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World Forum for Harmonization of Vehicle Regulations

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Item 4.8.4 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRVA

Proposal for Supplement 2 to UN Regulation No. 157 (Automated Lane Keeping System (ALKS))

Submitted by the Working Party on Automated/Autonomous and Connected Vehicles *

The text reproduced below was adopted by the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) at its ninth session (ECE/TRANS/WP.29/GRVA/9, para. 26). It is based on ECE/TRANS/WP.29/GRVA/2021/17 as amended by Annex III to the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their June 2021 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2021 as outlined in proposed programme budget for 2021 (A/75/6 (part V sect. 20) para 20.51), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



Paragraph 9.3. (and subparagraphs), amend to read:

- "9.3. Requirements for software identification.
- 9.3.1. The vehicle manufacturer shall have a valid approval according to UN Regulation No. 156 (Software Update and Software Update Management System).
- 9.3.1.1. As specified in the Software Update and Software Update Management System Regulation, for the purpose of ensuring the software of the System can be identified, an R₁₅₇SWIN shall be used. The R₁₅₇SWIN may be held on the vehicle or, if R₁₅₇SWIN is not held on the vehicle, the manufacturer shall declare the software version(s) of the vehicle or single ECUs with the connection to the relevant type approvals to the Approval Authority.
- 9.3.2. The vehicle manufacturer shall provide the following information in the communication form of this Regulation:
- (a) The R₁₅₇SWIN;
 - (b) How to read the R₁₅₇SWIN or software version(s) in case the R₁₅₇SWIN is not held on the vehicle.
- 9.3.3. The vehicle manufacturer may provide in the communication form of this Regulation a list of the relevant parameters that will allow the identification of those vehicles that can be updated with the software represented by the R₁₅₇SWIN. The information provided shall be declared by the vehicle manufacturer and may not be verified by an Approval Authority.
- 9.3.4. The vehicle manufacturer may obtain a new vehicle approval for the purpose of differentiating software versions intended to be used on vehicles already registered in the market from the software versions that are used on new vehicles. This may cover the situations where type approval regulations are updated, or hardware changes are made to vehicles in series production. In agreement with the testing agency, duplication of tests shall be avoided where possible."
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