

## Risk Analysis Checklist according to UN-R 155, Annex 5

Reg. no. No. Date of assessment Date Assessed by Name

	Annex 5 No.	ok	nok	na/ne/comment		
Back-end servers related to vehicles in the field	7 111107 0 110.	Oit	Hok	Tia/Tie/GolilliTolic		
Attack on the vehicle	1		ПП			
Unauthorised access to data	1					
Attack on back-end server	2					
Attack on communication channel between back-end server and vehicle	2					
Loss of vehicle-related data (identification, control,)	3					
· · · · · · · · · · · · · · · · · · ·	3					
Falsification of vehicle-related data (identification, control,)	3					
Communication with the vehicle  Spoofing of data for the vehicle	4					
	5					
Spoofing, erasure, other modification of vehicle-held data						
Manipulation by unreliable or untrusted sources	6					
Manipulation by interception of data	/					
Manipulation by accessing sensitive data	7					
Manipulation of vehicle functions	8					
Manipulation by access by unprivileged user	9					
Manipulation by malicious software (malware)	10					
Manipulation by malicious messages received	11					
Manipulation by malicious in-vehicle messages	11					
Update of the vehicle						
Compromise of over-the-air software update procedures	12					
Compromise of local software update procedures	12					
Compromise by manipulated update software	12					
Compromise by preventing critical software updates	13					
Access by unintentional actions						
Access by unintentionally loading malware	15					
Access by no following security procedures	15					
External connectivity and connections						
Manipulation of functions designed to remotely operate the vehicle	16					
Manipulation of vehicle telematics	16					
Manipulation by wireless systems	16					
Access by manipulated applications	17					
Access via external interfaces (e.g., USB, OBD)	18					
Vehicle data/code			•			
Access to personal data and software	19					
Manipulation of personal or vehicle data (identity theft, falsifying vehicle parameters)	20					
Erasure of personal or vehicle data	21					
Introduction of malicious software (new software)	22					
Introduction of manipulative malicious software (overwriting existing software)	23					
Disruption of operations	24					
Manipulation of vehicle parameters	25					
Potential vulnerabilities						
Unsuitable encryption keys	26					
Use of deprecated cryptographic algorithms	26					
Hardware or software engineered to enable an attack	27					
- Haruware of Software engineered to enable all attack	41					



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Software bugs as a result of inadequate testing or poor programming	28			
Access via internet ports	29			
Access via other network interfaces	29			
<ul> <li>Unintended transfer of data (e.g., sale of vehicle, change of hired vehicle)</li> </ul>	31			
Manipulation by additional hardware	32			
Manipulation by hardware replacement	32			