



IoT Security

Protect your Internet of Things (IoT) network with an end-to-end security solution, supplied independently from network providers

- Secure all IoT systems, including low-power devices
- Enhance the security constraints of communication channels
- Manage your heterogeneous fleet of IoT devices
- Individually authenticate each of your unique devices

Our IoT solutions

A full IoT cyber security suite that ensures data protection, integrity, and privacy for companies transmitting sensitive information over LPWAN using battery driven sensors

This solution enables thorough security over untrusted networks (such as HTTPS) for IoT protocols, that usually represent a challenge for essential security updates or maintenance due to their strong energy constraints

Unique advantages



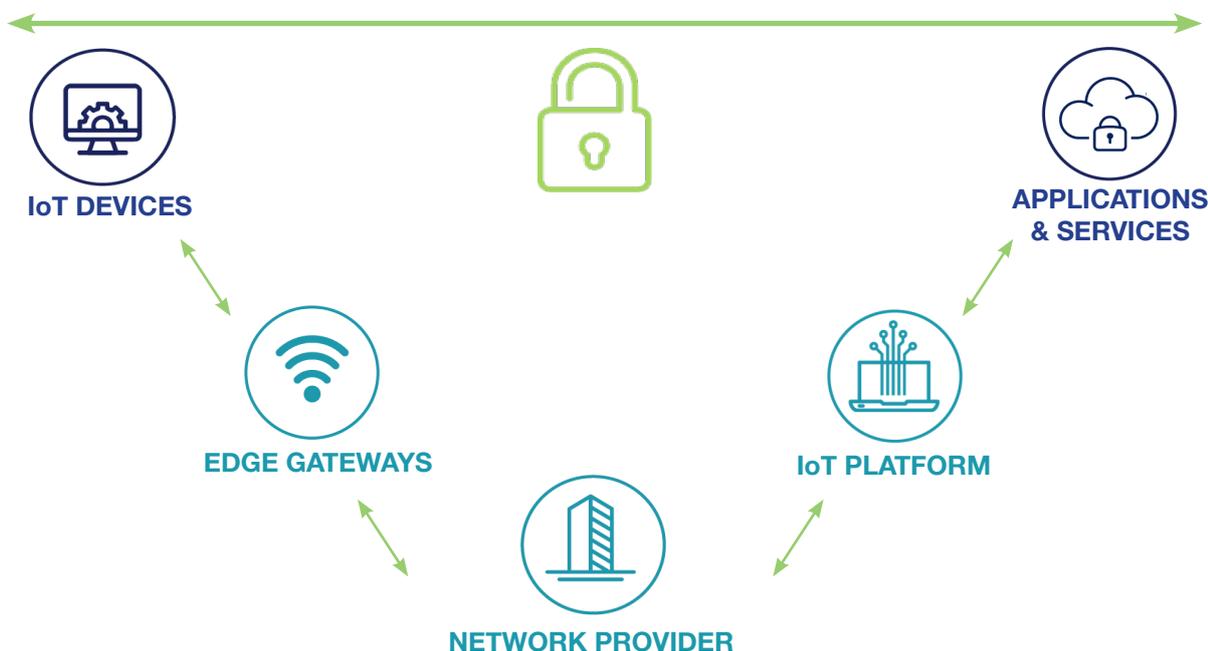
- **High grade security** for all devices (ex. LPWAN)
- **Lower your security spending**
- **Highly scalable:** Patented authentication mechanism and key distribution system
- **Hardware independent:** No need for specific hardware
- **Platform independent:** No dependencies with cloud providers

Patented protection



- Creation of unique, **non-modifiable and non-hackable fingerprints** for each IoT device and authenticate them, allowing for the constraints of LPWAN networks (e.g. LoRaWAN, Sigfox)
- **End-to-end IoT security**, from device to application via relay antennas
- **Strategic data storage** with the unique identification fingerprint of your devices

We protect all the **value chain of IoT** with encryption and authentication:



We also offer solutions to:

SECURE YOUR LPWAN BY:

- Ensuring confidentiality and authenticity of data over LPWAN
- Using optimised authenticated encryption algorithms
- Low security overhead:
 - Energy consumption: +0,25%
 - Memory footprint: 1,9kB
 - Bandwidth footprint: 5B
- Providing integrated plugins for applications
- Pushing data in applications after decrypt and authentication verification
- Supporting any kind of LPWAN protocol (Sigfox, LoRaWan, NB-IOT etc.) and applicative protocol (MQTT, AMQP, HTTP, CoAP etc.)



PROTECT YOUR FLEET OF HETEROGENEOUS IoT WITH CYMID END-TO-END IoT SECURITY BY:

- Simplifying IoT fleet management
- Ensuring transparent enrolment and key renewal
- Managing devices and gateway entities
- Following all device statuses
- Blacklist corrupted devices to prevent data forgery
- Providing HTTP REST API easy to use
- Managing your device security with secured protocols
- Compatible with security standards:
 - ITS (Intel. Transport system ETSI TS 102 941)
 - EST (Enrollment over secure transport RFC 7030)
 - TLS/DTLS
 - IoT Fingerprint



Our use-cases

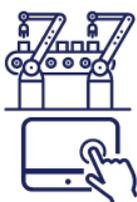
We provide the **mobility industry, factories of the future, smart cities and critical infrastructure** with an end-to-end security overlay that is able to monitor the full spectrum of IoT devices connected to a network

Securing Mobility



- **Build** security by design solutions that reduces your time to market
- **Provide** an end-to-end security trust framework in dynamic, IoT scenarios
- **Trusted** and private secured intelligent transport systems
- **Improve security** of autonomous cars, trains, planes, satellites and ships

Securing Industry 4.0



- **Secure** interactions between robotic platforms, heterogeneous systems and IoT devices
- **Add** trust to your secure Operational Technology (OT) data
- **Increase** availability with secure by design systems
- **Assign** task priorities and other secured intelligent features

Securing Smart Cities



- **Preserve** data privacy and GDPR respect
- **Enable** secured integration with your legacy systems
- **Enable** rapid commissioning and reconfiguration of decentralised IoT devices
- **Secure** your power constrained devices

Securing Critical Infrastructure



- **Monitor** and interact with IoT technologies in a smart secured and efficient way
- **Guarantee** trust in your critical data
- **Secure** automated triggered actions
- **Secure** your energy, water etc. distribution systems

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