

PROTECT

⋮

IoT Security

>>>

services
+ solutions

Airbus Protect, advanced IoT security solutions

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 IT 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.

what differentiates us:

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



use cases:

to build and maintain the CyberResilience they need.

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

We're passionate about

- > risk management
- > safety
- > security
- > sustainability.

Our experts guide clients in their transformation while empowering them to build a better future.

Airbus Protect offers end-to-end strategic advisory, consulting services, training programmes, and software solutions to industry, Critical National Infrastructure, governments and institutions.

We bring together **1,200 professionals** from Airbus CyberSecurity – one of Europe's most advanced sovereign cybersecurity players, and APSYS – a leading provider of safety, security and sustainability consulting, IT and business solutions – creating a centre of excellence to meet our clients' evolving needs.

We are a trusted partner with more than **35 years of experience** in making businesses safe, secure and sustainable for today and tomorrow.

Our mission is to use our deep knowledge and diverse industry expertise to make a meaningful impact. We enable our clients to concentrate on growing their businesses and building a trusted future, while ensuring their safety, security and sustainability never wavers.

We are dedicated to our employees and our clients. Our relationships are based on deep trust empowering us to tackle complex projects and co-innovate **to build a better future.**

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