181st WP.29 24 June 2020 Agenda item 2.3

Review of the progress made on the activities listed in the Framework Document on Automated/ autonomous Vehicles (Revision 2)

The World Forum for Harmonization of Vehicle Regulations (WP.29) adopted ECE/TRANS/WP.29/2019/34/Rev.2 at its 179^{th} session.

The Administrative Committee for the Coordination of Work (AC.2) met informally and virtually on 28 May 2020 and reviewed the progress made on the project listed in the Revision 2 of the Framework Document on Automated/autonomous Vehicles (FDVA).

The table below reflects the comments send by the Informal Working Group on Event Data Recorder / Data Storage System for Automated Driving prior to the meeting as well as the assessment provided by AC.2 during that meeting on the activities listed in the Annex in FDAV.

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
					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)	GRVA/ ACSF informal group New informal group	Automated / Autonomous vehicles	ACSF/ALKS Functional requirements for Lane Keeping systems of SAE levels 3/4 (New UN Regulation for contracting parties to the 1958 Agreement)	Common functional requirements on existing national/regional guidelines and other relevant reference documents (1958 and 1998 Agreements)	March 2020 Done March 2020 Survey - done Details - ongoing
New assessment / Test method	Multi-pillar concept: Audit, simulation, electronic system compliance, digital identity, test track, real world driving evaluation. This work item should also cover the assessment of Functional Safety.	d. OEDR (Assessment Method) f. Validation for System Safety (including CEL)	GRVA/ VMAD informal group	Automated / Autonomous vehicles	New assessment /Test method of AD	The test and assessment method, (including CEL) for Lane Keeping systems of SAE levels 3/4 as New UN Regulation for contracting parties to the 1958 Agreement] Review of the existing and upcoming methods and a proposed way forward for the assessment of AD CEL for AD	March 2020 Done March 2021 March 2020 March 2021

Title	Description of work / ECE/TRANS/WP.29/2019/2	Corresponding principles/elements	Allocation to	Main targets	Activities		Deliverable/ Deadline for
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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	Test phase on the draft requirements under 1958 Agreement Review of draft set of technical requirements for 1998 CPs	Review of the report of the test phase on the draft requirements. Regulation tabled for vote	November 2019 Done 11/2019 November 2019 Done 03/2020 November 2019 Delayed
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	First: GRVA Later: GRSG (in coordinati on with GRVA) New EDR/DSSAD informal group	Automated / Autonomous vehicles		Clear objectives, deadline and the identification of differences with EDR DSSAD requirements for Lane Keeping systems of SAE levels 3/4 as New UN Regulation for contracting parties to the 1958 Agreement Review of the existing national / regional activities and a proposed way forward for DSSAD	March 2020 Done March 2020 Done March 2020 Overview of existing activities and of the positions of the CP's on a proposed way forward submitted. An agreed proposal on a way forward on behalf of the IWG expected June 2021.
Event Data Recorder (EDR)	Existing systems - as road safety measure (e.g. accident recoding).	i. EDR/DSSAD	GRSG New EDR/DSSAD informal group	Conventional and Automated / Autonomous vehicles		Clear objectives, deadline and the identification of differences with DSSAD Review of the existing national /regional activities and a proposed way forward for EDR	November 2019 Done March 2020 Overview of the existing activities and of the positions of the CP's on a proposed way forward submitted.

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
						Technical requirements on	An agreed proposal on a way forward on behalf of the IWG expected June 2021.
						EDR.	Still aiming to submit a proposal to GRSG July session to be forwarded to WP.29 November 2020 session. (In addition, an informal doc. will be developed Q3 to remove brackets and slightly amend the original document).