

ADS IWG Working Document
Change Proposal Form
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Document Reference

ADS-08-19

Date

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Agenda item

SMS

Proposed by (affiliation only—no personal information)

IWG Secretary (AAPC)

Summary of Change (25 words or less)

Move draft provision on process for scenarios/behavioural competencies to other section(s).

Reason for Change (Justification)

Unnumbered para. after 5.1.1. under “ADS performance of the DDT” refers to the process for generating scenarios and determining behavioural competencies. This is not an ADS performance requirement, so it does not belong under 5.1. The SMS section (6.1.) should include ODD analysis paired with provisions to document the outcome and demonstrate ODD coverage.

Location 6.1. SMS, 6.2. Testing environments, 6.3. Safety case

Original text

- [5.1.1.1.] The manufacturer shall use a process to derive behavioural competencies and scenarios that are ODD-relevant. The methodology used in Annex [x] can be used or alternative methods providing they are equally comprehensive.
- 6.3.1.15. The manufacturer shall document how it has defined the Operational Design Domain for the ADS feature and the boundaries within which it is designed to operate. The manufacturer shall document how the ADS determines the presence/absence of the conditions and any linked/dependent conditions (e.g. reduced speed in icy weather). This shall include at least the following characteristics:

Revised text

Introduce a new subsection at the third numbering level (6.1.x) on “ODD analysis” with provisions setting minimum requirements for the analysis and apply these provisions to the testing environment and safety case sections:

- 6.1. Safety Management Systems
- 6.1.x. ODD analysis
- 6.1.x.1. The manufacturer shall describe its processes for:
- (a) Identification of ODD objects relevant to performance of the DDT,
 - (b) Definition of ODD conditions and boundaries ((if any) of each feature, and
 - (c) Determination of reasonably foreseeable ODD conditions under which ODD objects might be encountered.
- 6.1.x.2. The processes shall enable:
- (a) Generation of nominal scenarios sufficient to assess the functional capabilities of an ADS feature to perform the DDT necessary to operate a vehicle within the ODD,
 - (b) Generation of critical scenarios sufficient to assess the behavioural competency of the ADS feature to manage conflicts with other road users, and
 - (c) Determination of ADS behavioural competencies across these nominal and critical scenarios.
- 6.1.x.3. Annex [x] provides guidance on methodologies that may be applied to satisfy the requirements of paras. 6.1.x.1. and 6.1.x.2.
- 6.2. Testing environments
- New The manufacturer shall document the outcomes of the scenario-generation processes described in para. 6.1.x.2.
- 6.3. Safety case
- 6.3.1. Safety concept
- 6.3.1.15. The manufacturer shall describe the ODD of each ADS feature pursuant to the outcomes of the SMS processes described under para. 6.1.x.1.