Transmitted by the expert from France



Fraternité

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SOFTWARE UPDATES AND IDENTIFICATION

Implementation of Revision 8 to Consolidated Resolution No. 3 (R.E.3)



Background

Software updates

R156 provides requirements to ensure the safe management and deployment of software updates on vehicles that are already placed on the market.

Manufacturers must have processes in place to check if a software update affects type approved characteristics

If any approval to a UN Regulation is affected, the manufacturer must apply for an extension or a new approval before deploying the software update

All relevant UN Regulations must therefore accommodate software updates

Software identification

R156 gives a uniform standard for software identification called RXSWIN (Regulation No. X SoftWare Identification Number)

RXSWIN allows the quick identification of the exact approvals to all relevant UN Regulations where that software is involved

In parallel, identifying the **exact software equipped on vehicles tested** during approval is critical for traceability, as is already the case for the identification of hardware

DGEC/DCEEA/SD6/6A 2 10/11/2025



The amendments to R.E.3 (WP.29/2025/147)

Template for amending UN Regulations to:

- Define RXSWIN
- Allow manufacturers to apply for a new approval for purposes of software updates*
- Not consider production as "definitely discontinued" if the manufacturer intends to obtain extensions for software updates
- Include RXSWIN and related information on the communication form

AND

Require the exact software version of tested vehicles to be included in test reports



Which Regulations to amend?

Regulations where software is **always** involved

Example: AEBS

Regulations where software is **sometimes** involved

Example: underrun protection

Regulations where software is **never** involved

Example: external projections

Must be amended

Should not be amended

10/11/2025

Criteria to be eligible:

- UN Regulation applicable to **vehicles** of at least one category among M, N, O, R, S or T (Cat. L, components and STUs are not in scope of R156)
- At least one requirement can be affected by vehicle software

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Provisional list of relevant UN Regulations

GR	UN Regulations
GRBP (see GRBP-79-42)	51, 64, 138, 141, 142, 165
GRE (see GRE-90-27)	10, 45, 48, 86
GRPE (see GRPE-91-07)	24, 49, 68, 83, 85, 96, 101, 120, 154, 168
GRSG (see GRSG-130-42)	18, 36, 39, 46, 52, 55, 58, 67, 73, 93, 97, 102, 105, 107, 110, 116, 121, 122, 125, 144, 147, 151, 158, 159, 160, 161, 162, 163, 166, 169, 176
GRSP (see GRSP-75-29)	11, 12, 16, 17, 21, 32, 33, 94, 95, 100, 127, 134, 135, 137, 153
GRVA (see GRVA-18-34r1)	13, 13-H, 79, 89, 130, 131, 139, 140, 152, 155, 156, 157, 171, 175, 178

DGEC/DCEEA/SD6/6A 5 10/11/2025



Call for action

- GRs should amend their relevant Regulations as soon as possible to include the software-related provisions of Revision 8 to R.E.3
- Amending the Regulations can be done via supplements: no new requirements
- These amendments will allow OEMs to better implement R156, and will allow CPs to better trace and identify software on vehicles on the market after over-the-air updates are performed

DGEC/DCEEA/SD6/6A 6 16/07