

ADS IWG Working Document
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Document Reference

ADS-08-20

Date

10 April 2025

Agenda item

Proposed by (affiliation only—no personal information)

Japan

Summary of Change (25 words or less)

To confirm the scope of critical traffic scenarios described in 5.1.3.1.

Reason for Change (Justification)

For confirmation, we would like to clarify whether or not the critical traffic scenarios described in the existing 5.1.3.1. include the case of an unavoidable collision.

In other words, we would like to ask colleagues if it is necessary to set a specific requirement for the ADS performance under a situation of an unavoidable collision.

The background of the proposal is that in the DDT annex of the consolidated draft document, there is a text saying as follows.

Annex [] ODD-based Behavioural competences and Scenario Identification approach

1.2. Behavioural competencies

as it is recognised that in some cases the ADS may not be able to avoid a collision, the ADS performance are compared with safety model performance to set the threshold between where avoidance is required and where it is not feasible, but mitigation may be possible.

However, in the main text, there is no specific requirement for the ADS performance in such cases.

Hence, the intention of our proposal for adding 5.1.3.3 is like this;

(1) If the provision 5.1.3.1 already covers the case of an unavoidable collision, there is no need to add the corresponding requirement.

(2) If not, we think we need to set a specific requirement like 5.1.3.3 in the below.

Location

ADS-08-04r1 5.1.3.3.

(This is a new proposal to add a new provision if necessary.)

Original text

5.1.3. ADS Performance of the DDT under Critical Traffic Scenarios

5.1.3.1. The requirements for DDT performance under nominal scenarios shall continue to apply during critical scenarios as far as is reasonably practicable under the specific circumstances with the aim of minimising overall safety risks.

Revised text

5.1.3. ADS Performance of the DDT under Critical Traffic Scenarios

5.1.3.1. The requirements for DDT performance under nominal scenarios shall continue to apply during critical scenarios as far as is reasonably practicable under the specific circumstances with the aim of minimising overall safety risks.

5.1.3.3. Even when a collision cannot be avoided, the ADS shall mitigate the damage from the collision as feasible as possible.(e.g. Reduction of collision speed)