

Text proposal on improved family definitions for WLTP-GTR 15

Prepared by

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History

September 2017:

- Topic was brought to the attention of the Annex 4 New-Issues Taskforce.
- It was decided to request a mandate from IWG to proceed detailing the initial proposal.
- Mandate was granted during the IWG meeting in Seoul without objections.

December 2017:

- ICCT proposed to work on a GTR text proposal.
- To address Japan's concerns, it was agreed that ICCT and Japan would discuss the proposal in a bilateral meeting.

January 2018:

- During an informal meeting in Geneva, ICCT understood that Japan agreed that ICCT continues the development of a text proposal.

March 2018

- Presentation of text proposal at New Issues TF meeting
- IWG invited ICCT to present the proposal during the meeting in Ispra

Observations made on the family definitions

Family definition contained implicitly

- The intention of the families in the GTR are to date not explicitly defined.
- The family functionality is only contained implicitly in a list of characteristics, that vehicles in the family must share.

To ensure the family functionality, the list of characteristics...

- ...must be comprehensive
- ...must not contain characteristics that would prevent adding suitable vehicles to the family
- ...must use precisely defined terms
- ...must be flexible to cover also future technologies

Concerns

Concern with current approach:

- Requirements for the list are contradictive (flexible vs precise)
 - List of characteristics leaves room for interpretation.
 - In case of dispute, there is no clear reference to relate to.
- Content of list depend on the state of technology when it was prepared
 - List of characteristics will become outdated
- Anyone who was not involved in the development of the GTR must perform an extensive analysis to understand the original intention of the family.

As a consequence:

- Vehicles in family might not fulfill the originally intended functionality.
- Vehicles can't be grouped in the family despite fulfilling the functionality.

Key elements of the proposal

Each family definition consists of:

- Definition of the family functionality (qualitative statement)
- A quantitative criterion to demonstrate whether an individual vehicle can be grouped into the family or not.
- Possibility for the responsible authority to challenge the family building for individual vehicles.
- Requirement that vehicle needs to:
 - fulfill the family functionality, and
 - at least needs to conform with the list of characteristics
- Future proof: technologies not considered in the list of characteristics can be added to the family.

Benefits of the proposal

- Maintaining the list of characteristics allows for a fast and transparent assessment if a vehicle can be a family member.
- The TAA can request a demonstration, if there is ground for concern that a vehicle will not meet the functionality.
- The acceptance criterion is a measurable parameter.
- Manufacturer can demonstrate to TAA that a vehicle fulfills the family functionality with new or enhanced technologies.
- Such technologies will be included in the list of characteristics to simplify and harmonize future type approvals.

Summary

This proposal will change the family definition as follows:

- Instead of assuming a familiarity on the basis of (technical) criteria to be equivalent, vehicle grouping is done on the basis of what is intended by the vehicle family.
- In case of disagreement between manufacturer and TAA on the familiarity, there is now an objective criterion available to prove if a vehicle should be member of the family or not.
- This new approach is intended to make the family definitions more robust and to eliminate any room for different interpretations

NOTE: it is **not** the intention to change the current homologation processes or to increase the test burden; there should be no differences in already defined vehicle families

Status & Next steps

Status:

- Updated text proposal prepared and distributed to IWG members.
- Revision of terms used to describe the vehicle characteristics is in progress.

Request to IWG:

- Definition of time schedule
- Preferred schedule by ICCT: Next amendment (#5)

Thank you very much for your attention!

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