

Submitted by the Co-Chairs of
IWG on EDR/DSSAD

Informal document **GRVA-15-31**
15th GRVA, 23-27 January 2023
Provisional agenda item 4(c)

Activities/Deliverables of IWG on EDR/DSSAD

January 2023

Mission of the EDR/DSSAD IWG

ToR of the IWG (ECE/TRANS/WP.29/1147 Annex VII)
(adopted in the 178th WP.29 in June 2019)

The IWG shall **develop draft proposals** for **Event Data Recorder (EDR) for conventional vehicles and automated/autonomous vehicles** and for **Data Storage System for Automated Driving (DSSAD) for automated/autonomous vehicles**. These categories shall be understood as systems collecting and storing a determined range of vehicle data, including:

- a. Information related to collisions valuable for accident reconstruction (EDR);
- b. The status of the automated/autonomous driving system and the status of the driver (DSSAD).

To this effect, the IWG shall address the following issues:

- a. Define the scope and specific objectives of and differences between EDR and DSSAD,
- b. Define EDR and DSSAD requirements.

In particular, the IWG will consider defining the categories of data recorded, the events triggering recording, as well as technical specifications in terms of performances of such systems, such as the required endurance, accessibility, storage capacity or the specific security requirements, as well as the required privacy and data protection by design features.

Overview of the IWG activities

	Projects Completed	Current Work	Future Work (WP.29 mandate)
Comparison between EDR and DSSAD	Comparison between EDR and DSSAD (WP29-179-19, Nov. 2019)	<ul style="list-style-type: none"> • Review of purposes of DSSAD • Prioritization of discussion topics • Updating consolidated document of domestic activities on DSSAD • Review of DSSAD requirements for the extension of the Lane change function in ALKS (UNR 157). <i>GRVA/2022/16</i> 	<ul style="list-style-type: none"> • DSSAD performance elements for ADS (Jun. 2024)
DSSAD	DSSAD requirements (within ALKS (UNR157)) (181st WP.29, June 2020)		
EDR	EDR requirements (UNR 160 00/01 series) (183rd WP.29, Mar. 2021), and Amendments (186th WP.29 Mar. 2022)	<ul style="list-style-type: none"> • EDR for HDV • Common performance elements for 1958/1998 CPs • EDR Acceleration Data Accuracy Verification Procedures 	<ul style="list-style-type: none"> • EDR for HDV (Nov. 2023) • EDR Step 2 (Jun. 2024) • EDR for ADS (Jun. 2024)

Activities since GRVA #14

- SG DSSAD 11 and 12: 2 November and 19 December 2022
 - Ongoing discussion on Objective /Purpose of DSSAD
 - Presentations from China and Germany on their domestic experiences
 - OICA and SAE presentations
 - Group is focused on discussion of data elements to be recorded as its primary activity, to be followed by a discussion on the hardware requirements.
 - Next meeting: January 31, 2023
- 6 SG EDR sessions
 - EDR for HDV

DSSAD Objective

- The group has agreed that the primary objective of a DSSAD system is:
“Data recorded to evaluate/monitor overall safety performance and identify when ADS is in control of vehicles”
- Notably, it was agreed not to include liability as a primary goal of DSSAD.
- The group agreed that while data obtained from the DSSAD systems can be used for other purposes including liability, this was not the primary goal or objective of the DSSAD requirements.

Updating consolidated document of domestic activities on DSSAD
(GRVA-14-40/Rev.1, WP.29-188-06)

- The updates on domestic activities were sent to WP.29 in November 2022 (WP.29-188-06): “Inventory of best ADS storage practices”.
- Focus moving forward will be on a common ADS performance elements guidance document for both EDRs and DSSAD systems.
- Close collaboration with FRAV/VMAD and SG3.

Current 2023 Schedule for EDR/DSSAD IWG

SG-DSSAD-13	January 31
EDR/DSSAD IWG #19 *	February 14-16
SG-EDR-34 & EDR/DSSAD IWG #20	February 28
SG-EDR-35 & EDR/DSSAD IWG #21	March 23
SG-EDR-36	April 18
SG-DSSAD-14	April 20

* in-person/hybrid

Thank you!