



Security and Analytics for Mass-scale B2B IoT/IIoT Networks

October 2021

Shield-IoT at a Glance



Company Info

Established in 2017, Shield-IoT is a privately owned IoT software solution provider based in Kfar Saba, Israel.



Business Focus

Shield-IoT solutions serve service providers, machine builders and IoT brands across multiple B2B domains including Telcos, industry 4.0, smart cities, transportation, smart grids and more.



Product Offering

Shield-IoT provides real-time analytics and cyber security digital transformation software solutions, to monitor and secure mass scale B2B IoT/IIoT networks.



Technology Innovation

Based on 15 years of Coreset-AI academic research (MIT, Haifa university), 50+ academic papers and 6 patents, Shield-IoT technology enables accurate analytics at mass scale.



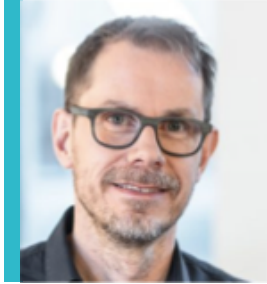
Financial Backing

Shield-IoT is backed by leading strategic investors and VCs including Akamai USA, E.ON Germany and Bloc Ventures UK.



Management Team

Seasoned professionals with over two decades of industry, technology and academic experience, including: Udi Solomon (CEO), Ohad Levin (CTO), Prof. Dan Feldman (Chief Scientist).



“The IoT enabled energy system will face new multi-layered and complex security challenges. In **Shield-IoT** we have found a company with exciting technology that is designed to **secure any grid device** in any topology at scale”.

Dr. Christof Kortz

Director of Strategic Cyber Security, Innogy/E.ON



“**Shield-IoT** delivers innovative solutions to monitor and secure IoT gateways and edge devices, and solves critical issues for large scale deployments such as **smart cities and connected transportation**”.

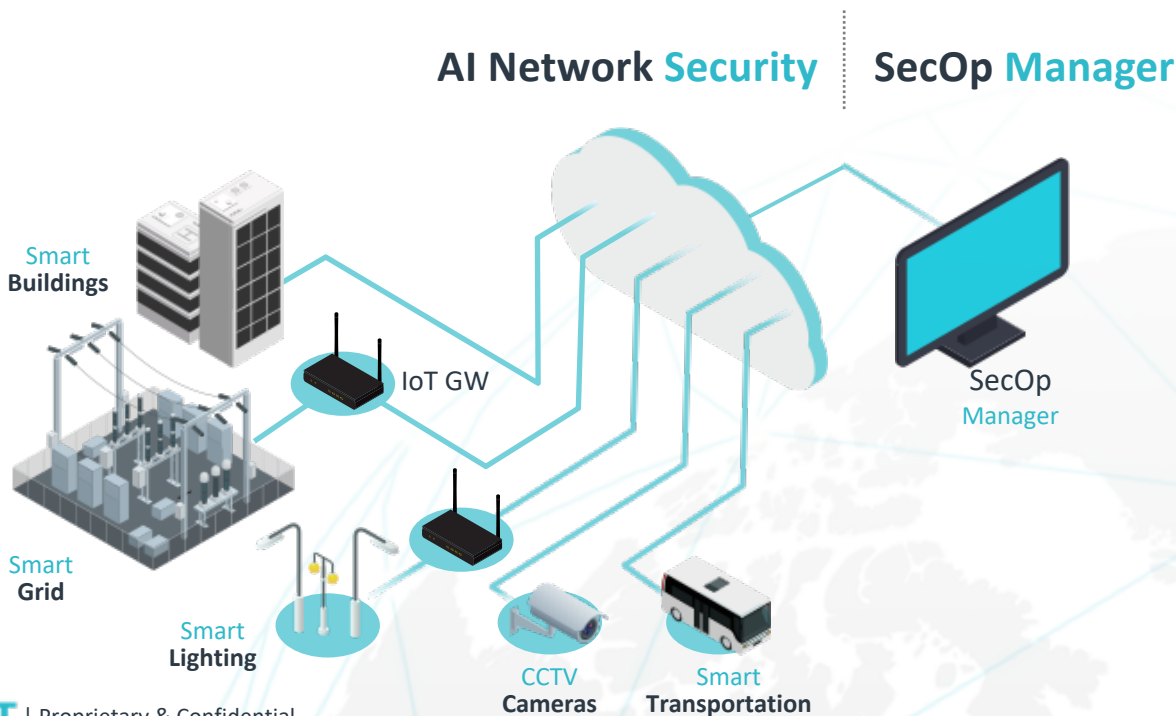
Avner Goren

VP SOC Architecture IoT, Intel



Shield-IoT Security & Analytics Platform

Shield-IoT delivers a complete Coreset-AI powered software platform to monitor and secure any IoT device, application and network.



IOT Market Enabler

Agent-less AI Network Security Anomaly Detection Solution

CORESET-AI

Generates accurate real-time data analytics
to monitor and secure mass scale IoT networks



**DETECTION
ACCURACY**

- Up to 20X higher detection accuracy
- Unknown cyber attacks
- Operational predictive analytics (machine health, abnormal usage, faults...)



**ANY DEVICE &
APPLICATION**

- Device, application and protocol agnostic



**UNLIMITED
SCALABILITY**

- Millions of nodes
- Multi-tenancy
- Flexible deployment (any private/public cloud)
- No network changes



University of Haifa



Massachusetts
Institute of
Technology

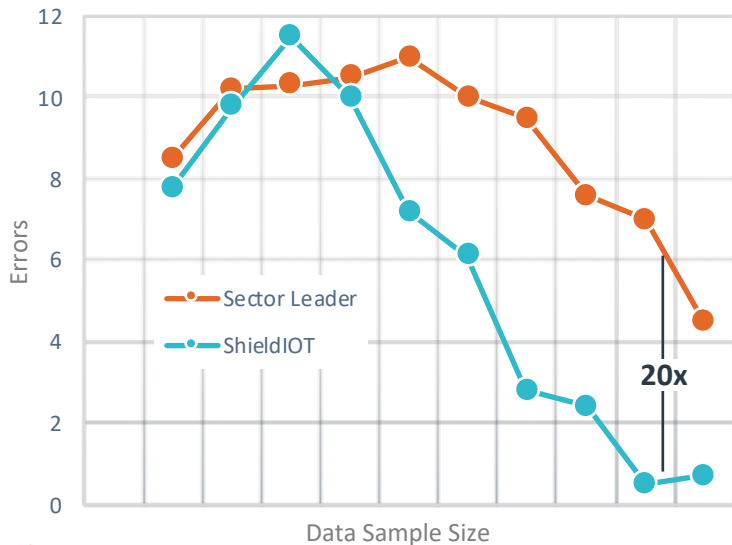


Coreset based

AI Network Security

Analyze device-to-cloud communications to accurately detect the first signs of unknown cyber attacks and operational anomalies

Shield-IoT is 20x more accurate
compared to IoT Sector Leader



Confidential

Unique Value Proposition

- **AI Engine (The 'Secret Sauce')**
Coreset computing to compress the data by unprecedented orders of magnitude: from n to $\log(n)$, followed by running a set of AI and machine learning anomaly detection models
- **Unprecedented Accuracy**
Shield-IoT Coreset-based AI anomaly detection is $\times 5$ to $\times 20$ more accurate compared to leading industry solutions
- **Real-time Streaming Detection**
From one week to one minute. No speed or accuracy tradeoffs. Detects the first signs of attack before damage can take place
- **Automated/Rapid Threat Mitigation**
Actionable alerts (attack type, duration, devices, score, severity, trigger features...) enabling non-expert threat mitigation
- **Unlimited Scalability**
Across millions of connected devices and multiple applications. Agent-less solution with no device or network changes

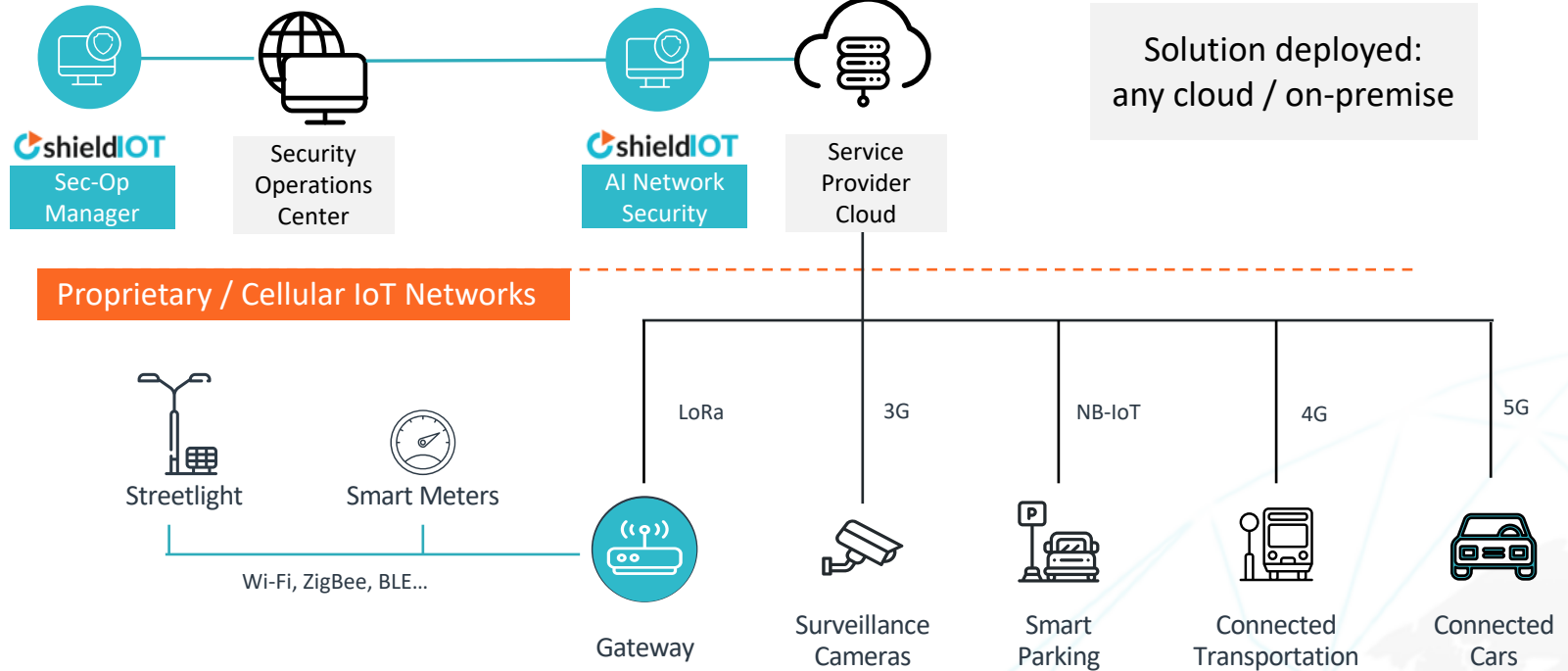


Massachusetts
Institute of
Technology



50 Academic Papers, Patent Pending

Use Cases - Smart City, Connected Transportation, Utilities, Telcos



Customer Value Proposition

ShieldIOT delivers business, security and operational value to Service providers, Telcos and IoT brands across any IoT/IIoT B2B use case

Business Growth



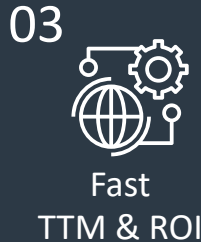
- Generate new revenue streams
- IoT security VAS provided on top of connectivity
- Boost IoT adoption (increased customer confidence)
- additional revenues with managed security services



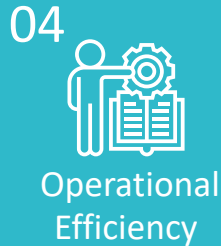
Protect Your Infrastructure

- Protect your network infrastructure and services
- Any IoT threat (unknown IoT malware, IoT DDoS...)
- Prevent impact to cell performance and services
- Prevent network control center hacking / take down

FAST TTM & ROI



- Plug & play fully contained solution
- Ease of deployment with no network changes
- Flexible pay-as-you-grow model
- Low cloud foot print investment



Operational Efficiency

- Network visibility with automated device discovery
- Enhanced asset utilization with operational anomalies
- Unlimited scalability across millions of nodes
- Future-ready: any device, application, protocol, threat