



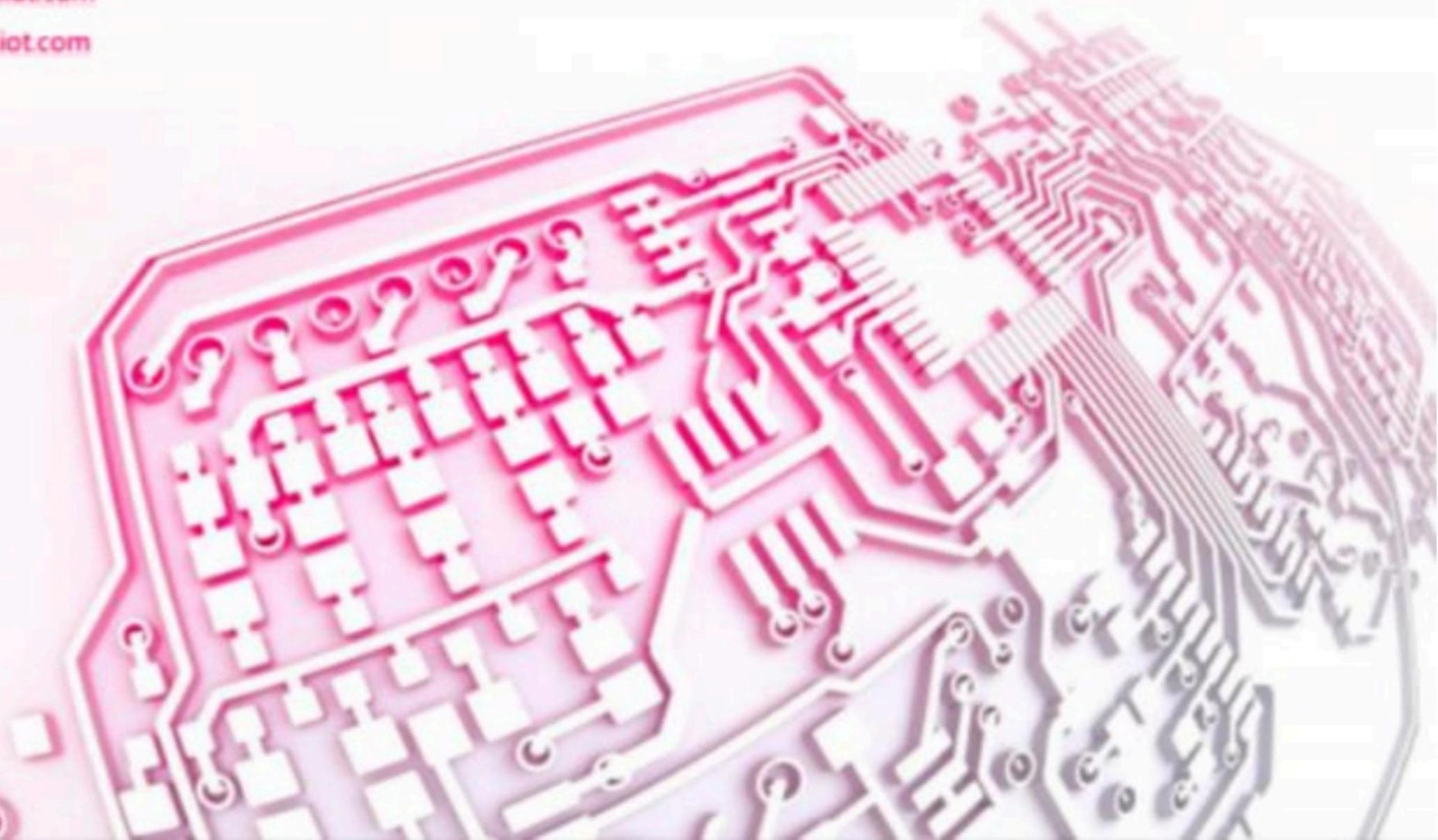
# STERNUM

Securing IoT Devices, From Within

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STERNUM



**Customers would buy an average of 70% more IoT devices if they were secure.**

Bain 2017 IoT Consumer Survey

**Norsk Hydro Cyber Attack Cost It Nearly \$52M in First Quarter**

April 30, 2019

**How Industrial IoT Could Trigger the Next Cyber Catastrophe**

Analyzing the Effect of URGENT/11 on the US Manufacturing Industry Reveals \$7 Billion Exposure

AUGUST 2019

BY SHALOM BUBLIL & AMIR KESSLER

# A Legion of Bugs Puts Hundreds of Millions of IoT Devices at Risk

The so-called Ripple20 vulnerabilities affect equipment found in data centers, power grids, and more.

STATUS: CONFIRMED (8)	STATUS: PENDING (66)		
B. Braun Baxter Caterpillar  HP  Intel Maxlinear (through HLFN)  Rockwell  Sandia National Labs Schneider Electric/APC Digi  HCL Tech	Cisco (through Starent) EMC (now Dell) GE general electric (through quadros) NASA Philips Verifone  ** Agilent Airlinq(through Netsnapper Technologies SARL) Arburg BAE systems BO  Broadcom Capsule (through digi) DASAN Zhone(through vpacket)  Datamax Corporation Enghouse (through tollgrade communications)  Foundry	Hitachi europe Hifn  Honeywell  Itron Kadak L-3 Chesapeake Sciences Corporation Lockheed martin Maxim Integrated Products Memjet  MTS Technologies  Netafim Netsnapper Technologies SARL NVIDIA (through portalplayer)  Portalplayer Qualstar.com Red lion controls  Redcom SAIC  ScriptPro	Synamedia(Through Cisco)/NDSUK  Synchroness  Technicolor (Throught CISCO)  Texas Instruments-Berlin Thinkcom/ThinKom  Tollgrade communications  Ultra Electronics Flightline Systems Vicom Videotek  Vocera  vpacket(now DASAN Zhone) Weibel weibel.dk Western geco  Xilinx  Zodiac Aerospace  Quadros  BECK  KADAK (defuct)  Texas Instruments
STATUS: NOT AFFECTED (5) (as reported by vendor)			
Abbott (through Guidant Healthcare) Amd GE Healthcare Laird Zebra Technologies			

# ALL BUSINESSES FACE IoT SECURITY RISKS



**>300%**

Increase of Attacks on IoT in 2020



**>65%**

Of CISOs Unconfident to assess & mitigate IoT risk



**>50%**

CISOs plan to increase staffing & spending



**84%**

of businesses insufficiently prepared for IoT security

*Source: McKinsey & Co.*

Sternum secures **IoT devices** by preventing cyber attacks **on-device**, with **real-time monitoring** and **protection**, the **lowest overhead**, and **unique visibility** into devices

Sternum puts an end to the endless race of vulnerability patching by ensuring embedded protection for every IoT device – **new, old, existing, low or high end, Linux or RTOS – proven on 5-year-old CENSORED**

## Notable Partners

CENSORED

Telit

Winner of Next Gen Cybersecurity  
IoT Solution During RSA 2020



# THE TEAM

Offensive and defensive **cyber experts**, who are deeply experienced in low-level embedded systems.



Natali Tshuva  
CEO



Boaz Shedletsky  
CBO



Lian Granot  
VP R&D



Arik Farber  
Head of  
Research



Unit 8200



Cellebrite



# WHY IS IoT SO DIFFICULT TO SECURE?

## High Diversity & No standardization

Operating Systems | Communication Protocols | Hardware

## Low Confidence & 3rd party dependencies

3<sup>rd</sup> Party Libraries | Communication Modules | Homegrown Code

## Resource-constrained

Compute | Memory | Battery | Bandwidth

IoT worldwide is growing exponentially,  
but security solutions are 20 years behind

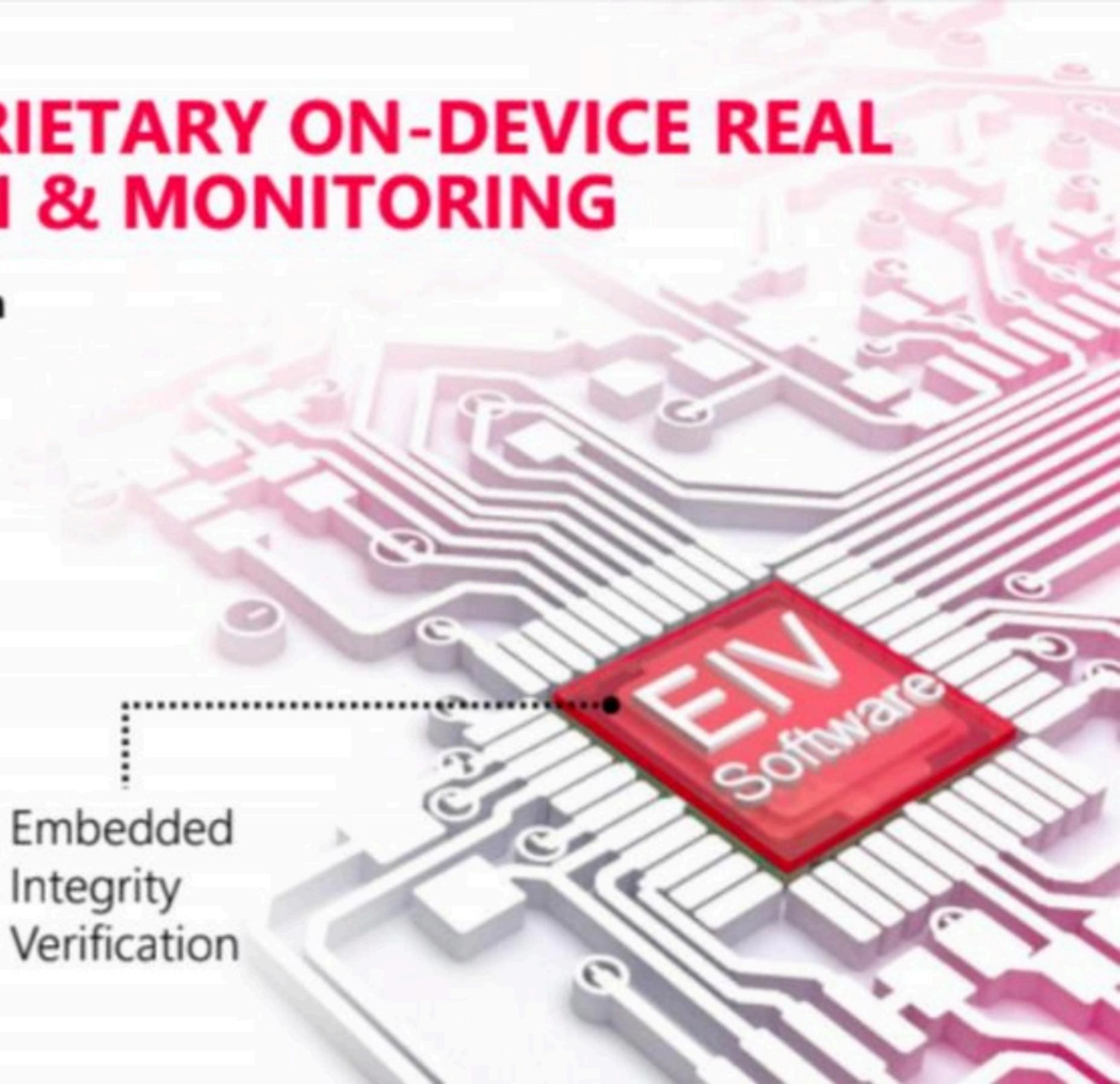


# SOLUTION: PROPRIETARY ON-DEVICE REAL TIME PROTECTION & MONITORING

## Integrity-based attack prevention

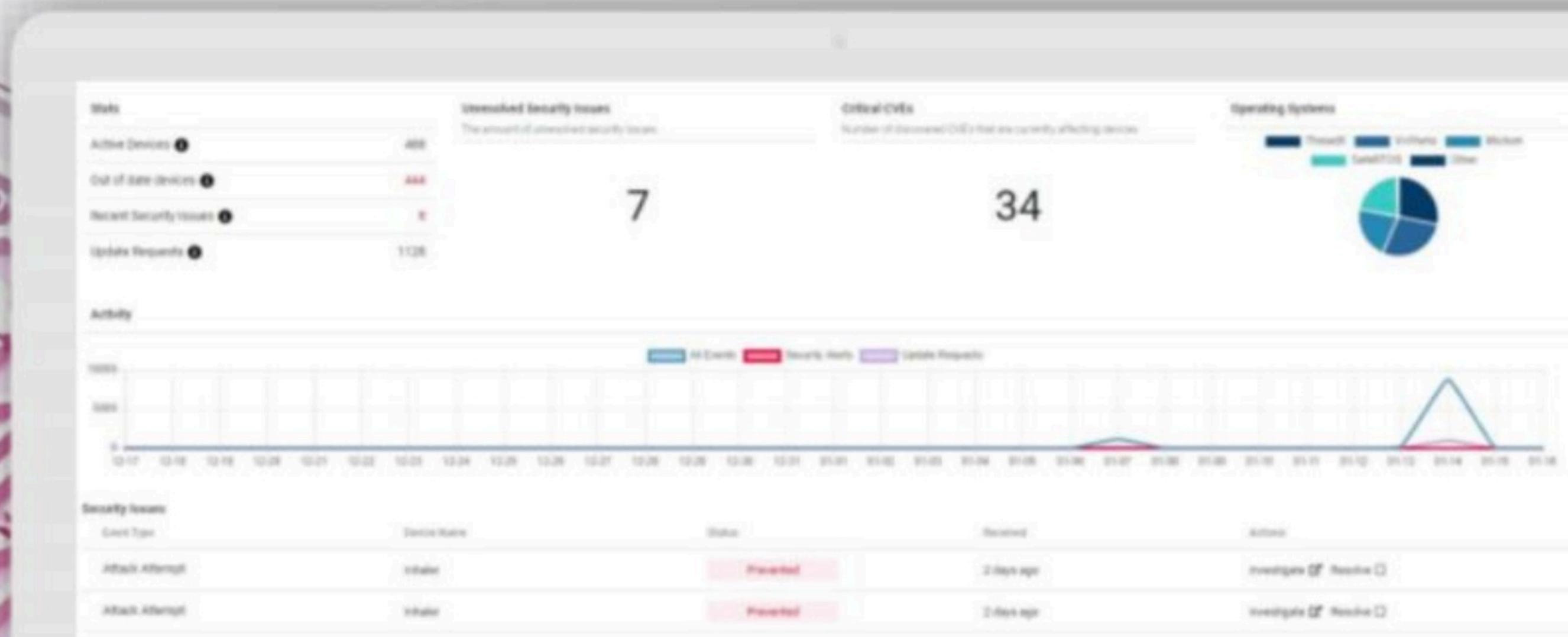
- Using patent-pending EIV (3 Patents Pending)
- Protects exploitable points without patching vulnerabilities
- Minimal overhead
- Works for both source code and 3<sup>rd</sup> party code automatically
- Seamlessly integrated with both Linux & RTOS IoT devices

Embedded  
Integrity  
Verification



# ADS: DETECTION, MONITORING & ASSET MGMT

- Access to **unique data**: visibility and management within IoT/Edge devices + 3rd party code
- **Immediate alerts** on attack attempts and detected anomalies
- Advanced IoT **analytics**: Investigates cyber-breaches easily with intuitive story-based timeline





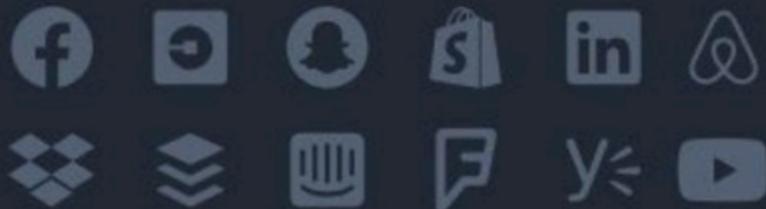
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Thank you!

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