

## Regulation No. XXX

### UNIFORM PROVISIONS CONCERNING THE APPROVAL OF I EMERGENCY CALL DEVICES (AECD) II VEHICLES WITH REGARD TO THE INSTALLATION OF AN AECD OF AN APPROVED TYPE III VEHICLES WITH REGARD TO THEIR AECS

#### Contents

#### Preliminary comments from the Netherlands

1. This document was produced by the Netherlands amending working document AECS-02-02-Rev.2 incorporating paragraph 6 of Part I of the proposal from CLEPA.
2. This document aims to clarify the approval process of a type of AECD according to Part I and the installation in a vehicle according to Part II where mutual (overlapping) functions/verifications are part of the approval to either Part I or Part II.
3. This proposal includes the verification ‘AECD information and warning signal’ only. The same should apply for other possible verifications like ‘emergency call control assessment’ after the group made a final decision what verifications to include in which Part(s).
4. Modifications are marked in red colour.

#### Part I: EMERGENCY CALL DEVICES (AECD)

##### 6. General requirements

###### 6.1 Base function and operation principles

The AECD shall send data and establish voice connection with the PSAP.

If the sending of data failed then the AECD shall retry sending the data.

If the AECD has successfully sent the data and then loses the voice connection, it shall try to reestablish voice connection.

In case it was not possible to establish voice connection and/or send data using mobile communication networks, the AECD shall store the data in non-volatile memory and attempt re-transmission of the data and to establish a voice connection.

~~[Whenever, a third party emergency system is installed in the vehicle compliant with regional or national standards for private Ecall [e.g. for EU CEN 16102:2011 standard “Operating requirements for third party support” (TPS Ecall)], the driver has the free choice to use this system. It has to be ensured that there is only one system active at a time”].~~

*(Note: Changing the order (from 6.4) and deletion of square bracket part)*

- ~~[6.2-6.4~~ The effectiveness of AECD shall not be adversely affected by magnetic or electrical fields. This requirement shall be met by ensuring compliance with the technical requirements and transitional provisions of Regulation No. 10.05]

~~6.2~~ Reception and processing of navigation signals

~~The testing procedures in Annex 5 can be performed either on the AECD unit including post processing ability or directly on the GNSS chipset.~~

6.3 Mean of access to mobile networks

The AECD shall be fitted with an embedded hardware allowing registration/authentication on and access to the mobile network

*(Note: Original 6.4 has been moved to 6.1)*

~~6.4-6.5~~ AECD information and warning signal

~~The following provisions are applicable if the AECD warning signal verification is not part of the installation approval of an AECD in a vehicle per Part II of this regulation.~~

If the applicant for approval so requests, the AECD warning signal verification may be part of the approval of a type of AECD. **In this case and the following provisions shall apply.**

~~6.4.1-6.5.1.~~ Information shall be provided regarding the status of the connection when the AECD is automatically or manually activated.

~~6.4.2-6.5.2.~~ A warning signal shall be provided ~~to the driver~~ when the AECD is not functioning properly.

6.4.3. Instead of providing information or warning signal, AECD may provide the electric signal to other vehicle components, e.g. instrument panel, which enable to provide information or warning signal.

~~6.5.3.~~ AECD Control

~~If the emergency call control assessment is not part of the AECD approval per Part II of this regulation, the emergency call control assessment shall be conducted according to the procedure let down in Annex XXX, paragraph XXX~~

~~6.5-6.6.~~ Power supply

The AECD shall be able to operate autonomously for a period of first not less than 5 minutes in voice communication (definition to be added – Qualcomm future email) mode followed by 60 minutes in call-back (definition to be added) mode and finally not less than 5 minutes in voice communication mode.

This capability is tested in following conditions:

- battery has to be fully charged at the time the test begins, at the discretion of the applicant;
- Ambient air temperature:  $(25 \pm 10)^\circ\text{C}$

~~6.6-6.7~~ Resistance to impact

The AECD shall remain operational after impact. This shall be demonstrated according to Annex xx , or verifications described in ww after the collision described in yy or zz .

## Part II VEHICLES WITH REGARD TO THE INSTALLATION OF AN AECD OF AN APPROVED TYPE

### 14. Approval

- 14.1. If the vehicle type submitted for approval pursuant to this Regulation meets the requirements of paragraph 15 and 16. below, approval of that vehicle type shall be granted.

Before granting approval for a vehicle type with regard to the installation of an AECD approved to Part I of this Regulation, the competent authority shall ~~verify whether~~ ensure that the verifications not being part of the Part I approval are included in the Part II approval.

Approval may be granted according to one of the approval procedures let down in Table 1:

Approval procedure	HMI	Triggering signal emission	Resistance to impact	GNSS and mobile communication
Procedure I	Paragraph 15.2. Paragraph 15.3.	Paragraph 16.1.1. Paragraph 16.1.2.	Paragraph 16.2.1. Paragraph 16.2.2.	Paragraph 16.3.1.
Procedure II				Paragraph 16.3.2.
Procedure III		Paragraph 16.1.3.	Paragraph 16.2.3.	Paragraph 16.3.1. Paragraph 16.3.2. Paragraph 16.3.3.

Table 1: approval procedures

- 14.2. An approval number shall be assigned to each type approved. The first two digits (at present 00) shall indicate the series of amendments incorporating the most recent major technical amendments made to the Regulation at the time of issue of the approval. The same Contracting Party shall not assign the same number to another type of vehicle.
- 14.3. Notice of approval or of refusal, or of extension or withdrawal of approval, or of production definitively discontinued of a type of vehicle pursuant to this Regulation shall be communicated to the Parties to the Agreement which apply this Regulation by means of a form conforming to the model in annex 3 to this Regulation.
- 14.4. There shall be affixed, conspicuously and in the space referred to in paragraph 14.2 above, to every vehicle conforming to a type approved under this Regulation, in addition to the mark prescribed in paragraph 4.1., an international approval mark conforming to the model given in annex 5, consisting of:
- 14.4.1. A circle surrounding the letter “E” followed by the distinguishing number of the country which has granted approval;
- 14.4.2. The number of this Regulation, followed by the letter “R”, a dash and the approval number to the right of the circle prescribed in paragraph 14.4.1.
- 14.5. The approval mark shall be clearly legible and be indelible.

## Annex ?? – Example:

### Communication

(Maximum format: A4 (210 x 297 mm))



issued by :

Name of administration:

.....  
.....  
.....

1

concerning<sup>2</sup>:  
Approval granted  
Approval extended  
Approval refused  
Approval withdrawn  
Production definitively discontinued

of a type of AECD intended to be fitted to vehicles of categories M1 and N1 pursuant to Regulation No. ??

Approval No. .... Extension No. ....

1. Trade name or mark of device: .....
2. Manufacturer's name for the type of device:.....
3. Manufacturer's name and address: .....
4. If applicable, name and address of manufacturer's representative: .....
5. Submitted for approval on: .....
6. Technical Service responsible for conducting approval tests: .....
7. Date of report issued by that Service.....
8. Number of report issued by that Service .....
9. Brief description .....
- AECD information and warning signal: yes/no.....**
10. Position of the approval mark: .....
11. Reason(s) for extension (if applicable): .....
12. Approval granted/refused/extended/withdrawn<sup>2</sup>:
13. Place: .....
14. Date: .....
15. Signature: .....
16. The list of documents deposited with the Type Approval Authority which has granted approval is annexed to this communication and may be obtained on request.

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<sup>1</sup> Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulations).

<sup>2</sup> Strike out what does not apply.