palmki

Biometric palmscanning:

THE new way of AUTHENTICATION

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by PerfectID

Why Biometry?

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Why Biometry?

Is this necessary? Proportionality?

- **Unique and Personal**
  - No person change possible
  - No theft or loss possible
  - Never forget again
- **Environmentally friendly**
  - Badge = 6gr plastic.
- **Contactless**
  - Very hygienic
- **In principle not removable**
- **High level of acceptance by consumers**
  - VIAS Institute survey
  - file:///C:/Users/wim/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/infographics-burgers-en-biometrie-nl%20(1).pdf

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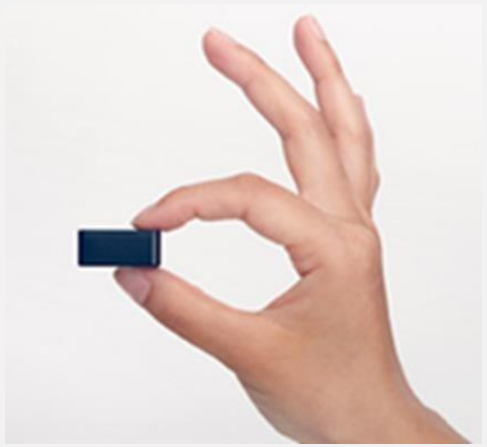

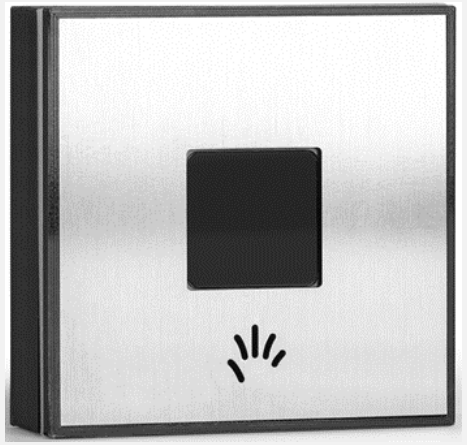

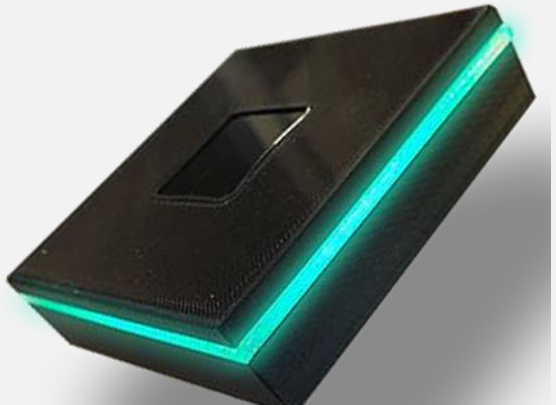

Why PALMKI?

- High Security
- Comfort
- Hygienic
- Environment friendly

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WHY PALMKI?

Security

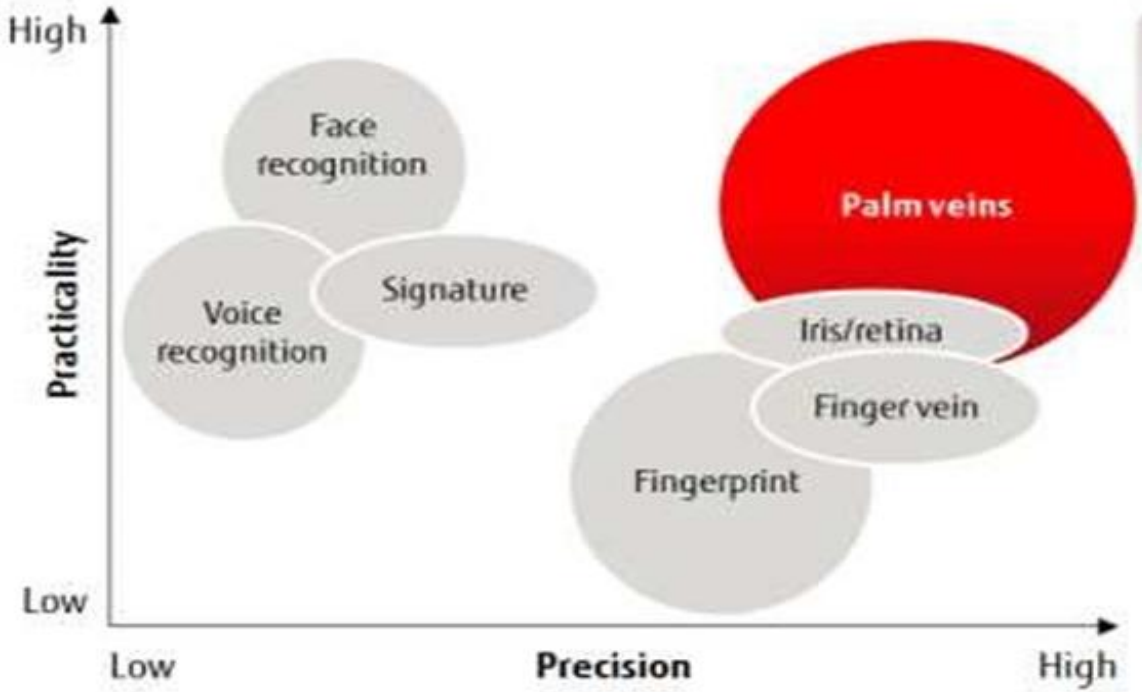
- Highest level of security

HYGIENE

- Contactless

Experience

- Increase comfort



False acceptance rate (FAR) & false rejection rate (FRR) compared

Authentication method	FAR (%) =	If FRR (%) =
Face recognition	~ 1.3	~ 2.6
Voice recognition	~ 0.01	~ 0.3
Fingerprint	~ 0.001	~ 0.1
Finger vein	~ 0.0001	~ 0.01
Iris/retina	~ 0.0001	~ 0.01
Palm vein	< 0.00001	~ 0.01

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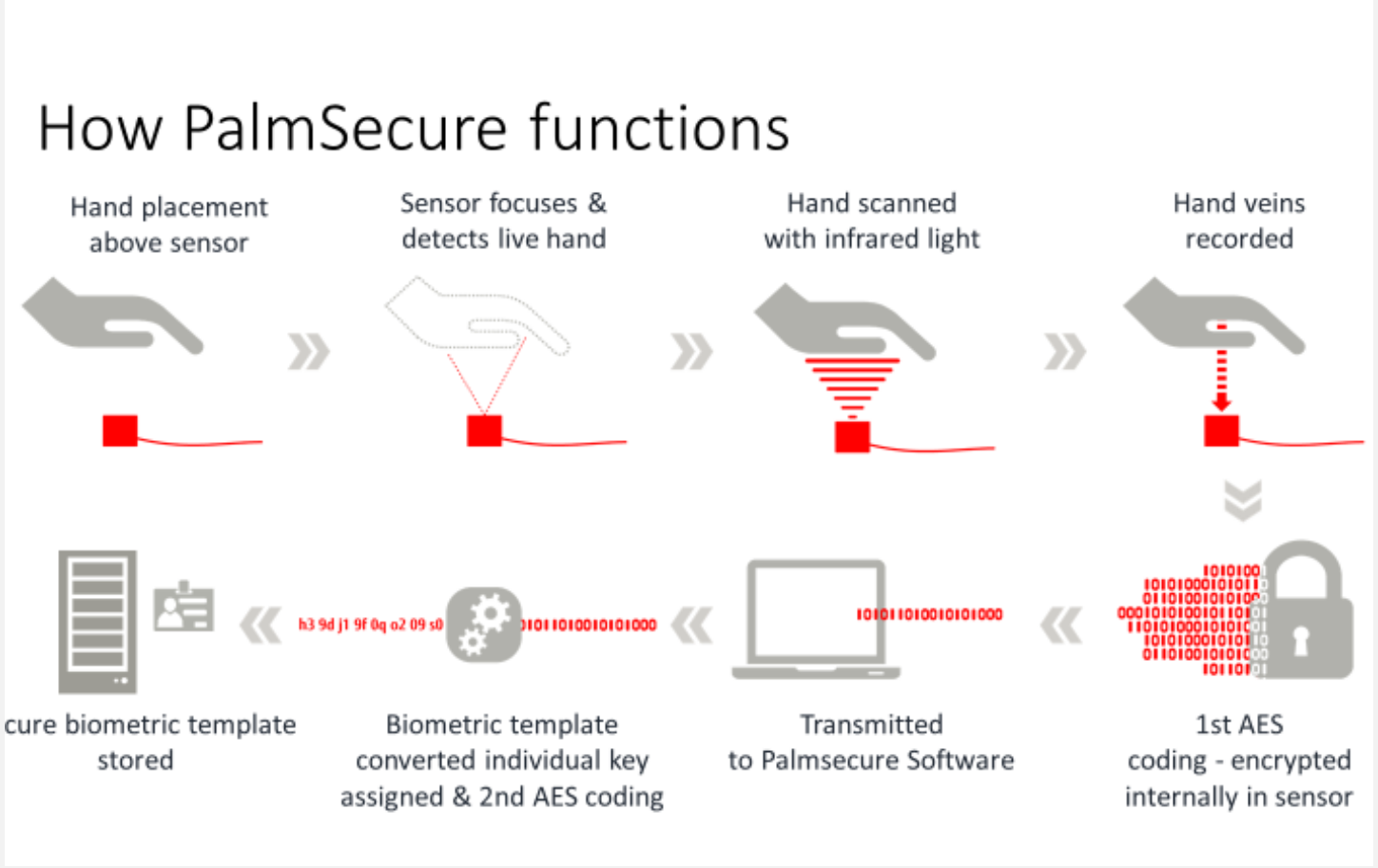
WHAT?

An ALL-IN Solution

- **Palm key**
  - Key
  - Different applications
    - Access to Buildings, Data, …
    - Time registration
    - Payments
    - Copiers, vending machines,…

- **Palm Secure**
  - Fujitsu
  - Vein pattern recognition
  - 5 Mio reference points
  - **Hashed code**
  - Blood flow always necessary



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PALMKI + BADGE

2 Factor Authentication

- **High level Security**
  - No person change possible
  - Badge transmission = EXCLUDED
- **GDPR Compliant**
  - Local storage on badge of Hand palm code data
  - No central storage => Code data stays with user on badge
- **Stand Alone use**
  - No server ⇔ No network ⇔ no central database
  - Local device performs “VERIFY” = 1 / 1
  - EASY to INSTALL
- **Very high speed execution**
  - **< 1 sec**
- **Need of BADGE anyway**
  - 1st Visual Check
  - Economics
    - High number of users
    - High security not necessary everywhere / anyone
      - Server rooms / Pharmacies / …
      - Executive members / Security Agents

PALMKI only

1 Factor Authentication

- **High level Security**
  - No person change possible
- **Comfort**
  - **No loss, theft, forgotten** (password, badge, pincode, key,…)
  - **Always “at hand”**
- **Environmental friendly**
  - No more accessories (badge = 6 gr plastic)
- **Network use**
  - Server ⇔ Network
  - Local device performs “VERIFY” on server= 1 / N
- **High speed execution**
  - **< 2 sec**
- **ONLY or EXTRA layer of Security**
  - Economics
    - high number of user
    - High security not necessary everywhere / anyone
      - Server rooms / Pharmacies / …
      - Executive members / Security Agents

PALMKI +++

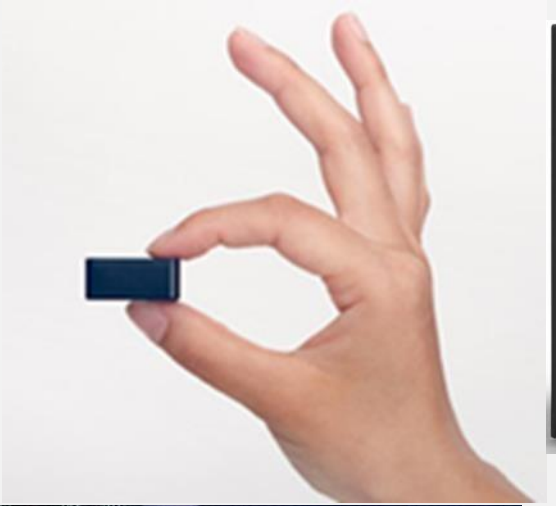
Every Combination You Can Think Of …

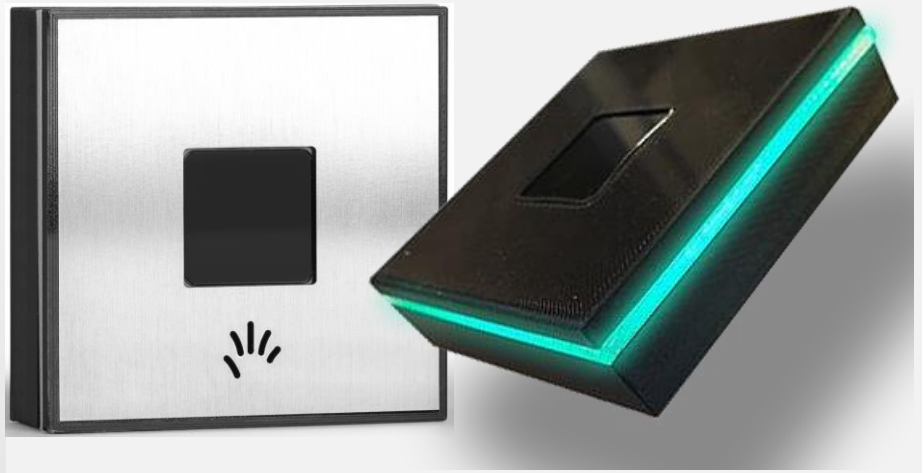
- **Via API connection**
  - MQTT protocol
- **Some possible connections**
  - Payments
  - Access control
  - Time Registration
  - Machines
    - Vending machines
    - Copiers
    - Heavy machinery with special license
      - Forklift trucks
      - Halyard
      - Elevator
      - Trucks
  - .....

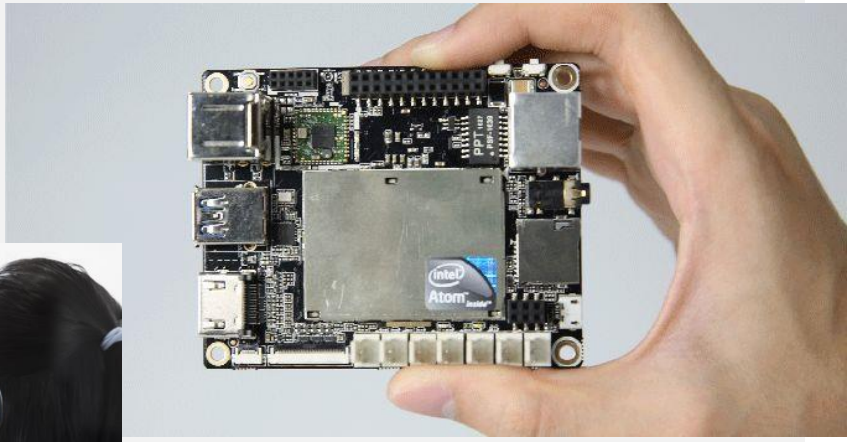
HOW?

An ALL-IN Solution

- Sensor
- Hardware devices (tailormade)
- PCB board
- Software (if needed)
- Project Management
- Installation
- Education
- Support
- After Service







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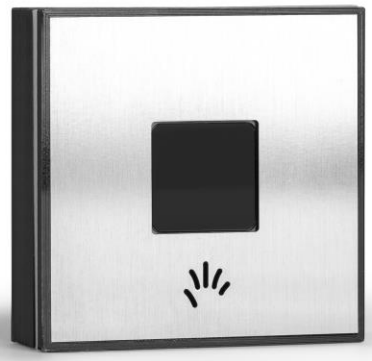
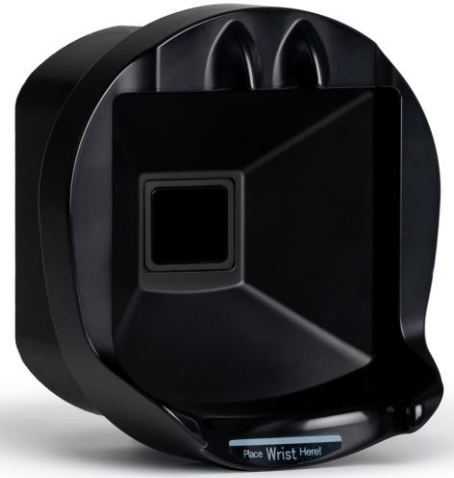


HID


Place Wrist Here!

European Parliament

Governement

Access control 2 factor authentication

Highest level of SECURITY

Situation

- Security Control by agents
- 55 localizations with badge reader
- Time planning tool

Problem = Personality check

- Badge can be copied, stolen.

Solution = palmki

- Badge = 1st visual control
- Explicit control PALMKI = Unique Palm Vein structure
- No person switch possible

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HB Antwerp Diamant Experts

https://hbantwerp.com/

High Security

Technology driven

INNOVATIVE IMAGE

Problem = Badge not safe enough

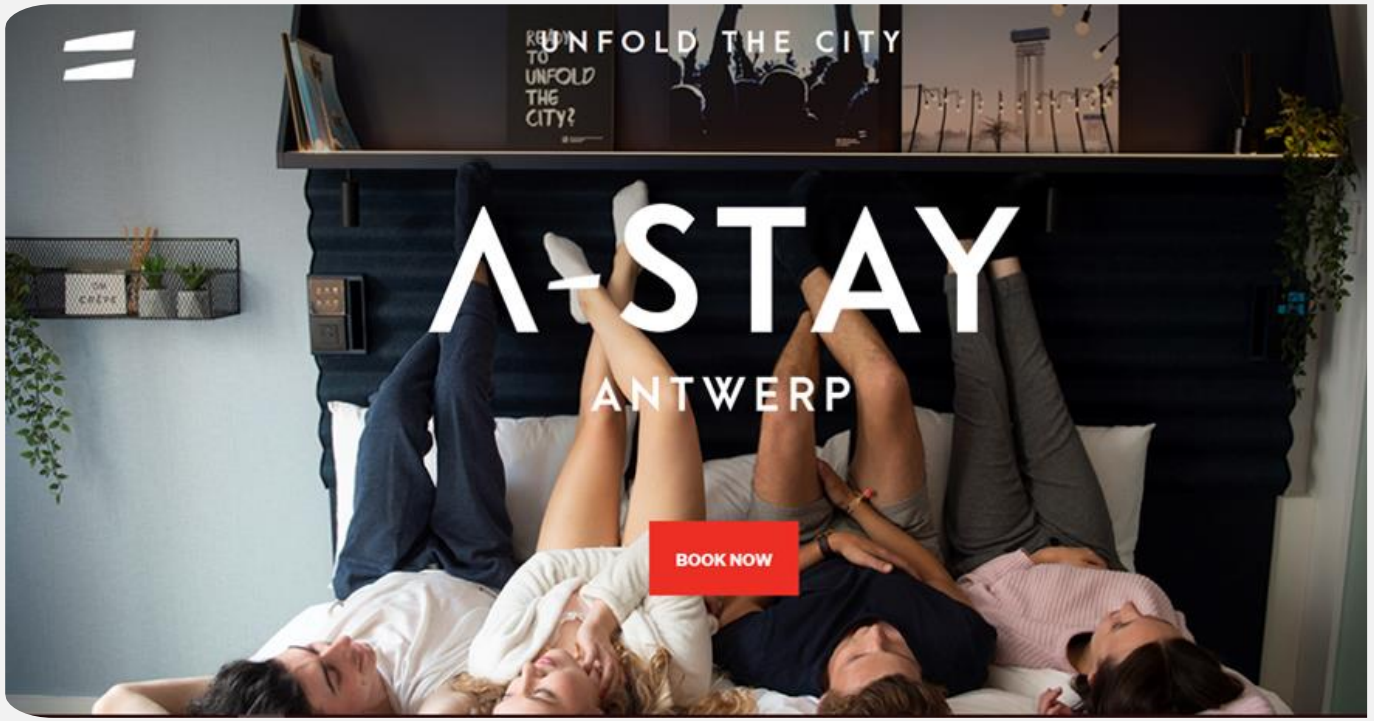
- Danger for copying and passing along
- Can be stolen
- Easy to forget your badge somewhere

Solution = palmki

- No need for a badge anymore
- 100% secure check = Person & Time

Hotel in Antwerp

Hospitality = comfort for the guests



Future Proof Hotel

- Check IN
- Access to room
- Payments Bar / Resto
- Extra access to Fitness (if reserved)
- Check Out

- https://atv.be/nieuws/hotel-van-de-toekomst-in-antwerpen-geen-receptie-en-gsm-is-afstandsbediening-88477
- https://kanaalz.knack.be/nieuws/besix-en-xior-oprichter-lanceren-eerste-a-stay-hotel/video-normal-1535387.html

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PoC: 1st phase completed

ID Management

Start Up workstation

Problem

- Personalized and anonymous badges
- Combination with entering USER ID + Password on Touch screen
- Too cumbersome, time-consuming and possible fraud

Solution = palmki

- Adequate control = Person and Time
- Fast flow: only 1 action

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KLEINE-BROGEL AIR BASE

Proof of Concept

België

Kleine Brogel Air Base

Problem: F16 to F35

Challenges:

- Need for larger hangars
- Update security procedures and access control
- High security access to F35 aircraft needed
- Potential security breaches via badge exchange

Solution = Palmki

Proof of concept to launch access via Palmki
After proof of concept, decision on possible verification in 2 steps via badge
POSITIVE REPORT RECEIVED.

PLOPSA

Comfort en special experience

Extra feature only for hotel guests = VIP treatment

INNOVATIVE IMAGE

Problem = Badges lost

- Children lose the badge easily
- Where to put the badge in AQUALAND
- Forget to return after the stay

Solution = palmki

- No need anymore for a badge
- Tight control= Person and Time

ENCON Infinity building

Environment friendly Payment Solution

A BUILDING FOR THE FUTURE

INFINITY

Problem = Payment

- Now in Excel
- Extra admin for receptionist

Solution = palmki

- Strict control = Person and Time
- Validation via Cashless payment system

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UHasselt

Secure Access control

AUDIT = Almost every one can enter server room

Problem = Badges exchange

- Personalized and anonymous badges
- Internals en externals
- No explicit control

UHASSELT

Solution = palmki

- Explicit control = Person and Time
- No exchange anymore with externals

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Xenia - Vesta

HORECA

HR for FLEX workers

Horeca for the FUTURE

- Time registration
- Planning tool check
- Contract = automated
- Dimona (for inspection) = automated
- https://kanaalz.knack.be/nieuws/belgische-software-maakt-dagelijks-gebruik-handpalmscan-mogelijk/video-normal-1561739.html

vesta
eenvoudig in orde

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