

64th GRB

EU Regulation on AVAS requirements

Presentation by the European Commission expert



Detailing requirements of Acoustic Vehicle Alerting System (AVAS)

- Commission empowered to detail by 1/7/2017 AVAS requirements that are already in Annex VIII to Reg. (EU) No 540/2014
- Commission Delegated Regulation taking into account the UNECE relevant work (UN R138 on QRTV)



UNECE Regulation No 138

- M and N QRTVs concerned
- AVAS requirements included only acoustic devices addressed to
 A) Technical
 - Definitions, speed range of operation, min vehicle sound for at least two 1/3 octave bands, max vehicle sound 75 dB(A) in forward motion, frequency shift, tests for sound emission (forward and reverse), stationary sound (optional), AVAS pause function (switch): optional

B) Administrative

- Type approval (procedures for application, modification, extension and related certificate and marking), CoP, penalties, Technical Services data
- Communication and marking models in Annexes 1 & 2



Commission Delegated Regulation amending Regulation (EU) No 540/2014 of the European Parliament and of the Council as regards the Acoustic Vehicle Alerting System requirements for vehicle EU type-approval

- > Legal obligations:
- to detail the requirements in Annex VIII by completing them <u>only</u>
- to have the AVAS mandatory on all new EV and HEV types by 1/7/2019 and all new EV and HEV by 1/7/2021
- Articles
- 1) Amendment of Annex VIII to Reg. 540/2014
- 2) Entry into force



Annex

- Based on the technical requirements drafting in Annex VIII, Reg. 540/2014
- Completing the technical requirements of Annex VIII, Reg. 540/2014 by referring to requirements of UN R138
- Copying the necessary admin requirements from UN R138



Annex (cont'd)

A) Technical requirements

- Accepting from UN R138 the definitions of "Pause function" and "Frequency shift"
- 2) The AVAS sound generation requirement in forward motion and reverse as in Reg. 540/2014
- + from UN R138: requirements on testing, min vehicle sound level and frequency shift when no AVAS in reverse, due to vehicle warning alarm



- Annex (cont'd)
- 3) Pause switch

From UN R138

- + Pause function (new term)
- + Optional to be amended following the UN Reg. final decision
- + Complying with the requirements in UN R138
- 4) Attenuation
- Requirement from Reg. 540/2014
- + from UN R138: min sound level & frequency shift



- Annex (cont'd)
- 5) Sound produced

As in Reg. 540/2014

- Continuous to warn pedestrians and other road users
- Indicative of the vehicle operation

From UN R138:

- + Frequency shift
- + Optional stationary noise, complying with the attenuation requirements of this Regulation, if attenuated
- + Driver selectable sounds



- Annex (cont'd)
- 6) Sound volume

As in Reg. 540/2014

- + from UN R138: overall vehicle sound level 75 dB(A) in forward motion
- 7) Transitional provisions
- + On test track: from ISO 10844:1994 (till 30 June 2019) to ISO 10844:2014 (from UN R138)



- Annex (cont'd)
- B) Administrative requirements copied from the UN R138
- + Communication (type-approval certificate) & its model
- → Marking on vehicle & its model



Next steps

First comments from MVWG done

New draft incorporating comments
 September 2016

Discussion of new draft in dedicated MSEG and / or

comments in writing October 2016

ISC end 2016-start 2017

• Adoption Q1 2017



Thank you for your attention

DG GROW - Unit C4

Further information:

http://ec.europa.eu/growth/sectors/automotive/index_en.htm





Follow us on:

You Tube youtube.com/c/EUGrowth

ec.europa.eu/growth