

UN ECE Requirements for Vehicle Types

ISO/SAE 21434 Requirements

<p>7.3.2</p>	<p>The Approval Authority or Technical Service shall verify that the manufacturer has taken the necessary measures relevant for the vehicle type to:</p> <ul style="list-style-type: none"> (a) Collect and verify as appropriate information required under this regulation, through the full supply chain. (b) Maintain appropriate design and test information. (c) Implement appropriate security measures in the design of the vehicle and its systems. 	<p>✓</p>	<p>5.2.4.4 Cybersecurity case</p> <ul style="list-style-type: none"> (a) Supported by 10.3 DIA. (b) Supported by 8.1 System development phase (esp. 8.1.4.2.2) and 8.1.4.3. (c) Supported by 8.1.4.2 Cybersecurity specification.
<p>7.3.3</p>	<p>The vehicle manufacturer shall demonstrate the risk assessment for the vehicle type in terms of the vehicle systems, the interactions of the different vehicle systems and the entire vehicle.</p>	<p>✓</p>	<p>6 Risk assessment methods.</p>
<p>7.3.4</p>	<p>The vehicle manufacturer shall demonstrate how the design of critical elements of the vehicle type are protected against risks identified in the vehicle manufacturer's risk assessment. Proportionate mitigations shall be implemented to protect such elements.</p>	<p>✗</p>	<p>Risk Assessment method is described in clause 6.8, but is not called in the process description in clause 7. 6 Risk assessment methods, 8.1.4.4 Validation of integrated systems.</p>
<p>7.3.5</p>	<p>The vehicle manufacturer shall demonstrate how they have implemented appropriate and proportionate measures to protect dedicated environments on the vehicle type (if provided) for the storage and execution of aftermarket software, services, application or data.</p>	<p>□</p>	<p>No clear requirements on this, but ISO/SAE 21434 can be used to define them. Unclear whether App Developer has to follow ISO/SAE 21434 as well.</p>
<p>7.3.6</p>	<p>The vehicle manufacturer shall describe what testing has been performed to verify the effectiveness of the security measures implemented and the outcome of those tests.</p>	<p>✓</p>	<p>5.2.4.4 Cybersecurity case 8.1.5.5 Integration and test plan, 8.1.5.6 Integration and test report, 8.1.5.7 Validation report, 8.1.5.8 Report on residual risks.</p>