

Transmitted by the expert from the Russian Federation

Comments by the expert from the Russian Federation on UN R actualization for ADS vehicles

UN R	Conclusion by the TF on FADS (GRVA-15-37)	Comments by the expert from the Russian Federation on UN R actualization for ADS vehicles
R13	To be determined by detailed screening	Applicable. Braking Regulations R13 and R13H are applicable to ADS vehicles, as they have brakes. For ADS vehicles, specific testing scenarios should be developed to verify compliance of different braking systems mandatory on vehicles. Dual-mode vehicles should be tested in both modes.
R13H	To be determined by detailed screening	
R78	To be determined by detailed screening	Applicable. Similarly to R13 and R13H, R78 should be applicable to ADS vehicles in regards to vehicle categories L6 and L7. If ADS technology is implemented on L5 category vehicles, these vehicles also should be included into the scope of modified provisions.
R79	To be determined by detailed screening	Mostly not applicable. R79 includes the provisions for reliability of vehicle steering and the provisions for some automatically commanded steering functions. Only the limited number of provisions for reliability of vehicle steering is applicable for ADS vehicles. When deciding on actualization of R79 for ADS vehicles, consider copying applicable provisions from R79 to the specific ADS UN Regulation, so that R79 would remain unchanged. However, R79 should be applicable to dual-mode vehicles.
R89	To be determined by detailed screening	Mostly not applicable. R89 is not relevant for ADS vehicles, as the speed limitation is a part of an ADS vehicle ODD. That speed limitation should be verified by the specific testing scenario included into the specific ADS UN Regulation. However, R89 should be applicable to dual-mode vehicles.
R90	Applicable	Applicable.
R130	Mostly not applicable	Mostly not applicable.
R131	Mostly not applicable	Mostly not applicable.
R139	Mostly not applicable	Mostly not applicable.
R140	Mostly not applicable	Mostly not applicable.
R152	Mostly not applicable	Mostly not applicable.
R155	Applicable	Applicable.

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R156	Applicable	Applicable.
R157	Not applicable	Not applicable.
GTR3	Not applicable	Applicable / Not applicable. The provisions of GTR3 are aligned with those of R78. If ADS technology is implemented on 3-5 (L5) category vehicles, these vehicles also should be included into the scope of modified provisions.
GTR8	Mostly not applicable	Mostly not applicable.

Applicable = can be used for automated vehicles with minor changes

Mostly not applicable = not applicable to automated driving but relevant for dual-mode vehicles

Not applicable = not relevant for Level 4 or 5 automated vehicles

To be determined = depending on the results, either amendments or a new Regulation may be needed