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| Submitted by FSD  | Informal document **PTI-37-04 Rev.01**37th IWG on PTI, 20 February 2025 |

Request for development draft amendments to UN Regulations to provide communication compatibility with scan-tools used for electronic periodical technical inspection

1. **Background**
2. ~~In recent years, Advanced Driver Assistance Systems (ADAS) and Automated Driving Systems (ADS) have been rapidly evolving and spreading, but if it malfunctions, it may lead to a serious accident.~~
3. ~~To prevent these accidents, it is effective to check functions of these safety devices by Periodical Technical Inspections (PTI).~~
4. ~~To verify these functions in PTI, it is necessary to obtain vehicle data from the On-Board Diagnostics (OBD) using an electronic interface (e.g. scan tools).~~
5. ~~It is not guaranteed, except for emission OBDII, to communicate to Electronic Control Units (ECUs) of vehicles by scan tools in the UN Regulations of the 1958 Agreement.~~

Given the rapid increase in the number of electronic safety systems installed in vehicles in recent years and with a view to semi- and fully automated vehicles in the future, checking these systems via the electronic vehicle interface has become vital. The electronic periodical technical inspection (e-PTI) is the only way that the efficiency and effectiveness of checking such systems can eventually be ensured around the world, with the aim of ultimately minimising the number of road fatalities and serious injuries.

It is important for each country‘s sustainable e-PTI to obtain in-vehicle data from the Electronic Control Unit (ECU) of vehicles using scan-tools compliant with international standards (ISO, etc.). For this, without requiring the need to change the vehicle design and development and without affecting the cyber security measures, it is necessary to obtain also any additional information necessary to ensure access to this in-vehicle datafor PTI

But the relevant UN Regulations, except UN R154, do not include provisions for communication compatibility of the ECU (at least DTC readability) with scan tools.

**II. REQUEST**

The WP.29 is invited to consider request for development draft amendments to UN Regulations to provide communication compatibility with the internationally standardized scan-tools used for electronic periodical technical inspection.

~~The WP.29 is invited to consider to amend relevant UN Regulations to guarantee communications to ECUs of vehicles by electronic interface internationally standardized.~~

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