# Shield-IoT
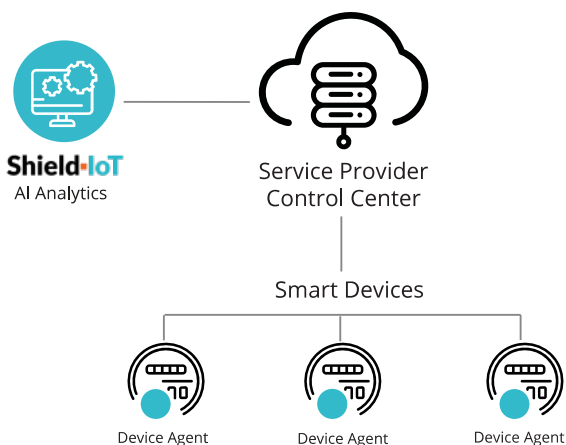
SOLUTION BRIEF

# IoT Cyber Security and Operational Monitoring Solutions for Device Manufacturers

The fast adoption of smart devices across a diverse range of industries is creating a highly competitive environment and driving many device manufacturers to rethink the way they market their products. With Shield-IoT, device manufacturers can deliver out-of-the-box security and offer unique operational monitoring capabilities to optimize device network performance and reduce operational costs.

## Solution Highlights

Shield-IoT delivers an AI analytics software solution to detect any security or operational event in mass scale device networks.



Shield-IoT
AI Analytics

Service Provider
Control Center

Smart Devices

Device Agent     Device Agent     Device Agent

## How It Works
Fast time to market with simple deployment and usage.

**Device Integration**
Manufacturer integrates Shield-IoT agent in device.

**Field Deployment**
Device Agent is remotely installed on existing devices.

**Service Operation**
Service provider security and operational monitoring.

## Device Agent

A device-level, low resource, tailored software agent providing:

- **Data Collection:** Network traffic metadata, device health/metrics and applicative data.

- **Security:** Device-level firewall, application sandbox, data and privacy protection.

## AI Analytics

Cloud-based anomaly detection software to identify the first signs of:

- **Unknown Cyber-attacks:** Malware, device takeover, DDoS, cloud hacking, man-in-the-middle.

- **Operational Events:** Abnormal usage, malfunction and various operational anomalies.

# Manufacturer Benefits

Shield-IoT offers a premium, low risk solution tailored to meet the unique requirements of device manufacturers.

### Protect Your Brand
Minimize risks and meet customer needs with multi-layer security protection.

### No-Upfront Investment
Deliver a premium offering with fast time to market and zero investment.

### Customise to Your Needs
Tailored to meet device specifications and available resources.

### Gain Competitive Advantage
Deliver unique security and operational monitoring capabilities to your customers.

# Support Any Type of Device

Applicable for a wide range of devices, across different industries and use cases.

Smart Meters

Industrial Controllers

Energy and Power Devices

Sureveillance Camaras

Enviroment Sensors

# Service Provider Benefits

Shield-IoT creates *'transferable operational value'* for the benefit of device manufacturer customers.

- ### Prevent Service Impact and Downtime
  Ensure on-going service continuity with operational and security monitoring.

- ### Optimize Network Performance
  Perform remote operational monitoring to detect abnormal usage for single or groups of devices.

- ### Reduce Maintenance Costs
  Detect the first signs of a device malfunction with accurate actionable predictive maintenance.

- ### Unlimited Scale, Simple Operation
  Future-ready centralized deployment, with no network changes across millions of devices.

## Shield-IoT

Established in 2017, Shield-IoT is an IoT cyber security software solution provider, enabling IoT service and solution providers to monitor and secure mass-scale B2B IoT/IIoT networks, reduce operational costs and generate new revenue streams. Based on over 15 years of research (MIT) and 80 academic papers, Shield-IoT patented technology delivers the world's first coreset-AI anomaly detection solution to enable accurate analytics at mass scale.

## Contact Us

For more information about Shield-IoT solutions and services, visit our website at:

www.shieldiot.io

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