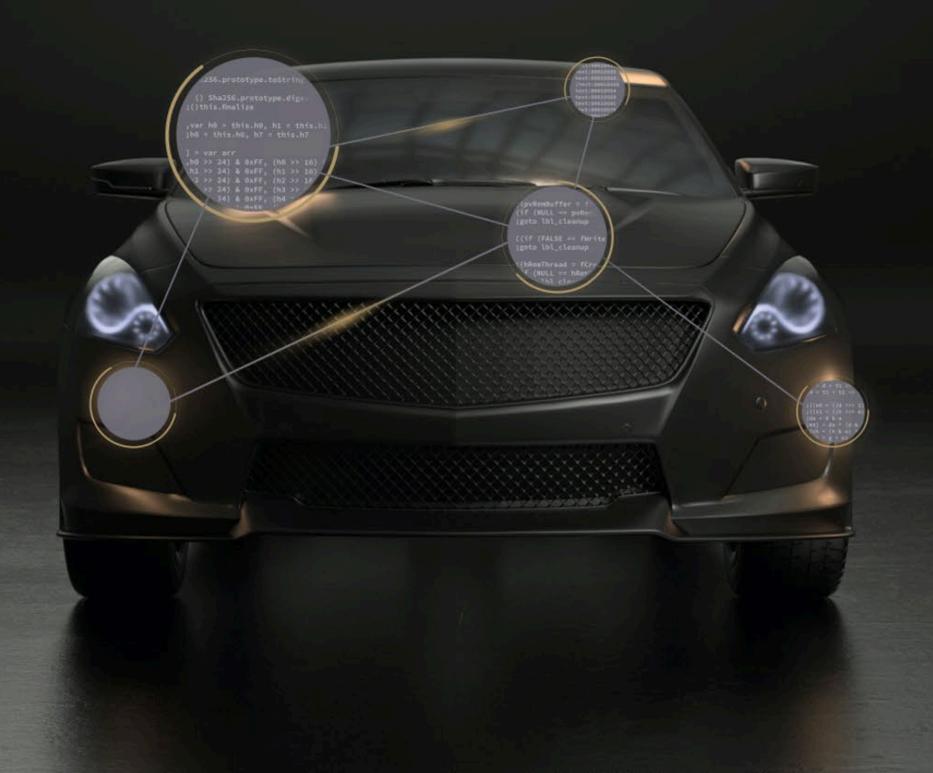
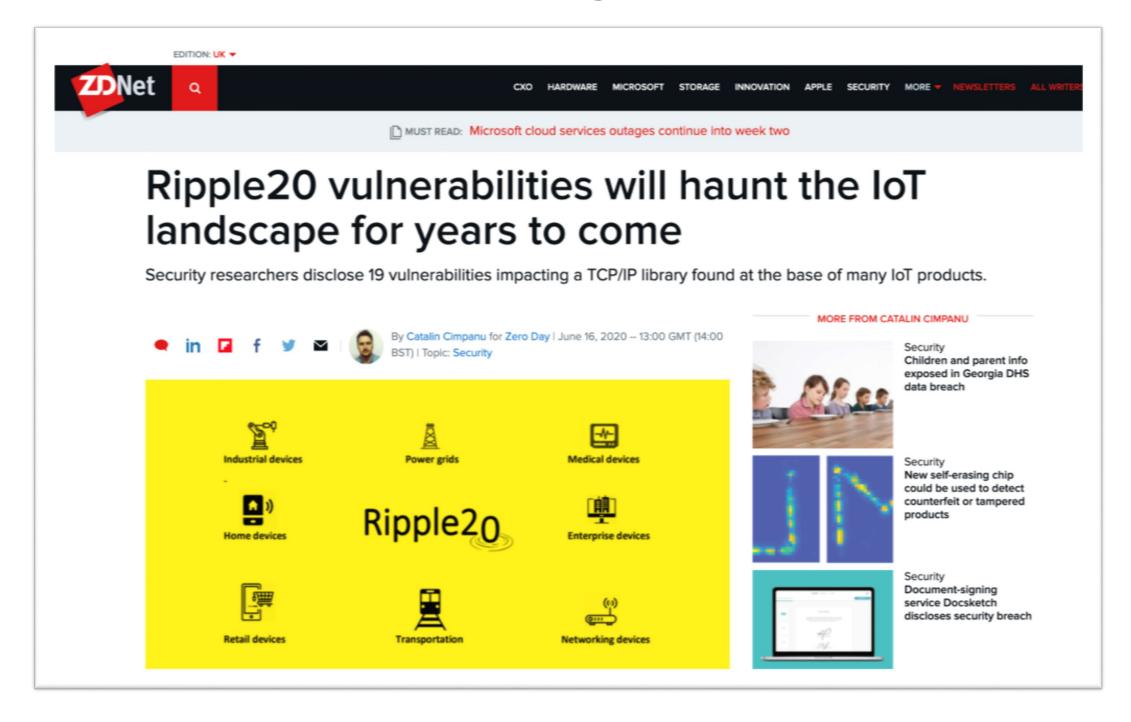
Supply Chain Transparency Through Digital Twins

A vision for eco-system harmonization and collaboration

Michael Engstler, CTO



Chronicle of Vulnerability Across a Supply-Chain





Chronicle of Vulnerability Across a Supply-Chain

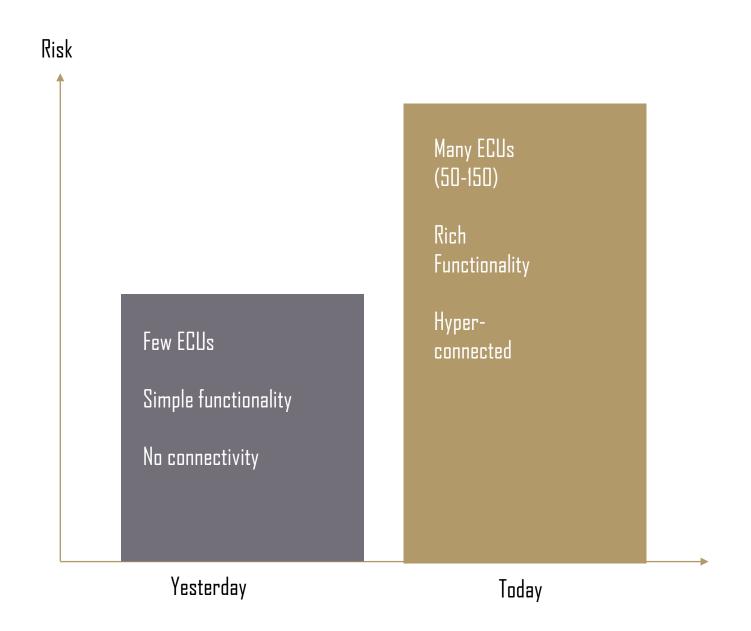


- Internal analysis of potential impacted components and suppliers
- Escalation to the supplier
- Investigation process at the supplier
- Issuing a fix

- Mapping vulnerable components to VINs
- Releasing an OTA campaign to fix the issue

The Case For Transparency

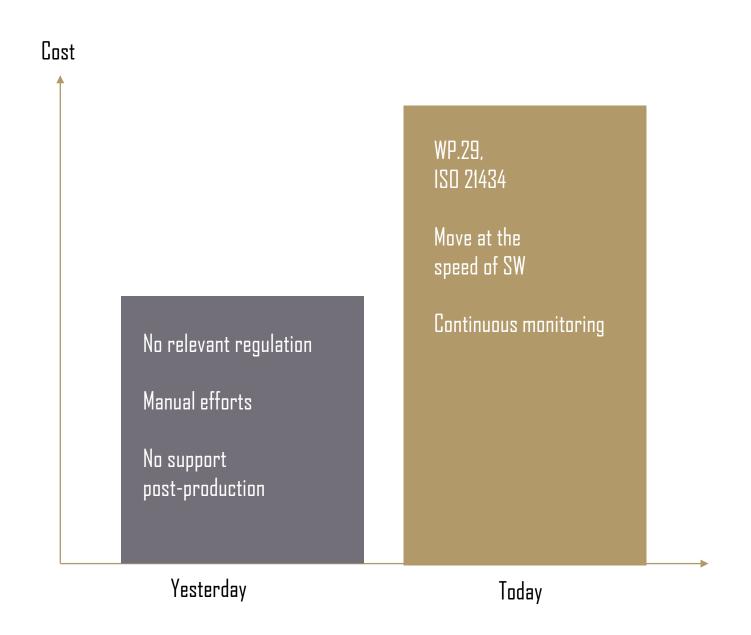
Challenges





The Case For Transparency

Consequences





How do you secure the unknown?

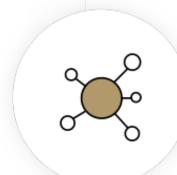
Cyber Digital Twin



Digital replica of vehicle components used for cybersecurity analysis



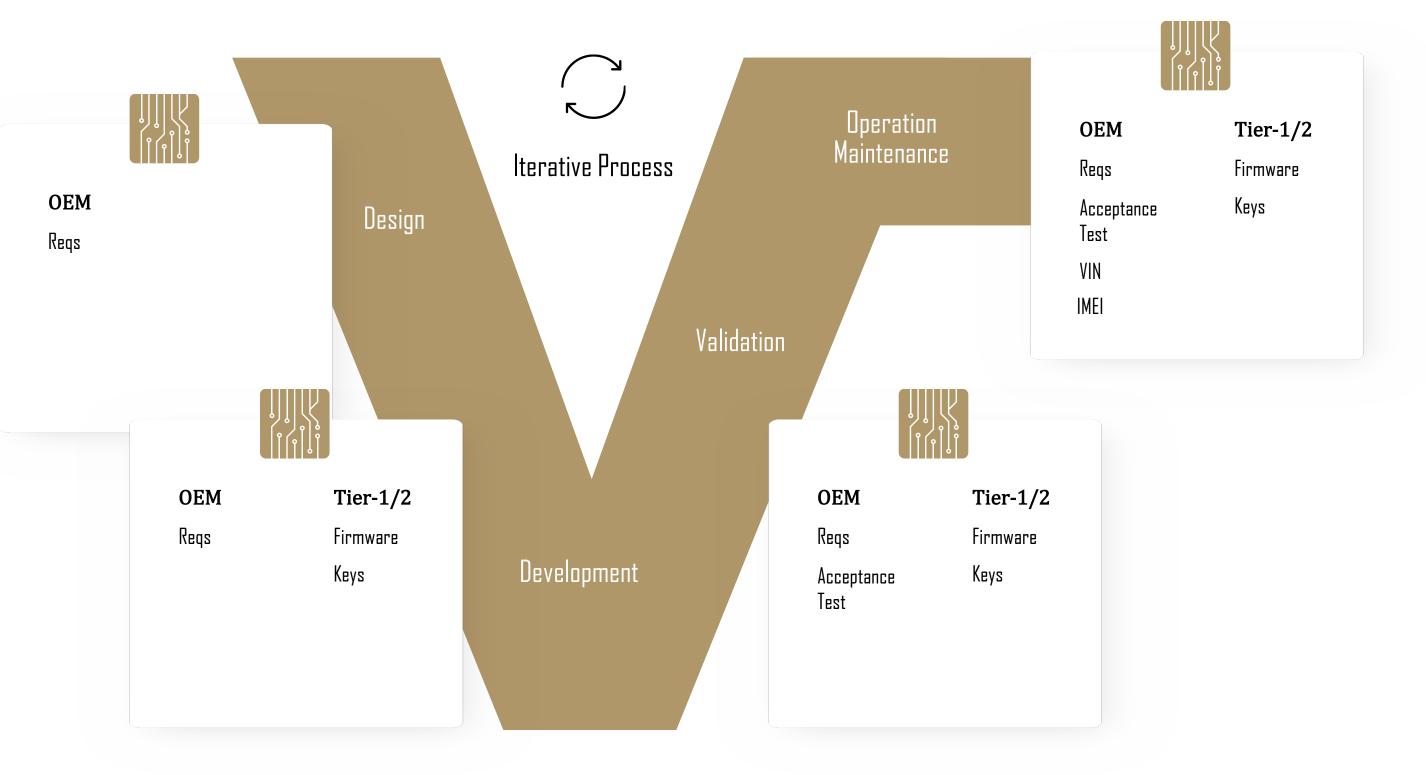
Captures the entire product "context" and metadata accumulated during the development process



Transferrable across the supply chain and can be used throughout the product lifespan

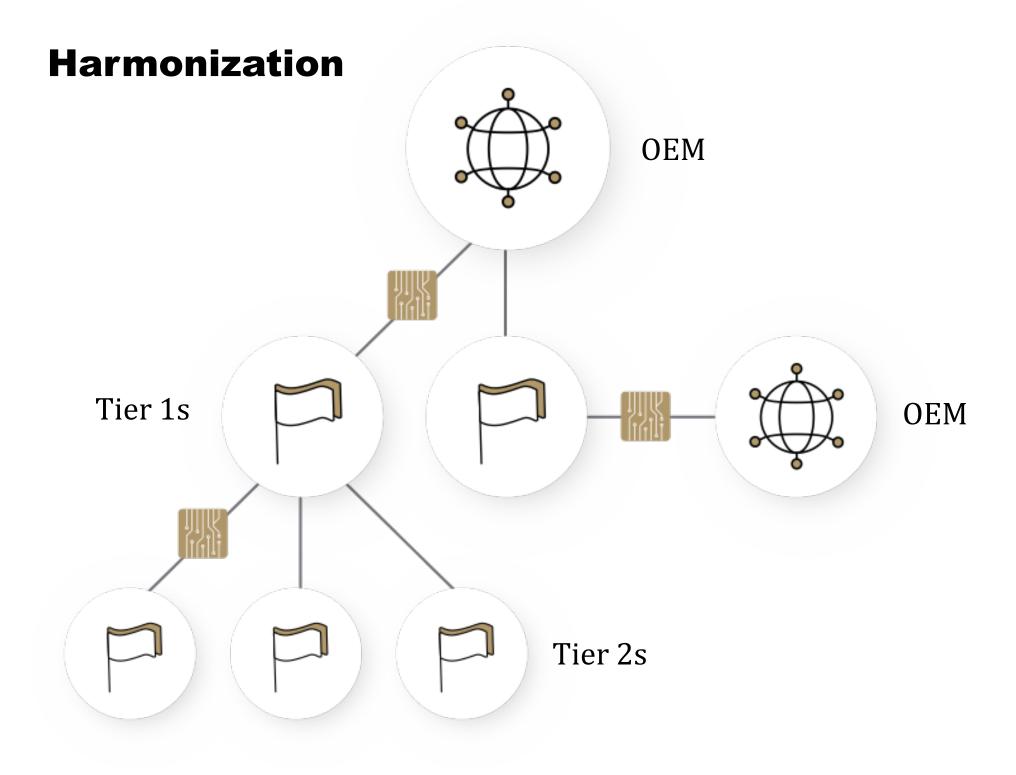


Developing with Cyber Digital Twin



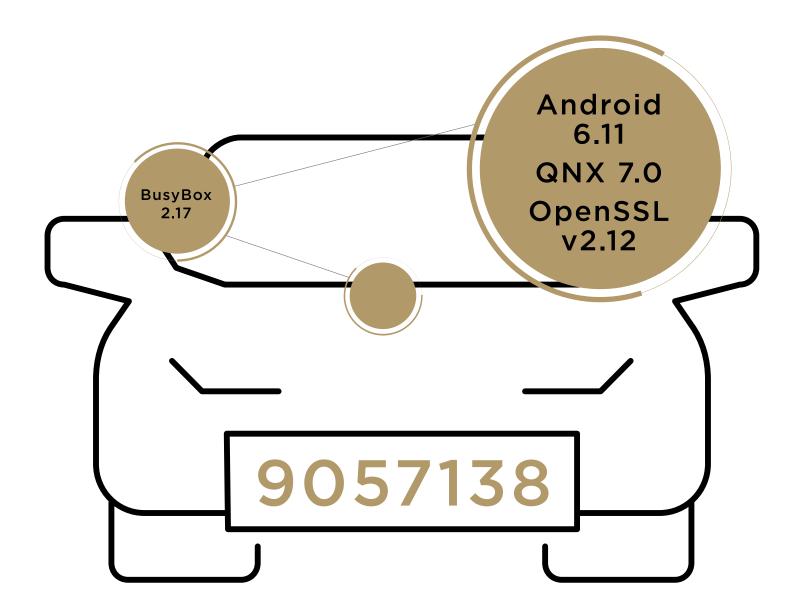


The Transparency Vision



The Transparency Vision

VIN to S-BOM



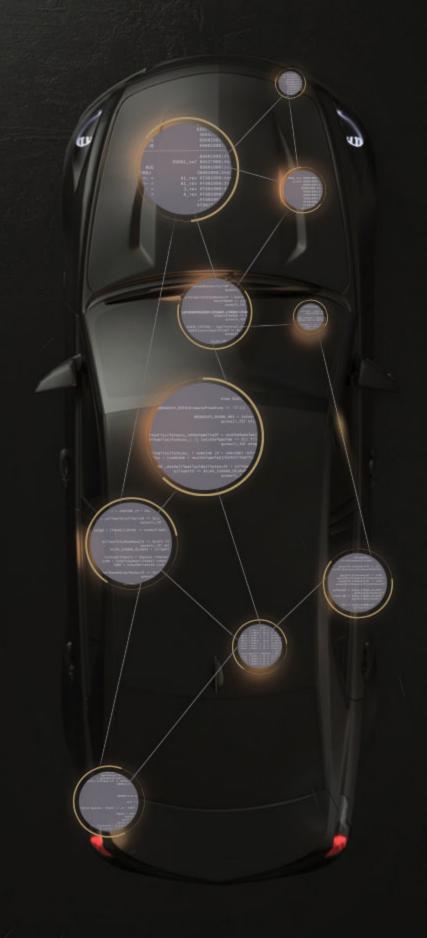
The Transparency Vision

Collaboration OEM MSSP Auditor Tier 1 Tier 2 C/O CYBELLUM

Cyber Digital Twins

- Harmonization
- Traceability
- Collaboration







Product Security Assessments & Operations powered by Cyber Digital Twins Platform



Vulnerability management throughout the product lifecycle



Compliance with security policies, standards & regulations



Continuous monitoring and incident response

C/D CYBELLUM

Any question?



michael@cybellum.com