

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
(into force)

ECE/TRANS/WP.29/2020/123/Rev.1

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

R160.01
(expected EIF 30 March 2022)

ECE/TRANS/WP.29/2021/058

Proposal for Supplement 1 ECE/TRANS/WP.29/GRSG/2021/34
and GRSG-122-37

Deliverables 2/2

EDR Common Technical Requirements

Performance elements appropriate for adoption in both the 1958 and 1998 Agreements. ECE/TRANS/WP.29/2020/100/Rev.1

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
ammendments and GRSG-122-35

Thank you for your attention!