

ADVANCED BIOMETRICS · EMEA

Palmki 2.0

Your palm is your key

The smartest, safest and most privacy-friendly access solution



• Contactless & hygienic

• Fast & simple

• Secure

• GDPR art. 9 compliant

• Most privacy-friendly

ABOUT PALMKI 2.0

3rd Generation Access Control

Palmki 2.0 replaces badges, PIN codes and passwords with something nobody can forget, lose or copy: **your palm**. Near-infrared technology scans the unique vein patterns beneath your skin in under one second — contactless, hygienic and infallible.

1st generation
 Keys & badges — losable, copyable, shareable

2nd generation
 PIN codes & passwords — forgettable, phishable

3rd generation — Palmki 2.0
 Your palm IS your key. Always with you, unique, unforgeable, fully contactless.



<1s
 Recognition

99.999%
 Accuracy

Real Human Verification
 In a world of robots and AI fraud, it is essential to be certain that a real person is requesting access. Palmki verifies both identity and humanity — irreplaceable for high-security environments.

Most privacy-friendly
 Vein patterns are subcutaneous and invisible — they can never be passively captured. Palmki 2.0 is the only biometric method that is also truly privacy-friendly. Confirmed by Ghent University (2025).

5M Reference points scanned	0% Physical contact required	1:N Identification or 1:1 verification	EMEA Active in Europe, Middle East & Africa
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WHY PALMKI 2.0?

Nine reasons to choose palm vein biometrics

**No badges, cards or PINs**

Badges get lost, shared or copied. Palmki 2.0 eliminates this risk: your palm is your only key.

**Highest biometric accuracy**

Palm vein patterns are unique, internal and invisible. They don't change with age — more reliable than fingerprint or face recognition.

**Contactless & hygienic**

No touching of shared surfaces. Ideal post-COVID-19 and in HACCP-certified environments.

**Fast & simple**

Recognition in under 1 second. No queues, no delays — faster than a badge or PIN code.

**Most privacy-friendly**

Vein patterns lie deep beneath the skin — not visible or copyable without invasive scanning. The only biometrics that truly respects privacy. **Legislation requires the most privacy-friendly method.**

**Real Human Verification**

Verifies not just identity but humanity — essential in a world of AI fraud and deepfakes.

**Inclusive for all skin types**

Near-infrared works regardless of skin colour, scars or dirt — fully inclusive for all users.

**Compatible with existing systems**

OSDP v2, Wiegand, REST API — plug-and-play integration with virtually any existing access control system. No replacement needed.

**GDPR-compliant & legislation-ready**

Palmki 2.0 is designed in accordance with GDPR Article 9 (special categories of personal data). Perfect-ID NV provides full DPIA support, data processing agreements and consent workflows for the EMEA market.

COMPLIANCE & PRIVACY

The most privacy-friendly biometric solution



Legislation requires the most privacy-friendly biometric method

When an organisation deploys biometrics, it is legally obliged to choose the least privacy-invasive method that achieves the goal. Palm vein biometrics is scientifically proven to be the safest choice — and therefore the only legally defensible option.

INDEPENDENT SCIENTIFIC STUDY

"Football safety through biometric access control"

Vermeulen, G., Van Pée, J., & Dormaels, A. — Ghent University, 2025

The study compared biometric methods on ethical & legal risk profile — independent of brand or product. Palm vein biometrics achieved the **lowest risk score: 2 out of 7 risk factors**. → [View the study](#)

2/7

Palm vein
(lowest = safest)

3/7

Iris scan

4/7

Fingerprint

7/7

Face recognition

GDPR Article 9 — By design

Biometric data falls under special categories of personal data. Palmki 2.0 is designed with privacy by default: templates instead of photos, local storage, explicit consent, right to erasure.

Government approval — Belgian Ports

Recognised by Minister Paul Van Tigchelt (Deputy PM, Minister of Justice & North Sea) as official supplier of biometric solutions for Belgian ports. Certified under Royal Decree Maritime Security & ISPS.

GDPR COMPLIANCE CHECKLIST

- ✓ Explicit consent at enrolment
- ✓ Right to erasure built-in
- ✓ No data shared with third parties
- ✓ DPIA support available
- ✓ Data processing agreement available
- ✓ Purpose limitation per use case
- ✓ Data minimisation: templates, not photos
- ✓ Audit trail & logging built-in

SOLUTIONS

From stand-alone to fully integrated

ACCESS CONTROL



Palmki Stand-Alone

The complete Palmki platform for access control — including cloud platform, management interface and sensor. Ideal for organisations without an existing access control system.

Access Control

Time Registration

Cloud Platform



Integration with existing systems

Palmki 2.0 connects seamlessly to your existing access control system via OSDP v2 or Wiegand. No replacement of your current infrastructure — just an upgrade.

OSDP v2

Wiegand

REST API

ADD-ON OPTIONS



Time Registration

Automatic attendance registration without badges or separate terminals. Integrates with HR and ERP systems.



Payments & Loyalty

Pay and earn loyalty points with your palm. No card or smartphone needed. First palm payment in Belgium at Corda Campus (Hasselt).



Two-Factor Authentication (2FA)

Combine Palmki with a badge or PIN for extra security in critical zones. Ideal for data centres, pharma and government buildings.



Template-on-Card (TOC)

The biometric profile is stored on the user's own badge — no central database. Maximum privacy: even Palmki has no access to the data.



Flexibly deployable: Palmki scales from 5 to 50,000+ users and works in cloud, on-premise or hybrid environments. All solutions are modularly built to your specific needs.


USE CASES & REFERENCES

Proven in practice

 **MARITIME · HIGH SECURITY**


Ports & Maritime Security

Secured ISPS zoning: only authorised personnel gain access. Compliant with Royal Decree Maritime Security. Officially recognised by the Belgian government.

 **SPORTS · EVENTS**


Football Stadium — Fastlane Access

Fans enter the stadium in <1 second without scanning a ticket. Tested at KAA Gent. Eliminates ticket fraud entirely.

 **RETAIL · PAYMENT**

Campus & Canteen Payment


Pay with your palm — no card needed. First palm payment in Belgium at Corda Campus (Hasselt). Leuven Bears fans pay with their palm.

 **DATA CENTRE · HIGH SECURITY**

LCL Data Centres


2FA with template-on-card for access control. No central database. Meets the strictest data centre standards.

SECTORS



Office & Data Centre

Access control, time registration and cybersecurity




Healthcare & Pharma

Hygienic, contactless access for sensitive zones



Finance & Banking

High-security access and identity verification



Education & Campus

Payment, access and attendance registration



Industry & Logistics

Time registration and access at machines & warehouses



Ports & Maritime







ISPS-compliant, recognised by Belgian government

Also deployable for: **sports clubs** (access & lockers) · **airports** (staff access) · **pharmaceutical labs** · **residential**

INTEGRATION


Works with your existing systems — no replacement needed

Palmki 2.0 connects to your existing access control system, time registration, HR software or payment system. Your investment remains intact — Palmki adds biometric security.

 <p>OSDP v2 Seamless integration with Lenel, Genetec, CCURE. Open protocol — vendor-independent.</p>	 <p>Wiegand 26/34/37 Direct replacement of existing badge readers. Plug-and-play, no configuration needed.</p>	 <p>REST API / SDK Custom integrations via Android SDK or REST API. Compatible with Windows 10 & Android 7–14.</p>
 <p>Cloud / On-premise Fully local, cloud or hybrid. You choose the deployment environment to meet your security requirements.</p>	 <p>POS & Payment Connection to payment systems and platforms via the Alfa-Zet integration layer.</p>	 <p>ERP / HR Systems Direct connection for time registration and attendance management — no separate terminals.</p>

SUPPORTED PROTOCOLS

- OSDP v2
- Wiegand 26/34/37
- TCP/IP
- REST API
- MQTT
- USB HID
- Android SDK
- 4G LTE
- 802.11ac WiFi

 **Your system, our biometrics.** Palmki respects your existing investment and only adds the biometric layer. No vendor lock-in, no full platform migration, no extra licences for your existing system.

RETURN ON INVESTMENT

The business value of Palmki 2.0

 COST SAVINGS**-100%****Badge costs eliminated**

No more badge creation, management, reprinting or replacement.
Average saving: €15–30 per badge per year.

-80%**Fewer helpdesk tickets**

No forgotten PINs, blocked badges or lost cards. Fewer IT interventions, lower management costs.

-95%**Security incidents**

Palmki eliminates the most common cause of security breaches: shared or stolen badges and codes.

 OPERATIONAL BENEFITS**+40%****Faster throughput**

Access in <1 second versus 3–5 seconds with a badge. With 500 employees per day = 33 minutes saved daily.

24/7**Seamless time registration**

Check-in and check-out happens automatically at access. No separate time terminals or extra actions needed.

**Automatic compliance**

Full audit trail, GDPR documentation and access reports generated automatically. No manual administration.

**Typical payback period: 12–18 months**

Based on eliminated badge and management costs, reduced security incidents and time savings at access. Request a custom ROI analysis at www.palmki.eu/contact



Ready for the future?

Your palm is your key — request a free demo.



WEBSITE
www.palmki.eu



EMAIL
info@palmki.eu



LOCATION
Hasselt, Belgium



PHONE
+32 (0) 11 85 87 87

[Request your demo](#)

→ www.palmki.eu/#contact

Perfect-ID NV · Palmki Division · Bedrijfsstraat 2, 3500 Hasselt · BE 0723.904.466

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