

PASSIFY GMBH

hardware-free, app-based truck handling system that combines secure driver authentication with streamlined gate and yard processes

the challenge

Port and terminal operations are among the most safety-critical environments in global logistics. Yet, truck handling and gate access have long relied on manual processes, paper documents, or physical access cards. These systems are prone to error and create significant safety risks:

- unverified identity: access cards and RFID tags can be lost, shared, or cloned. In many cases, terminals cannot be certain who is actually entering the site - exposing them to accidents, misuse, or even organized crime.
- congestion and unsafe queues: trucks waiting at terminal gates create dangerous traffic build-up, block critical infrastructure, and hinder emergency access.
- lack of transparency: without real-time visibility, drivers and operators make last-minute decisions under pressure, increasing the likelihood of unsafe situations.

International frameworks such as the ISPS-Code require ports and terminals to maintain strict access control and verifiable identification of every individual entering the facility. Traditional manual or card-based systems often fail to consistently meet these standards.

Our innovation addresses these gaps by ensuring that only the right driver, at the right time, at the right place can gain access. By replacing insecure manual checks with biometric verification, and by eliminating unsafe queues through digital slot booking, we enable terminals to meet ISPS requirements while fundamentally improving safety and operational resilience.

the innovation

Passify is a hardware-free, app-based truck handling system that combines secure driver authentication with streamlined gate and yard processes.

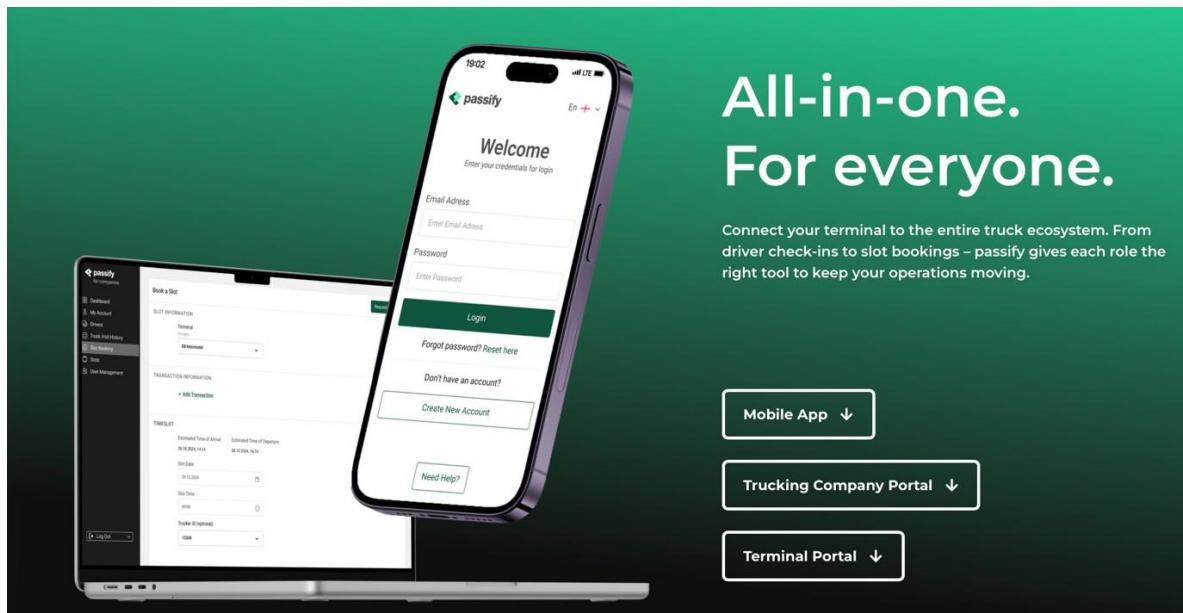
Unlike legacy RFID or access card systems, Passify leverages what every driver already carries: **their own smartphone** as the authentication device. This eliminates the vulnerabilities of cards or tokens, while making adoption simple and cost-efficient.

Key features include:

- **biometric multi-factor authentication** for non-transferable, 100% verified driver identity.
- **GDPR-compliant face verification**, ensuring maximum security while protecting personal data.

- digital slot booking to prevent congestion and minimize the risk of unsafe waiting areas.
- QR-based location validation inside the terminal, guiding drivers seamlessly and securely.

By removing dependency on physical infrastructure and enabling direct, verifiable driver validation, passify makes access **safer, faster, and fully traceable**. It provides terminals with the confidence that every entry is secure, authorized, and compliant with the highest safety standards.



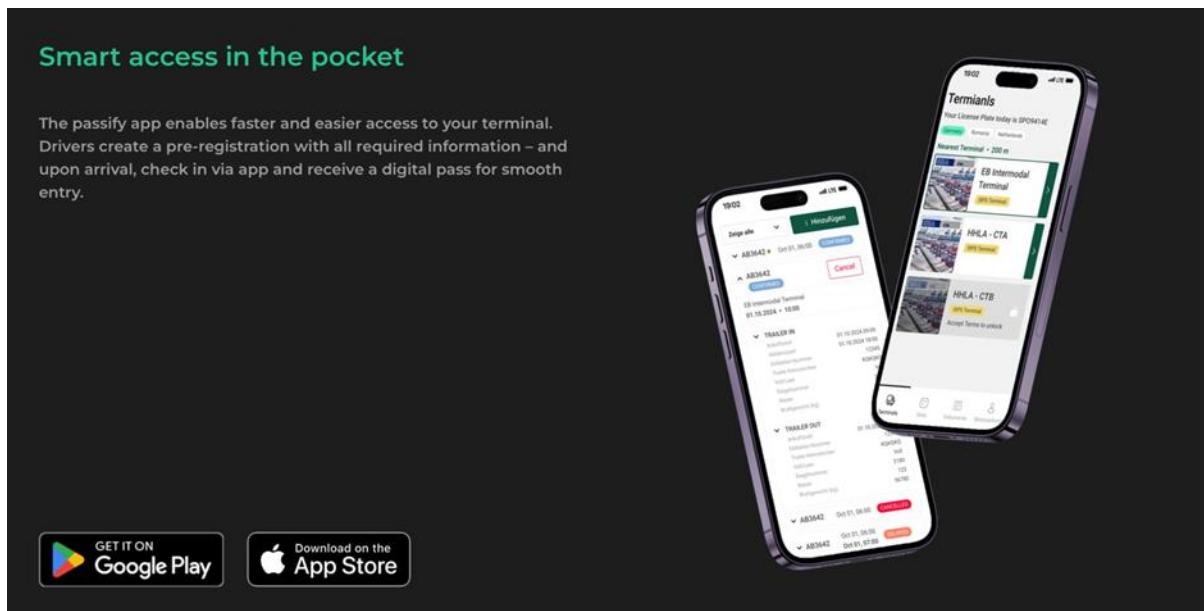
**All-in-one.
For everyone.**

Connect your terminal to the entire truck ecosystem. From driver check-ins to slot bookings – passify gives each role the right tool to keep your operations moving.

Mobile App ↓

Trucking Company Portal ↓

Terminal Portal ↓



Smart access in the pocket

The passify app enables faster and easier access to your terminal. Drivers create a pre-registration with all required information – and upon arrival, check in via app and receive a digital pass for smooth entry.

GET IT ON  **Google Play**

Download on the  **App Store**

how it was implemented

Implementation followed a step-by-step, collaborative approach with terminal operators, trucking companies, and drivers as equal stakeholders.

Our first large-scale rollout took place at the three HHLA terminals in Hamburg within the first year of our founding. Initial pilots involved selected trucking companies, whose drivers tested the app in real operating conditions. Our team was on-site to personally support onboarding, registration, and first use ensuring smooth adoption and building trust.

After a successful pilot, the system was gradually made mandatory across all three terminals. Since then, passify has been running with 100% uptime, processing more than 1.7 million truck visits per year at these sites alone.

Today, every new deployment follows the same proven process: pilot → staged rollout → full adoption. Drivers are treated not just as users but as **safety partners** whose feedback directly shapes the system.

On the technical side, integration is simple: only a few key interfaces with TOS/GOS are required, with optional connections to external TMS. With **no kiosks, cards, or hardware** required, deployment is fast, cost-effective, and disruption-free.



result

The results have been both quantifiable and transformational:

- **scale:** now live at 6 terminals, with more than 900 trucking companies and 20,000 drivers actively using the system.

Digital Identity

PASS SECURE

Verified digital identity of drivers through Seventh Sense Integration

Purpose

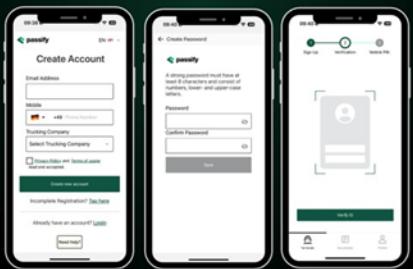
To replace outdated and manual access control methods (RFID cards, code-based access) with a secure, digital, and automated identity management framework, ensuring only verified individuals can access the port.

Key Capabilities

- Multi-Factor Authentication (MFA) with Biometric Data
- Remote Identity Onboarding
- Policy-Based Access Control
- Audit Trails and System Integration
- Time-limited and unlimited access restrictions

Your Benefits

- Stronger perimeter security with less risk of card misuse or identity fraud (ISPS conform)
- Reduced administrative overhead and manual intervention
- Faster onboarding for drivers and less congestion at the port's entry point
- Readiness for EU-level eIDAS compliance and digital transport workflows



- **safety:** 100% verified driver identity has eliminated card-sharing, impersonation, and unauthorized access. Every entry is fully traceable by person, time, and location - a critical advantage in safety investigations.
- **compliance:** Terminals consistently meet ISPS standards and internal safety protocols. Also passify ensures IT-security by being ISO 27001 certified.
- **operations:** Waiting times reduced by up to 40%, eliminating unsafe congestion. At a hinterland terminal in Romania, manual processing was reduced by 60%. In Hamburg, HHLA terminals report significantly safer operations and improved compliance since adopting passify.
- **resilience:** Average support response time under 7 minutes, issue resolution within 60 minutes, and zero downtime - even at volumes exceeding one million truck handlings annually.

In short, passify does not just optimize efficiency - it establishes a new safety culture in port and terminal logistics.

Conclusion

Passify transforms safety from a vulnerability into a baseline for every terminal operation: no entry without verified identity, no unsafe queues, no reliance on insecure cards.

Core safety benefits:

- 100% verified, non-transferable driver identity via GDPR-compliant biometrics
- significant reduction of unsafe queues through slot booking & guided flows
- proven resilience: over 1.7 million handlings annually with zero downtime
- simple, cost-efficient integration without hardware requirements

- scalable and trusted: already in use across multiple countries and terminals

Looking ahead, we are extending this safety-first approach beyond ports. Through SYMO, our collaboration with railsync, we are synchronizing truck and rail operations to reduce bottlenecks, improve predictability, and create safer intermodal flows.

Passify demonstrates that true innovation in safety is not about more hardware - it is about smarter, digital-first solutions that protect people, assets, and operations.

Our Story

It all started at the terminal gates

"It all started at the terminal gates. After years in port operations and logistics, we kept seeing the same problems: trucks stuck in queues, paperwork everywhere, and systems that didn't talk to each other.

We knew there had to be a better way. So we built passify, a digital access solution that connects everyone involved in truck handling. No more clipboards. No more guesswork. Just a smarter, faster, and more secure way to manage logistics.

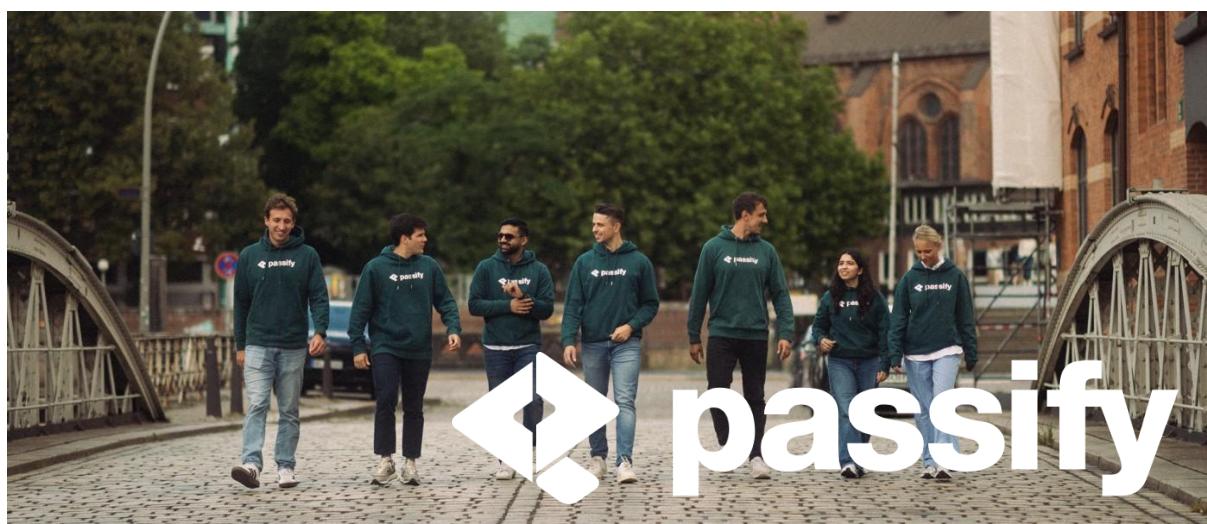
We're here to help terminals unlock efficiency, give drivers a better experience, and bring real-time visibility to the yard. This is just the beginning."

Nico & Marcel

Founders of passify



LINK: <https://www.passifyapp.de/>



About TT Club

TT Club is the established market-leading independent provider of mutual insurance and related risk management services to the international transport and logistics industry. TT Club's primary objective is to help make the industry safer and more secure. Founded in 1968, the Club has more than 1100 Members, spanning container owners and operators, ports and terminals, and logistics companies, working across maritime, road, rail, and air. TT Club is renowned for its high-quality service, in-depth industry knowledge and enduring Member loyalty. It retains more than 93% of its Members with a third of its entire membership having chosen to insure with the Club for 20 years or more.

International Cargo Handling Coordination Association

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