



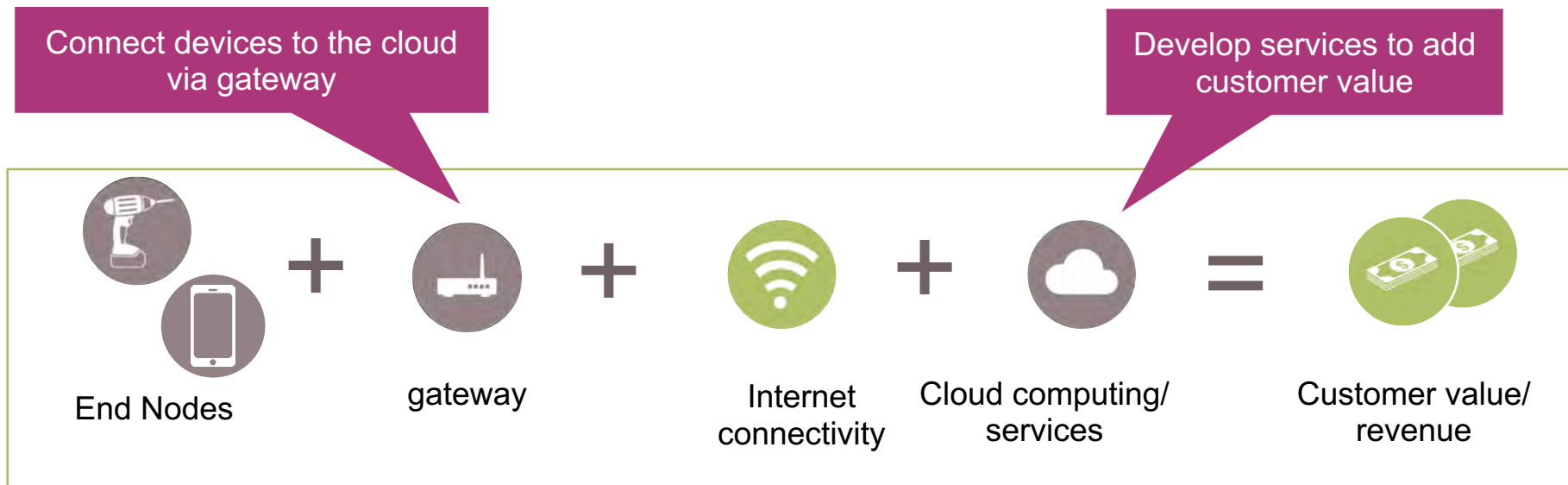
We are the link
between the real and
the digital world.

Securing your gateways against attacks

Infineon's virtual show 2020

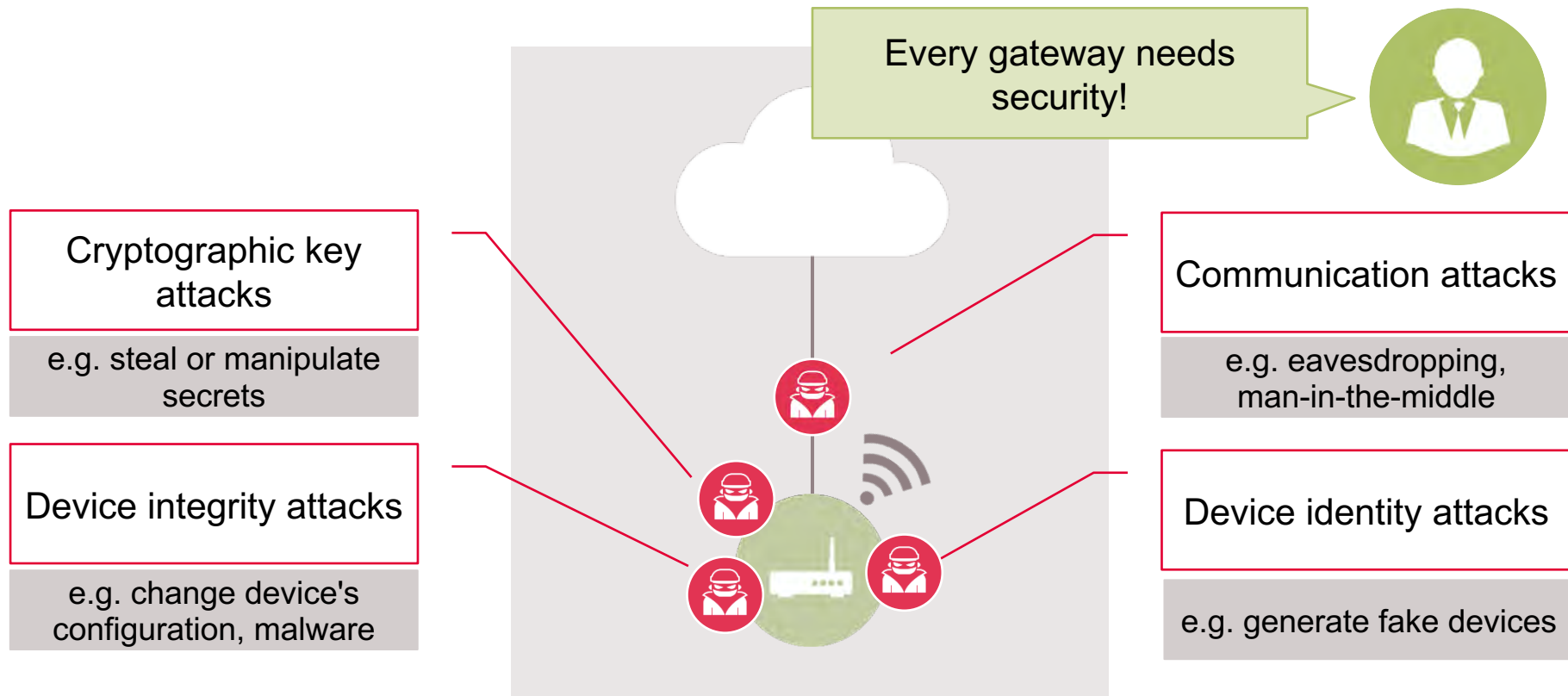


Enterprises face a changing environment



Migration from a device-centric to cloud-based business making your **gateways an attractive target for attacks**

Gateways can be attacked through many ways



Why is protection against physical attacks so important? ...they are often used to discover new connectivity attacks



Attacker gets **physical access** to a device

Buy a targeted gateway on the Internet



Attacker performs physical attacks to **identify vulnerabilities**

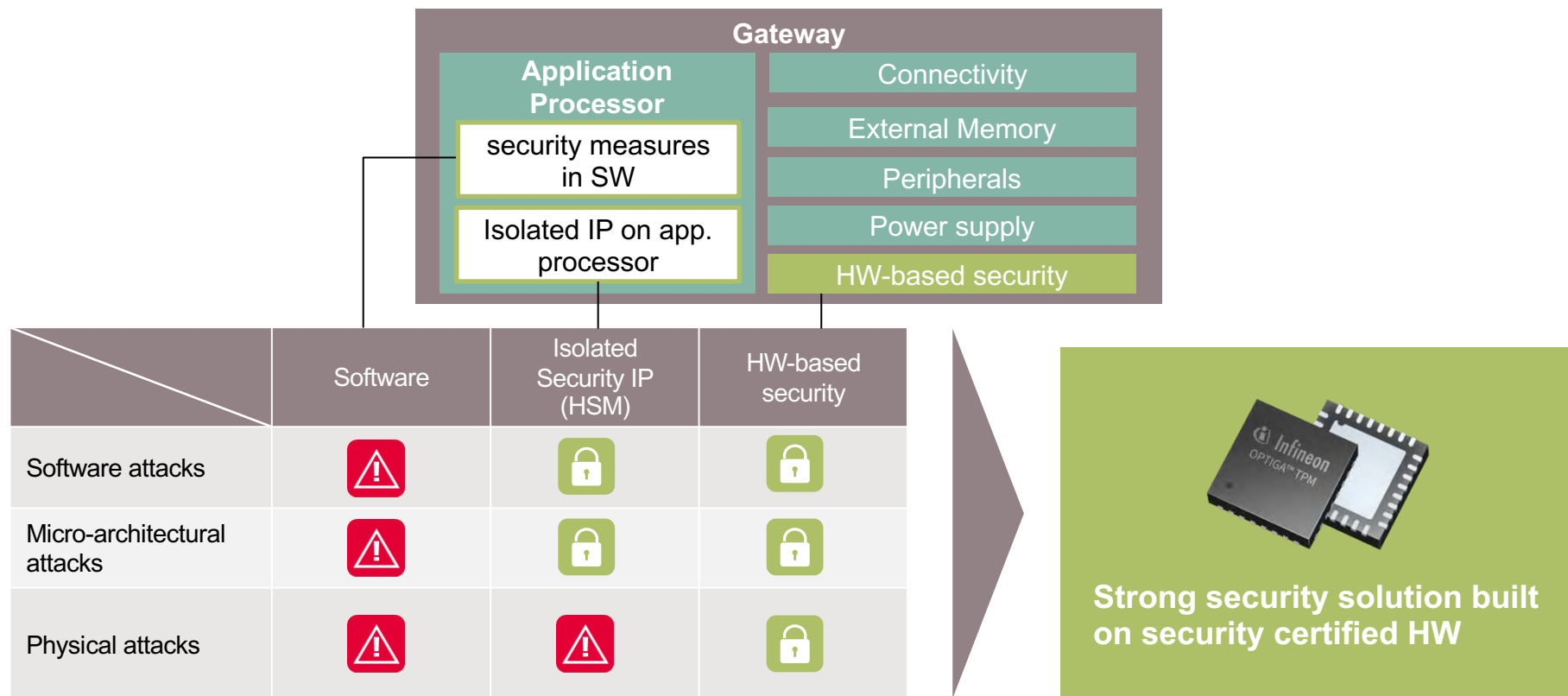
- › De-solder & read out flash memory to analyze SW
- › Tampering of μ C to identify sensitive information or cause unintended behavior



Attacker implements and performs **remote attack**

The attacker combines the know-how gained from physical attacks with other attack vectors to create a new attack

Implementing attack countermeasures on gateway



OPTIGA™ TPM is a standardized and turnkey solution

The OPTIGA™ TPM is best described in two pieces

Hardware Security Module (HSM)

Credential
storage



Cryptographic
operations



+

Security Functions

- › Platform Integrity Measurement
- › Key Sealing
- › Enhanced authorization

100+ functions

Key benefits

OPTIGA™ TPM

Provide **certified hardware-based roots of trust** for the gateway

Assurance on **platform integrity**

Cryptographic **key generation and storage**

Cryptographic **anti-counterfeiting**

Good **entropy source**

Easy integration with many OS, PKI software libraries and etc

Main security use cases

OEM device Identity

OEM counterfeit protection

Secured zero touch provisioning

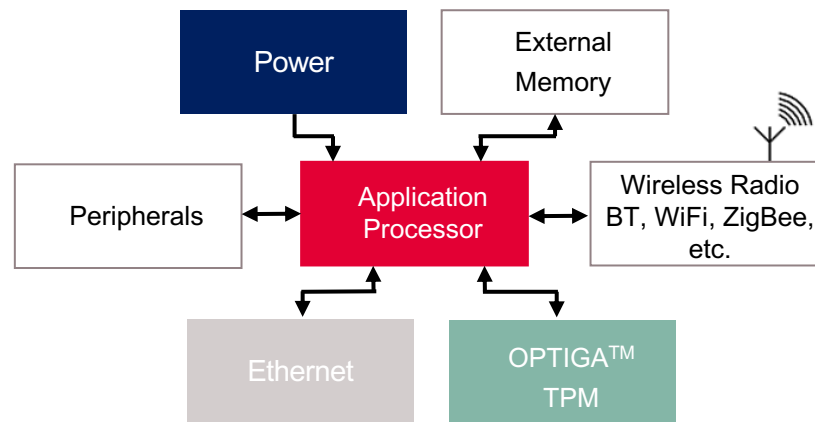
Securing secrets

Secured communication

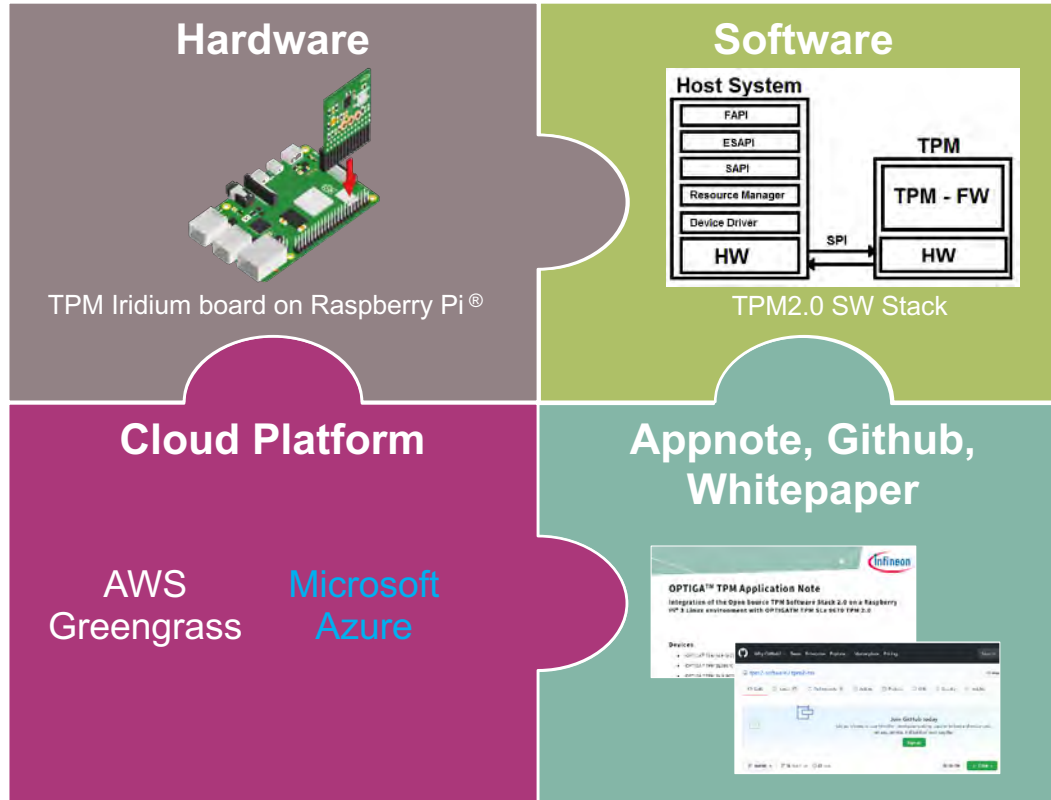
Protection of IP

Device health check

Entropy generation



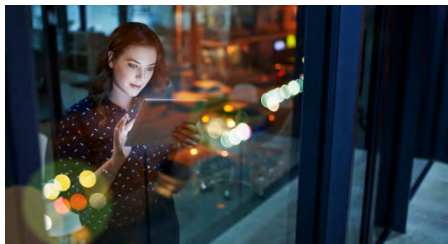
Infinion offers beyond the products delivering complete solutions for gateway



Your personal key takeaways



Strong security is required for gateways today



Infineon provides scalable, strong, easy to use security solutions



Infineon is the ideal partner for network equipment security





Part of your life. Part of tomorrow.