Recent developments on Cyber Security

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ITS and UNECE

The Member States adopted the UNECE Roadmap on ITS in 2012

• 20 Actions
• Multidisciplinary
• 3 Inland Transport modes

Action 5 is about ensuring data security
- Risks
- Reliance on standards and regulations to achieve data protection and cyber security

➔ Guideline on Cybersecurity and Data Protection
➔ Regulation on Cybersecurity

https://www.unece.org/trans/theme_its.html
Cyber security

3 pillars
- People
- Processes
- Technologie

5 functions
- Identification
- Protect
- Detect
- Respond
- Recover
Specific achievement in 2020 at ECE regarding cyber security

- Following the adoption of a guideline on *Cyber Security and Data Protection* in 2016

- Adoption of a new UN Regulation No. 155
  - June 2020
  - About:
    - Cyber Security
    - Cyber Security Management System

- Scope
  - passenger cars, vans, trucks and buses,
  - light four-wheeler vehicles if equipped with automated driving functionalities from level 3 onwards – this covers the new automated pods, shuttles etc.; trailers if fitted with at least one electronic control unit.
UNECE’s role regarding vehicles

**What is WP.29 doing?**
- Emissions of pollutants and CO₂
- General safety
- Passive safety
- Noise and tires
- Automated/autonomous and connected vehicles
- Lighting and light signalling

**Where?**
Frameworks – relevant UNECE’s multilateral Agreements

1958 Agreement:

- “UN Regulations”
- Directly applicable by the stakeholders/industry
- Mutual recognition of Type Approvals

1998 Agreement:

- “UN Global Technical Regulations”
- Requires transposition in national law
- No administrative procedures -> suitable for:
  - Self Certification
  - Type Approval
Status of the UN Regulation No. 155

**Draft Phase**
- ~2 years of drafting
- Started in December 2016
- Co-Chairs:
  - Japan
  - United Kingdom
  - United States

**Test Phase**
- 1 year of testing
- Regulation is not conventional
- Relies on “audits”
- Lifetime and lifecycle provisions
- Checks before vehicle is put on the market

**Status**
- Adopted
- Vote/adoption by AC.1 (24 June 2020)
What is happening now?

Interpretation document
- Mutual Recognition of Type Approval Certificates

Extraction of technical requirements
- From the UN Regulation
- 1998 Agreement Contracting Parties

Adaptation of the DETA database
- Communication among the responsible Approval Authorities

Recent announcements from the European Union and Japan:
- 07/2022 (new vehicles types) and 07/2024 according to the new EU General Safety Regulation;
- Japan: Application “without delay” of the Regulation.
THANK YOU VERY MUCH FOR YOUR ATTENTION

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http://www.unece.org/automated-vehicles

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