IWG on EDR/DSSAD
Status Report

October 2021
Activities since GRSG-121

May - October 2021:

• WP.29 184th session:
  discussed the timetable of the Framework Document on automated/autonomous vehicles
  (→ ECE/TRANS/WP.29/2021/151)

• SG on DSSAD and SG on EDR sessions:
  - workplan for EDR/DSSAD;
  - DSSAD: supported VMAD’s activity on ALKS (R157) for Heavy Duty vehicles, as regards DSSAD;
  - EDR: improved (clarified, supplemented and corrected) all current EDR documents.

• IWG on EDR/DSSAD sessions
Deliverables 1/2

**UN Regulation on EDR**

**R160.00** ECE/TRANS/WP.29/2020/123/Rev.1

(*into force*)

**Proposal for Supplement 1** ECE/TRANS/WP.29/GRSG/2021/33 and GRSG-122-36

**R160.01** ECE/TRANS/WP.29/2021/058

(*expected EIF 30 March 2022*)

**Proposal for Supplement 1** ECE/TRANS/WP.29/GRSG/2021/34 and GRSG-122-37
EDR Common Technical Requirements

Performance elements appropriate for adoption in both the 1958 and 1998 Agreements.

Proposal for amendments

ECE/TRANS/WP.29/GRSG/2021/32 and GRSG-122-35
Proposed amendments 1/2

(See consolidated text in Appendix of GRSG-122-35/-36/-37)

Definitions:
• editorial amendments, e.g. “ABS” into “Anti-lock brake system”.
• small improvements to clarify existing definitions, e.g. for "Ignition cycle, crash".
• adding missing definitions, e.g. “Rollover”.
• adding missing definitions in R160.01 for LDWS, CSF, ESF, ACSF, eCall

Main text:
• deletion of obsolete Footnote 1 (common techn. req. doc.).
• minor editorial improvements.
Proposed amendments 2/2

Data elements Annex:

• amended recording interval for “Normal acceleration”, “roll angle” and “roll rate”.

• addition of “Safety belt status, rear passengers” (mistakenly deleted in original version of R160.01).

• editorial amendments to range and resolution for several data elements (“engaged”/“on”/“actively intervening”/etc) And addition of explanatory footnote.

• amendments to ‘events recorded for column’ (for the additional R160.01 data elements).

• many changes of footnotes for reasons of clarification.
Next IWG activities

- Make progress on DSSAD performance elements.
- Performance elements appropriate for ADS equipped vehicles → special session on 19 October;
- EDR for heavy duty vehicles (trucks and busses).
- EDR Step#2 - amendments to Step #1 requirements with respect to additional data elements, addressing additional rollover/VRU crash events, durability considerations including potential fire resistance, potential test procedures and consideration of new triggering criteria (e.g. “jerk”);
- Aligning the EDR performance elements for both 1958 and 1998 Agreement Parties.
Considerations for GRSG-122

GRSG is invited to consider the IWG’s proposals for further improving the current EDR documents:

R160.00 Supplement 1: ECE/TRANS/WP.29/GRSG/2021/33 and GRSG-122-36

R160.01 Supplement 1: ECE/TRANS/WP.29/GRSG/2021/34 and GRSG-122-37

EDR common elements: ECE/TRANS/WP.29/GRSG/2021/32 and GRSG-122-35

Thank you for your attention!