

29 August 2023
Original: English

**United Nations
Economic Commission for Europe**

CONCEPT NOTE

I. TIME AND VENUE

1. The United Nations Economic Commission for Europe is organizing a workshop on “V2X: Electric vehicle charging, Communication and Infrastructure” with the support of the Task force on Vehicular Communication the sub group of Informal Working Group on ITS and its co-chairs, Japan, the United Kingdom of Great Britain and Northern Ireland and the United States of America and Vice Chair, People’s Republic of China. The workshop will be organized as online meeting hosted from the Palais des Nations on the 30 August 2023 and will be followed by the 3rd Session of the Task Force on Vehicular Communication on 31 August 2023.

II. BACKGROUND

2. ITC reviewed ECE/TRANS/2023/23, a report from the secretariat taking stock of new trends towards electric vehicle charging infrastructure, which included recommended actions to ITC. ITC welcomed the document and requested, among others, that WP.29 make proposals on possible future activities on regulatory tools for harmonized communication between vehicles and Electrical Vehicle Supply Equipment (EVSE), taking into consideration already existing related standards and/ or protocols.

3. At the 85th Session ITC, WP.5, WP.6 & WP.29 co-organised a side event, entitled “What are the Infrastructure Barriers to Mass Electric Vehicle Adoption”? The event provided a forum for discussions by policy makers and statisticians to exchange experiences on

- public charging infrastructure,
- Access to data and communication protocols on passenger EVs and its charging infrastructure, and
- the need for harmonization of technical standards, both software and hardware related to EVs and recharging infrastructure.

4. In response to the request from ITC, WP.29 tasked the IWG on ITS with this topic. The IWG on ITS established a Task Force to address vehicular communications and the ITC request in particular. The Task Force decided to organize a workshop, for which this concept note is prepared.

5. At the 2nd session of the Task Force on Vehicular Communication, the group agreed to organize a workshop on the communication between vehicles and EVSE.

III. PURPOSE

6. The purpose of this workshop is to explore the potential benefits from communication between vehicles and Electrical Vehicle Supply Equipment (EVSE), and to facilitate an open dialogue to explore the questions, “Is regulatory or other harmonisation activity by WP.29 considered necessary in this area?” and if so, “What areas should be the prioritised?”.

The priority areas to explore will be:

- i. Ensuring safety and optimal communication and
- ii. Identifying the purpose of communication;
 - Decreasing charging time
 - V1G (smart charging)
 - V2G / bidirectional charging
 - Managing the load on the grid
 - Interoperability

7. The target audience are the representatives of contracting parties, automotive and telecommunication experts, data protection and privacy experts, the Approval Authorities and the technical services of contracting parties

IV. PROGRAMME

Day 1: Workshop: V2X: Electric vehicle charging, Communication and Infrastructure

Time 12:00 – 3:00 CEST; Date: 30 August 2023

Invited Speakers

- OICA
 - Jan Luehmann
- Avere
 - Philippe Vangeel
- CharIN Global
 - Glenn Cezanne
- UK
 - Dr. Josey Wardle
- China
 - Ms. Li Chun

Specially invited participants

- DG Move
- Joint office of Energy and Transportation
- CATARC
- ETSI

Day 2: Task force on Vehicular Communication

Time 12:00 – 3:00 CEST; Date: 31 August 2023

Agenda: Refer to VCTF-03-01

[3rd Session of the Task Force on Vehicular Communications - Transport - Vehicle Regulations - UNECE Wiki](#)

V. LANGUAGE

9. The working language of the workshop and the Task Force meeting is English