

ACSF Informal Group Industry proposals

*1st Meeting of ACSF informal group
April 29 and 30, 2015 in Bonn*

Objectives / Guidelines

Objective: define the regulatory approach and necessary amendments in Regulation 79 to permit the development of “Automatically Commanded Steering Function” related technologies:

1. Define requirements to permit development of new ACSF functions for lane changing and lane keeping operations above 10km/h,
2. the IG only deals with requirements applicable to the steering system (UN R79)
3. It is assumed that the targeted Lane keeping operations are going beyond existing LKAS corrective steering (e.g. the control may be continuous).
4. When “high speed” (>10kph) ACSF is active, the driver’s role is to remain attentive in order to be aware of the system’s/vehicle’s status. The status of the system shall be displayed in the direct view of the driver (e.g. by a tell-tale or a dedicated display concept). The driver shall remain in a position (i.e. in the driving seat) to be able to resume the dynamic driving task whenever required. The system has to provide means for the evaluation of the driver’s presence and vehicle related activities.
5. For “low speed” ACSF (e.g. manoeuvring operations), current text applies
6. Lane changing operations are targeting specific use cases like overtaking or avoiding obstacles. Depending on the situation, the lane change can be initiated by the system or the driver. In all cases the driver shall be able to override / abort a lane change.
7. It is the driver’s responsibility to use the system only in those areas it is designed for. When the system detects it is not in the use case it is designed for, the system shall stop operating.

Proposed approach in the ACSF group

- Define high level scope and objectives
 - ✓ Finalize Terms of reference, taking into account ITS/AD GRRF guidance
- Review status of current systems / functions
- Review the next functions approaching the market
 - ✓ Lane guidance in the lane, at cruise or low speed (e.g. in traffic jam) *
 - ✓ Lane changing by the system after acknowledgment/request*
 - ✓ Lane changing by the system after driver information*
 - ✓ Lane changing by the system without driver information*
 - ✓ Driving on other roads than highway
- Define targeted functions
- Capture the necessary amendments in Regulation 79

** Highway or similar roads only*