

# Requirements for ACSF Type Approval

## Lane Change Test for CAT E

### Proposed Test Condition:

Drive the red vehicle with activated ACSF at least 1 min on a track with road markings at each side of the lane where ACSF can be activated with a speed of [30 km/h] below  $v_{\text{max}}$  or at  $v_{\text{min}}$ , whatever is higher. In front of the red vehicle drives the blue vehicle with the same speed. To the same time the green vehicle is driving with the same speed as the other vehicles on the adjacent lane. The time gap between the “green” vehicle and the red vehicle should be 1s.

The driver in the red vehicle shall increase the **set** speed for the ACSF-system by [20 km/h]. Nevertheless the red vehicle should not perform the lane change manoeuvre, because of the short safety distance to the green vehicle.

After at least 1 min of driving, the green vehicle shall reduce the speed by [5 km/h]. In consequence the distance to the red vehicle will increase. The distance/time gap between the green and the red vehicle shall be recorded at that time, when the red vehicle starts the lane change manoeuvre. (Alternatively, the distance between green and red car could be increased stepwise, until the red car is able to start the lane change manoeuvre).

