

## Proposal for amendments to the Annex in ECE/TRANS/WP.29/2019/34/Rev.2, based on GRVA-08-14

Table 1

### Detailed WP.29 work priorities related to automated/autonomous vehicles

Title	Description of work / ECE/TRANS/WP.29/2019/2	Corresponding principles/elements	Allocation to	Main targets	Activities		Deliverable/ Deadline for submission to WP29
					Current activities	Future Activities	
Functional Requirements for automated/autonomous vehicles)	This work item should cover the functional requirements for the combination of the different functions for driving: longitudinal control (acceleration, braking and road speed), lateral control (lane discipline), environment monitoring (headway, side, rear), minimum risk manoeuvre, transition demand, HMI (internal and external) and driver monitoring. This work item should also cover the requirements for Functional Safety.	a. System safety b. Failsafe Response c. HMI /Operator information d. OEDR (Functional Requirements) e. Operational Design Domain	GRVA/ FRAV informal group	Automated / Autonomous vehicles	Identification and definition of high-level performance requirements for ADS  High-level definition of safety of ADS and mandatory manufacturer description of ADS	Draft specifications for ADS description elements, safety aspects and their verification criteria (including Level 3 and Level 4 motorway application) (1958 and 1998 Agreements)  Recommendations for ADS safety requirements to cover all ADS configurations, intended uses, and limitations on use. (1958 and 1998 Agreements)	March 2021  March 2021  September 2021  February 2022

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						[Specification of common functional requirements for Level 3 and Level 4 urban application (1958 and 1998 Agreements)]	[Tbd]
New assessment / Test method	Multi-pillar concept: Audit, simulation, electronic system compliance, digital identity, test track, real world driving evaluation., in-use monitoring, use of scenarios.	b. Failsafe Response (Assessment Method) c. HMI /Operator information (Assessment Method) d. OEDR (Assessment Method) e. Operational Design Domain (Assessment Method) f. Validation for System Safety (including CEL)	GRVA/ VMAD informal group	Automated / Autonomous vehicles	Description of New assessment /Test method (NATM) process/procedures for the assessment of an ADS	Description of NATM for Level 3 and Level 4 motorway application (1958 and 1998 Agreements)  Description of NATM for Level 3 and Level 4 urban application (1958 and 1998 Agreements)	March 2021  [September 2021 ]  [September 2022]
Cyber security and (Over-the-Air) Software updates	Work of Task Force on Cyber Security and (OTA) software updates (TF CS/OTA) ongoing. Draft recommendations on the approach (based on draft technical requirements).	g. Cybersecurity h. Software Updates	GRVA Cyber/software update informal group	Conventional and Automated / Autonomous vehicles	Review and definition of draft set of technical requirements for 1998 CPs	<b>Any future activities?</b>	November 2021
Data Storage System for Automated	DSSAD are for autonomous vehicles (e.g. accident recoding). This work item	i. EDR/DSSAD	First: GRVA Later:	Automated / Autonomous vehicles	Review of the existing national / regional activities and a		November 2021

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Driving vehicles (DSSAD)	should take into consideration of the discussion at GRVA and its Informal Working Group on Automatically Commended Steering Function (IWG on ACSF). Clear objectives, deadline and the identification of differences with EDR to be determined first before discussion on detailed data information.		GRSG (in coordinati on with GRVA)  EDR/DSSAD informal group		proposed way forward for DSSAD	Common functional DSSAD requirements for Level 3 and Level 4 applications (1958 and 1998 Agreements)	June 2022
Event Data Recorder (EDR)	Existing systems - as road safety measure (e.g. accident recoding).	i. EDR/DSSAD	GRSG  EDR/DSSAD informal group	Conventional and Automated / Autonomous vehicles	Technical requirements on EDR (New UN-Regulation for Contracting Parties to the 1958 Agreement)	Review of the existing national /regional activities and a proposed way forward for EDR (1958 and 1998 Agreements)	March 2021  March 2023