

TARA Report

1. Item Definition

Headlamp preliminary architecture

2. Asset Identification

Element Name	Is Asset	Availability	Confidentiality	Integrity
Power switch actuator	True	True	False	True

3. Threat Scenario Specification

Asset Name	Threat Scenario	Affected Properties
Power switch actuator	An attacker gains unauthorized access to the vehicle's internal network and sends malicious commands to the power switch actuator, altering its behavior.	Integrity

4. Impact Analysis

Asset Name	Threat Scenario	Damage Scenario	Safety Impact	Privacy Impact	Financial Impact	Operational Impact
Power switch actuator	An attacker gains unauthorized access to the vehicle's power switch actuator, compromising its integrity.	The attacker disables the power switch actuator, causing the vehicle to lose power while in motion.	severe	negligible	major	severe

5. Attack Path Analysis

Asset Name	Threat Scenario	Attack Path	Elapsed Time	Equipment	Knowledge	Expertise	Window of Opportunity

Asset Name	Threat Scenario	Attack Path	Elapsed Time	Equipment	Knowledge	Expertise	Window of Opportunity
Power switch actuator	An attacker gains unauthorized access to the vehicle's power switch actuator and manipulates its state.	1. Gain physical access to the vehicle. 2. Locate the power switch actuator. 3. Use diagnostic tools to interface with the actuator. 4. Manipulate the actuator's state through the diagnostic interface.	up to one week	specialized	restricted information	proficient	moderate