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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****177th session**

Geneva, 12-15 March 2019

Item 2.3 and 17 of the provisional agenda

**Coordination and organization of work:**

**Intelligent Transport Systems and coordination of  
automated vehicles related activities**

**Priority topics for automated and connected vehicles (based  
on WP.29-176-28)\*****Note by the secretariat**

The text reproduced below was prepared by secretariat based on informal document WP.29-176-28 and following a Web Conference meeting on 19 December 2018 (aimed at providing comments on the basis document). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) for potential endorsement at its 177th session in March 2019. It is shared for information with the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) for review at its second meeting.

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\* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, Cluster 3.1), the World Forum will develop, harmonize and update UN regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



## **Proposal for the definition of WP.29 work priorities related to automated and connected vehicles**

1. The table below is focusing on automation. Following further considerations of WP.29, priority items on vehicle connectivity other than cyber security could be included in this table at a later stage. This document does not address the delivery mechanisms under one or more Agreements managed by WP.29. GRVA is committed to deliver technical provisions suitable for all Contracting Parties.
2. The table below is containing proposed work priorities for WP.29.

Table 1  
Work priorities related to automated and connected vehicles

<i>Title</i>	<i>Allocation to</i>	<i>Main targets</i>	<i>Comments</i>
Framework document on automated / autonomous vehicles	GRVA	Automated / Autonomous vehicles	This work item should concentrate on developing principles and guidelines governing automated / autonomous vehicles and especially their safety. It covers all key elements and evaluation methods.
Functional Requirements for automated / autonomous vehicles	GRVA	Automated / Autonomous vehicles	This work item should cover the functional requirements for the combination of the different functions for driving: longitudinal control (acceleration, braking, 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.
New assessment / Test method	GRVA	Automated / Autonomous vehicles	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.
Cyber security	GRVA	Conventional and Automated / Autonomous vehicles	Work of Task Force on Cyber Security and (OTA) software updates (TF CS/OTA) ongoing. Draft recommendations on legislative approach and draft Regulation delivered to GRVA.
(Over-the-Air) Software updates	GRVA	Conventional and Automated / Autonomous vehicles	Work of Task Force on Cyber Security and (OTA) software updates (TF CS/OTA) ongoing. Draft recommendations on legislative approach and draft Regulation delivered to GRVA.
Event Data Recorder (EDR)	GRSG	Conventional and Automated / Autonomous vehicles	Existing systems - as road safety measure (e.g. accident recoding).
Data Storage System for Automated Driving vehicles (DSSAD)	<u>First:</u> GRVA <u>Later:</u> GRSG (in coordination with GRVA)	Automated / Autonomous vehicles	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 Commanded 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.