Wisekey offers PKI services and hardware Secure Elements to provide each and every connected object with an immutable Digital identity, the core required for building security in the Internet of Things as well as copy protection of printer cartridges.

Our certificate management System INeS is tailored for IoT needs, while our comprehensive set of hardware secure elements comes with the option of pre-provisioning of device certificates and secret keys.

Most of our secure elements hold the highest levels of secure certifications like Common Criteria EAL5+ or/and FIPS 140-3 CMVP.

We address a wide range of applications dedicated to IoT like industrial IoT, home automation, metering, smart farming…..

With regard to digital printing applications, our range of **VaultIC183, VaultIC186 or VaultIC155** could be good fit for protection cartridges from being copied and counterfeited.
- unique identification and authentication of the cartridge within a tamper resistant chip
- Generation of unique digital certificates in our PKI Certificate Management System INeS
- Storage of digital identity in the chip during our security certified production process

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With regard to Drones, we can think of the use case from our French customer Parrot who integrates the **VaultIC405** into his high-end drone ANAFI Ai to add the required security:
- unique identification and authentication of the drone and pilot
- protection of communication with the remote control
- encryption of the video stream
- Secure firmware update and flight plan update

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Our certificate management System INeS is tailored for IoT needs, while our comprehensive set of hardware secure elements come with the option of pre-provisioning of device certificates and secret keys.

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We address a wide range of applications dedicated to IoT like industrial IoT, smart metering, smart farming, drones …..

With regard to home automation, we can reference a customer in Austria (whose name we cannot disclose unfortunately) who integrates the **VaultIC40**8 into his connected sensors, providing them:

- unique identification and authentication of the sensor – the digital identity (private key and X509 certificate) is stored inside the VaultIC408 in our secure production process
- Smooth connection the AWS – Our Ines CMS provides a issuing certificate that is registered within AWS for an immediate acceptance of connecting devices
- protection of communication with the IoT platform
- Secure firmware update

Wisekey offers PKI services and hardware Secure Elements to provide each and every connected object with an immutable Digital identity, the core required for building security in the Internet of Things.
Our certificate management System INeS is tailored for IoT needs and other aplications, while our comprehensive set of hardware secure elements come with the option of pre-provisioning of device certificates and secret keys.

Most of our secure elements hold the highest levels of secure certifications like Common Criteria EAL5+ or/and FIPS 140-3 CMVP.
We address a wide range of applications like smart metering, smart farming, drones, on-line multi-factor authentication and software license control and our PKI services and Secure Elements are used as well in the landscape of keyless door locking systems.

With regard to the latter, we have a long term experience with two products dedicated for such application: MicroXSafe6001 and MicroXSafe6003 (**MS6001 and MS6003**).

We can reference several customers, including one of the major players in the world (Press release), who integrate hundreds of thousands of MS6001, and benefit from:
- A secure Common Criteria EAL5+ certified hardware platform with an ARM SC300 core, cryptographic coprocessors, a SP800-90B compliant TRNG and 1MB flash;
- Integrated USB interface with 48MHz Clock generation, Real Time Clock and 8kV ESD protection;
- Low level crypto-libraries and secure development application notes;
- WISeKey's personalization service for code and keys loading in a secure production environment.

Wisekey offers PKI services and hardware Secure Elements to provide each and every connected object with an immutable Digital identity, the core required for building security in the Internet of Things.

Our certificate management System INeS is tailored for IoT needs, while our comprehensive set of hardware secure elements come with the option of pre-provisioning of device certificates and secret keys.

Most of our secure elements hold the highest levels of secure certifications like Common Criteria EAL5+ or/and FIPS 140-3 CMVP.

We address a wide range of applications dedicated to IoT like industrial IoT, smart metering, smart farming, drones, but our PKI services and our Secure Elements are used as well in the landscape of on-line multi-factor authentication and software license control.

With regard to the last two applications we have a long term experience can reference several customers, in France, Israel and Turkey, who integrate hundreds of thousands MS6003, and benefit from:

- A secure Common Criteria EAL5+ certified hardware platform with an ARM SC300 core, cryptographic coprocessors, a SP800-90B compliant TRNG and 1MB flash;
- Integrated USB interface with 48MHz Clock generation, Real Time Clock and 8kV ESD protection;
- Low level crypto-libraries and secure development application notes;
- WISeKey's personalization service for code and keys loading in a secure production environment.