# C-EDR

# China Proposal for *standardized EDR Data Retrieval*

# Standardized DATA RETRIEVAL

## Unified data retrieval connector

GB/T 34589-2017 "Road Vehicles diagnostic connector"

## Unified data retrieval protocol

√ Use diagnostic service 0x22 "ReadDatabyIdentifier " in ISO 14229 "Road Vehicles unified diagnostic service " to retrieve EDR data.

√ compatible with CAN bus and k-line.

√ Compatible with functional addressing（CANID：0x7DF）and physical addressing（CANID：0x7F1&0x7F9）

√ Compatible with 11-bit and 29-bit CANID

## Unified data retrieval ID

**0xFA13, 0xFA14 and 0xFA15**
Where,
**0xFA13** for the most recent event,
**0xFA14** for the second event from the bottom,
**0xFA15** for the third event from the bottom.
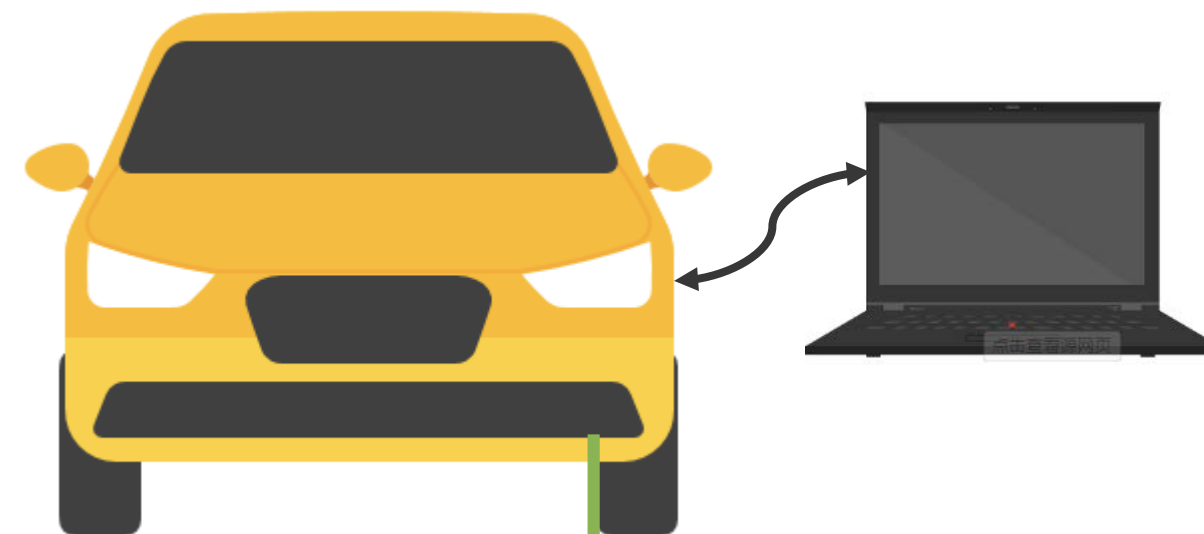
## Unified data arrangement

Unified **data range**, **accuracy**, **resolution** and **data arrangement order**

| ID (1)(2)(3) | | | Signal Name | Unit | Record Level | Length of Single Signal (bit) | Length of Single Signal (byte) | Number of Single Event Signals (#) | Length of Single Event Signal (Byte) | Serial Number of Byte | Conversion Formula | Unobtainable Value | Fault or Invalid Value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Longitudinal delta-V | km/h | A | 8 | 1 | 26 | 26 | 0-25 | E=N-150 | FF$_{16}$ | FE$_{16}$ |
| | | | Maximum recorded longitudinal delta-V | km/h | A | 8 | 1 | 1 | 1 | 26 | E=N-150 | FF$_{16}$ | FE$_{16}$ |
| | | | Time to maximum recorded delta-V, longitudinal | ms | A | 7 | 1 | 1 | 1 | 27 | E=N*2.5 | FF$_{16}$ | FE$_{16}$ |
| | | | Clipping flag | ms | A | 16 | 2 | 1 | 2 | 28-29 | E=N 1st byte: longitidinal acceleration clipping flag; 2nd byte: lateral acceleration | FFFF$_{16}$ | FFFE$_{16}$ |
| 0xFA13 | 0xFA14 | 0xFA15 | | | | | | | | | | | |

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THANK YOU!