

## **Draft Terms of Reference (ToR) for an IWG on AEBS (HDV)**

Following input received on 04/February/2021

### **I. Proposal**

#### **A. Terms of Reference**

1. The Informal Working Group (IWG) shall develop a draft regulatory proposal to revise UN Regulation No. 131 with the aim to adapt the Regulation to the state of the art technology and to align it with new concepts which were developed for Advanced Emergency Braking Systems (AEBS) for M<sub>1</sub> and N<sub>1</sub> vehicles (UN Regulation No. 152).
2. In particular the IWG shall address the following issues:
  - a. Assess the accident situation for heavy duty vehicles in regions where UN Regulation No. 131 is presently applied, looking at the effectiveness of the current performance requirements, differentiated between M<sub>2</sub>/N<sub>2</sub>-vehicles and M<sub>3</sub>/N<sub>3</sub>-vehicles, and differentiated after accident collision partner (specifying car, Vulnerable Road Users (VRU), construction vehicles, others).
  - b. Investigate the feasibility of a generic marker triggering AEBS reaction with the purpose to increase safety in road servicing areas and at railroad crossings.
  - c. Define state of the art performance requirements, especially for collisions involving stationary vehicles and the relevant targets based on the results from the action item above.
  - d. Review the values for the target speed reduction for M<sub>2</sub> and N<sub>2</sub> vehicles (as requested in Annex 3 of UN Regulation No. 131) before November 2021.
  - e. Review AEBS on
    1. Vehicle to Car (V2C),
    2. Vehicle to Pedestrian (V2P)
    3. Vehicle to Bicycle (V2B)
    4. Others,For heavy duty vehicles, and taking into account the performance requirements as specified under item 2c.
  - f. Contemplate and incorporate as relevant new concepts from UN Regulation No. 152 on AEBS for M<sub>1</sub> and N<sub>1</sub> vehicles (e.g. definition of requirements for a range of parameters).
3. The IWG shall take full account of developments and work in full cooperation with other subsidiary Working Parties (GRs) of WP.29 and their IWGs.
4. The IWG should take into account existing data, research and voluntary standards available in the contracting parties in developing its proposals.
5. Text shall, to the fullest extent possible, be performance based and technology neutral.
6. The IWG shall deliver the technical requirements for AEBS for heavy duty vehicle according to paragraphs 2.e.1. to 2.e.3 as a revision of UN Regulation No. 131 with the necessary adjustments and administrative text (including the transitional provisions attached to the introduction of the different series of amendments) at the GRVA session of February 2022.

This target date shall be reviewed at the GRVA session of September 2021 according to the progress achieved by the informal group.

## **B. Rules of Procedure**

1. The IWG shall report to GRVA and is open to all participants of WP.29.
  2. Two Co-Chairs and a Secretary will manage the IWG.
  3. The Co-Chairs may invite experts (at their discretion), including non-participants of WP.29, to assist in the development of technical standards.
  4. The working language of the IWG will be English.
  5. All documents and/or proposals must be submitted to the Secretary of the relevant group in a suitable electronic format in advance of the meeting. The group may refuse to discuss any item or proposal which has not been circulated five working days in advance to the meeting.
  6. An agenda and related documents will be circulated to all members of the IWG in advance of all scheduled meetings.
  7. Decisions will be reached by consensus. When consensus cannot be reached, the Co-Chairs of the group shall present the different points of view to GRVA. The Co-Chairs may seek guidance from GRVA as appropriate.
  8. The progress of the IWG will be reported routinely to GRVA – wherever possible as an informal document and presented by the Co-Chairs.
  9. All documents shall be distributed in digital format. Meeting documents should be made available to the Secretary for publication on the dedicated website.
  10. Final decision on proposals rests with WP.29 and the Contracting Parties.
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