

Securing Enterprise Mobile IoT

Increase IoT connectivity revenue and differentiate your IoT services by delivering IoT security, IoT Policy and Behavior Assurance to Enterprise customers.

The Internet of Things (IoT), firmly established as a 21st century reality, remains notoriously insecure. Today, security concerns are the number one reason why many enterprises still avoid making IoT a significant part of their business operations. A true Communication Service Provider's (CSP) opportunity exists: the ability to increase enterprise IoT adoption and monetization of IoT through IoT Security Value Added Services (VAS).

What is IoTSecure?

IoTSecure is a multi-tenant platform that enables enterprises to monitor and secure their IoT deployments through a customer management console. This platform delivers carrier-class security, policy control, IoT analytics and behavior analysis that can be applied to any IoT service.

IoTSecure is based on a field proven solution that delivers security services today by Tier-1 mobile operators across the globe. Depending on the suite(s) of services chosen, CSPs can increase their revenue by 15-20% with Allot IoTSecure.



- **IoT Security:** A network-based security solution that provides in-line protection against malware and botnets, blocks communications with bot command and control servers and other malicious servers based on reputation, and identifies bot-infected endpoints using behavioral analysis.
- **Behavior Assurance:** Since most IoT devices were designed for a specific service, typically their communication patterns are consistent. IoTSecure provides the enterprise with the ability to define policies that control the communications of IoT devices.
- **Behavior Profiling:** Leverages an artificial intelligence approach to IoT analytics that enables IoTSecure to profile the behavior of devices and applies anomaly detection principles. Anomaly detection identifies compromised or malfunctioning IoT endpoints, it also supports data plan protection, troubleshooting, and planning.

IoTSecure Service Suites

SUITE 01

IoT Security

- Anti-Malware Reputation based URL filtering
- Bot command and control filtering
- Detect Bot infected devices
- Security dashboard

SUITE 02

Behavior Assurance

- Policy to restrict communications with IoT service
- Traffic reports
- Manual anomaly detection
- Smart Quarantine

SUITE 03

Behavior Profiling

- Machine learning based profiling and anomaly detection
- IoT Analytics
- Data plan protection

The Benefits

Business

IoTSecure provides enhanced IoT value-added services and IoT operational efficiencies, both of which enhance monetization:

- **Revenue Generator:** Generating an additional 15-25% revenue on top of connectivity charges
- **Service Differentiator:** Introducing security as a differentiating competitive advantage
- **Use-case Agnostic:** Applicable to any IoT service and is aligned with core CSP business
- **Domain Expertise:** Is a network-based service that relies core expertise of CSPs

Operational

IoTSecure centralized management and efficient protection for the IoT infrastructure, together with IoT analytics provide the CSP with operational efficiencies addressing challenges of large scale IoT deployments:

- **IoT Infrastructure Attacks:** Neutralized through bi-directional DDoS mitigation and botnet protection.
- **Capacity Planning and Operational Scaling:** Device and application-aware IoT analytics assist in troubleshooting, informed planning, and optimization.
- **IoT Data Plan Misuse:** Mitigated by IoT behavior profiling for data plan abuse and anomaly detection.