# ⋀VNET®

# / ASSESSING IoT RISK

## TYPE & LOCATION

Exposure to Risk

**Level of Mitigation Required**
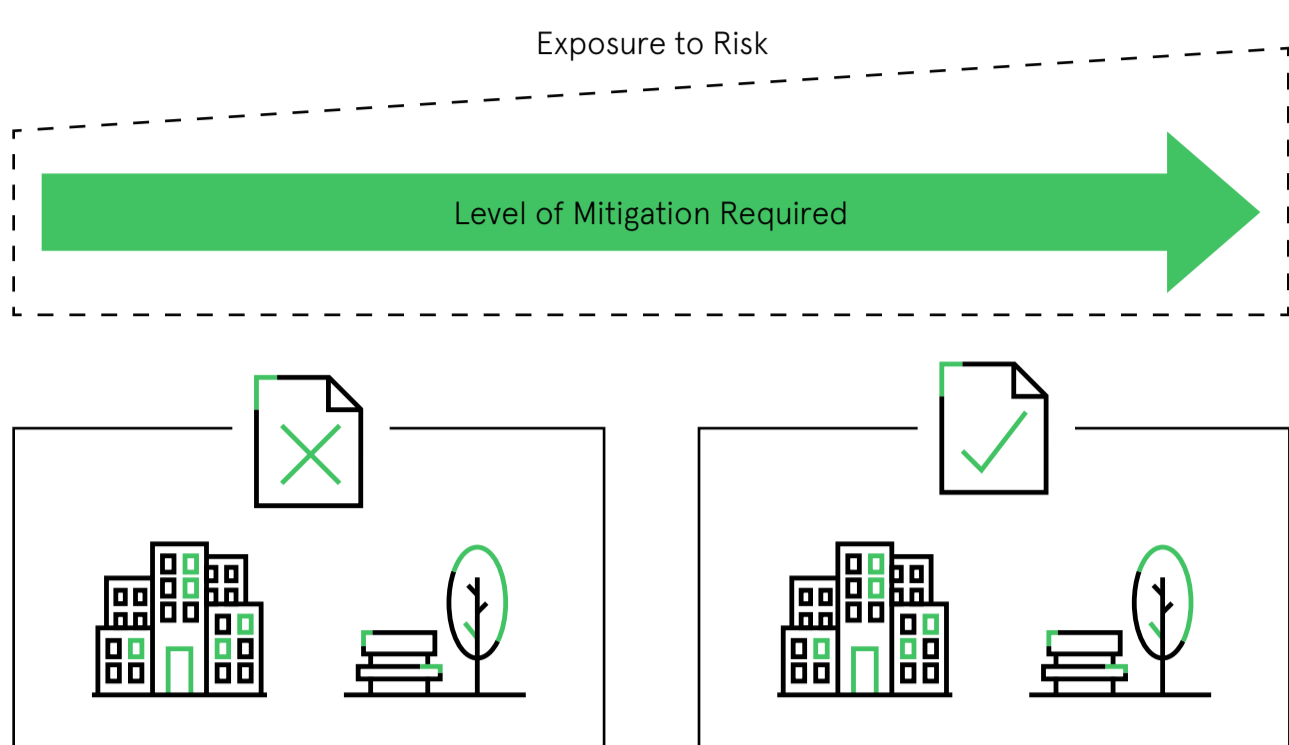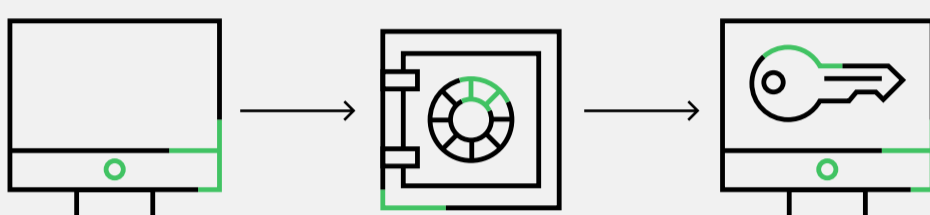
If you are collecting data using equipment in a public place your risk is much higher
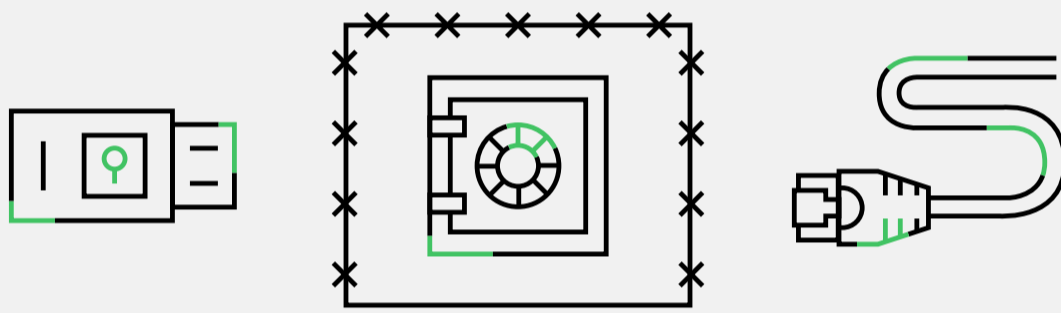
## IMPROVE SECURITY

It's not just PCs that need passwords
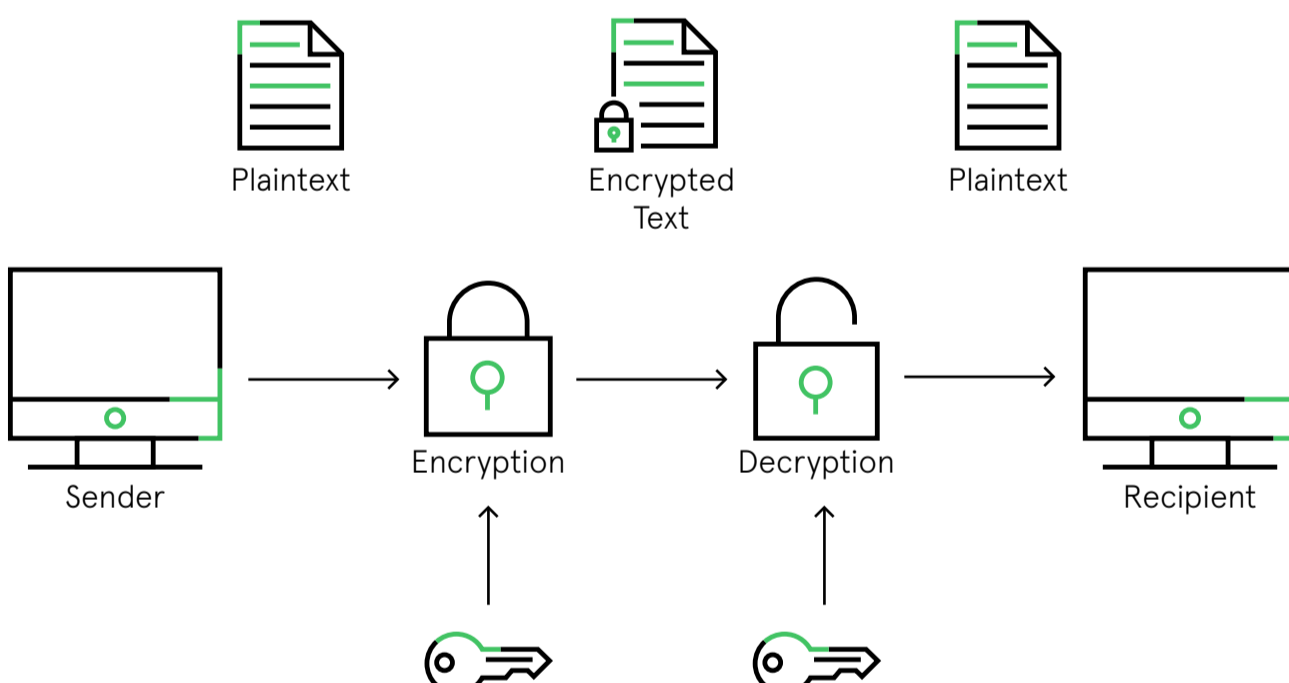
**DID YOU KNOW?**
You can add password protection to anything with a screen, even your machine's GUI?

Consider protecting ports, interfaces and even the complete assembly using lockable and tamper-proof covers or enclosures

## TOKENS & KEYS

Tokens and symmetric keys are basic measures.
Asymmetric private keys are better

Plaintext          Encrypted Text          Plaintext

Sender          Encryption          Decryption          Recipient

## HARDWARE & SOFTWARE SOLUTIONS

Hardware elements provide encryption with keys that are guaranteed to be unique to that device

Security implemented in embedded software is an effective solution

## IOT CONNECT

IoTConnect provides the framework to add security using both hardware and software solutions. Secure Device Management extends to key provisioning, activation and secure commissioning/ decommissioning
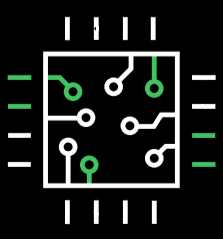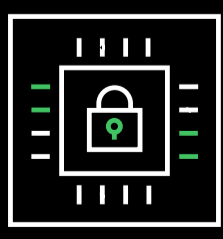
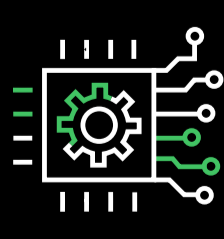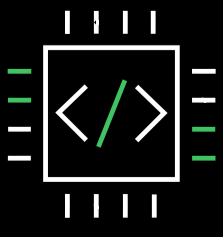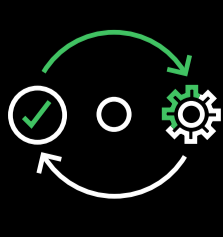MCU          HWSE          IoTConnect SDK          Edge Application

Firmware          Control Path          Data Path          Biz Application/AI