Squarell technology

technical vehicle data

Event Data Recorder

Squarell version

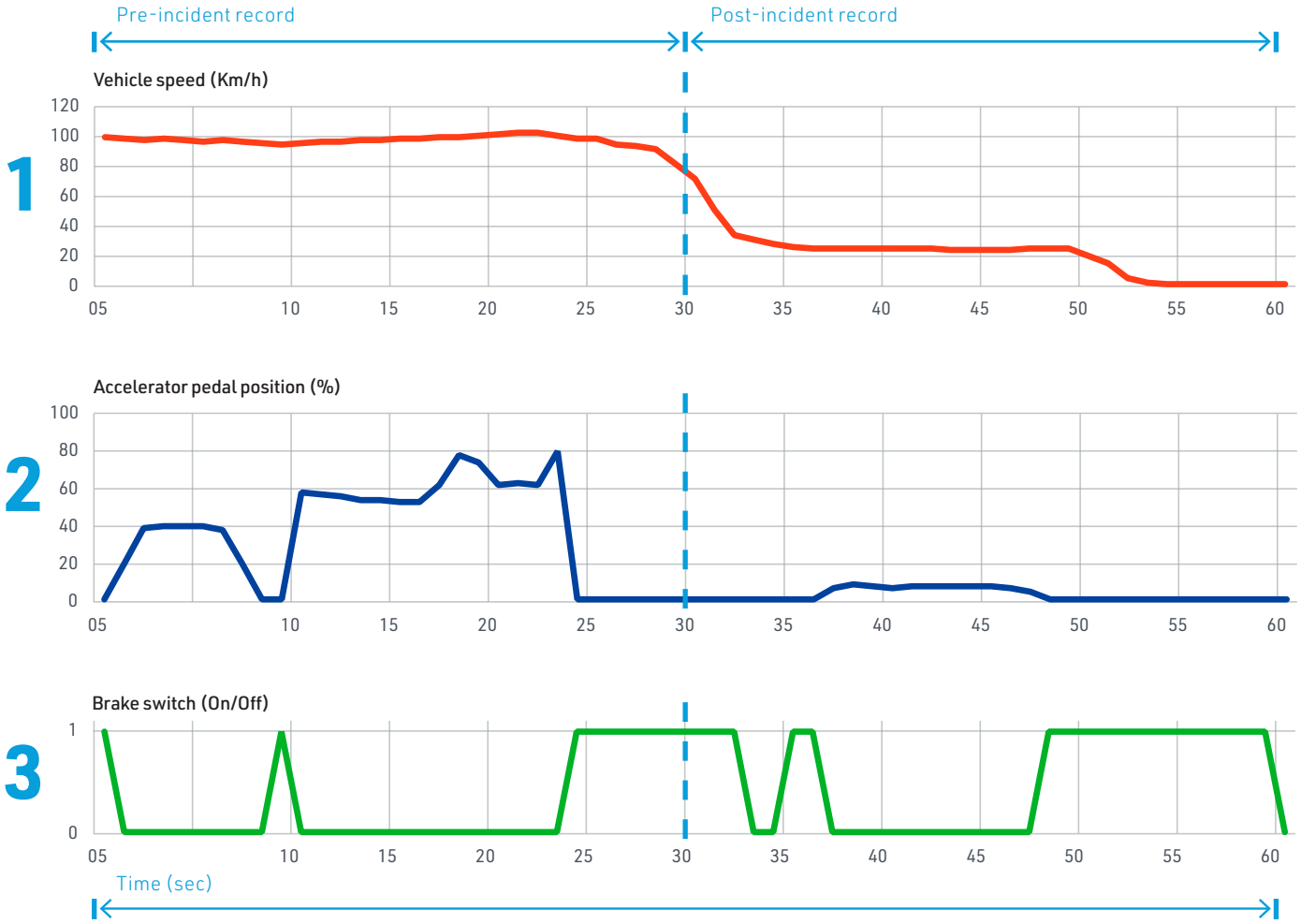
The digital evidence is often the silent witness to an accident. Our goal is to provide a voice for this silent witness by providing relevant vehicle data that shows the true events of a crash.

What is an event data recorder?

The event data recorder logs vehicle data seconds before and seconds after a possible event. An event is usually detected by excessive deceleration of the vehicle. This does not necessarily have to be an accident. An event could also be harsh deceleration or harsh braking.

How does it work?

In this example, the fast decreasing vehicle speed (1) triggered the event data recorder. As shown in the second graph: the accelerator pedal was released prior to the event, and the driver was braking (3) during the event.



Pre-event message
Collect from 30 seconds before the event

Parameters:
- UTC time of event
- Brake switch (On/Off)
- Clutch switch (On/Off)
- Accelerator pedal position (%)
- Vehicle speed (Km/h)
- Engine speed (rpm)
- Crash status (airbag/seatbelt/indicators/etc.)*
- Acceleration/deceleration value (that triggered the incident event)

Post-event message
Sent 30 seconds after the event

Parameters:
- UTC time of event
- Brake switch (On/Off)
- Clutch switch (On/Off)
- Accelerator pedal position (%)
- Vehicle speed (Km/h)
- Engine speed (rpm)
- Crash status (airbag/seatbelt/indicators/etc.)*

* When available on CAN bus

Squarell products and features

Our multi source vehicle data interfaces can process data from various protocols like CAN, J1708 and K-line, they are brand independent. The signals are retrieved with the patented CANcliQ and DatacliQ readers: for contactless data readings without a wire-to-wire connection.

The Squarell interfaces can be expanded with software and hardware extensions.

SOLUTIONS

Advanced Tell-tales
Environment
Event Data Recorder
Maintenance
Safety
Tachograph

PRODUCTS

BE
CANcliQ and DatacliQ
Driver Awareness Panel
Power Output Module
REMOTE+
SOLID+
Trailer Box

VEHICLES

Buses and Coaches
Electric Vehicles
First Response Vehicles

INFORMATION

CAN bus Networks
Wired Networks
Wireless Networks

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