

Digital Identity Tokens

First the Foundation, then the Future

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20. Oct. 2022



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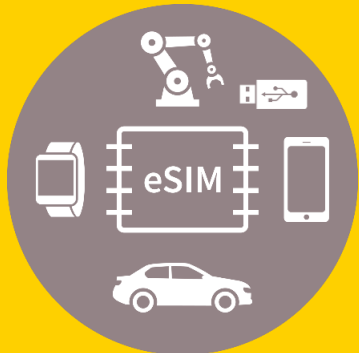
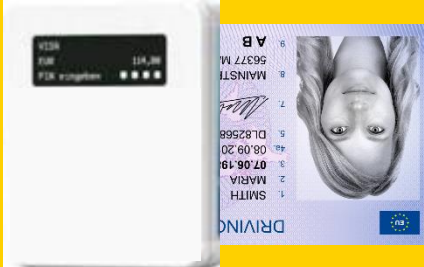
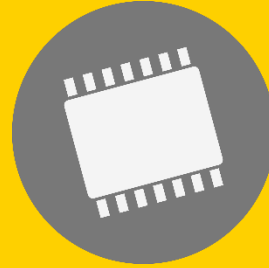
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Different Applications requiring Security



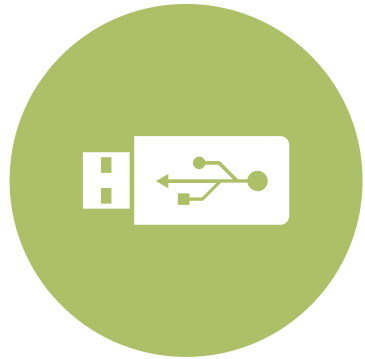
Different Applications secured by same technology

Evolution of Security Controllers



Convenience and different possible applications are increasing

Definition of secured USB Token



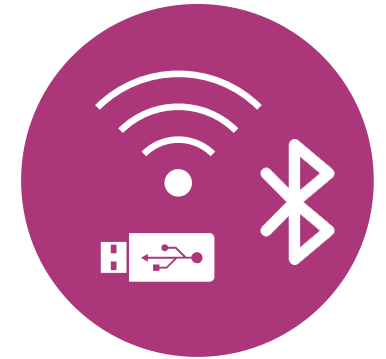
- > is a **self-contained device** (USB stick, dongle, ...)



- > **represents** the **identity** of a person or object



- > connects the physical world (person/object) to the digital world (**digital twin**)
- > **enables digital services**



- > has **≥ 1 interfaces** (USB, WiFi, BLE, ...) that are not used in smartcards

Current Focus of DIT – Customer Applications

Payment – Cold Wallet

A diagram illustrating blockchain technology. It features a central network of nodes connected by lines, with the word "BLOCKCHAIN" in the center. To the left, there is a physical cold wallet device and a smartphone displaying a transaction. Below the diagram, the text "Crypto Currencies" is written.

Physical access

A photograph of a woman in a dark dress using a physical access control system, likely a smart card or biometric scanner, to enter a building through glass doors.

Code integrity

A photograph of a man looking at a computer screen. The screen displays various icons and text related to code integrity, including "ACCESS GRANTED" and "PROTECTED".

Application Focus

A large green circle containing the text "Application Focus" in white. Below the text are two white icons: a server rack and a USB symbol with a bidirectional arrow.

Logical access incl. web access

A photograph of hands typing on a laptop keyboard. Overlaid on the image are several icons representing logical access, such as a padlock, a key, and a shield.

IP protection

A shield-shaped icon with the text "Protection" at the top and "IP" in the center, representing intellectual property protection.

License tracking Software monetization & protection

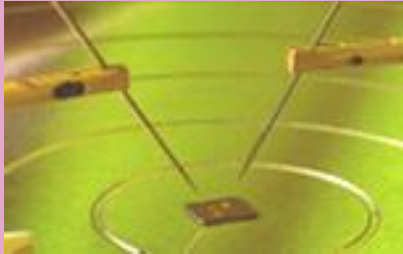
A photograph of hands typing on a laptop keyboard. Overlaid on the image are several icons representing license tracking and software protection, such as a shield, a key, and a padlock.

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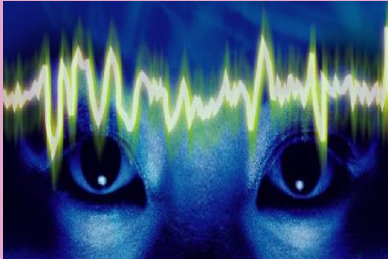
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Raising Security Requirements

Protection effort



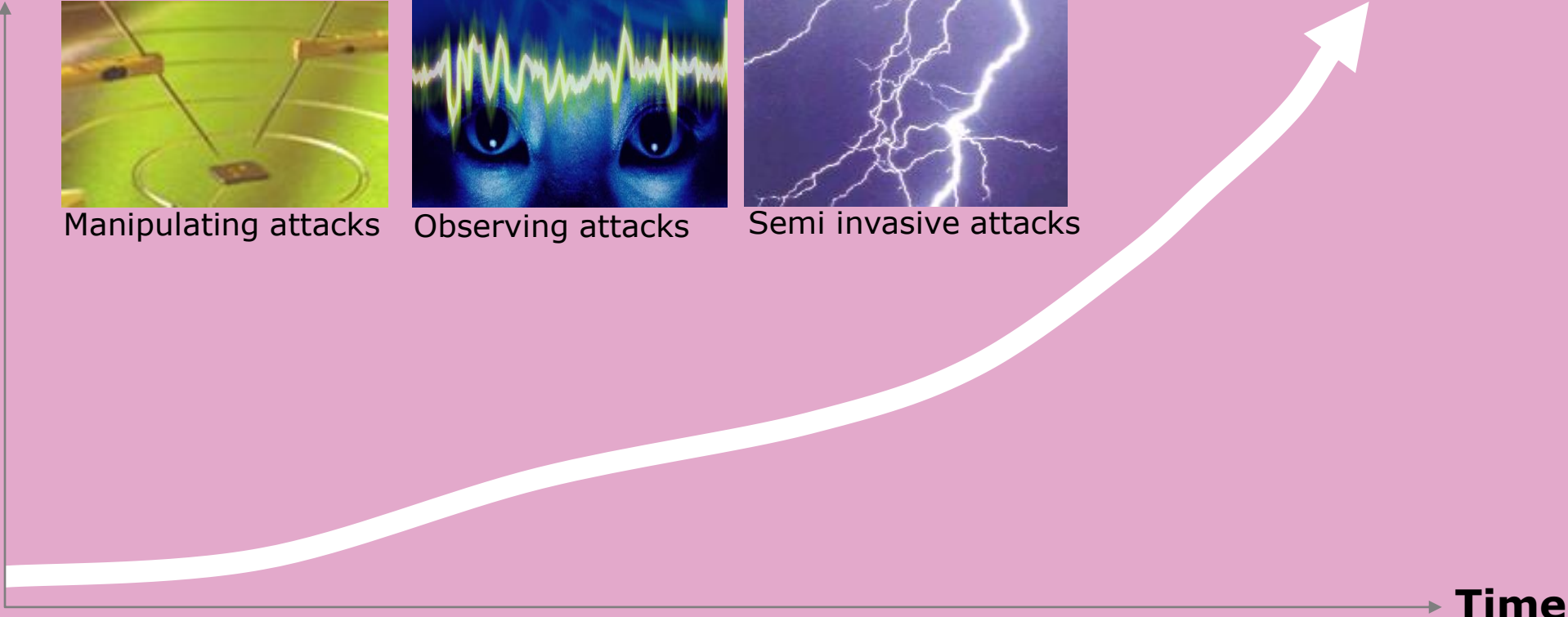
Manipulating attacks



Observing attacks



Semi invasive attacks



Number of attacks growing every year in different classes

Security is relative

~~100% security~~

Does not exist

↑ Attack effort in time and money



Security Level

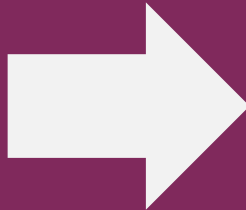
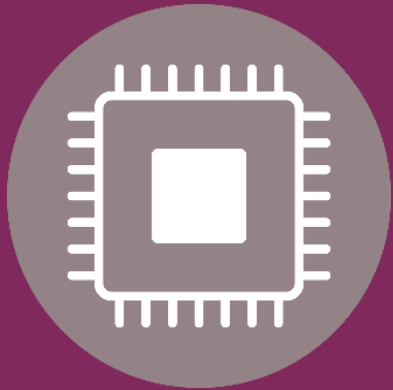
Low

Medium

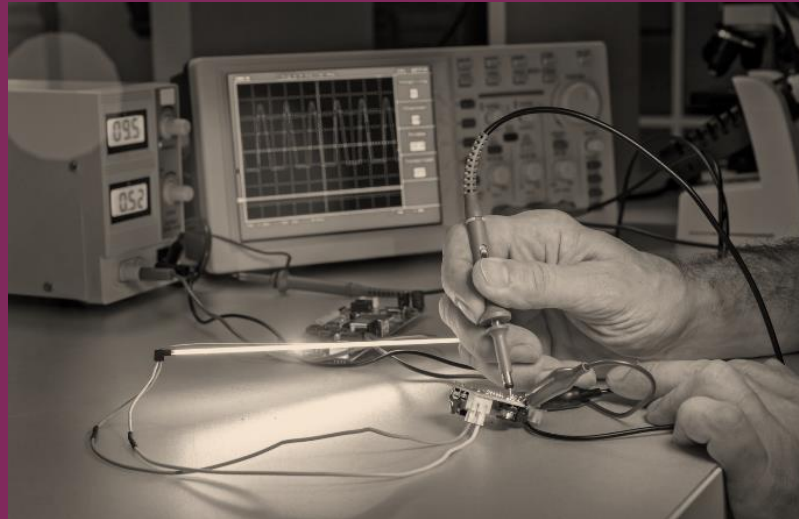
High

How to prove Security

Product for evaluation

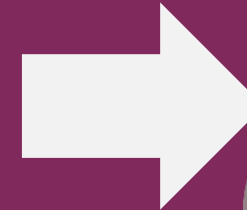


Evaluation testing



Test houses:
TUEViT, UL, SGS, FIME and others

Certification of product



Certifiers:
BSI, ANSSI, NSCIB and others



Part of your life. Part of tomorrow.