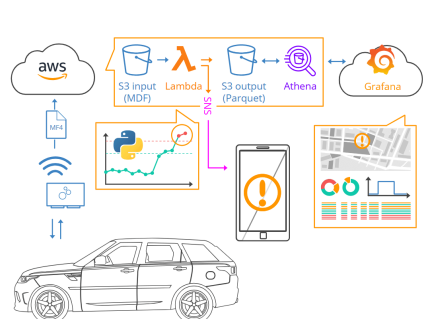
Of course, you *could* open files one-by-one in a GUI tool, DBC decode them, plot the data and eye-ball event conditions - across hundreds of files. We've seen users do this.

But, it's like finding needles in a haystack.

Only, the number of needles is unknown.

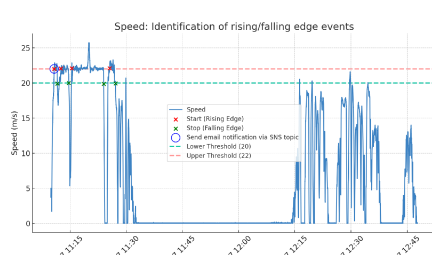
... and the haystack may go into thermal runaway if you miss one.

Luckily, **you can now automate this in 15 min:**



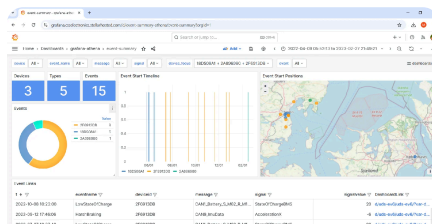
Simply deploy our [Grafana-Athena](#) integration and 'extend it' with our **new plug & play event detection script**. This requires no coding - simply define your events/thresholds.

Once deployed, all your data is auto-evaluated and you get **notified by email/SMS** of events.



You can **fully customize** what CAN signals to act upon - and what thresholds to use.

This can be used to e.g. detect harsh braking, high speed, high temperatures, geofence events, battery faults, active J1939-73 DTCs etc.



Further, you can add a Grafana '[event dashboard](#)' to browse historical events across types, devices, GPS position and time.

For events of interest, you can **click an event link** to open a '[device dashboard](#)' (with full details).

The event link ensures that the device dashboard displays a 40 min time period (by default) centered around your event timestamp - letting you immediately start analyzing/diagnosing the data.

Event detection is an extremely powerful tool if you are interested in a small subset of events in your data, e.g. for OEM engineers looking to **diagnose prototype equipment**. Further, it makes it easier-than-ever to deploy **predictive maintenance** use cases.

Learn more in our article below, check out our [event dashboard playground](#) or try it out yourself via our [step-by-step documentation](#).

[Learn more](#)



Martin Falch
co-owner

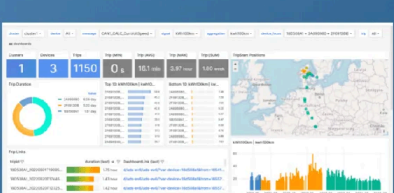


FREE WEBINAR

CAN TELEMATICS AT SCALE

- Device fleet management
- Data lakes, event detection and aggregation
- Dashboards and big data analysis

February 3 2025 - 08:30 AM CT | 3:30 PM CET



Webinar: CAN Bus Telematics at Scale [Feb 3, 2025]

Need to perform CAN bus telematics at scale?

The CANedge makes it easy to collect CAN/LIN data to your own server.

But what if you want to deploy several units - or set up auto-processing, event detection and dashboards? Now scalability and infrastructure become important.

In this **webinar**, Martin Falch covers the following:

1. **Basics** on the CANedge CAN/LIN data loggers
2. How to **manage a fleet** of devices (7 key steps)
3. Data **pre-processing & data lakes**
4. **Event detection** with custom CAN signals
5. **Trip summaries & meta tags**
6. Data visualization with **Grafana dashboards**
7. Advanced analysis in **Python/MATLAB**
8. **Use case examples**

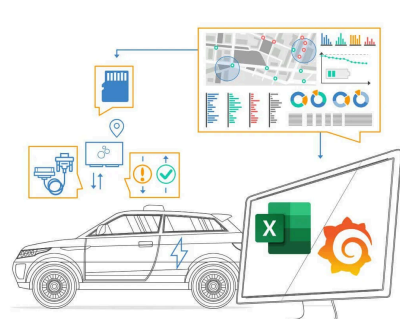
This will mirror our [CAN telematics at scale](#) article and also cover [event detection](#).

It is a must-watch if you want to step change your CAN telematics!

How to sign up: You can click 'attend' and 'add to calendar' on the LinkedIn event below. Alternatively, you can open the scheduled [Youtube Live Stream](#) and subscribe for a notification. No details are required to sign up.

How to share: We greatly appreciate if you share the webinar with your network!

[Sign up](#)



Police vehicle fleet electrification

In this case study, the **Danish National Police** (Politi) uses the [CANedge1 \(incl. GPS/IMU\)](#) devices to collect OBD2/UDS/GPS data from **100+ police cars** - including both regular ICE cars and a fleet of 10 electric cars (VW ID.4 GTX). The data was collected over a full year and analyzed via both Python, Excel and Grafana dashboards.

"The CANedge1 made it possible to investigate usage patterns for existing ICE-vehicles to evaluate the potential for deployment of EVs - and we received perfect support"

[Learn more](#)