

*Secretary's note: The following is excerpted from an email submitted by the expert.*

Topic 1:

To me, ODD refers to external operating conditions. The internal operating conditions are subject to functional requirements.

Topic 2:

The system means ADS; system safety is the overall objective of the requirements we have been developing; operational performance is the subject to the performance requirements; SOTIF equals to functional safety subject to functional requirements, functions refer to separate ADS features, or tasks, or capabilities.

Topic 3:

We should establish performance requirements and functional requirements if we distinguish those. I agree with Dan [SAE] that there would no necessity in such separation. The requirements should be design-neutral.

So, in your example:

“The system shall be able to detect and identify lane markings.” Under the proposal, FRAV would consider the lane-marking proposal in terms of these three aspects:

- Does the proposal suggest an element for inclusion under ODD descriptions? – No, there is no need for such a requirement. If we set the performance requirement, manufacturers will ensure the operational conditions;
- Does the proposal suggest a function that should be present on ADS? – No, this is the design requirement, we should be design-neutral;
- Does the proposal suggest an operational performance requirement? – Yes, this is correct.

And we should not establish one requirement three times in different paragraphs of Document 5.

I should state that the expressed point of view is the current one. It may change due to new knowledge or the results of considerations at FRAV.