China's suggestion for EDR regulation

CATARC

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Existing EDR regulations/standards worldwide

WP.29 Uniform provisions concerning the approval of motor vehicles

with regard to the Event Data Recorder(UN R160)

1 July, 2024, 00 series; 1 July, 2026,01 series.

China
Vehicle event data recorder system(GB 39732)

1 January, 2022, except for the B-level data elements and data retrieval;

1 January, 2024, all requirements.

❖ USA EVENT DATA RECORDERS(USA/Federal: 49 CFR 563)

♦ EU EU838

❖ Korea 사고기록장치 장착기준 (KMVSS Art.56-2)

❖ Japan J-EDRの技術要件

Comparison of major EDR regulations

Items	GB 39732	UN R160	CFR 563
Scope	• M ₁	• M ₁ and N ₁	Passenger cars and other vehicles*
Impact Event Requirements	 Trigger:≥8km/h and other methods Locking:≥25km/h or deployment event Beginning:≥0.8km/h; End:<0.8 km/h 	 Trigger:>8km/h and deployment event Locking:>25km/h, deployment event and Activation of VRU Beginning:>0.8km/h 	 Trigger:≥8km/h Locking: deployment event Beginning:>0.8km/h; End:≤0.8 km/h
Data elements	 VIN, EDR information, event time, Clipping Flag, Tend. 	Normal acceleration, E-call and ADAS system status, etc.	Normal acceleration, seat track position, occupant size, vehicle roll angle, occupant position classification
Function requirements	Overwriting mechanismPower-off storageNumber of storage events	Overwriting mechanism(first-in first-out)	Overwriting mechanism(manufacture may choose)
Requirements for data retrieval	 Unified port, protocol, identifier Translating and time limit requirements 	Retrievable even after an impact	Retrievable by the methodology specified by the vehicle manufacturer
Test Methods	Impact testDriving operation data testBench test	Impact test	Impact test

^{*} Multipurpose passenger vehicles, trucks, and buses with a GVWR of 3,855 kg (8,500 pounds) or less and an unloaded vehicle weight of 2,495 kg (5,500 pounds) or less, except for walk-in van-type trucks or vehicles designed to be sold exclusively to the U.S. Postal Service.

Suggestions

- Several countries and regions have issued and implemented EDR /standards.
- UN R160 has already made tremendous progress. Proposals for Supplement 1 to 00 series and 01 series of UN R160 had been adopted.
- The STEP 1 of the process of EDR Guidance for 1958 and 1998 is finished and IWG has moved on to the STEP 2.
- Several countries and regions have accumulated rich experiences in implementing its own EDR regulations/standards. These experiences are very informative to the STEP 2 work of EDR IWG.
- In order to accelerate the process of EDR IWG (STEP 2), we suggest listing the existing national EDR regulations/standards into the compendium of candidates.

