

ADS IWG Working Document
Change Proposal Form
One major comment per form
(Shaded blocks for use by the IWG Secretariat)

Document Reference Date

Agenda item

Proposed by (affiliation only—no personal information)
United Kingdom

Summary of Change (25 words or less)
To address open item 'Other provisions' item 2 on cybersecurity and software updating.
To introduce requirements for resilience to electromagnetic interference.

Reason for Change (Justification)
To address the open item on cybersecurity and software updating.
This amendment also introduces requirements for the ADS to be resilient to electromagnetic interference.

Location

Original text
(Reference document ADS-10-05)
5.3. Other Requirements
5.3.1. [Requirements specific to cyber security of ADS installed on vehicles]
5.3.2. The manufacturer shall include a robust process in the SMS to ensure that post-deployment software updates are properly validated and distributed and downloading is confirmed.
6.3.1.8. The manufacturer shall describe measures taken to assure the cybersecurity of the ADS and the analysis performed to identify and disposition likely security threats. Where UN R 155 applies, the manufacturer shall describe how the ADS meets the requirements of that regulation.

6.3.1.10. [Software updates & Safety Case updates as per 6.1.5.2] 6.3.1.11. [The manufacturer shall demonstrate that software updates are validated and confirmed in accordance with SMS section [6.1.5.9] [UNR156].]

Revised text

Replace the existing text of 5.3.1 and 5.3.2 with the following:

5.3.1. The ADS shall be protected from cyber threats.

Additional UNR text – This requirement shall be demonstrated by compliance with the requirements of UN Regulation No. 155 according to its original version or later series of amendments.

Additional GTR text – This requirement shall be demonstrated by compliance with the requirements of Annex [X].

5.3.2 The ADS shall support safe and secure software updates.

Additional UNR text – This requirement shall be demonstrated by compliance with the requirements of UN Regulation No. 156 according to its 01 or later series of amendments.

Additional GTR text – This requirement shall be demonstrated by compliance with the requirements of Annex [Y].

Delete the existing text of 6.3.1.8 and 6.3.1.10 (safety case text on cyber security and software updating)

Insert standard text for UN regulations on software identification (RxSWIN) in line with Consolidated Resolution on the Construction of Vehicles (R.E.3):

[UNR only] In the "Definitions" chapter, insert a new paragraph to read:
"x.x. For the definitions with regard to Software Identification Number, refer to the Consolidated Resolution on the Construction of Vehicles (R.E.3), Annex 7, paragraph 2."

Commented [MB1]: Note - annex X is based on the cyber security requirements of the published GRVA document "Recommendations on uniform provisions concerning cyber security and software updates" amended to apply to the cyber security of the ADS specifically

<https://unece.org/transport/documents/2022/04/working-documents/grva-proposal-recommendations-uniform-provisions>

Commented [MB2]: Note - annex Y is based on the software updating requirements of the published GRVA document "Recommendations on uniform provisions concerning cyber security and software updates", amended to apply to software updates of the ADS specifically

<https://unece.org/transport/documents/2022/04/working-documents/grva-proposal-recommendations-uniform-provisions>

Insert new provision in 5.3:

5.3.X The effectiveness of the ADS shall not be adversely affected by magnetic or electrical fields.

Additional UNR text - This requirement shall be demonstrated by compliance with the 07 or later series of amendments to UN Regulation No. 10