

Transmitted by the IWVTA Ambassador to GRPE

Informal document GRPE-73-22  
73<sup>rd</sup> GRPE, 6-10 June 2016, agenda item 12

**International Whole Vehicle Type Approval (IWVTA)** on the harmonization of vehicle regulations under the 1958 Agreement.

- IWVTA informal group (starting June, 2012):
  - ✓ **1958 Agreement revision subgroup.** The drafting subgroup for the review of the 1958 Agreement.
  - ✓ **UN Regulation No. 0 subgroup.** The drafting subgroup for the text of UN Regulation No. 0.
  
- Time line (More details at the end of this document ):
  - Extend the mandate of the IWVTA informal group (under the 1958 Agreement) until June, 2017.
  - December, 2015 to June, 2016\_re-testing of UN Regulation No. 0 with several TS, Authorities and Manufacturers involved.
  - **September 2016 Transmition of the proposal of the Revision 3 of the 1958 Agreement by one of the CPs to the Secretary General.**
  - November 2016\_Propose to set a permanent IWVTA IG from July 2017 to WP29.
  - November 2016\_Final proposal of R0 will be submitted to WP29.
  - November 2016\_Finalize UN Regulations list A applicable to IWVTA, step 1.
  - **March, 2017 Submit of formal document for the text of UN Regulation 0 to WP.29.**
  - March 2017:\_Submit of proposal for updated “General Guidelines for UN regulatory procedures and transitional provisions in UN Regulations” (ECE/TRANS/WP.29/1044/rev.2).
  - **May 2017 The proposal of the Revision 3 of the 1958 Agreement shall enter in force if no objection expressed.**
  - **January 2018 UN Regulation 0 will be considered for adoption.**

- **List A** UN Regulations applicable to IWVTA.

Number	Topic	UN-Regulation
1	Retro reflecting devices	3
2	Illumination of rear registration plates	4
3	Direction indicators	6
4	Front and rear position lamps, stop-lamps & end-outline marker lamps	7
5	Electromagnetic compatibility	10
6	Door latches & retention components	11
7	Steering impact	12
8	Safety Belts	16
9	Seats, their anchorages, & head restraints	17
10	Front fog lamps	19
11	Interior fittings	21
12	Reversing & manoeuvring lamps	23
13	External projections	26
14	Audible warning signals	28
15	Tyres	30
16	Filament lamps	37
17	Rear fog lamps	38
18	The Speedometer equipment	39
19	Safety glazing	43
20	Built-in Restraining device for children	44
21	Headlamp cleaners	45

Number	Topic	UN-Regulation
22	Devices for indirect vision incl. installation	46
23	Sound emissions	51
24	Tyres for commercial vehicles	54
25	Rear underrun protective devices	58
26	Parking lamps	77
27	Steering equipment	79
28	Measurement of engine power	85
29	Side marker lamps	91
30	Frontal collision	94
31	Lateral collision	95
32	Headlamps with gas-charge light sources	98
33	Gas-charge light sources	99
34	Electric power train	100
35	Headlamps with filament lamps and/or LED modules	112
36	Tyre wet grip/Noise/RR	117
37	Cornering lamps	119
38	Hand controls and tell tales	121
39	Adaptive front-lighting systems	123
40	Forward field of vision	125
41	Pedestrian safety performance	127
42	LED light sources	128

**List B** \_The GR R0 considers that the UN Regulations showed in list B are significantly important for IWVTA and therefore need to be reviewed by GRs if and how they can be included in draft UN R0.

UN Reg.	Topic	Expected agreement date by GR	Expected agreement date by WP.29	Note
13H	<b>Braking</b>	February, 2016	June, 2016	Split provisions for ESC/BA
14	<b>Safety belts Anchorages</b>	unknown	unknown	Australian proposal to harmonize the requirements is under consideration
34	<b>Prevention of fire risks</b>	May, 2014	November, 2017	To be included in Annex 4 of UN R0 in November, 2017
48	<b>Installation of lighting and light-signalling devices</b>			
64	<b>Temporary tyres</b>	February, 2016	June, 2016	Split provisions for TPMS
116	<b>Anti-theft and alarm systems</b>	unknown	unknown	Task force was established for clarifying the scope and amending the Regulation
New	<b>Tyre installation</b>	February, 2016	June, 2016	IG was created for drafting the Regulation
WLTP	<b>CO2 emissions</b>	unknown	unknown	Need confirmation if the approach for the new "Regulation WLTP" is acceptable for IWVTA to enable harmonization.
WLTP	<b>Exhaust emissions</b>	unknown	unknown	

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The IWVTA group was informed on March 2016 about the intention of the transposition of GTR15 (WLTP) into UN Regulations during 72nd GRPE:

- UN Regulation on WLTP would be developed in a hierarchical manner with different levels of stringency.
- A top level – the most stringent requirements valid across all the regions.

**SGR0-20-06** “Proposal to handle presence of systems and levels of stringency” transmitted by OICA.

- When developing IWVTA the issue of if-fitted systems in UN Regulations has been repeatedly discussed.
- **If a requirement is formulated as if-fitted, it is not possible under mutual recognition to mandate it.**
- Solution for systems like ESC, BAS, and TPMS has been to split UN Regulations. The same kind of discussion arises for DRL and rear fog lamps in conjunction with UN R-48: EU mandate both DRL and rear fog lamps and Japan will accept the systems in the future but does not intend to mandate them

A related discussion is how to implement different levels of stringency within a UN Regulation, when implementing WLTP.

Within one version of a UN Regulation a type approval authority can issue

- a **type approval** (as we are used to)

Or

- an **attestation** (new concept)
  - ✓ An attestation could be used when not all requirements of a UN Regulation are met.
  - ✓ It would explicitly identify the differences compared to a type approval (respective forms could be added to the Regulation text as appendices to Annex 1/communication form).
  - ✓ It would not be subject to full mutual recognition, except for those markets having the same requirements as those contained in the attestation.
  - ✓ However, it would have to be recognized by all CPs applying the UN Regulation for the content that it "certifies".

In a way, the concept of an attestation is like a L-IWVTA (Limited-IWVTA) applied on the level of individual Regulations instead of on whole vehicle level.

**Example on WLTP UN Regulation:**

A future “hierarchical” Regulation on WLTP could include the possibility for

- type approval in case all requirements are met

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- One attestation for each hierarchical level that is needed (It is not even necessary that the levels are truly hierarchical).

Using this concept, the limit values for different cycles (e.g. w/o high speed portion of WLTP) can be updated via single series of amendments

Required attestation forms could be included into the respective UN Regulations.

**SGR0-20-07** “GR Chairmen’s meeting on IWVTA”

- Technical Secretary stated that IWVTA Ambassador to GRPE (Spain) had an idea of delegating an expert on IWVTA to GRPE session in order to come up with harmonized and compatible UN Regulation ‘WLTP’. Technical Secretary asked GRPE Chair’s opinion about it.
- GRPE Chair stated that he would appreciate it if IWVTA expert could participate in a Task Force to deal with the transposition of GTR No. 15 into UN Regulations ‘WLTP’ reporting to WLTP Informal Group. It was noted that the date for the meeting of this Task Force had not been decided yet



Action items	2016												2017												
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
UN Regulations applicable to IWVTA Step 1																									
Pretest of UN R0																									
Guideline ECE/TRANS/WP.29/1044																									

★ Finalize UN Regulations applicable to IWVTA Step 1

★  
 The 3rd UN R0 Pretesting TF

★  
 The 4th UN R0 Pretesting TF to discuss the test results and findings and propose to amend UN R0, if necessary

★  
 Submit draft proposal for Guideline ECE/TRANS/WP.29/1044/rev.2

★  
 Submit final proposal for Guideline ECE/TRANS/WP.29/1044/rev.2