

UNECE AECS

Non Paper regarding  
component approvals

## background

A component based approval would allow:

- To use one component for various AECS system configurations
- Smaller modifications of an AECS system can be handled at AECD level
- Individual suppliers can obtain an AECD approval for individual components that are used in variety of emergency call systems
- Flexibility to select an approval route in function of supply chain responsibility and OEM responsibility (one box solutions, individual components, semi-integrated and fully integrated ecall systems)

Positioning function can be:

- Dedicated AECS positioning module within AECD unit
- Take info from vehicle navigation module
- ...

GNSS antenna can be:

- External antenna dedicated to AECS
- External antenna for navigation system
- Antenna integrated in AECD unit
- .....

MNO antenna can be:

- External antenna dedicated to AECS
- External antenna for other Vehicle communication functions
- Antenna integrated in AECD unit
- .....

Can be:

- Dedicated eCall power supply
- 12V starter battery
- traction battery
- ....

Trigger detection can be

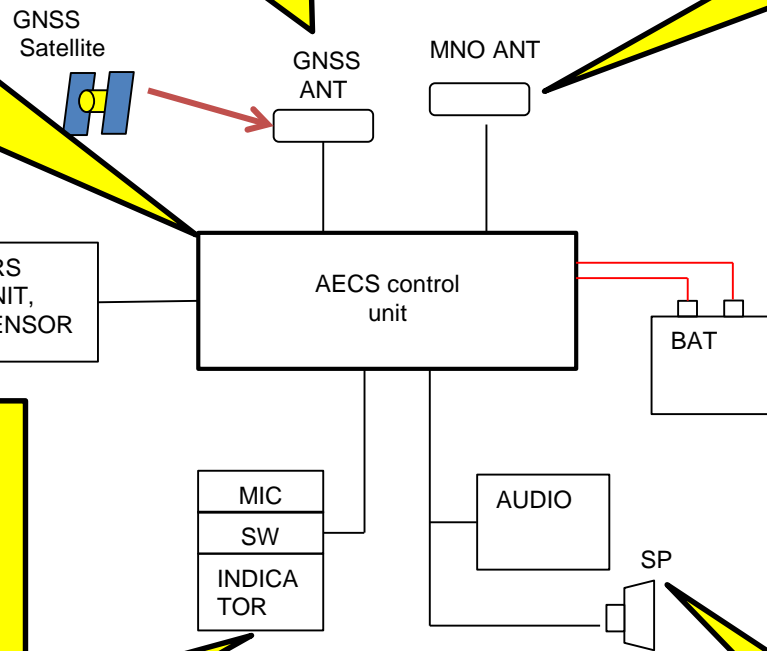
- Dedicated AECS crash sensor
- Take signal from vehicle SRS unit
- ...

Indicator can be:

- AECS indicator integrated in AECD
- Separate indicator in instrument panel/common place
- ...

Audio can be:

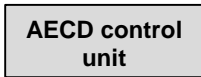
- Dedicated AECS audio speaker/micro
- Integrated with vehicle audio
- ....



# Current AECD

Supplier or Manufacturer → Component set → Sled test → Function check → AECD approval

### 1. AECD control unit



With intended fixation & part of wire harness

### 2. Mobile Network antenna

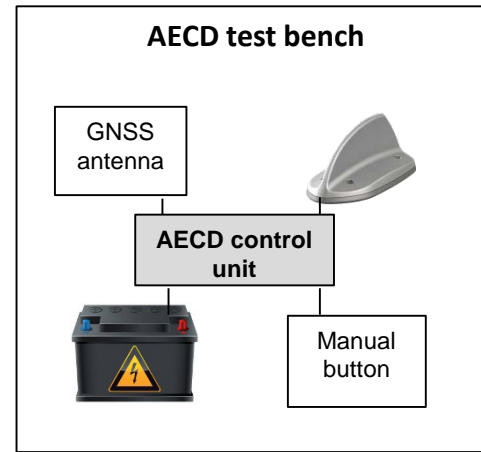


With intended fixation & part of wire harness

### 3. Main power supply If no back-up battery



w/o fixation



Mobile network or Mobile network simulator



Incl. other requirements if requested by applicant  
Par. 7.1 EMC  
Par. 7.2 Position (& Annex 8)  
Par. 7.4 Means of access to MNO  
Par. 7.5 AECD information and warning signal  
Par. 7.6 Power supply



A

# Individual components as AECD

Supplier

Individual Components

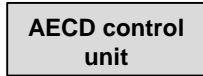
Sled test

Function check

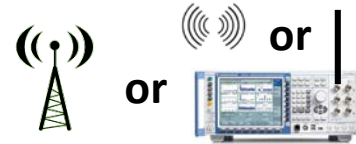
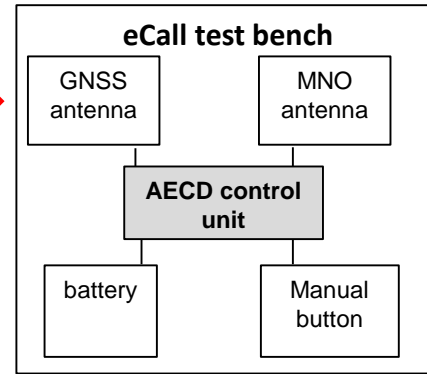
AECD approvals

A

1. AECD control unit



With intended fixation & part of wire harness



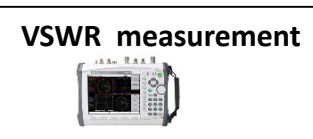
Incl. other requirements if requested by applicant  
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 Par. 7.5 AECD information and warning signal  
 Par. 7.6 Power supply

B

2. Mobile Network antenna



With intended fixation & part of wire harness



C

3. Main power supply  
 If no back-up battery



w/o fixation



Proposed as additional flexibility in UNECE part I

# AECS approval

## AECD approvals



Incl. other requirements if requested by applicant

Par. 7.1 EMC

Par. 7.2 Position (& Annex 8)

Par. 7.4 Means of access to MNO

Par. 7.5 AECD information and warning signal

Par. 7.6 Power supply



1. Check which part I requirements are already covered.

2. AECS requirements (if not covered already by AECD

- General installation
- Full scale impact test
- Positioning AECS Control
- Information signal
- warning signal
- HF Audio
- Power supply

3. AECS approval

