



Submitted by the expert
from OICA

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13th GRVA, 23 - 27 May 2022
Provisional agenda item 7

AEBS Regulation

Common interpretation of “new engine start/run cycle”

GRVA-13, May 23-27, 2022

Background

- Industry is experiencing different interpretations of paragraph 5.4.1.1 of UN R152 (as amended by supplement 1 to 02 series).
- The aim of this presentation is to propose an interpretation of the text.
- Depending on the feedback from GRVA, the text could be kept as it is (and UN R131 could then be aligned on UN R152), or would need an amendment for clarification.

Two different interpretations of UN R152

5.4.1.1. The AEBS function shall be automatically reinstated at the initiation of each **new engine start/run cycle**. This requirement does not apply when a new engine start/run cycle is performed automatically, e.g. the operation of a stop/start system.

What is the interpretation of **new engine start/run cycle** ?



Interpretation 1.

new 'engine start' / 'run cycle'

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AEBS shall be reinstated at each new 'engine start' or new 'run cycle', at the choice of the manufacturer



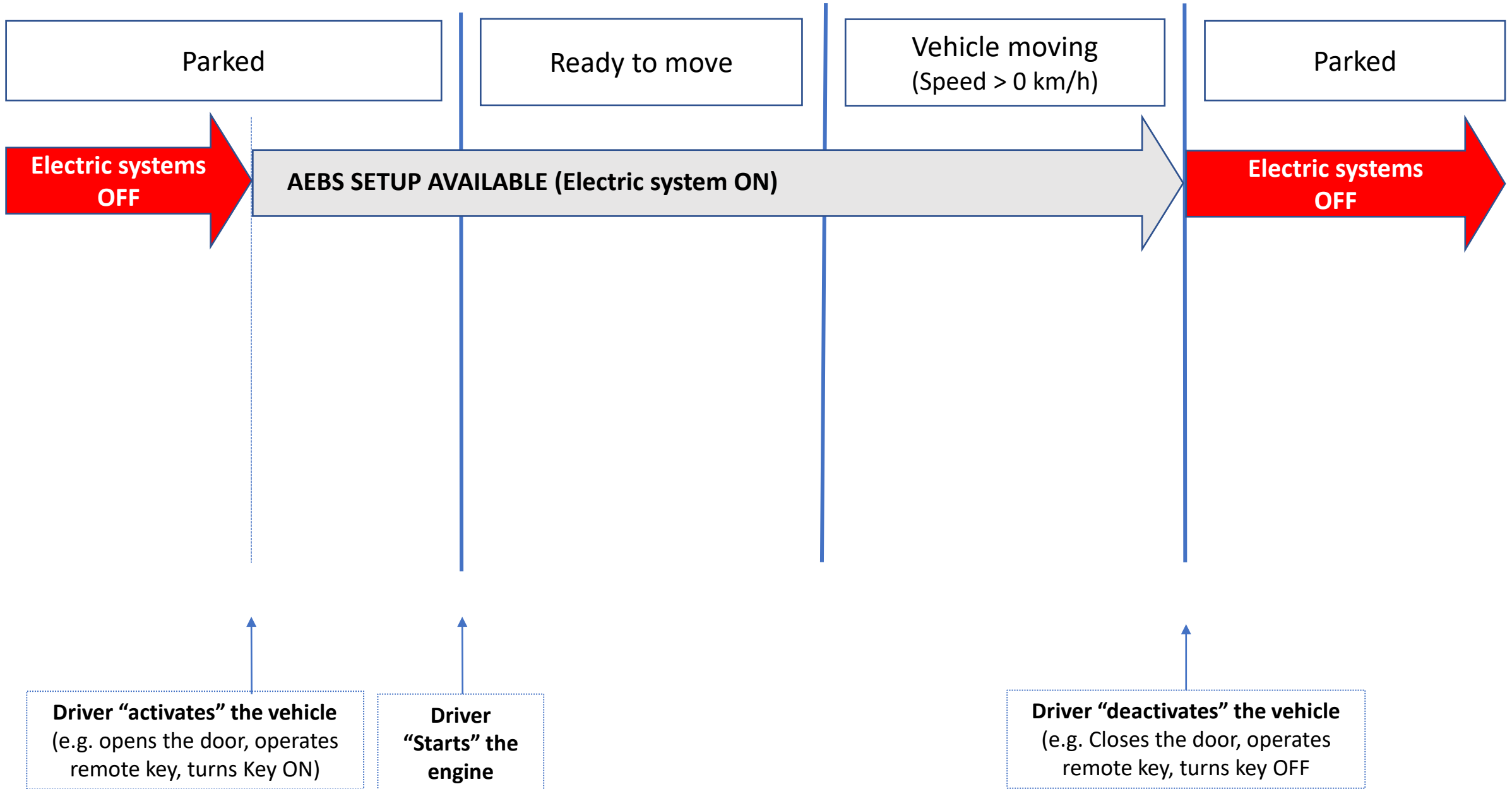
Interpretation 2.

new engine 'start/run' cycle

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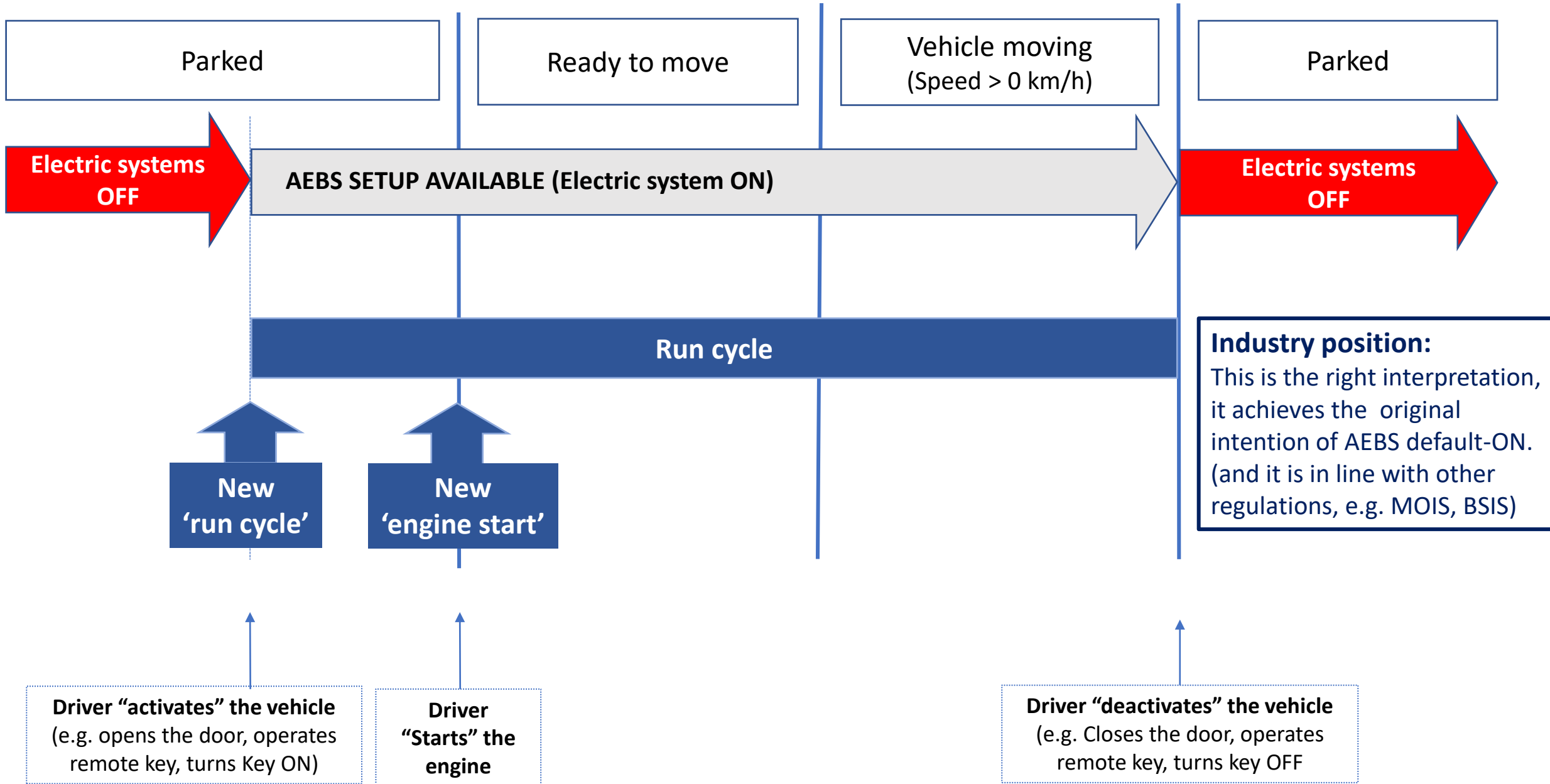
AEBS shall be reinstated at each new engine 'start or run' cycle

Different implementations



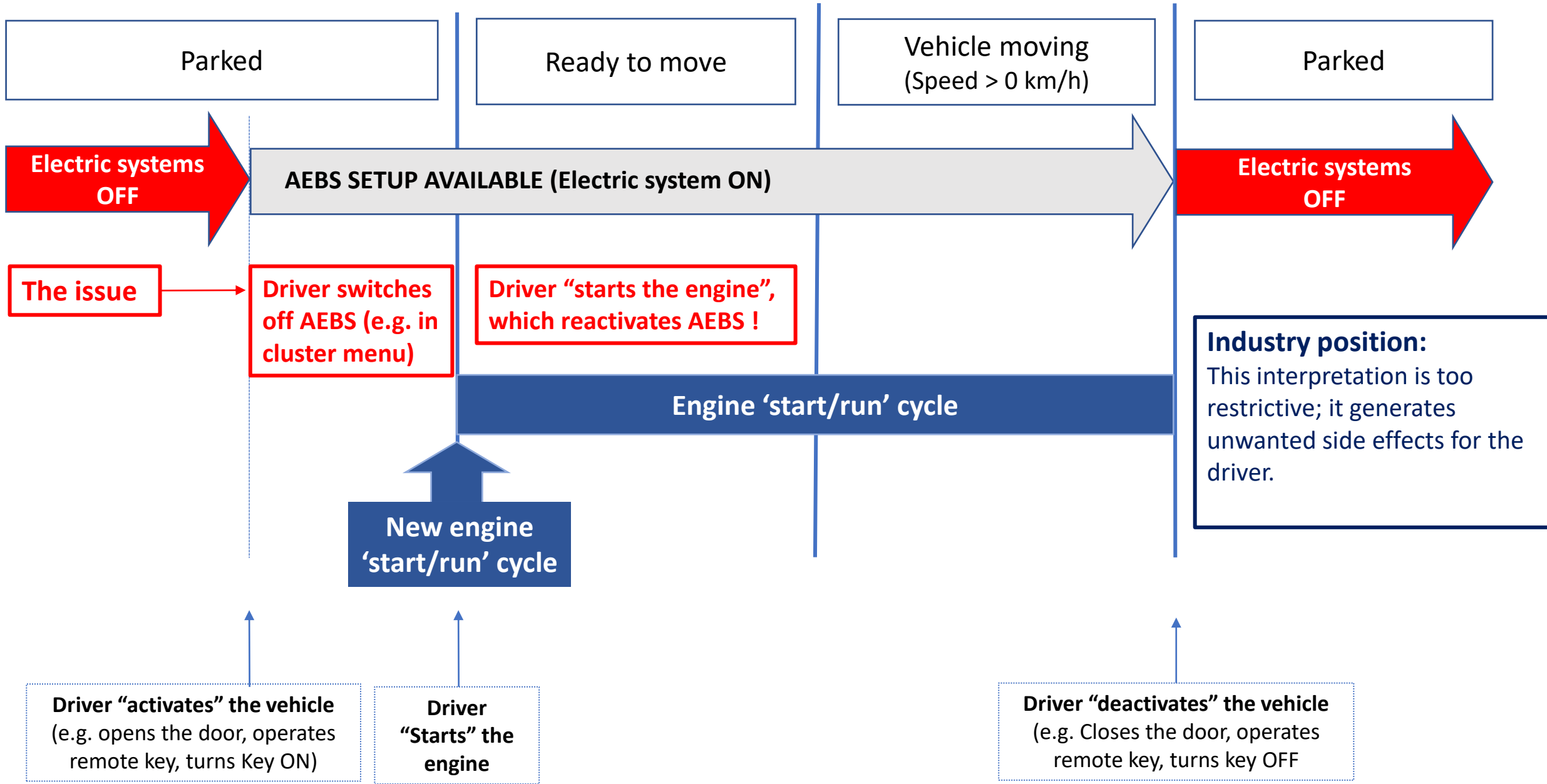
Interpretation 1

AEBS shall be reinstated at each new 'engine start' or new 'run cycle'



Interpretation 2

AEBS shall be reinstated at each new engine 'start or run' cycle



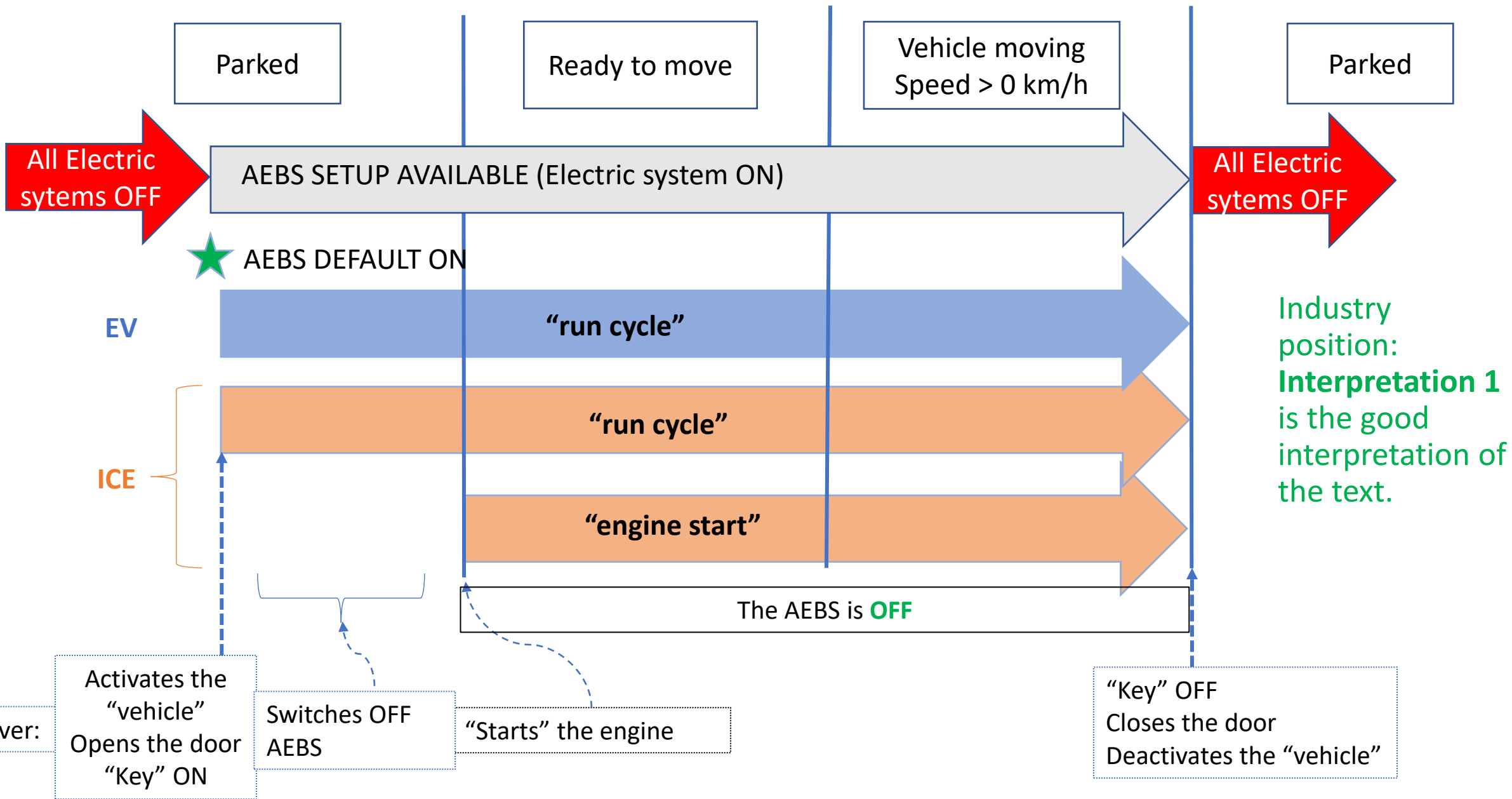
Conclusions

- If GRVA agrees with interpretation 1, then it is not strictly needed to amend UN R152 (unless GRVA would like to bring more clarity in the text*). GRVA-13 may then want to align UN R131 on UN R152.
- If GRVA does not agree on the interpretation, a short term amendment of R152 and R131 should be discussed.
- Important note: the wording of “default-on” requirements differ among several regulations (R13, R13H, R79, R152, R131, but also some GRSG regulations). A more long-term work might be beneficial to align the different wordings.

** e.g. by adding some quotes: new ‘engine start’ / ‘run cycle’*

backup

Interpretation 1: "new engine start" or "new run cycle"



Interpretation 2: "new engine 'start or run' cycle"

