Proposal for V2V data interaction

For the 14th meeting of WP.29/GRVA

Submitted by the experts from China
2022/09/27
Data interaction improves driving safety

• **Promote the connectivity of vehicles.** Whether a vehicle can send and receive data accurately is an important factor for the vehicle to realize connection function.

• **Improve traffic safety.** Based on the V2V data interaction, vehicles can realize functions such as vehicle fault warning, forward collision warning, emergency braking warning, to improve traffic safety.

![Diagram showing data interaction and vehicle interconnection]
V2V data interaction has a broad practice for standards and regulations

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<thead>
<tr>
<th>1. ISO</th>
<th>2. ITU</th>
<th>3. IEC</th>
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<tr>
<td>ISO/TC22/SC31</td>
<td>ITU has developed standards related to connected vehicles, such as H.550, H.560, Y.4119, etc</td>
<td>IEC has formulated relevant standards for communication interface between vehicle and grid</td>
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<td>□ WG6 Extended vehicle/Remote diagnostics</td>
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<th>4. SAE</th>
<th>5. Europe</th>
<th>6. Japan</th>
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<td>□ SAE has formulated SAE J2735, SAE J2945 and SAE J3161 series standards.</td>
<td>European ETSI has formulated four types of networked vehicle standards, including active road safety, cooperative traffic efficiency, cooperative local service and global Internet service, covering V2V, V2I, V2N, etc</td>
<td>The ITS Connect Promotion Association of Japan has promoted the formulation of message sets, communication specifications, communication security, testing and other standards.</td>
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Proposal for carrying out preliminary research on V2V data interaction

- China proposes to carry out preliminary research on V2V data interaction at the WP.29 level, so as to promote vehicle connectivity and improve driving safety around the world.
- Standardize the content and format of V2V data interaction, and do not restrict the communication technology route.
How to carry out V2V data interaction

- Is the object of V2V data interaction regulation a system or a whole vehicle?

- If V2V data interaction regulations are formulated, at what level should this work be carried out? A dedicated Task Force or other Task Force?

- How to coordinate the formulation of standards/regulations on the communication level of V2V data interaction?
Thank you for your attention!

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