

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

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Activities/Deliverables of IWG on EDR/DSSAD

May 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"> discussion of data elements, including triggers and basic vehicle information data 	<ul style="list-style-type: none"> DSSAD performance elements for ADS (Jun. 2024)
DSSAD	<p>DSSAD requirements (ALKS (UNR157)) (181st WP.29, June 2020) (189th WP.29, March 2023)</p> <p>Updating consolidated document of domestic activities on DSSAD (188th WP.29, November 2022)</p> <p>Primary purposes of DSSAD, Prioritization of discussion topics</p>	<ul style="list-style-type: none"> discussion on the hardware requirements storage duration privacy information etc. 	
EDR	<p>EDR requirements (UNR 160 00/01 series) (183rd WP.29, Mar. 2021), and amendments (186th WP.29, Mar. 2022)</p> <p>Acceleration Data Accuracy Verification Procedures (125th GRSG, 2023/11&15 etc.)</p>	<ul style="list-style-type: none"> EDR for HDV Common performance elements for 1958/1998 CPs 	<ul style="list-style-type: none"> EDR for HDV (Nov. 2023) EDR Step 2 (Jun. 2024) EDR for ADS (Jun. 2024)

Activities of EDR/DSSAD IWG since GRVA #15

- SG-DSSAD-13 January 31
- EDR/DSSAD IWG #19 (hybrid in OICA Paris) February 14-16
- SG-EDR-34 & EDR/DSSAD IWG #20 February 28
- TF Data Elements (EDR) #12 March 22
- SG-DSSAD-14 & EDR/DSSAD IWG #21 March 23
- SG-EDR-36 April 18
- SG-DSSAD-15 April 20
- TF Data Elements (EDR) #13 May 8

Summary of Recent Activities on DSSAD

- The discussion of the objectives of the DSSAD was completed and **switched to a discussion of data elements**, including triggers and basic vehicle information data.

Ref: DSSAD objectives:

"Data recorded to evaluate/monitor overall safety performance and identify when ADS is in control of vehicles"

- Group is focusing on discussion of **data elements to be recorded** as its primary activity, to be followed by a discussion on the hardware requirements.
- Ongoing discussion on:
 - the inconsistencies between countries in DSSAD storage duration, and
 - privacy information.

As an example of concrete discussion content...

- About the data elements,
 - Using the comparison table of SAE standards, national laws, etc., the data elements are roughly categorized and reviewed one by one in SG DSSAD.
 - We have been discussing it since the January SG DSSAD, but we have completed the review of only less than half of the table.
 - At the most recent SG DSSAD, this situation was seen as a risk of "seeing the trees and not the forest," and in an attempt to break through this situation, we brainstormed about what needs to be recorded and when.
 - The opinions still varied widely, including whether 'trigger-based recording' or 'data logging' should be used, etc.
 - The goal of the next DSSAD SG is to take these comments into account, and gradually narrow down these wide variety of views on DSSAD.

Current Schedule for EDR/DSSAD IWG

SG-EDR-36	June 6
TF Data Elements (EDR)-14	June 8
SG-DSSAD-16	June 27
SG-EDR-37 & TF Data Elements (EDR)-15	June 28
EDR/DSSAD IWG #22	August 29
EDR/DSSAD IWG #19 (hybrid in D.C. the US)	September 6-8

Thank you!

**Special thanks to OICA
for hosting the hybrid meeting in February!**