

Update World Harmonization of Vehicle Regulation

“1958 Agreement Revision 3 Issue”

**Automotive Engineering Bureau
Department of Land Transport
June 2015**

Content

- **WP.29, 1958 Agreement & Current Status**
- **New Revision of the 1958 Agreement**
- **Challenge for Thailand**
- **Conclusion**

WP.29 & 1958 Agreement

- * **WP.29 is a working party under UNECE auspices**
- * **6 GRs are WP.29 subsidiary which has primary concern on active safety, passive safety, environment and general safety**
- * **WP.29 & 6 GRs work for the areas covered by 3 Agreement , namely**
 - **1958 Agreement – new vehicle reg. & MRA, enforced since 1959**
 - **1997 Agreement – vehicle inspection**
 - **1998 Agreement - new vehicle reg. only**

WP.29 Chart



UN / General Assembly

ECOSOC

Economic and Social Council

ECE

Economic Commission for Europe

ESCAP

E.C. for Asia & the Pacific

ITC

Inland Transport Committee

WP.29

World Forum for Harmonization of Vehicle Regulations

**AC.1,AC.2
AC.3,AC.4**

GRB

GRE

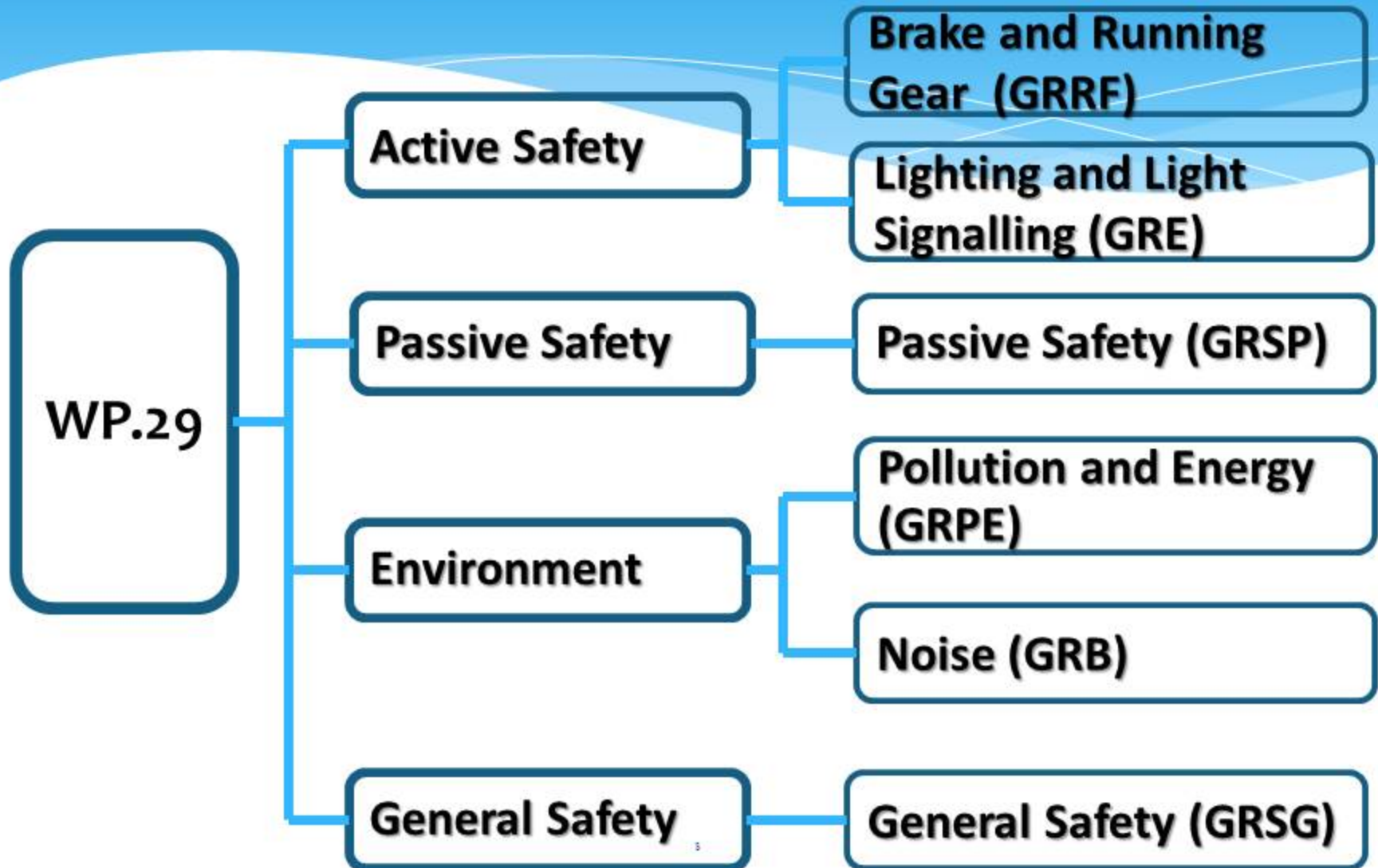
GRPE

GRRF

GRSG

GRSP

WP.29 and Its Subsidiary



WP.29 and Its Agreements

WP.29

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graph TD; WP29[WP.29] --- A1958[1958 Agreement]; WP29 --- A1997[1997 Agreement]; WP29 --- A1998[1998 Agreement]; A1958 --- UR[UN Regulations]; A1997 --- UNR[UN Rules]; A1998 --- UNGTR[UN GTRs];
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**1958
Agreement**

**1997
Agreement**

**1998
Agreement**

**UN
Regulations**

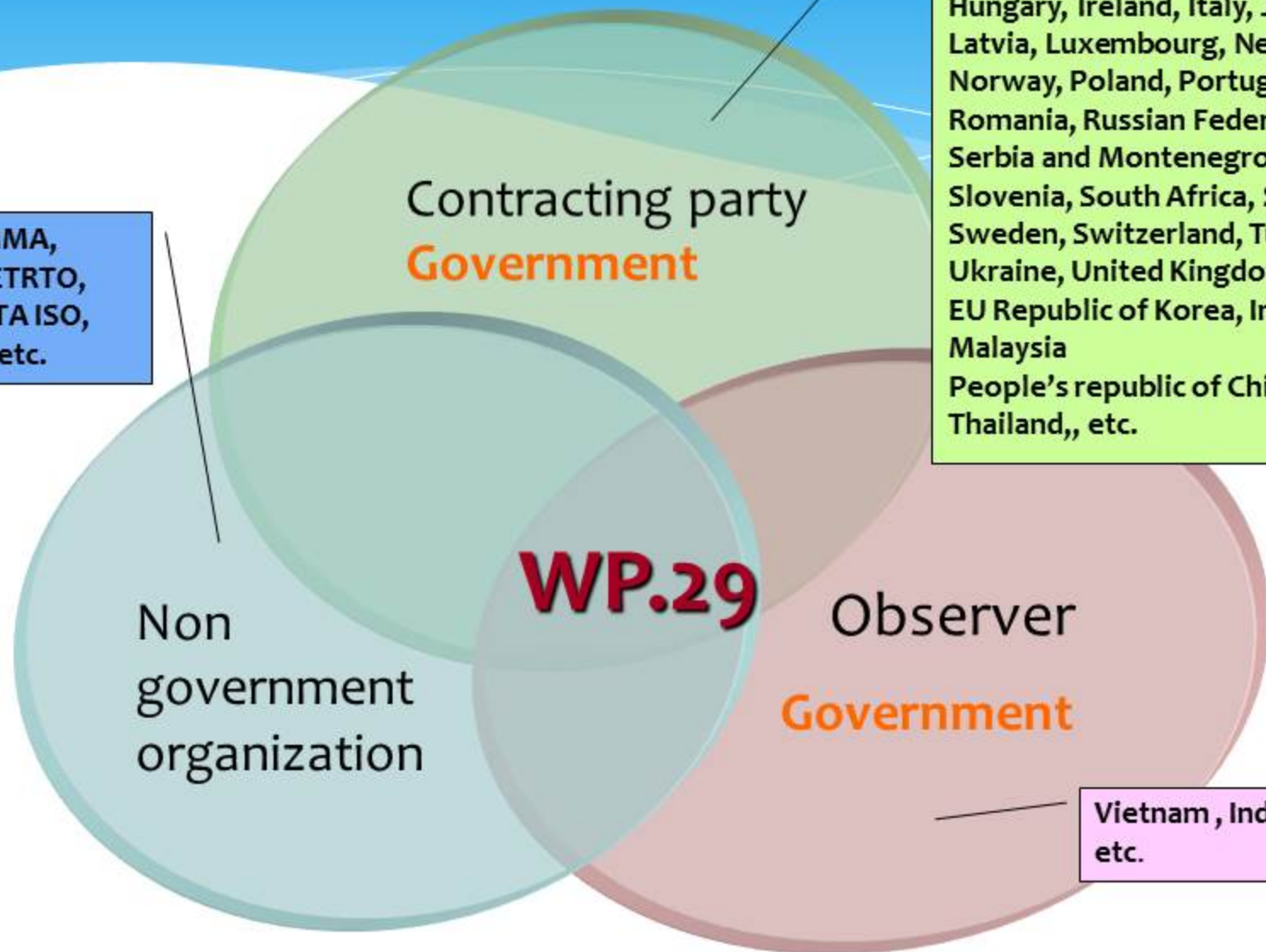
UN Rules

UN GTRs

output

Participants of WP.29

OICA, IMMA,
CLEPA, ETRTO,
AMA, CITA ISO,
AIT/FIA, etc.



Australia, Austria, Canada, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Japan, Latvia, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia and Montenegro, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, USA, EU Republic of Korea, India, Malaysia
People's republic of China, Thailand,, etc.

Vietnam , Indonesia,
etc.

Current Status of 1958 Agreement

- * 52 Contracting Parties at 18 June 2015**
 - 43 from ECE Countries**
 - 9 Non ECE Countries (Australia, Egypt, Japan, Malaysia, New Zealand, South Korea, South Africa, Thailand, Tunisia)**
- * 133 UN Regulations annexed 1958 Agreement at 18 June 2015**

133 UN Regulations

- R 1&2 Headlamps
- R 3 Reflex Reflectors
- R 4 Rear Registration Plate Lamps
- R 5 Sealed Beam Headlamps
- R 6 Direction Indicators
- R 7 Front and Rear Position (Side) Lamps, Stop Lamps and End-Outline Marker
- R 8 Halogen Headlamps (H1,H2,H3,HB3,HB4,H7,H8 and/or HIR1)
- R 9 Noise (Three-Wheeled Vehicles)
- R 10 Radio Interference Suppression
- R 11 Door Latches and Hinges
- R 12 Steering Mechanism
- R 13 Braking
- R 13-H Braking (13-H)
- R 14 Safety Belt Anchorages
- R 15 Exhaust Emission
- R 16 Safety Belts
- R 17 Seats
- R 18 Protection Against Unauthorized Use
- R 19 Front Fog Lamps
- R 20 Halogen Headlamps (H4)
- R 21 Interior Fittings
- R 22 Motor Cycles Helmet
- R 23 Reversing Lamps
- R 24 Diesel Smoke
- R 25 Head Restraints
- R 26 External Projections
- R 27 Warning Triangles
- R 28 Audible Warning Devices
- R 29 Cab of a Commercial Vehicles
- R 30 Pneumatic Tyres (Passenger Vehicle)
- R 31 Halogen Sealed Beam Headlamps
- R 32 Rear-end Collision
- R 33 Head-on Collision
- R 34 Prevention of Fire Risks
- R 35 Arrangement of Foot Controls
- R 36 Construction of Public Service Vehicles
- R 37 Filament Lamps
- R 38 Rear Fog Lamps
- R 39 Speedometer
- R 40 Exhaust Emission (Motor Cycle)
- R 41 Noise (Motor Cycle)
- R 42 Front & Rear Protective Devices
- R 43 Uniform Provisions Concerning The Approval Of Safety Glazing Materials
- R 44 Child Restraint Systems
- R 45 Headlamp Cleaners
- R 46 Devices for indirect vision
- R 47 Exhaust Emission (Moped)
- R 48 Installation of Lights
- R 49 Diesel Emission
- R 50 Lights (Moped, Motor Cycle)
- R 51 Noise
- R 52 Construction of Small Capacity Public Service Vehicles
- R 53 Installation of Lights (Motor Cycle)
- R 54 Pneumatic Tyres (Commercial Vehicle)
- R 55 Mechanical Coupling
- R 56 Headlamps (Moped)
- R 57 Headlamps (Motor Cycle)
- R 58 Rear Underrun Protection
- R 59 Replacement Silencing System
- R 60 Driver Operated Controls (Moped, Motor Cycle)
- R 61 External Projections (Commercial Vehicle)
- R 62 Protection Against Unauthorized Use (Motor Cycle)
- R 63 Noise (Moped)
- R 64 Temporary Spare Tyres
- R 65 Special Warning Lights
- R 66 Strength of Super Structure (Large Passenger Vehicle)
- R 67 Specific Equipment of Vehicles Using LPG
- R 68 Measurement of the Maximum Speed
- R 69 Rear Marking plates for slow-moving vehicles and their trailers
- R 70 Rear Marking Plates for Heavy and Long Vehicles
- R 71 Driver's field of vision (agricultural tractors)
- R 72 Halogen Headlamps (HS1 for Motor Cycle)
- R 73 Lateral Protection (Goods Vehicle)
- R 74 Installation of Lights (Moped)
- R 75 Pneumatic Tyres (Moped, Motor Cycle)
- R 76 Headlamps (Moped)
- R 77 Parking Lamps
- R 78 Braking (Category L)
- R 79 Steering Equipment
- R 80 Seat (Large Passenger Vehicle)
- R 81 Rear-view Mirrors (Motor Cycle)
- R 82 Halogen Headlamps (HS2 for Moped)
- R 83 Gaseous Pollutants
- R 84 Measurement of Fuel Consumption
- R 85 Measurement of Engine Power
- R 86 Installation of lighting and light-signalling devices (agricultural and forestry tractors)
- R 87 Daytime Running Lamps
- R 88 Retro reflective Tyres (Motor Cycle)
- R 89 Speed Limitation Devices
- R 90 Replacement Brake Lining Assemblies
- R 91 Side-marker Lamps
- R 92 Replacement Silencing System(Motor Cycle)
- R 93 Front Underrun Protection
- R 94 Protection of the Occupants in the event of a Frontal Collision
- R 95 Protection of the Occupants in the event of a Lateral Collision
- R 96 Emission of pollutants by the engine (agricultural and forestry tractors)
- R 97 Vehicle Alarm Systems
- R 98 Gas-Discharge Headlamps
- R 99 Gas-Discharge Light Sources
- R 100 Battery Electric Vehicles
- R 101 Emission of Carbon Dioxide and Fuel Consumption (Passenger Car)
- R 102 A Close-Coupling Device
- R 103 Replacement Catalytic Converters
- R 104 Retro-reflective Markings for Heavy and Long Vehicles
- R 105 The Carriage of Dangerous Goods with Regard to their Specific Construction
- R 106 Pneumatic Tyres (Agricultural Vehicles)
- R 107 Double-Deck Large Passenger Vehicles with Regard to their General
- R 108 Retreaded Pneumatic Tyres (Motor Vehicle)
- R 109 Retreaded Pneumatic Tyres (Commercial Vehicle)
- R 110 Vehicles using CNG
- R 111 Rollover stability (Tank vehicles if categories N & O)
- R 112 Headlamps
- R 113 Headlamps
- R 114 Airbag
- R 115 LPG and CNG retrofits system
- R 116 Protection of motor vehicle against unauthorized use
- R 117 Tyres with regard to rolling sound emissions
- R 118 Burning behavior of materials used in the interior construction
- R 119 Cornering lamp
- R 120 Measurement of the net power (agricultural or forestry tractors)
- R 121 Identification of controls, tell-tales and indicators
- R 122 Heating system
- R 123 Adaptive front-lighting systems (AFS)
- R 124 Replacement wheels for passenger cars
- R 125 Forward field of vision of drivers
- R 126 Partitioning systems
- R 127 Pedestrian Safety
- R 128 Light Emitting Diode (LED) light sources
- R 129 Enhanced Child Restraint Systems (ECRS)
- R 130 Lane Departure Warning System (LDWS)
- R 131 Advanced Emergency Braking Systems (AEBS)
- R 132 Retrofit Emission Control Devices (REC)
- R 133 Recyclability of motor vehicles

1958 Agreement and Its Amendment

Original version - 1959

Revision 1 - 1967

Revision 2 - 1995

- **UN Countries can participate**
- **Use self-certification as the alternative**
- **Making decision process on new draft regulation and existing amendment**
- **allow for earlier version of regulation to apply**

Reasons to Amend Current 1958 Agreement

- * **Reciprocal recognition under the Agreement cover only vehicle system, parts, and equipment, not whole vehicle**
- * **Increase the number of CPs to the Agreement**
- * **1958 Agreement remain the key international framework for harmonization of technical regulations in automotive sector**

Approaches to Revision 3

- * 2010, IWVTA informal group set up under WP.29
 - sub-group on 1958 Agreement
 - sub-group on UN Regulation 0
- * Recognition of the experience of European Union on the operation of WVTA (Whole Vehicle Type Approval) within the member states which globally success
- * Precisely defined the concept of mutual recognition in global world in order to avoid a lot of misunderstanding due to broad differences between CPs

Comparison between 1958 Agreement Rev. 2 & Rev. 3

Revision 2	Revision 3
Text of agreement	Text of agreement
Appendix 1 : AC.1	Appendix : AC.1
Appendix 2: COP	Schedule 1: COP
-	Schedule 2: Technical service
-	Schedule 3: TA procedure
-	Schedule 4: TA numbering
-	Schedule 5: TA Circulation
-	Schedule 6: Resolving interpretation
-	Schedule 7: New technologies
-	Schedule 8: Virtual testing

Text of Agreement (1)

- * Keep the same principles as the current revision e.g.**
 - MRA principle of applying UN Reg.**
 - not mandate to applying the existing UN Reg. when acceding the Agreement**
 - allow to apply UN Reg. later when the CP 's readiness**
 - right for a CP to cease application of a UN reg.**

Text of Agreement (2)

- * **new coverage, e.g. :**
 - **issue and accept type approvals according to earlier version of UN Regulations (may also be used in IWVTA)**
 - **right to start applying a new UN regulation at a later stage**
 - **Add new UN Reg. concerning IWVTA in near future**

Appendix : AC.1

Rule of procedure of Administrative Committee

New adds for improve the functioning and reliability of the Agreement e.g.:

- **Flexible amendment procedure for the Schedules for Administrative Procedural Provisions (SAPP – schedule 1-8)**
- **Authorisation procedure for CP to issue exemption approvals for new technologies**
- **Majority vote threshold expect to increase**

SAPP

- * Schedule 1 – 8 will be included in the revised 1958 Agreement**
- * Apply to all UN regulations annexed to the Agreement and to all CPs applying UN Reg.**
- * Mainly based on guidance documents WP29/1059 & WP29/1044/rev.1**

1958 Agreement rev.3

Proposal for amendment - revision 3 -	ECE/trans/wp.29/ 1059 (9 may2007)	EU Directive 2007/46 : WVTA Framework (5 September 2007)
Text of agreement		
Appendix : AC.1		
Schedule 1: COP		/ (ann. X)
Schedule 2: Technical service	/(D)	/(ann. V, app.1&2)
Schedule 3: TA procedure	/(C)	/
Schedule 4: TA numbering		/
Schedule 5: TA Circulation		
Schedule 6: Resolving interpretation	/(A)	
Schedule 7: New technologies	/(B)	/(chap. VIII)
Schedule 8: Virtual testing		/(ann.XVI)

Schedule 1: COP

- * Clearer provisions on conformity of production e.g.**
- * Before getting certificate**
 - Initial assessment
- * After getting certificate**
 - Product conformity arrangements
 - Continued verification arrangements

Schedule 2: Technical Service

**Inclusion of assessment criteria for technical services
e.g.**

- * Assessment, designation and notification**
 - Designation of technical services**
 - Assessment of the skills of technical services**
 - Procedure for notification**
- * Standards qualification for technical services**
- * Procedure for the assessment of technical services**

Schedule 3: UN Type Approval Procedure

- * **How to apply for and how to conduct UN type approval :**
 - “worst case” principle for testing selection and virtual testing may be the alternative
- * **How to amend UN type approvals :**
 - “revision” – minor change on information document and test report, no adverse effect
 - “extension” – major change, need further test

Schedule 4: UN Type Approval Numbering

- * Harmonised procedure for numbering of type approval e.g. : E4*58R00/00*0004*02
- * 4 sections : each separate with ‘ * ’
 - section 1 : ‘ E..’ followed by distinguishing CP no.
 - section 2 : UN reg. no. & its series, supp., stage
 - section 3 : 4 digits sequential no. of TA
 - section 4 : 2 digits sequential no. of the extension

Schedule 5: UN Type Approval Circulation

- * **Information exchange between CPs on approvals issued**
 - **paper copies, e-mail in electronic format or secure internet database established by UNECE**
- * **DETA database e.g. approval, extension, refusal, withdraw, product is definitely discontinued**
- * **Approval marking required by UN Reg. may replaced by unique identifier**

Schedule 6: Resolving Interpretation

- * Procedure for solving diverging interpretation between CPs concerning the application of UN reg. in case of**
 - prior to UN type approval being granted**
 - subsequent to UN type approval being granted**
- * Arbitration process through WP.29 and its subsidiary working parties**

Schedule 7: New Technologies

- * Procedure for exemption approvals of new technologies**
- * Provisional type approval may be granted**
- * Reasons and information submit to AC1. for making decision on requested exemption approval**
- * Any authorisation for granting the exemption approval will notify to relevant CPs**
- * Amend the existing UN reg. via concerned GRs**

Schedule 8: Virtual Testing

- * General conditions for virtual testing methods cover:**
 - virtual test pattern**
 - fundamental of computer simulation**
 - validation process**
 - Tools and support**

Progress of Revision 3 Amendment

- * **A few topics still in discussion e.g. majority vote threshold to increase from 2/3 to 4/5 or ???**
- * **if all CPs agree and no further topics to raise during WP.29 meeting, June session, revision 3 of 1958 Agreement will expect to enforce in the second quarter of 2016**

Challenge to Thailand (1)

- * While final draft of revision almost finalized, DLT set up a committee for 1958 Agreement, revision 3 consideration**
- * 2 working groups**
 - consider the text of revision 3**
 - plan to formally adopt UN reg.**

Challenge to Thailand (2)

- * Positive response on preliminary consideration of revision 3**
- * Plan to amend DLT's notifications concerning national type approval aligning with revision 3, e.g. COP, after 1958 Agreement, revision 3 enforced**

Conclusion

- * Revision 3 of 1958 Agreement provide more flexibility, clarification, information and fairness for non CPs and existing CPs to implement**
- * Revision 3 of 1958 Agreement will also be a key international framework for harmonization of technical regulations in automotive sector**

- Thank you -

*** “World Forum for Harmonization of Vehicle Regulations (WP.29) – How It Works, How to Join It ” (June 2012)**

www.unece.org/transport/resources/publications/publications.html

*** 1958 Agreement , Revision 3**

ECE/TRANS/WP.29/2015/40