

IWG on EDR/DSSAD Status Report

October 2024

Background IWG on EDR/DSSAD

In accordance with the ‘Framework Document on automated/autonomous Vehicles’ (WP.29-178 June 2019):

“The IWG shall develop draft proposals for Event Data Recorder (EDR) for conventional and automated/autonomous vehicles and for Data Storage System for Automated Driving (DSSAD)”.



Chairpersons: The Netherlands, Mr. Tim Guiting
Japan, Mr. Hisao Matsukawa
USA, Mrs. Jane Doherty

Secretariat: USA, Mrs. Caitlin McKeighan

Activities since GRSG-127: 1 2.5-day hybrid session, Paris
6 virtual sessions (mainly on DSSAD)

Activities

EDR	DSSAD
<u>Completed:</u>	
<ul style="list-style-type: none">• UN R160 on light duty vehicle EDR incl. Amendments and Supplements.	<ul style="list-style-type: none">• DSSAD requirements within UN R157 on ALKS, incl. Amendments.
<ul style="list-style-type: none">• UN R169 on heavy duty vehicle EDR.	
<u>Current:</u>	
<ul style="list-style-type: none">• Clarification on demonstration of compliance for vehicles with a max. mass up to 8/12t within UN R169.	<ul style="list-style-type: none">• DSSAD performance elements for ADS: guidance document.
<ul style="list-style-type: none">• EDR Step 2, future and advanced requirements.	
<ul style="list-style-type: none">• EDR performance elements for ADS.	
<u>Future:</u>	
<ul style="list-style-type: none">• EDR Step 3, future requirements.	

State of play - DSSAD

- DSSAD guidance document (EDR-DSSAD-IWG-25-15).
- More consideration by the IWG on this document is necessary.
- Includes discussions on DSSAD data elements.

State of play - EDR for ADS

- Discussions on DSSAD data elements will provide input for the EDR workstream 'EDR for ADS'.
- It needs to be identified what elements are to be associated with DSSAD and with EDR.
- Then the data format requirements needs to be developed and the EDR requirements potentially be updated for ADS vehicles.

State of play - EDR for HDVs 8-12t

UN R169 on HDV EDR, paragraph 4.1.:

- Approval for UNR169 may be based on UNR160 for a vehicle type with GVW up to 12t, if the vehicle type meets UN R160.01.
- For vehicle types with GVW between 8-12t: the manufacturer must demonstrate, to the satisfaction of the approval authority, that the triggering performance is equally effective.

Due to potential subjectiveness in assessing the 'equally effectiveness' by the authority, the IWG on EDR/DSSAD was tasked to work on clarifying this requirement.

The IWG finally agreed to develop clarifications for manufacturers, technical services and approval authorities on how to assess the equal effectiveness at capturing collisions.

→ official document will be prepared for GRSG-129 April 2025.

State of play - EDR Step 2

- The IWG considered presentations and proposals regarding the subjects as part of the workstream 'Step 2', in its first phase:
 - VRU triggering,
 - increased recording frequency,
 - data elements,
 - corrections/improvements.
- The IWG will continue these discussions in order to prepare an official document for GRSG-130 October 2025.

deliverables/timelines

ECE/TRANS/WP.29/2024/1/Rev.1 Table 6 Subjects under consideration by the Working Party on General Safety Provisions (GRSG)

<i>Priority/ recurrent</i>	<i>Title</i>	<i>Tasks / Deliverables</i>	<i>References</i>	<i>Allocations / IWGs</i>	<i>Timeline (GRSG adoption)</i>	<i>Timeline (WP.29 adoption)</i>	<i>Initiator</i>	<i>Comments</i>
Priority	Event Data Recorder	EDR performance elements for ADS		GRSG in cooperation with GRVA, IWG on EDR/DSSAD	Oct. 2025	March 2026	WP.29	
Priority	Event Data Recorder	Supplement to the original version of the UN Regulation 169 addressing additional demonstration for vehicles with maximum mass 8,000-12,000 kg.		IWG on EDR/DSSAD	Oct. 2024 Apr. 2025	March 2025 Nov. 2025	WP.29	
<u>Priority</u>	Event Data Recorder	EDR Step#2 - consideration of amendments to Step #1 requirements with respect to VRU-triggering, increased recording frequency, data elements. EDR Step#3. - consideration of further requirements.		IWG on EDR/DSSAD	Oct. 2025 Oct. 2026	March 2026 March 2027	WP.29	

Thank you for your attention!