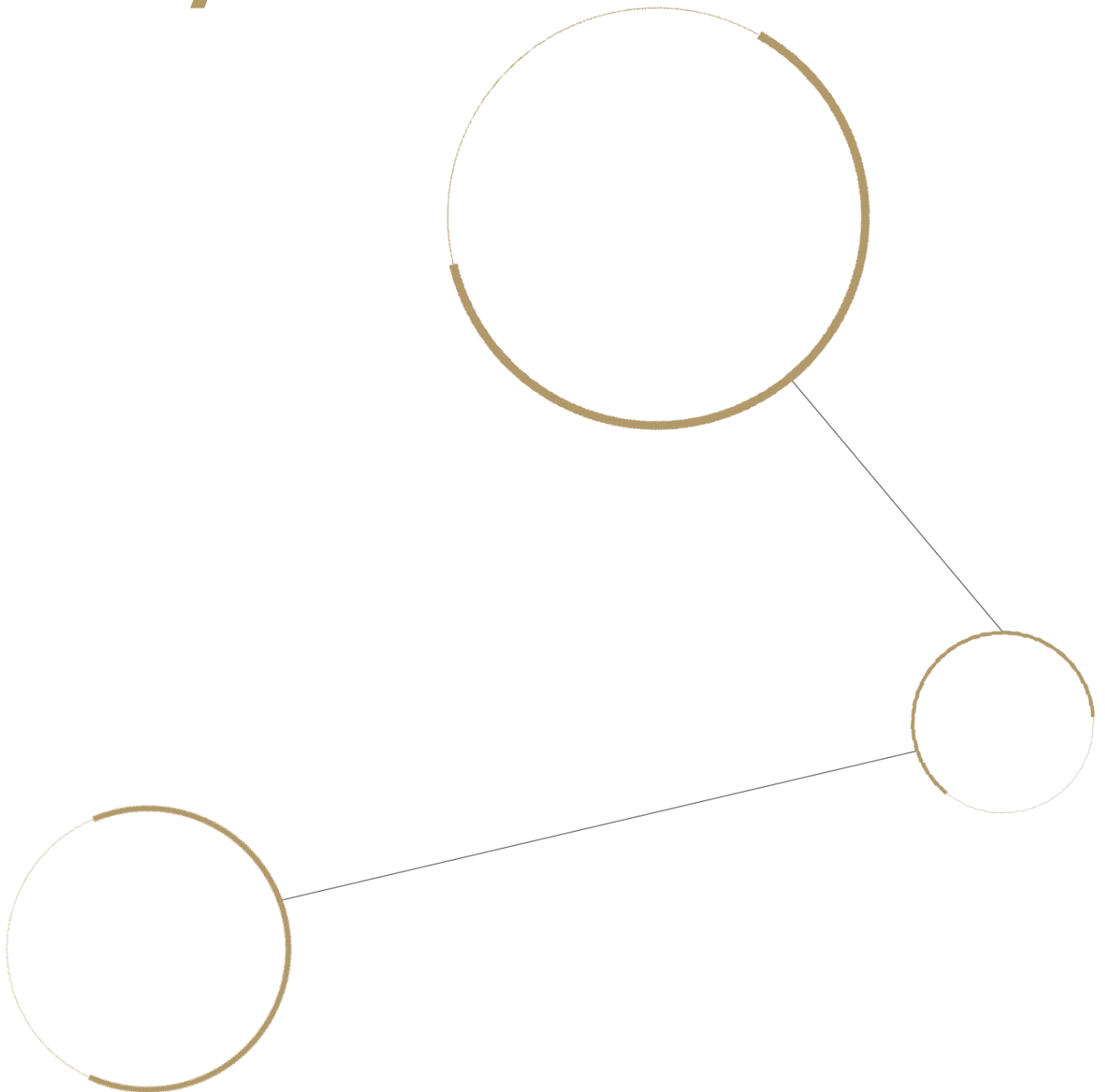


# Mapping WP.29 CSMS Requirements to the ISO/SAE 21434 Standard and Cybellum



UNECE – WP.29 CSMS Requirements	ISO/SAE-21434 Processes Requirements	Cybellum Product Security Solution
(A) The processes used within the manufacturer's organization to manage cybersecurity	<p>Chapters 5 and 6 define the process required for managing cybersecurity in the manufacturer's organization. For example:</p> <ul style="list-style-type: none"> <li>- 5.4.1 Cybersecurity Governance</li> <li>- 5.4.2 Cybersecurity Culture</li> <li>- 6.4.2 Cybersecurity Plan</li> <li>- 6.4.7 Cybersecurity Case</li> </ul>	As part of each of the activities a Vulnerability Management system should be discussed and in place, including the relevant roles in the organization, risk communication channels, playbooks and plans for risk treatment and implementation
<p>(B) The processes used for the identification of risks to vehicle types; and</p> <p>(C) the processes used for the assessment, categorization and treatment of the risks identified;</p>	<p>Chapter 8 defines the Risk Assessment methods, including:</p> <ul style="list-style-type: none"> <li>- 8.3 Asset Identification</li> <li>- 8.4 Threat Scenario Identification</li> <li>- 8.5 Impact Rating</li> <li>- 8.6 Attack Path Analysis</li> <li>- 8.7 Attack Feasibility</li> <li>- 8.8 Risk Determination</li> <li>- 8.9 Risk Treatment Decision</li> </ul>	<p>-TARA can be stored in the Cybellum system as part of the Cyber Digital Twin asset.</p> <p>- Correlation and updating the TARA scenarios can be done in Cybellum platform to achieve traceability throughout the life-cycle</p>
<p>(D) The processes in place to verify that the risks identified are appropriately managed; and</p> <p>(E) the processes used for testing the security of the system throughout its</p>	<p>Chapter 10 in ISO/SAE-21434 suggests various verification activities to be performed to confirm the implementation of the cybersecurity design:</p> <ul style="list-style-type: none"> <li>- 10.4.2. Integration and validation</li> </ul>	<p>- Cybellum Product Security Assessment automates the security requirements validation and helps in gap analysis and resolutions</p> <p>- Secure coding standards such as MISRA C and others are also automatically tested and checked as</p>

development and production phases;	- 10.4.3. Specific Requirements for Software Development	part of Cybellum Product Security Assessment
(F) The processes used for ensuring that the risk assessment is kept current;		Central Cybellum Cyber Digital Twin platform stores all assets and organization policies to constantly reassess the risk and match it with new information
(G) The processes used to monitor, detect and respond to cyber-attacks on vehicle types;	Chapter 7 defines the need for continuous cybersecurity activities, such as:  - 7.3 Cybersecurity Monitoring  - 7.4 Cybersecurity Event Assessment	Cybellum Product Operations constantly tracks new vulnerabilities, threats, exploits, etc. and monitors your assets to trigger the relevant events in case they are affected.  (without being installed on the vehicle, from the back-end only)
(H) The processes used to identify new and evolving cyber threats and vulnerabilities to vehicle types;	Chapter 7 defines the need for continuous cybersecurity activities, such as:  - 7.5 Vulnerability Analysis  - 7.6 Vulnerability Management	Cybellum includes a full Vulnerability Management System, to perform all vulnerability related activities from data collection, to triaging, event triggering and remediation. All activities are documented and ready to be exported for auditing and reporting
(I) The processes used to appropriately react to new and evolving cyber threats and vulnerabilities	Chapter 13 defines the operations and maintenance processes, such as:  - 13.3 Cybersecurity incident response	Cybellum Product Security Operations performs an on-going analysis of new events. Once a relevant event is detected, a playbook of actions can be automatically triggered to respond to the event

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