

# Status report of CS/OTA IWG

For 15th session of GRVA  
January, 2023

# Meetings (after 14th GRVA session)

- CS/OTA 23rd Session: Web meeting, 19 October 2022
- CS/OTA 24th Session: Web meeting, 1st & 2nd December 2022

# Outline of activities

1. Proposed amendment to UN R155 (Informal document: GRVA-15-05)
2. Proposed amendment to the interpretation document for UN R155 (Informal document: GRVA-15-06)
3. Questionnaire on possible software update cases

# 1. Proposed amendment to UN R155

(Informal document: GRVA-15-05)

Original text of:

- "4.1" of Annex 5, Part A, Table A1 – *Example of vulnerability or attack method*; and
- "4.1" of Annex 5, Part B, Table B1 – *Threats to "Vehicle communication channels"*  
"Spoofing of messages (e.g. 802.11p V2X during platooning, GNSS messages, etc.) by impersonation"

Amending to read:

- "Spoofing of messages by impersonation (e.g. ~~802.11p~~ V2X ~~during platooning~~ cooperative awareness or manoeuvre coordination messages, GNSS messages, etc.)"
- > Description generalized not specifying a specific protocol standard.

# 1. Proposed amendment to UN R155

(Informal document: GRVA-15-05)

- Corresponding mitigation "M10" to the amendment in Table A1:  
*"The vehicle shall verify the authenticity and integrity of messages it receives"*
- > No changes made.

Note: After discussions, including TFCS-24-06 regarding GNSS from the EU Space Agency, the group decided NOT to change the current text of mitigation "M10".

## 2. Proposed amendment to the interpretation document for UN R155

(Informal document: GRVA-15-06)

The intention of the proposed amendment is to:

- Clarify the version of the ISO/SAE standard referred to in the interpretation document.  
(ISO/SAE 21434 > ISO/SAE 21434:2021)
- Note ISO PAS 5112 which is the audit processes standard corresponding to ISO/SAE 21434:2021.
- Update the text regarding the alternative provisions concerning development phase for early approvals to correspond to the latest version of UN R155 as amended by Supplement 1 (see ECE/TRANS/WP.29/2022/54)
- Make minor editorials improvements and corrections.

### 3. Questionnaire on possible software update cases

- Current status of software update post registration

UNECE R156 provides uniform provisions on ensuring safe deployment of software updates (with/without hardware changes/upgrades) performed at any point of time during the lifetime of a vehicle.

However, certain aspects of modifications made after registration on a type level, for example adding/updating functionality, are not prescribed and are not allowed in certain countries.

Some countries require that once a vehicle is registered, it should remain in conformity with its type-approval or that only approved updates can be made to the vehicle.

### 3. Questionnaire on possible software update cases

- R156 regulatory text/interpretation document does not address post-registration updates in detail even though the primary intention of the regulation was to address updating software for vehicles in-service.
- Consequently, a manufacturer is obliged to enquire in every country if the modification has an impact on the registration of the vehicle and if an inspection by an authority is necessary.



### 3. Questionnaire on possible software update cases

- CS/OTA IWG has discussed identified software update cases and has distributed a questionnaire to CPs within the group (document number is TFCS-24-07) to gather further information on national implications.
- This may be used in the considerations of the next steps that the group may take.

Thank you