

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

Informal document GRVA-18-25
18th GRVA, 22-26 January 2024
Provisional agenda item 4(d)

Activities/Deliverables of IWG on EDR/DSSAD

January 2024

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

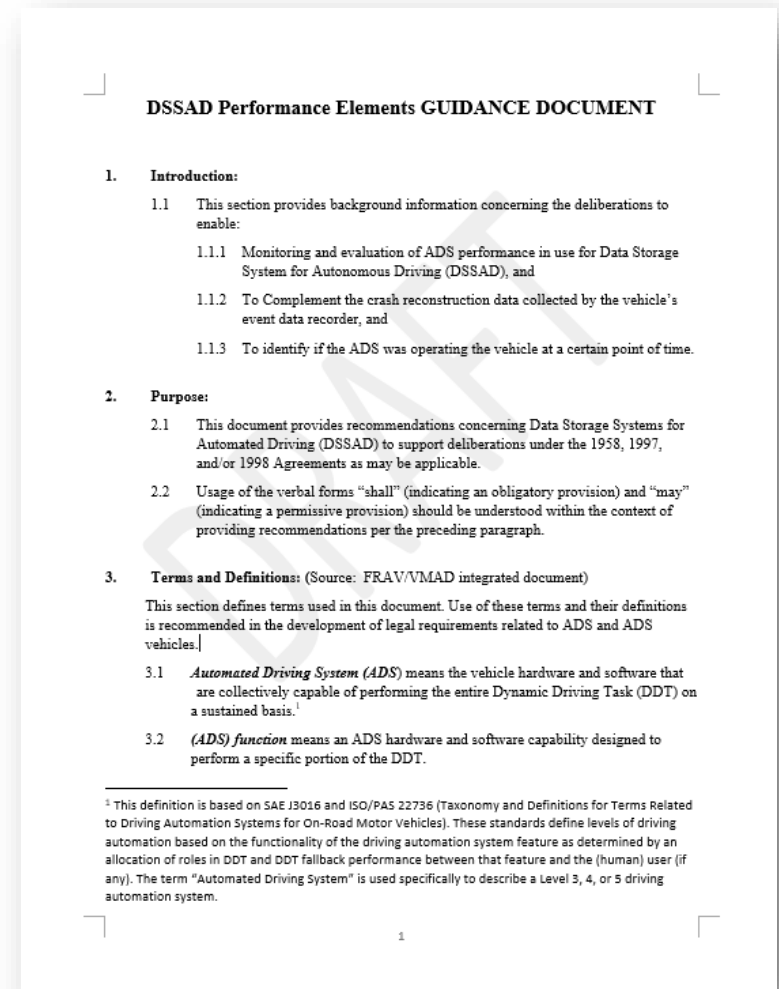
	Projects Completed	Current Work	Future Work
Comparison between EDR and DSSAD	Comparison between EDR and DSSAD (WP29-179-19, Nov. 2019)	<ul style="list-style-type: none"> DSSAD performance elements guidance document (June 2024) 	
DSSAD	<p>DSSAD requirements (ALKS (UNR157)) (181st WP.29, June 2020) (189th WP.29, March 2023)</p> <p>Updating consolidated document of domestic activities on DSSAD (188th WP.29, Nov. 2022)</p> <p>Primary purposes of DSSAD, Prioritization of discussion topics</p>		
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> <p>EDR for HDV (UNR 169, 191st WP.29, Nov.2023)</p>	<ul style="list-style-type: none"> EDR performance elements for ADS (Nov. 2024) Supplement for 8-12t (Nov.2024) 	<ul style="list-style-type: none"> EDR Step 2 (March 2025)

Activities of EDR/DSSAD IWG since GRVA #17

- SG-EDR #38 November 20
- SG-DSSAD #17 November 21
- TF EDR(8-12ton) #1 December 11
- TF EDR(8-12ton) #2 January 19

Summary of Recent Activities on DSSAD

- Group is focusing on discussion of DSSAD Performance Elements Guidance Document to submit to WP.29 June 2024.
- The guidance document consists of the following chapters:
 1. Introduction
 2. Purpose
 3. Terms and Definitions
 4. Data Storage and Security
 5. Data Format
 6. Data Retrievability/Accessibility
 7. Performance Elements
 8. Misc. Specifications



Challenging topics for the group...

- Agreement on the common objectives of a data storage system
- Whether DSSAD should continuously record, rather than rely on time-stamped data.
- Justifications for requesting data from OEMs
- Should authorities have access to the data without needing to request from the OEM.
- There should be references to data element standardization, i.e., what kind of standardization there should be. The report itself should be standardized, not the data itself.
- There may be personal data and the vehicle owner should be the one who decides if the DSSAD is read out in the case of liability purposes.

Current Schedule for EDR/DSSAD IWG

- SG-DSSAD #18 January 30
- SG-EDR #39 February 26
- SG-DSSAD #19 February 27
- EDR/DSSAD IWG #24 (hybrid in Tokyo, Japan) April 9-11

Thank you!