



IOT.

Edge Security

Kudelski IoT Security Platform

THE CHALLENGE OF SECURITY OVER A LIFETIME

You're leveraging the Internet of Things so you can create new business models, increase efficiency, and use data to drive smart decision making. But have you put in place the security required to make your digital transformation a success?

Effective IoT security is the foundation upon which you will ensure the continued monetization, safety, privacy and compliance of the services that depend on your connected devices. So building in active security from the start is critical.

But what can you do to protect devices already deployed in the field? How can you re-secure the investment you've made in them and continue to depend on the data they provide as well as ensure the devices themselves are safe from attack?

THE WORLD AFTER MIRAI & GDPR

In October 2016, the infamous Mirai botnet leveraged the massive number of already-deployed surveillance cameras and executed a devastating cyber attack on dozens of popular websites. The very cameras that were meant to detect crime became the source of the attack because they weren't adequately protected against malware intrusions. And privacy legislation like GDPR is adding even more pressure to get security right.

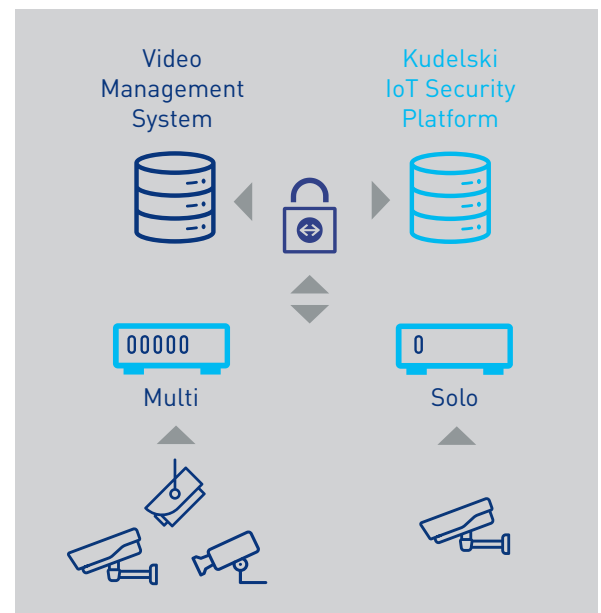
In reality, this could happen to any connected device. So what is required to solve this problem?

- Guaranteed integrity of content and metadata
- Protection from malware and unauthorized firmware
- High availability, even as threats evolve quickly
- Full privacy and confidentiality of all data
- All of this both for new devices as well as ones already deployed in the field

ACTIVE SECURITY FOR SUCCESS

The Kudelski Group has met the IoT security challenge with solutions that help you design security in from the start, and - when that's no longer possible - to resecure your investment and even add new capabilities to your devices. By leveraging our battle-tested experience in cybersecurity and high-value business model protection, the **Kudelski IoT Security Platform** and its line of **Smart IoT Edge Security Solutions** are easy to deploy wherever and whenever there is a need to secure or resecure a device.

Deployed in front of your existing devices, our Multi and Solo IoT Edge devices protect you from cyber attacks and create the confidentiality, trust, integrity and availability you require to protect your business and enable your digital transformation. From firewall protection to watermarking, from secure streaming to timely unique encryption, our solution is your best defense.



01 CYBER SECURITY

- ✓ Secure Linux
- ✓ Network Firewall
- ✓ API Firewall (ONVIF and proprietary APIs)
- ✓ Cyber Security Managed Services ready with SIEM integration
- ✓ Kudelski Security Managed Security
- ✓ Out-of-Band Management with NB-IoT

SPECIFICATIONS

- + ARM SoC (Quad-Core)
- + Kudelski Hardware Root-of-Trust
- + PoE AT PD/PSE
- + Ethernet 10/100/1000
- + mSATA SSD slot
- + Extra connectivity: NB-IoT



- + 2 PoE ports (in / out)
- + Available Q4 2018



- + 6 or 12 PoE ports (out)
- + Available 2019

OUT-OF-BAND MANAGEMENT

Leveraging its IoT Security Platform and embedded hardware root-of-trust in NB-IoT modules, the Kudelski Group is able to deliver Out-of-Band management of the IoT Edge Security Appliances. Device management relies on a separate PKI thus enforcing content protection zero-knowledge. Out-of-band management enables the strict compartmentalization of content and device management.



02 CONTENT SECURITY

- ✓ Forensic Watermarking
- ✓ Secure Content Streaming (SRTP)
- ✓ End-to-End Content Protection with DRM
- ✓ Real-Time Policy Enforcement
- ✓ Fine-Grained Access Management
- ✓ Zero-Knowledge

03 LIFECYCLE SECURITY

- ✓ Device Security Lifecycle Management
- ✓ Hardware- & Software- Based Protections
- ✓ Authentication, Integrity, Confidentiality
- ✓ Authorization, Access Control, Data Security
- ✓ Local Decision Making
- ✓ Monitoring, Countermeasures, Managed Security

The **Kudelski IoT Security Platform** is part of the Kudelski IoT Security Suite, a comprehensive set of solutions and services based on 30 years of Kudelski Group innovation in protecting digital TV content on more than 400 million devices, as well as its strong expertise in cybersecurity. It makes IoT security easy to embrace and protects the device, network, data, commands, monitoring and security evolution that are essential to enable and sustain new IoT-enabled business models. By leveraging state-of-the-art security hardware designed by Swiss engineers and its unique heritage in both pay TV and cybersecurity, Kudelski Group is uniquely positioned to provide companies with design, implementation and long-term security lifecycle management of their connected business models across a variety of industries.

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