64th GRPE Session
Development of IWVTA system and involvement of the Working Parties:
CANDIDATE ITEMS FOR TECHNICAL REGULATIONS APPLICABLE TO IWVTA AND GUIDELINE FOR GRS TO REVIEW TECHNICAL REGULATIONS APPLICABLE TO IWVTA
1. Introduction
2. Latest Situation of WP.29 IWVTA Informal Group activities
   2-1 Roadmap
   2-2 Envisioned new structure for the revised 1958 Agreement
   2-3 Concept of UN Regulation No.0
   2-4 Regulation No.0
3. The role of IWVTA Ambassador
4. The schedule to review and/or develop technical regulations applicable to IWVTA
5. The candidate items for technical regulations applicable to IWVTA to be reviewed and/or developed by GRSP
6. Explanation of the flow chart of the guideline for GRs to review and/or develop technical regulations applicable to IWVTA
   -Step 0
   -Step 1/2
   -Step 3
1. Introduction

Our Goal

* At present, various vehicle certification systems exist for different countries in the world. We aim to establish a truly global type approval system and realize mutual recognition of approval among many different nations.

* Specifically, we aim to upgrade the current approval system under the international agreement (1958 Agreement), which covers “mutual recognition of approval of vehicle construction and equipment”, to the “whole vehicle” level.

**Current System**

- Mutual recognition of approval of vehicle construction and equipment
- Vehicle type approval required to be obtained from each country

**System in Our Goal**

- Mutual recognition of approval at the whole vehicle level
- Vehicle type approval not required to be obtained from each country
Realization of sustainable mobility society

Benefits of Establishment of Mutual Recognition of IWVTA

If the mutual recognition of vehicle type approval (including all technical requirements on a whole vehicle) is established under the UN,

1. Benefits from harmonizing regulations, while maintaining road safety and environmental protection, will increase, further promoting Contracting Parties’ activities for harmonizing regulations related to vehicle construction and equipment, etc.
2. It will serve as a model system that would help the aligned vehicle type approval system to be established around the world and accelerate the activities for realization of mutual recognition system based on the type approval.

**Government (G)**
- Through harmonization, advanced safety and environmental regulations will be implemented internationally.
- Testing and approval procedures will be streamlined.
- Establishment of vehicle type approval system in developing countries, etc. will be facilitated.

**Industry (I)**
- Costs and man-hours required by differing development and certification procedures for complying with regulations of each product destination will be reduced.
- Resource can be spared for development of improved safety and environmental technologies.

**User**
- Wider availability of safer, more environmentally-friendly vehicles with reasonable prices

*Beneficial for both G and I.
*Should be realized through G-I collaboration.

Realization of sustainable mobility society
Japan’s Proposal to the UN (March 2010)

Outline of the proposal

To build infrastructure for establishing, in the future, the “system concerning mutual recognition of IWVTA” under WP.29 through utilization of the “agreement on mutual recognition of approval for motor vehicle equipment and parts”

EU’s Proposal to the UN (March 2010)

Outline of the proposal

To revise 1958 agreement to update it considering the current situation and also make it more attractive to emerging countries

Outcome at WP29 in March 2010

Informal group to be set up to develop the roadmap to carry out the above;

Revision of 1958 agreement and establishing IWVTA

(Roadmap was approved by WP.29 in November 2011)
Framework for Implementing Activities at WP.29

UN/ECE/WP.29

IWVTA Informal Group

Task: Development of roadmap (approved by WP.29 in November 2011)
Chairman: Mr. Gauvin (WP.29 Vice-chairman)
Co-vice-chairmen: Mr. Renders (EU) → Revision of the 1958 Agreement
(Quality of rulemaking, type-approval procedure and mutual recognition, conformity of production, qualification of technical services, quorum for adoption of new Regulations and amendments, etc.)
Mr. Onoda (MLIT) → Preparation of IWVTA
(Technical requirements, types, categories, weights, definition of dimensions, specifications of application procedures, etc. necessary for IWVTA)
Technical Secretary: Mr. Oshita (JASIC)

Time of meeting: Friday of the week prior to WP.29 (mostly)
Venue: Paris (mostly)
Members: Any organization that attends WP.29
(Currently about 30 members from government and industry)
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   2-4 Regulation No.0

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6. Explanation of the flow chart of the guideline for GRs to review and/or develop technical regulations applicable to IWVTA
   -Step 0
   -Step 1/2
   -Step 3
2. Latest situation of WP.29 IWVTA Informal Group activity

<table>
<thead>
<tr>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Roadmap of revising 1958 agreement and establishing IWVTA (UN Regulation No.0) until 2016</td>
</tr>
<tr>
<td>2. Inventory for the revision of the 1958 Agreement</td>
</tr>
<tr>
<td>3. Concept of IWVTA (UN Regulation No.0)</td>
</tr>
<tr>
<td>4. Candidate of technical regulation list necessary for IWVTA, how to develop technical regulation itself in each GR (Experts group) and finalize the list itself.</td>
</tr>
</tbody>
</table>
2-1 Roadmap for revising the 1958 Agreement and establishing IWVTA

- At the 5th meeting of IWVTA-IG held in March 2011, agreement was reached on the working procedure and working schedule for the drafting of IWVTA regulations.
- The Informal Group agreed that, for the time being, it would focus on regulations on passenger cars, which are most needed.

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<td>11</td>
<td>6</td>
<td>11</td>
<td>3</td>
<td>6</td>
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</table>

1. IWVTA

<table>
<thead>
<tr>
<th>Candidates for items for IWVTA</th>
<th>IWVTA-IG is to prepare candidates for items for IWVTA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amend existing regulations and/or make new regulations</td>
<td>Based on the item list, each GR examines UN Regulations (to be created or amended as necessary).</td>
</tr>
<tr>
<td>IWVTA concept (including UN R0 at WP.29)</td>
<td>Making draft UN R0</td>
</tr>
<tr>
<td>Amend IWVTA-related agreements (if necessary)</td>
<td>Discuss the draft UN R0 at WP.29</td>
</tr>
</tbody>
</table>

2. Amend the 1958 Agreement

<table>
<thead>
<tr>
<th>Application, grant, modification, withdrawal of approval; new technologies, COP, safeguard, etc.</th>
<th>Discuss and agree on the inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Report to WP.29</td>
</tr>
<tr>
<td></td>
<td>Draft proposal</td>
</tr>
<tr>
<td></td>
<td>Report to WP.29</td>
</tr>
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</table>
Text of the 1958 Agreement (amended)

### Appendices

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Appendix 1</td>
<td>Composition and Rules of Procedure of the Administrative Committee (amended)</td>
</tr>
<tr>
<td>Appendix 2</td>
<td>Conformity of Production Procedure (amended)</td>
</tr>
</tbody>
</table>

**Placeholder**

**Procedure for Type Approval**

\[(R.E.3)\] Annex 7 (amended)

**Relevant elements of** WP29/1044 or later revision

**Relevant elements of** WP29/1059 or later revision

### ANNEX (Regulations) - Addendum to 1958 Agreement

**No.0** IWVTA : Vehicle approval requirements (New UN Regulation)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
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<td></td>
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<tr>
<td>...</td>
<td></td>
</tr>
<tr>
<td>126</td>
<td></td>
</tr>
</tbody>
</table>
Basic idea is to establish IWVTA under the 1958 Agreement

-IWVTA should be established in line with the principle of the current 58 agreement, i.e.: "the CPs can choose the UN Regulations they apply"

-Consequently, the new concept of "the Regulation on IWVTA" was proposed as “UN Regulation No.0".
2-4 UN Regulation No.0 (first Draft : Working Doc.IWVTA-09-08e)

Regulation No. 0
UNIFORM PROVISIONS CONCERNING THE INTERNATIONAL APPROVAL OF WHOLE VEHICLES

Regulation No. 0
UNIFORM PROVISIONS CONCERNING THE INTERNATIONAL APPROVAL OF WHOLE VEHICLES

Draft History

Preamble

Contents
1. Scope
2. Definitions
3. Application for approval
4. Approval
5. Specifications
6. Tests
7. Modification of vehicle type and extension of approval
8. Conformity of production
9. Penalties for non-conformity of production
10. Production definitely discontinued
11. Names and addresses of Technical Services responsible for conducting approval tests and of Administrative Departments
12. Introductory and transitional provisions

Annex 1: Communication
Part A: Vehicles of category M1

SECTION I

SECTION II

Annex 2: Arrangement of the approval mark
Annex 3: Procedures to be followed during I-WVTA of vehicles
Annex 4: List of requirements for the purpose of I-WVTA: List of regulatory acts
Part A: Requirements for vehicles of category M1

Table 1: List of mandatory requirements
Table 2: List of if-fitted requirements
Table 3: List of alternative requirements for a I-WVTA with limited validity
Table 4: List of national or regional requirements for I-WVTA

Annex 5: Information document for the purpose of I-WVTA of vehicles

Part I: Identification of the variants and versions
Part II: Information document
A. Vehicles of category M1
Part III: Type approval numbers
Annex 6: Certificate of conformity

Model A: UN Certificate of conformity for complete vehicles of category M1
SIDE 1
SIDE 2

Appendix 1: Model translation sheet for the certificate of conformity
Annex 7: Definition of the vehicle type
Part A: Vehicles of category M1

ANNEX4:
List of technical regulation necessary for IWVTA

Action of IWVTA Informal group from now on

First draft was presented by OICA for the future discussion. This will be discussed and drafted in working team under WP29 IWVTA informal group From now on.

Final draft will be presented in March WP29 in 2013
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3. The role of IWVTA Ambassador

(1) explain the guideline at the first GR meeting to be held after the 156th WP29 session in March, 2012

(2) monitor the progress of GR to review UN Regulations applicable to IWVTA and report it to IWVTA Informal Group

(3) assist GR to solve the unsettled issues
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   -Step 3
### 4. The schedule to review and/or develop technical regulations applicable to IWVTA

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>June 2012</td>
<td>64th GRPE</td>
<td>GRPE is expected to start the process to review and/or develop technical regulations applicable to IWVTA</td>
</tr>
<tr>
<td>November 2012</td>
<td>158th WP29</td>
<td>A special meeting attended by GR Chairpersons and IWVTA Informal Group to discuss the guideline issues and to clarify open questions is planned in November 2012</td>
</tr>
<tr>
<td>June 2013</td>
<td>160th WP29</td>
<td>Each GR must submit the status report to WP.29 in June 2013</td>
</tr>
<tr>
<td>June 2015</td>
<td>166th WP29</td>
<td>Each GR must submit the reviewed and/or developed UN Regulations applicable to IWVTA to WP29 for consideration by June 2015</td>
</tr>
</tbody>
</table>
Based on this guideline, each GR (Experts group of WP29) will examine the followings and will report their proposal to Informal Group.

- the validity of the identified UN Regulations (R97, 25 for M1 etc)

- the necessity of the identified UN Regulations to be included in IWVTA

- the necessity to split the identified UN Regulations (ESC BAS requirement from R13H, TPMS requirement from R64, etc)

- the necessity to amend the identified UN Regulations,

- the possibility to develop the unified requirements (necessity of regional applicable regulation)

- the necessity to separate the identified UN Regulations for the M1 category vehicles and the vehicles of the other categories

First report will be presented in June WP29 2013 and finalize them in June 2015
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   -Step 3
5. The candidate items for technical regulations applicable to IWVTA to be reviewed and/or developed by GRs (Working Doc. WP29-150-25)
1. The candidate items for technical regulations applicable to IWVTA *(GRPE)* to be finalized and submitted to WP29 at its 157 session in June 2012

<table>
<thead>
<tr>
<th>No.</th>
<th>Items</th>
<th>UN Reg.</th>
<th>Suggested Actions, Notes</th>
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<tbody>
<tr>
<td>56</td>
<td>Emissions (Euro 5 and 6) light duty vehicles/ access to information</td>
<td>83</td>
<td>R83 Is to be amended after adoption of WLTP GTR</td>
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<tr>
<td>47</td>
<td>Diesel smoke</td>
<td>24</td>
<td>Validity should be discussed</td>
</tr>
<tr>
<td>56b</td>
<td>Diesel emissions</td>
<td>49</td>
<td>M1 of only 3.5t or more R49 Is to be amended after adoption of WHDC GTR</td>
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<tr>
<td>52</td>
<td>CO2 emissions/ fuel consumption</td>
<td>84,101</td>
<td>R101 supersedes R84</td>
</tr>
<tr>
<td>27</td>
<td>Engine power</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Air-conditioning systems</td>
<td>none</td>
<td>Necessity should be discussed</td>
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</tbody>
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6. Explanation of the flow chart of the Guideline for GR to review technical regulations applicable to IWVTA

Step 0

<table>
<thead>
<tr>
<th>WP.29</th>
<th>IWVTA Informal Group</th>
<th>GRs</th>
</tr>
</thead>
<tbody>
<tr>
<td>-Approve in principle the candidate of technical regulation items applicable to IWVTA</td>
<td>[start] -Propose the candidate of technical regulation items applicable to IWVTA</td>
<td>-Check points to be examined</td>
</tr>
<tr>
<td>-Request GR to review candidate of technical regulation items applicable to IWVTA</td>
<td></td>
<td>-Make a plan to review candidate of technical regulation items applicable to IWVTA</td>
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<tr>
<td></td>
<td></td>
<td>-Decides Sponsor for each candidate of technical regulation items</td>
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<td></td>
<td>-Correspondent UN Regulation: present …To Step 1</td>
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<td></td>
<td>-Correspondent UN Regulation: absent …To Step 2</td>
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</table>
### Step 1

<table>
<thead>
<tr>
<th>WP.29</th>
<th>IWVTA Informal Group</th>
<th>GRs</th>
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<tbody>
<tr>
<td>Consider the GR report coordinated and consolidated by IWVTA Informal Group and give guidance to the concerned GR in accordance with the requests</td>
<td>Coordinate and consolidate GR all activities and report to WP29</td>
<td>GRs</td>
</tr>
</tbody>
</table>

**[start]**

1. **(i) Valid or not?**
   - 
   - **Y** / **N**

2. **(ii) Necessary or not?**
   - 
   - **Y** / **N**

3. **(iii) Need to split or not?**
   - 
   - **Y** / **N**

4. **(iv) Need to amend or not?**
   - 
   - **Y** / **N**

5. **(v) Can be unified or not?**
   - 
   - **Y** / **N**

6. **(vi) Need to separate M1 or not?**
   - 
   - **Y** / **N**
Step 1

1. **WP.29**
   - Need to amend the concerned UN Regulation
     - Y
     - Approve the amended UN Regulation
       - Y
       - Include the approved amended UN Regulation in UN R0

2. **IWVTA Informal Group**
   - Coordinate and consolidate GR all activities
     - to report

3. **GRs**
   - Decide to amend the concerned UN Regulation
     - Y/N
     - Develop proposal to amend the concerned UN Regulation
     - to regular adoption procedure
     - Go to Step 3
## Step 2

<table>
<thead>
<tr>
<th>WP.29</th>
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<th>GRs</th>
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<tbody>
<tr>
<td><strong>Need for a new UN Regulation</strong></td>
<td>Coordinate and consolidate GR all activities</td>
<td><strong>Decide to develop a new UN Regulation</strong></td>
</tr>
<tr>
<td>Y</td>
<td>to report</td>
<td>Y/N</td>
</tr>
<tr>
<td><strong>Approve the new UN Regulation</strong></td>
<td>to regular adoption procedure</td>
<td><strong>Develop proposal for a new UN Regulation</strong></td>
</tr>
<tr>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Include the approved new UN Regulation in UN R0</td>
<td><strong>Go to Step 3</strong></td>
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Step 3

WP.29 | IWVTA Informal Group | GRs
---|---|---

Propose the final list of UN Regulation for IWVTA

Reconsider the list of UN Regulations for IWVTA, if necessary

Final consultation process, if necessary

Interactive process among WP.29, GRs and IWVTA Informal Group requires cooperative approach such as IWVTA Ambassador.