

Amendment of the Resolution on the Construction of Vehicles (R.E.3)

Proposal: Introduction of Virtual Testing

Direction générale de l'Energie et du Climat
Sous-direction de la sécurité et des émissions des véhicules
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CONTEXT

The AEBS Regulations UN R152 for M1 and N1, and UN R131 for M2, N2, M3 and N3 have been amended by GRVA to introduce an alternative method for performing homologation tests using Virtual Testing.

It is based on specifications developed by GRVA/VMAD SG2 on credibility assessment

Virtual Testing Amendment on UN R152 and UN R131

Introduction +
Definition

Activity 1
Validation of the
toolchain

Activity 2
Approval Process

OBJECTIVE

➔ Promote a transversal approach in order to facilitate the introduction of Virtual Testing as an optional alternative of some of physical tests in relevant regulations

PROPOSAL

- ➔ **Add a new Annex 8 of the Resolution on the Construction of Vehicles (R.E.3) to introduce Virtual Testing as an alternative to physical tests**
- ✓ **Ensure consistency in how Virtual Testing is defined, validated, and applied across relevant regulations**
- ✓ **Avoid the repetitive and time-consuming process of amending each regulation separately**

Virtual Testing Amendment on
UN R152 and UN R131



New annex 8 on RE 3
Virtual testing generic
process for UN Regulation

Introduction +
Definition



Introduction +
Definition

Activity 1
Validation of the
toolchain



Activity 1

Activity 2
Approval Process



Necessary provision to be copy
pasted in the UN Regulation

Activity 2

PROPOSAL

- ➔ **Each GR may select the relevant regulations under its responsibility and introduce Virtual Testing as prescribed in the new annex of R.E.3**
(as it was done in Reg 152 and Reg 131)

- ➔ **Each GR may consider whether it is relevant or not to amend the regulations already using a Virtual Testing method with this new approach**
(as it could be in Reg 21, Reg 66 or Reg 29 as examples)

New R.E.3 annex proposal (see inf WP.29-197-14)

➔ **Add a new annex 8 in R.E.3 called : “Virtual Testing Guideline with regards to Tests for Approval”**

➤ **Introduction part**

- (a) Activity 1: The development, management, verification and validation of the toolchain; and,
- (b) Activity 2: The use of virtual testing results to conduct testing required for approval process.

➤ **Definitions and requirements part**

➤ **Necessary provisions for the relevant UN Regulations part**

With wording for the core of the concerned regulation and a new annex related to Activity 2:

- *Activity 2: The use of virtual testing results to conduct testing required for approval process*

NEXT STEPS

- ✓ **WP.29 feedback on the proposed approach**
- ✓ **Interested parties to reach out France (Pierre Bazzucchi) for questions/comments/suggestions**
- ✓ **If agreement, kindly request the GRSG 2026 session to consider WP.29-197-14 (or amended version) as a basis for discussion**
- ✓ **If necessary, depending on the received questions/comments/suggestions, workshop to be organized in between with interested parties**

Thank you for your attention

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