

Proposal for amendments to ECE/TRANS/WP.29/GRSG/2017/12

The text reproduced below was prepared by the expert from the Russian Federation in order to correct editorial errors, insert the proposal of GRSG-111-13 and provide additional information which hasn't been reflected in different parts of the document.

The modifications to ECE/TRANS/WP.29/GRSG/2017/12 are marked in bold for new characters and strikethrough for deleted characters.

I. Proposal

Scope, amend to read:

1.1. This Regulation applies to:

- (a) Part Ia: the approval of components which are intended to be fitted as part of an Accident Emergency Call Device (AECD).
- (b) Part Ib: the approval of AECDs which are intended to be fitted to vehicles of categories M1 and N1.
- (c) Part II: the approval of vehicles of categories M1 and N11 with regard to the installation of an AECD which has been approved to Part Ib of this Regulation.
- (d) Part III: the approval of vehicles of categories M1 and N11 with regard to their Accident Emergency Call System (AECS) **when equipped with or with regard to the installation of** (an) Accident Emergency Call Component(s) (AECC) which has (have) not been separately approved according to part Ia of this Regulation or ~~with regard to the installation of~~ an AECD which has not been separately approved according to Part Ib of this Regulation.

1.2 It does not apply to:

- (a) communication module functionality and communication antenna functionality, unless otherwise prescribed in this Regulation;
- (b) the additional data to the Minimum Set of Data (MSD) to be conveyed to Public Service Answering Party (PSAP), the format of the data, the mechanism and logic of data transmission, data exchange protocol, operation modes and conditions of transitions between such modes, performance of the test call and test data transfer, response to protocol commands received from infrastructure and network registration logic;
- (c) privacy, data protection and personal data processing;
- (d) Periodical Technical Inspection (PTI);
- (e) **automatic triggering of AECS in case of vehicle rollover.**

Definitions – General., the following paragraphs, amend to read:

...

- 2.1. "*Communication module*" means a component ~~of an AECD~~ designed for voice communication and to transmit data about an accident using Public Land Mobile Network (PLMN).

- 2.2. *"Human/Machine Interface (HMI)"* means a component or function of an AECD/AECC/AECS designed to allow the user to interact with the device, including by receiving visual information, obtaining visual information and introducing control commands.
- 2.3. "Data exchange protocol" means the set of rules and agreements that define the content, format, time parameters, sequence and error checks in messages exchanged between an AECC/~~or~~-AECD/AECS and the devices of a PSAP.
- ...
- 2.7. "Back-up power supply" means the component(s) that supplies(y) power to the AECC/~~or~~-AECD/AECS when the main power supply fails.
- ...
- 2.9. *"Global Navigation Satellite System receiver (GNSS receiver)"* means a component ~~of an AECD~~ designed to determine the vehicle positioning and time information using signals from global navigation satellite systems; the GNSS receiver can be included in the AECC/AECD/AECS or in another external control module, as long as the AECC/AECD/AECS ensures its ability to provide the vehicle positioning information in case of an event.
- ...
- 2.24. *"AECS (Accident Emergency Call System)"* means an AECC/AECD when installed in a vehicle.
- ...
- 2.27. *"Control module"* means a component ~~of an AECD~~ designed to ensure the combined functioning of all components of the AECC/AECD/AECS.
- 2.28. ***"Information signal device"* means a device that provides information on the status of the emergency call transaction.**
- 2.29. ***"Warning signal device"* means a tell-tale that provides a failure indication of the AECC/AECD/AECS.**
- 2.30. ***"Mobile Network antenna"* means a component that ensures the transmission of data and bidirectional audio signals for voice communication.**
- 2.31. ***"Multi-task display"* means a display on which more than one message can be shown simultaneously.**
- 2.32. ***"Total permissible mass"* means the vehicle's technically permissible maximum mass stated by the manufacturer.**
- 2.33. ***"R point"* means a reference point defined for each seat by the manufacturer in relation to the vehicle's structure, as indicated in Annex 8 to Regulation No. 94."**

Part Ia, the following paragraphs, amend to read:

- ~~3.2. *"Global Navigation Satellite System receiver" ("GNSS receiver")* means a component of an AECC/AECD/AECS designed to determine the vehicle positioning and time information using signals from global navigation satellite systems; the GNSS receiver can be included in the AECC or AECD or in another external control unit, as long as the AECC or AECD ensures its ability to provide the vehicle positioning information in case of an event.~~
- ~~3.3. *"Control module"* means a component of an AECC or AECD designed to ensure the combined functioning of all components of the AECD.~~
- 3.52.1 "Type of AECC" means devices that do not differ essentially in:

- (a) The manufacturer's trade name or mark;
- (b) The construction.”

4.1. The application for approval of a type of AECC shall be submitted by **the manufacturer or by his** ~~the holder of the trade name or mark or by their~~ duly accredited representative.

Part Ib, the following paragraphs, amend to read:

~~13.2. "AECD information signal device" means a device that provides information on the status of the emergency call transaction.~~

~~13.3. "AECD warning signal device" means a tell tale that provides a failure indication of the AECD.”~~

14.1. The application for approval of a type of AECD shall be submitted by **the manufacturer or by his** ~~the holder of the trade name or mark or by their~~ duly accredited representative.”

Part II, the following paragraphs, amend to read:

~~23.2. "Total permissible mass" means the vehicle's technically permissible maximum mass stated by the manufacturer.~~

~~23.3. "R point" means a reference point defined for each seat by the manufacturer in relation to the vehicle's structure, as indicated in Annex 8 to Regulation No. 94.~~

23.4.2 "AECS (Accident Emergency Call System)" means an AECD approved to Part Ib, when installed in a vehicle.

~~23.5. "Multi task display" means a display on which more than one message can be shown simultaneously.~~

~~23.6. "AECS information signal device" means a device that provides information on the status of the emergency call transaction.~~

~~23.7. "AECS warning signal device" means a tell tale that provides a failure indication of the AECS.”~~

24.1. The application for approval of a vehicle type equipped with an AECD shall be submitted by **the manufacturer or by his** ~~holder of the trade name or mark or by their~~ duly accredited representative.”

25. ~~If~~ **the** application for the installation of an AECD according to Part II of this Regulation **shall** make reference to AECD approval(s) obtained in accordance with Part Ib, the manufacturer shall provide a documentation package which gives access to the basic configuration of the AECD installation and the means by which it is intended to be linked (e.g. identification number) to the AECD of Part Ib.

Part III, the following paragraphs, amend to read:

- 32.2. "AECS" (Accident Emergency Call System) means an **AECC/AECD** not approved to Part **Ia/Ib** of this Regulation, when installed in a vehicle.
- ~~32.3. "Multi task display" means a display on which more than one message can be shown simultaneously.~~
- ~~32.4. "Total permissible mass" means the vehicle's technically permissible maximum mass stated by the manufacturer.~~
- ~~32.5. "R point" means a reference point defined for each seat by the manufacturer in relation to the vehicle's structure, as indicated in Annex 8 to Regulation No. 94.~~
- ~~32.6. "AECS information signal device" means a device that provides information on the status of the emergency call transaction.~~
- ~~32.7. "AECS warning signal device" means a tell tale that provides a failure indication of the AECD.~~
- ~~32.8. "Control module" means a component of an AECS designed to ensure the combined functioning of all components of the AECS.~~
- ~~32.9. "AECS control" means a hand operated part of the AECS that enables the driver to manually generate the triggering signal."~~
- 33.1. The application for approval of a type of vehicle equipped with an AECS shall be submitted by **the manufacturer or by his** ~~the holder of the trade name or mark or by their~~ duly accredited representative.
- 35.1.2. The **AECC/AECD** shall be connected to the vehicle's on-board electrical network, so that the **AECC/AECD** functions in all the required modes, and the backup power source (if fitted) is charged.
- 35.1.3. The installation of the **AECC/AECD** shall be such to obtain reception of the GNSS signal, and to access a PLMN.

Table 4:

PLMN communication device	Electrical connection / module communication failure	A failure in the module can be detected by the absence of digital communication between the AECC/AECD control module and the module.
	internal failure	Item necessary because it is a basic function: a failure implies that the AECS cannot perform its function.

Annex I, the paragraph 9b, amend to read:

9b. means by which AECC is intended to be linked to an AECD approval per paragraph 6.:

- Control module: yes/no²
- Communication module: yes/no²
- Back-up power supply: yes/no²
- Power supply: yes/no²
- Network access antenna: yes/no²
- Information ~~and warning~~ signal device: yes/no²
- GNSS antenna: yes/no²
- GNSS receiver: yes/no²
- Warning signal device: yes/no**

Annex 2, the paragraph 9c, amend to read:

9c. means by which the AECD is intended to be linked to subsequent installation of AECD of Part II approval per paragraph 16.1.:

- AECD information ~~and warning~~ signal device: yes/no²
- Hands-free audio equipment (micros and speakers): yes/no²
- Back-up power supply: yes/no²
- Power supply: yes/no²
- Network access device antenna: yes/no²
- GNSS antenna: yes/no²
- GNSS receiver: yes/no²
- Warning signal device: yes/no**
- Control module: yes/no²**

Annex 3, the following paragraphs, amend to read:

1. Trade name or mark of ~~vehicle device~~:
2. Manufacturer's name for the type of ~~device~~ **vehicle**:
...
9. Brief description
- 9a. documentation package per paragraph 25.:
- 9b. means by which the ~~vehicle AECD~~ is intended to be linked to an AECD approval according to Part 1b of this Regulation per paragraph 25. **(Including trade name or mark of AECD, manufacturer's name and approval number)**:

Annex 4, the following paragraphs, amend to read:

1. Trade name or mark of ~~vehicle device~~:
2. Manufacturer's name for the type of ~~device~~ **vehicle**:

Annex 5, the following paragraphs, amend to read:

- ~~10. Back up power supply: yes/no~~
- ~~11. Internal crash control unit: yes/no~~
10. **Combination of the AECC's components:**
 - **Control module: yes/no**
 - **Communication module: yes/no**
 - **Back-up power supply: yes/no**
 - **Power supply: yes/no**
 - **Network access antenna: yes/no**
 - **GNSS Receiver: yes/no**
 - **GNSS Antenna: yes/no**
 - **Warning signal device: yes/no**
 - **Information signal device: yes/no**

Annex 6, the following paragraphs, amend to read:

10. Back-up power supply: yes/no
- ~~11. Internal crash control unit: yes/no~~
12. **Warning signal device: yes/no**
13. **Information signal device: yes/no**
14. **Hands-free audio equipment: yes/no**
15. **Network access antenna: yes/no**
16. **GNSS antenna: yes/no**
17. **GNSS receiver: yes/no”**
18. **Power supply: yes/no**
19. **Control module: yes/no**
20. **Communication module: yes/no**

II. Justification

The detailed justification of the proposal is provided below:

1. Scope:

- AECS means AECD or AECC which installed in a vehicle and therefore it doesn't correct to use "or" in respect with AECS and AECD/AECC. The proposed correction provided in the text.
- Additional provisions have been added concerning excluding of verification AECS triggering in case of vehicle rollover. The mentioned provisions were discussed during 111th session of GRGS (informal document - GRSG-111-13) but have not been reflected in draft UN Regulation.

2. Definitions:

The proposal is to delete the common definitions from different parts of the text and provide them in General definition to avoid misleading. The corrections of concrete definitions are also provided in the proposal.

3. Parts I-III

It's proposed to correct the provisions concerning applying for approval by the manufacturer or his duly accredited representative (which is aligned with the same provision in other later agreed UN Regulations).

4. Communication and Information document (Annex 1-8)

The proposal is aimed to correct editorial errors and align the set of components of AECC/AECD/AECS with the information prescribed through the text of draft UN Regulation.

In case of adoption of the proposals above, the text of draft UN Regulation should be checked and corrected in respect with the number of paragraphs and references through the text.