Joint OSCE-UNECE Roundtable on ITS and Cyber Security 8 September 2020 – 3.00 p.m. Geneva

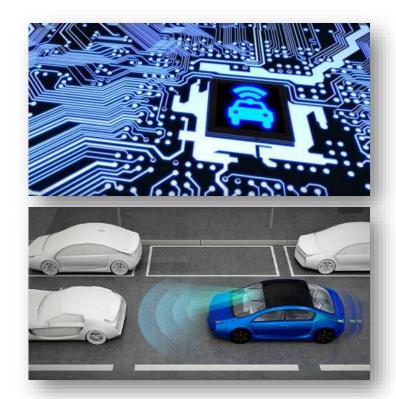
Recent developments on Cyber Security



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Secretary to the Working Party on Automated/Autonomous and Connected Vehicles

United Nations Economic Commission for Europe



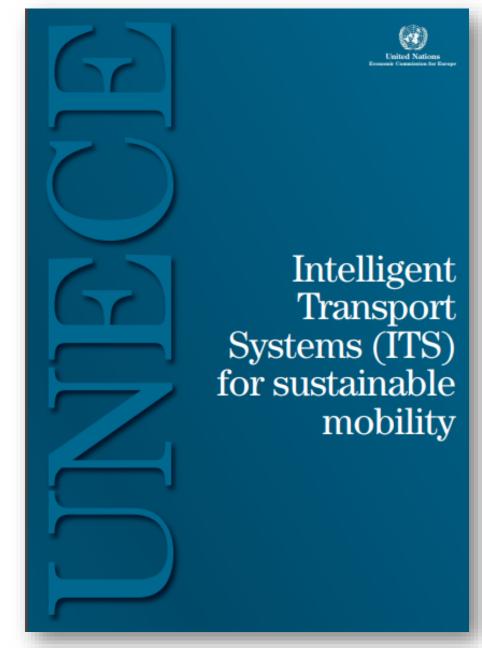
ITS and UNECE

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

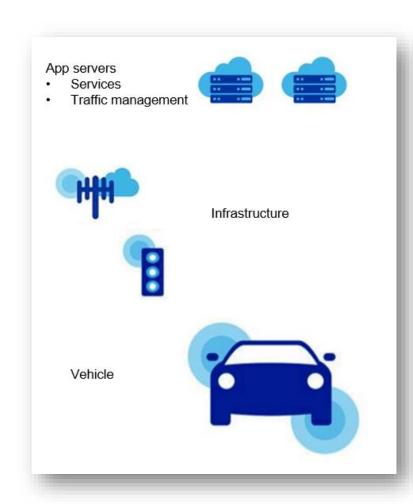
Identification

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.

United Nations

ECE/TRANS/WP.29/2020/79



Economic and Social Council

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Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Geneva, 23-25 June 2020 Item 4.12.4 of the provisional agenda

1958 Agreement

Consideration of proposals for new UN Regulations submitted by the Working Parties subsidiary to the World Forum

> Proposal for a new UN Regulation on uniform provisions concerning the approval of vehicles with regards to cyber security and cyber security management system

Submitted by the Working Party on Automated/autonomous and Connected Vehicles

The text reproduced below, proposing a new UN Regulation on on uniform provisions concerning the approval of vehicles with regards to cyber security and cyber security management system, was drafted by the Task Force on Cyber Security and Over-the-Air issues and reviewed by GRVA. It was produced in accordance with the Framework Document on the safety of Automated Vehicles ECE/TRANS/WP.29/2019/34 as revised. It was adopted by the Working Party on Automated/autonomous and Connected Vehicles at its fifth session, see ECE/TRANS/WP.29/GRVA/6, para. 23., based on ECE/TRANS/WP29/GRVA/2020/3 as amended by GRVA-06-19-Rev.1. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and its Administrative Committee for the 1958 Agreement (AC.1) for consideration and vote at their June 2020

GRVA was not in the position to finalize the drafting of paragraph 5.3. due to the lack of time. The Contracting Parties having expressed a position on this paragraph volunteered to further discuss after the session and to prepare a document solving the issue on para, 5.3 and subparagraphs complementing this document. This document is bearing the official symbol ECE/TRANS/WP.29/2020/97.

In accordance with the programme of work of the Inland Transport Committee for 2020 as outlined in proposed programme budget for 2020 (A/74/6 (part V sect. 20) para 20.37), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate









UNECE's role regarding vehicles







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:



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

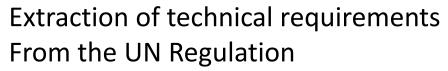
Vote/adoption by AC.1 (24 June 2020)



What is happening now?



→ Mutual Recognition of Type Approval Certificates



→ 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

UNECE

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

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