



**Member States Expert Group – MSEG
24 January 2017**

Regulation on AVAS requirements

State of play

- **New draft incorporating comments (accomplished)** 12 Jan 2017
- **MSEG comments (if any)** 31 Jan 2017
- **ISC (with review)** 13 Feb – end Mar 2017
- **Presentation of final draft in MSEG** 6 Apr 2017
- **Better Regulation Portal (accomplished)** end Apr 2017 (latest)
- **Adoption** June 2017

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**
- **Result of current UNECE work:**
 - **UNECE Regulation No 138 on QRTV adopted in the 168th WP29 (March 2016)**
 - **UNECE R138 amendment 01 for AVAS pause switch – common proposal by Japan and OICA adopted by the 64th GRB (5-7 Sept 2016) for optional pause switch**

UNECE Regulation No 138

Uniform provisions concerning the approval of Quiet Road Transport Vehicles with regard to their reduced audibility

- **Scope** : approval requirements with respect to audibility of electrified M and N vehicles driven, in at least one forward drive gear or in reverse, without an ICE operating
 - ***AVAS requirements included*** – only acoustic devices addressed to

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Commission Delegated Regulation amending and supplementing 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*
- *to have the AVAS 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 Annexes I and VIII to Reg. 540/2014
- 2) Entry into force

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Requirements

- 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
- *Accepting* the necessary *admin* requirements from UN R138 alternatively to corresponding admin requirements of the EU legislation (Annex I, Reg. 540/2014)

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A) *Technical requirements*

- 1) Reference to EU OJ number L9/13.1.2017 (UNECE R138, base version)
- 2) Accepting the definition of "Pause function" as in UN R138, 01 amendment
- 3) The AVAS sound generation requirement in forward motion and reverse as in Reg. 540/2014 or

the overall sound emission of the vehicle without AVAS in accordance to UNECE R138: DE, FR request for not installing AVAS if compliant with this overall sound emission condition

- 4) Requirements on testing, min vehicle sound level and frequency shift when no AVAS in reverse, due to vehicle warning alarm

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5) Pause switch

- Called pause function
- Optional
- To comply with the requirements in UN R138 (common position of Japan and OICA as adopted at the 64th GRB)

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B) Administrative requirements accepted from the UN R138

UN R138 type-approval certificate (communication) accepted and attached to the vehicle EU type-approval certificate with respect to sound emission

(Model of Communication for UN type-approval introduced)

or the EU test results attached as in Reg. 540/2014

- information document and the type-approval certificate of the vehicle, as laid down in Reg. 540/2014 and Dir. 2007/46, suitably modified



Thank you for your attention

DG GROW – Unit C4

Further information:

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



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