Approach of Republic of Korea
Harmonizing the UN Regulation no.155
Institutionalization of Automotive Cybersecurity

✓ Stepwise approach, introducing the provisions of the regulation on Cybersecurity in a national guideline in the second half of 2020, and proceeding with the implementation of the regulation in a second step.

1. CSMS
   - Cybersecurity Organization and Process

2. (Vehicle Type) Cybersecurity applied Vehicle Architecture
   - Development
   - Risk Management
   - Mitigation

3. Report
   - Share Threats and Vulnerabilities
   - Monitoring report

Guideline of Automotive Cybersecurity based on UN Harmonized Regulation
To utilize as a reference before establishing the regulation on cybersecurity (‘20)
To help the automotive industry in Korea to prepare for cyber security in advance

Second Step
Legislation/Regulation of Automotive Cybersecurity
Institutionalization of Automotive Cybersecurity

- Draft Guideline: 15 Nov. 2019
- UN WP.29 Regulation No.155, 156: June. 2020
- Cyber Security Guideline: 15 Dec. 2020
- Entry into force: Jan. 2021
- Regulation: July.2022~

Recommendation

Legislation
Purport of the recommendation

- To provide the guidance for the manufacturers and the role of the approval/test authority so that manufacturers and stakeholders can prepare for the national regulations.
- To provide the recommendation first for matters, based on the UNR no.155, that are likely to be established as national regulations in the future.

Comparison of Recommendation and UN Regulation

<table>
<thead>
<tr>
<th>Comparison</th>
<th>UN Regulation</th>
<th>(ROK) Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandate</td>
<td>Mandate in adoption</td>
<td>Non-mandatory recommendation</td>
</tr>
<tr>
<td>Certification type</td>
<td>Type approval</td>
<td>Only include recommendations applicable regardless either type approval or self-certification</td>
</tr>
<tr>
<td>Major contents</td>
<td>General (Scope, definitions, etc.)</td>
<td>Same as UNR</td>
</tr>
<tr>
<td></td>
<td>Cybersecurity requirements</td>
<td>Same as UNR</td>
</tr>
<tr>
<td></td>
<td>Manufacturer’s obligations to report</td>
<td>Recommendation about data sharing by manufacturers</td>
</tr>
<tr>
<td></td>
<td>Administrative Matters (Procedures, Document, Penalties, Supplementary Provision)</td>
<td>Not included</td>
</tr>
<tr>
<td></td>
<td>Matters with the characteristics of type approval (CSMS certificate, DETA data sharing)</td>
<td>Not included</td>
</tr>
</tbody>
</table>
Automotive Cybersecurity Support and Response System

- Establish an automotive cyber security support and response system, which manages the cyber security risks and supports to strengthen the security level of vehicles, against cyber threats.

Strategy to improve Automotive Cybersecurity

<table>
<thead>
<tr>
<th></th>
<th>Y2020</th>
<th>Y2021</th>
<th>Y2022</th>
<th>Y2023</th>
<th>Y2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>National legislation and rulemaking</td>
<td>Automotive cybersecurity guideline</td>
<td>Amend ‘Motor Vehicle management Act’</td>
<td>Amend the regulation</td>
<td>Issue Automotive Cybersecurity law and safety/security regulation</td>
<td></td>
</tr>
<tr>
<td>Automotive cybersecurity Support and Response system</td>
<td>Planning</td>
<td>Establish/Operate Automotive cybersecurity committee</td>
<td>Build Automotive cybersecurity center with Pilot</td>
<td>Advancedment</td>
<td>Build Automotive Cybersecurity Knowledgebase</td>
</tr>
</tbody>
</table>

- Automotive Cybersecurity test/evaluation and enforcement support
- Private sector support to develop technology related to automotive cybersecurity
- Automotive Cybersecurity Incident Response and Support