

Comments added in **bold**,
based on Informal Document GRVA-02-41

Proposal for an Informal Working Group on Functional Requirements for Automated and Autonomous Vehicles (FRVA) (new group)

A) Terms of Reference

1. The informal group shall develop draft proposals concerning the functionality of vehicles and vehicle systems in relation to the operation of road vehicles having automated and/or autonomous capability.
2. The informal group shall address the following issues:
 - a. Generic definitions and the core elements for automated driving systems, including **the functional requirements for the combination of different driving functions: longitudinal control, lateral control, environment monitoring, minimum risk manoeuvre, transition demand, human-machine-interface and driver monitoring those necessary for the interaction between, i) the human driver and the automated driving technology, and ii) the automated driving technology and the driving environment.**
 - b. The core **elements technical requirements** for automated **lane keeping functions for highway use.** and autonomous driving systems for:
 - **highway traffic (phase 1),**
 - **urban traffic and parking (phase 2) and**
 - **interurban traffic (phase 3).**
 - c. ~~The assessment of the electric and/or electronic control system(s) in respect to their safety concept and design under both fault and non-fault conditions.~~
 - d. Provisions for system failure detection and management for the purpose roadworthiness, including the communication of failures and/or deficiencies to the vehicle user and to authorities.
3. ~~The proposals shall, to the fullest extent possible, be performance based and technology neutral.~~
4. The group will focus initially on systems for passenger cars and light goods vehicles but shall extend their activity to buses and trucks at the earliest opportunity. The precision of the reference to vehicle types shall be determined from the Consolidated Resolution (R.E.3) and the Special Resolution No.1, **managed by WP.29.**

5. The group shall take full account of developments in other subsidiary Working Parties of WP.29, and of existing data and research, in developing its proposals. It should consider pre-existing standards and Regulations from other territories for developing its proposals.
6. Draft texts for the objectives of item ~~2 3~~ should be submitted to ~~the 4th session of GRVA in September 2020.:~~
 - [autumn] session [2021] of GRVA for highway traffic (phase 1),
 - [autumn] session [2022] of GRVA for urban traffic and parking (phase 2) and
 - [autumn] session [2023] of GRVA for interurban traffic (phase 3).
7. Text shall **to the fullest extent possible, be performance based and technology neutral and at least** be prepared in a neutral form such that it can be adapted for use under ~~any~~ **of the 1958, 1997 and 1998 Agreements managed by WP.29.**
- ~~7.8.~~ A final decision on regulatory proposals rests with WP.29 and the Contracting Parties.

B) Rules of Procedure

1. The informal group is a sub group of GRVA, and is open to all participants of WP.29.
 2. ~~Two Co-~~[Chairs] and a Secretary will manage the informal group.
 3. Individual objectives may be delegated to dedicated sub-groups to ensure the engagement of the best available experts and to comply with the timeline for delivery.
 4. The working language of the informal group will be English.
 5. All working papers (documents and/or proposals) must be submitted to the Secretary of the group in a suitable electronic format in advance of the meeting. The group may refuse to discuss any item or proposal which has not been circulated ten working days in advance.
 6. An agenda and related working papers will be circulated to all members of the informal group in advance of all scheduled meetings.
 7. Decisions will be reached by consensus. When consensus cannot be reached, the ~~Co-~~[Chairs]of the group shall present the different points of view to GRVA. The ~~Co-~~[Chairs] may seek guidance from GRVA, as appropriate.
 7. The progress of the informal group will be routinely reported to GRVA – wherever possible as an informal document and presented by the ~~Co-~~[Chairs] or their representative.
 8. All documents shall be distributed in digital format. Meeting documents should be made available to the Secretary for publication on the dedicated website.
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