

5ADS IWG Change Request

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Date	30 April 2026	Please use month name (e.g., "January")
Document	ADS-20-55	
Agenda Item	5.18	
Submitted by	OPI	Affiliation only—No personal information
Title	Coverage and independencies	25 words or less (used to post document)
Location	8.3.2.1.2.	e.g., impacted section, paragraph number(s)
Summary	The proposal addresses a remark raised with regards to the independencies of the coverage items	<input type="checkbox"/> Accepted <input type="checkbox"/> Accepted as amended <input type="checkbox"/> Deferred (further discussion) <input type="checkbox"/> Not accepted <input type="checkbox"/> Withdrawn
Original Text	<p>The regulation requires the manufacturer to generate and select scenarios to ensure the coverage of appropriate nominal, critical and failure and reasonably foreseeable situations. It is expected that the appropriate coverage is obtained through a mixture of virtual testing, proving ground testing, and real-world testing. The regulation also mandates the assessor to verify the resulting combined coverage.</p> <p>This guidance is provided based on available best practices concerning the quantitative evaluation of the coverage. The target recipient of this guidance is both the manufacturer creating the safety case and the assessor verifying the safety case.</p> <p>Coverage is understood throughout the regulation as the extent to which a set of scenarios covers the relevant aspects of an ODD for the safety argumentation of the ADS. The concept of coverage is multi-dimensional. For instance, coverage can be evaluated based on :</p> <ul style="list-style-type: none"> Operational Environment: evaluates the presence of relevant ODD attributes leveraging standardized taxonomies. An example may include using ISO 34503 and demonstrating that all the applicable ODD attributes for the ADS are encompassed in the scenario suite. Behavioural competency: evaluates the presence of certain behaviours produced by either the ego-vehicle or other road users, leveraging standardized taxonomies. An example may include using BSI Flex 1891 and demonstrating that all applicable behavioural competencies are included within the scenario suite. Scenario-type/category: calculates the presence of certain a functional/logical scenario type within the scenario suite. Examples can be cut-in, cut-out or pedestrian crossing as applicable for the specific ADS. Rules of road compliance: checks that applicable rules of the road within the ODD are present in the scenario suite. 	
Revised Text	<p>The regulation requires the manufacturer to generate and select scenarios to ensure the coverage of appropriate nominal, critical and failure and reasonably foreseeable situations. It is expected that the appropriate coverage is obtained through a mixture of virtual testing, proving ground testing, and real-world testing. The regulation also mandates the assessor to verify the resulting combined coverage.</p>	

This guidance is provided based on available best practices concerning the quantitative evaluation of the coverage. The target recipient of this guidance is both the manufacturer creating the safety case and the assessor verifying the safety case.

Coverage is understood throughout the regulation as the extent to which a set of scenarios covers the relevant aspects of an ODD for the safety argumentation of the ADS. The concept of coverage is multi-dimensional. For instance, coverage ~~can~~ **could** be evaluated based on **the following items and their interdependencies***:

- Operational Environment: evaluates the presence of relevant ODD attributes leveraging standardized taxonomies. An example may include using ISO 34503 and demonstrating that all the applicable ODD attributes for the ADS are encompassed in the scenario suite.
- Behavioural competency: evaluates the presence of certain behaviours produced by either the ego-vehicle or other road users, leveraging standardized taxonomies. An example may include using BSI Flex 1891 and demonstrating that all applicable behavioural competencies are included within the scenario suite.
- Scenario-type/category: calculates the presence of certain a functional/logical scenario type within the scenario suite. Examples can be cut-in, cut-out or pedestrian crossing as applicable for the specific ADS.
- Rules of road compliance: checks that applicable rules of the road within the ODD are present in the scenario suite.

***It is acknowledged that no single item alone can robustly document coverage**

Rationale

The proposal addresses a remark raised with regards to the independencies of the coverage items

Discussion

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