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World Forum for Harmonization of Vehicle Regulations

197th session

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Item 4.10.6 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing UN Regulations submitted by GRVA

Proposal for a new 01 series of amendments to UN Regulation No. 156 (Software Update and Software Update Management System)

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. 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 November 2025 sessions.

* 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.



Insert new paragraph 7.1.1.3., to read:

- "7.1.1.3. A process whereby the vehicle manufacturer assigns a dedicated RxSWIN for every Regulation No. X type approval to which the vehicle manufacturer executes software updates to type approval relevant software of the Electronic Control System contributing to the UN Regulation No. X type approval relevant characteristics.

Paragraphs 7.1.1.3. (former) to 7.1.1.12., renumber as paragraphs 7.1.1.4. to 7.1.1.13.

Insert new Paragraph 7.1.4., to read:

- "7.1.4. The vehicle manufacturer shall not execute software updates to vehicles approved to the 01 series of amendments of this Regulation already registered in the market, unless an RxSWIN has been assigned to every Regulation No. X type approval assessed during the performing of the process in paragraph 7.1.1.9."

Paragraphs 7.1.4. (former) to 7.1.4.2., renumber as paragraphs 7.1.5. to 7.1.5.2.

Paragraph 7.2.1.2., amend to read:

- "7.2.1.2. Requirements for RxSWIN:"

Insert new Paragraph 13., to read:

- "13. Transitional provisions
- 13.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 01 series of amendments.
- 13.2. As from 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the original version of this Regulation, first issued after 1 September 2028.
- 13.3. Until 1 September 2030, Contracting Parties applying this Regulation shall accept type approvals issued to the original version of this Regulation, first issued before 1 September 2028.
- 13.4. As from 1 September 2030, Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the original version of this Regulation.
- 13.5. Notwithstanding paragraphs 13.2. and 13.4., Contracting Parties applying this Regulation shall continue to accept type approvals issued to the original version of this Regulation, for vehicles which are not affected by the changes introduced by the 01 series of amendments.
- 13.6. Contracting Parties applying this Regulation shall continue to grant extensions of existing approvals issued to the original version of this Regulation."

Annex 1., amend to read:

"...

9. Software Updates
- 9.1. General construction characteristics of the vehicle type:
- 9.2. The number of the Certificate of Compliance for Software Update Management System:
- 9.3. Security measures.
- 9.3.1. Documents for the vehicle type to be approved describing that the update process will be performed securely
- 9.3.2. Documents for the vehicle type to be approved describing that the RxSWINs on a vehicle are protected against unauthorized manipulation.....

- 9.4. Software updates over the air
- 9.4.1. Documents for the vehicle type to be approved describing that the update process will be performed safely
- 9.4.2. How a vehicle user is able to be informed about an update before and after its execution.
- 9.5. Identification and accessibility of R_XSWIN
- 9.5.1. Information on how to read any R_XSWIN, or the relevant software version(s) in the case where the R_XSWIN is not held on the vehicle:
- 9.5.2. Description of how to access the information from the auditable register of all software versions relevant to any R_XSWIN:"

Annex 2., amend to read:

"...

8. Software updates over the air included (Yes/no):
9. Information on how to read any RXSWIN, or the relevant software version(s) in the case where the RXSWIN is not held on the vehicle:
10. Description of how to access the information from the auditable register of all software versions relevant to any RXSWIN:
- 9.11. Technical Service responsible for carrying out the tests:
- 10.12. Date of test report:
- 11.13. Number of test report:
- 12.14. Remarks: (if any).
- 13.15. Place:
- 14.16. Date:
- 15.17. Signature:
- 16.18. The index to the information package lodged with the Approval Authority, which may be obtained on request is attached."