xZETA

Gain Zero-Day Risk Insights From Our Superior Automotive Vulnerability and SBOM Management System

The automotive industry faces many challenges, from complying with new regulations to dealing with vulnerabilities and preparing for threats on the horizon. How can the automotive supply chain equip itself to handle these challenges?

Market Trends

- More connected cars and software-defined vehicles (SDVs) are available in the market, together with greater use of open systems.
- Supply chain compliance with regulations such as UN Regulation No. 155 (UN R155) and ISO/SAE 21434 is a must.
- The more connected the automotive industry becomes, the more lucrative it appears as a target of cybercriminal activity. As a result, there is growing concern over its susceptibility to cyberthreats.

What Are the Challenges?

- Too many electronic control units (ECUs) in a vehicle
- Too much open-source software used in ECUs
- The need to establish an efficient way to manage the software bill of materials (SBOM)
- The need to allocate resources and establish a process to monitor new vulnerabilities

VicOne's xZETA enables automotive OEMs and Tier 1 suppliers to embrace the efficiency of vulnerability and SBOM management while developing the ECUs of connected vehicles. It uses multilayered techniques such as static and dynamic analysis to detect vulnerabilities and potential malicious or backdoor behaviors and improve operational efficiency to fulfill UN R155 and ISO/SAE 21434 compliance.

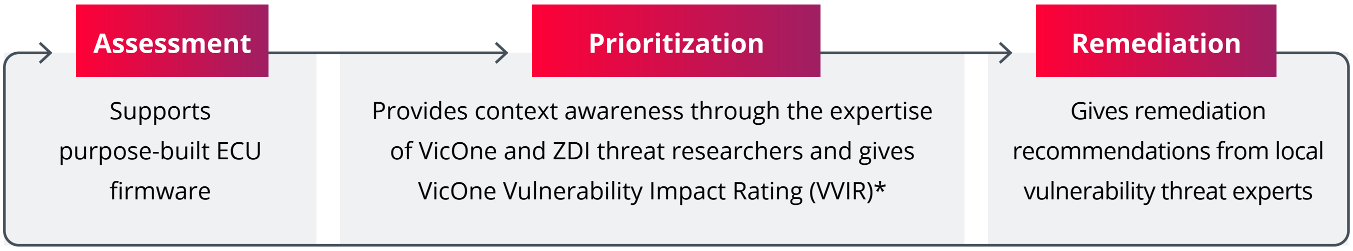
Key Advantages

Vulnerability Prioritization With System Context Awareness

- For OEMs, xZETA can help manage multiple vehicles and pieces of ECU firmware while providing centralized visibility of their vulnerability management.
- For suppliers, xZETA can assess vulnerabilities in ECUs via the VicOne Vulnerability Impact Rating (VVIR),* which helps in prioritizing the risk of each vulnerability relative to a supplier's environment.

**Patent pending*

How VicOne's xZETA Helps in 3 Phases



Assessment

Supports purpose-built ECU firmware

Prioritization

Provides context awareness through the expertise of VicOne and ZDI threat researchers and gives VicOne Vulnerability Impact Rating (VVIR)*

Remediation

Gives remediation recommendations from local vulnerability threat experts

**Patent pending*

Dynamic Simulation to Detect Advanced Threats

- Simulate your running environment in xZETA's automotive-grade virtual analyzer* and monitor suspicious behaviors to determine potential malware and backdoor behaviors.
- Detect potential advanced threats before adopting untrusted or third-party applications.

**Patent pending*

Zero-Day and Cybercrime Expertise

- The best expertise over zero-day vulnerabilities through Trend Micro's Zero Day Initiative (ZDI), which was responsible for 64% of all zero-day vulnerabilities reported globally in 2021
- The latest cybercrime information from Interpol alliance
- Recommendations from local vulnerability threat experts to reduce your efforts in monitoring vulnerabilities and finding solutions

Effective AI-Driven Product Risk Management

- Utilizes AI for expanded detection to eliminate blind spots
- Automatically delivers natural language summaries and suggestions after each scan
- Features a built-in virtual vulnerability expert, providing vulnerability insights through a chatbot interface

Easy SBOM Generation and Export

- Enables convenient SBOM export in standard formats such as SPDX and CycloneDX to facilitate easy sharing with OEMs, and is compliant with NTIA SBOM requirements

Key Benefits

- **The Best Visibility:** Eliminate blind spots with 27% more coverage than the NVD — from zero-day, undisclosed, and known vulnerabilities to CWEs, APTs, and ransomware.
- **Precise Prioritization:** Allocate resources effectively on the critical 10% of vulnerabilities.
- **Accurate SBOMs:** Precisely auto-extract SBOMs to reduce unnecessary manual efforts.
- **Operational efficiency:** Integrate with your existing CI/CD process.

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xZETA

Learn more about VicOne by visiting VicOne.com or scanning this QR code: