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1958 Agreement:

Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (R.E.3) submitted by the Working Parties to the World Forum for consideration, if any

Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (R.E.3)

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 twenty-second session (ECE/TRANS/WP.29/GRVA/22). It is based on ECE/TRANS/WP.29/GRVA/2025/28 as amended by informal document GRVA-22-11/Rev.2. It is proposed that this document amends Revision 7 as well as Revision 8, if adopted (See ECE/TRANS/WP.29/2025/146). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) for consideration at its November 2025 session.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), 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.



Annex 7., amend to read:

"Annex 7

Provisions on Software Identification Numbers

1. Introduction

UN Regulation No. 156 on uniform provisions concerning the approval of vehicles with regards to software update and software updates management system is defining "*R_x Software Identification Number (R_xSWIN)*" that means a dedicated identifier, defined by the vehicle manufacturer, representing information about the type-approval relevant software of the Electronic Control System contributing to the UN Regulation No. X type approval relevant characteristics of the vehicle.

In order to make use of R_xSWIN, relevant UN Regulations shall refer to and incorporate this annex to introduce relevant definitions and provisions as follows:

2. Definitions

For the purpose of this Consolidated Resolution and the UN Regulations referring to this annex:

- 2.1. "*R_x Software Identification Number (R_xSWIN)*" means a dedicated identifier, defined by the vehicle manufacturer, representing information about the type approval relevant software of the Electronic Control System contributing to the UN Regulation No. X type approval relevant characteristics of the vehicle.
- 2.2. "*Software*" means the part of an Electronic Control System that consists of digital data and instructions.
- 2.3. "*Software update*" means a package used to upgrade software to a new version, including a change of the configuration parameters.
- 2.4. "*Electronic Control System*" means a combination of units, designed to co-operate in the production of the stated vehicle control function by electronic data processing. Such systems, often controlled by software, are built from discrete functional components such as sensors, electronic control units and actuators and connected by transmission links. They may include mechanical, electro-pneumatic or electro-hydraulic elements. "The System", referred to herein, is the one for which type approval is being sought.

3. Necessary provision for the relevant UN Regulations

Note: The following paragraphs shall be integrated into or amended in the related Regulation (target regulation) referring to this annex.

In the "Definitions" paragraph of the target regulation, insert a new paragraph, to read:

- "x.x. For the definitions with regard to Software Identification Number, refer to the Consolidated Resolution on the Construction of Vehicles (R.E.3), Annex 7, paragraph 2."

In the "Modification and extension of the vehicle type" paragraph of the target regulation, insert a new paragraph, to read:

"x.x. The vehicle manufacturer may apply for 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 intended to be 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 Type Approval Authority or its Technical Service, duplication of tests for these approvals shall be avoided where possible."

In the relevant section related to specifications and/or tests, insert a new paragraph, to read:

"x.x. For all vehicles, equipment and parts with which the approval tests are performed, the manufacturer shall provide the Technical Service with information (e.g. software versions and system parameters) on all hardware and software that have an influence on performance with regard to this Regulation; this information shall be appended to the test report."

In the "Production definitively discontinued" paragraph of the target regulation, insert a new paragraph, to read:

"x.x. The production is not considered definitively discontinued if the vehicle manufacturer intends to obtain subsequent extensions of the approval for software updates of vehicles already registered in the market."

Paragraph III and IV, shall be deleted.

Paragraph V, amend to read:

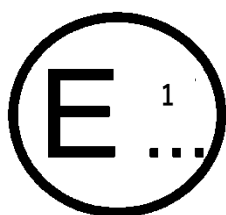
4. Necessary provisions in the Communication Form

Note: The communication form of the related Regulation referring to this annex shall include the mention of "Production definitively discontinued" and shall include the text below concerning "Additional information regarding software identification and software updates", as follows:

Communication

(Maximum format: A4 (210 x 297 mm))

issued by: Name of administration:



.....
.....
.....

Concerning;² Approval granted
Approval extended
Approval withdrawn with effect from dd/mm/yyyy
Approval refused
Production definitively discontinued

of a vehicle type, pursuant to UN Regulation No. [*this Regulation*]

Approval No.:

Extension No.:

¹ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

² Strike out what does not apply.

Reason for extension:

(...)

(...)

Additional information regarding software identification and software updates (where applicable):

R[*number of this Regulation*]SWIN:

Is the R[*number of this Regulation*]SWIN held on the vehicle²: Yes/No

Information on how to read the R[*number of this Regulation*]SWIN or software version(s) in case the R[*number of this Regulation*]SWIN is not held on the vehicle:

If applicable, list the relevant parameters that will allow the identification of those vehicles that can be updated with the software represented by the R[*number of this Regulation*]SWIN under the item above:"
