Proposal for amendments to ECE/TRANS/WP.29/2021/151

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
					Current activities	Future Activities	submission to WP29
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	Development and submission of recommendations for global ADS safety requirements, including methods for [scenario generation] and verifiable criteria, covering the corresponding principles.	Shift of emphasis towards alignment of FRAV and VMAD outcomes to provide integrated guidelines on ADS safety assurance sufficient to enable WP.29 decisions on initiatives, if any, under the Agreements.	June 2023: Guidelines for regulatory requirements and for verifiable criteria for ADS safety validation June 2024: Consolidated FRAV/VMAD submission (requirements + assessment)
					Progressive increase in FRAV-VMAD collaboration towards 2024 deliverable of consolidated submission.		

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	ECDTRING WI.202017/2	principies etemenis			Current activities	Future Activities	submission to WP29
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	GRVA/ VMAD informal group	Automated / Autonomous vehicles	- Description of the credibility assessment - Description of In Service Monitoring & Reporting - Description for Real World Testing - Description on how to create and maintain the catalogue for scenarios - Start of exploration Exploration of safety validation methods, linking to the status of FRAV's consideration of technical requirements for Dynamic Driving TaskDDTs, Operational Design Domain, and traffic-rule conversions ete. Progressive increase in FRA towards 2024 deliverable of other services with the status of technical requirements for Dynamic Driving TaskDDTs, Operational Design Domain, and traffic-rule conversions ete.		June 2023 2nd iteration of the Guidelines for NATM including outcome of "outstanding issues" June 2024 Consolidated FRAV/VMAD submission (requirements + assessment)

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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/soft- ware update informal group	Conventional and Automated / Autonomous vehicles			[November 2023 – pending discussions]
Data Storage System for Automated Driving vehicles (DSSAD)	DSSAD are for autonomous vehicles (e.g. accident recoding). This work item 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.	i. EDR/DSSAD	GRVA EDR/DSSAD informal group	Automated / Autonomous vehicles		Inventory of best ADS storage practices DSSAD performance elements for ADS	[November 2022] [June 2024]
Event Data Recorder (EDR)	Existing systems - as road safety measure (e.g. accident recording).	i. EDR/DSSAD	GRSG In coordinati- on with GRVA EDR/DSSAD informal group	Conventional and Automated / Autonomous vehicles	Complete EDR Performance Elements for 1958/1998 Contracting Parties Corrections/ amendments to existing EDR regulation [and ADS data elements for ALKS]'	WP29 guidelines on EDR Performance	March 2022] - completed

Commented [JHD1]: Remove brackets and keep dates

Commented [JHD3]: Should be March 2023

Commented [JHD4]: completed

Title	Description of work / ECE/TRANS/WP.29/2019/2	Corresponding principles/elements	Allocation to	Main targets	Activities		Deliverable/ Deadline for
					Current activities	Future Activities	submission to WP29
						Elements for ADS	2022 June
							2024
						EDR Step 2:	
						Consideration of	
						additional technical	
						requirements to current	March 2023
						UN Regulation	November
						regarding trucks	2024
						and buses	

¹ Subject to endorsement by WP.29 in November 2021

Commented [JHD2]: June 24

Commented [JHD5]: should state November 2024