

# List of relevant GRE Regulations for software updates

This document was prepared by the expert from France. It proposes a list of the relevant UN Regulations and Global Technical Regulations (GTRs) under the purview of GRE, for the purposes of software updates.

## I. List of relevant UN Regulations and GTRs

Regulation	Title	Relevant (Yes/No)
UN Regulations No. 1, 3, 4, ...	<i>Various Regulations on lighting and light-signalling devices</i>	No <sup>1</sup>
UN Regulation No. 10	Electromagnetic compatibility	Yes <sup>3</sup>
UN Regulation No. 45	Headlamp cleaners	Yes <sup>2</sup>
UN Regulation No. 48	Installation of lighting and light-signalling devices	Yes <sup>3</sup>
UN Regulation No. 53	Installation of lighting and light-signalling devices for motorcycles	Yes <sup>3,4</sup>
UN Regulation No. 74	Installation of lighting and light-signalling devices for mopeds	Yes <sup>3,4</sup>
UN Regulation No. 86	Installation of lighting and light-signalling devices for agricultural vehicles	Yes <sup>3</sup>
UN Regulation No. 148	Light-signalling devices	No <sup>1</sup>
UN Regulation No. 149	Road illumination devices	No <sup>1</sup>
UN Regulation No. 150	Retro-reflective devices and markings	No <sup>1</sup>

## II. Justification

During the 191<sup>st</sup> session of WP.29, the World Forum requested that all subsidiary Working Parties consider the list of the Regulations under their respective purview that may be relevant for the purposes of software updates (see ECE/TRANS/WP.29/1175, para. 37). This identification of relevant Regulations is necessary to introduce the provisions on identification and update of software in each relevant Regulation, using the guidance provided in Annex 7 of the Consolidated Resolution on the Construction of Vehicles (R.E.3).

This document proposed a list of the UN Regulations and GTRs under the purview of GRE that may be relevant for the purposes of software updates. In particular, the annotated Regulations in the table above correspond to the following comments:

1. Only Regulations that apply to vehicles are relevant for the purposes of software updates. Regulations that only apply to devices, components or systems are not relevant in the context of R.E.3. Annex 7.
2. UN Regulation No. 45 on headlamp cleaners includes provisions for the approval of vehicles with regard to headlamp cleaners, and is thus relevant for software updates.
3. All Regulations containing provisions for electronic systems are relevant for the purposes of software updates, even if these systems are not mandatory, and even if these systems are neither necessarily affected by software updates nor necessarily relevant for regulatory requirements. For these Regulations, whether or not a given approval should consider software updates will depend on the type of vehicle submitted for approval;
4. UN Regulations No. 53 and 74 only apply to vehicles of Category L, which are not currently included in the scope of UN Regulation No. 156 on software updates. However, they remain relevant for the purposes of software updates.

Furthermore, some of the Regulations are not currently relevant for the purposes of software updates, but could become relevant if new provisions are introduced.