

BORDERGUARD™ Bio Matcher

Flexible, high-performance multimodal ABIS for border control



Amid rising traveler volumes combined with more stringent border verification, border agencies are increasingly turning to automated, self-service solutions to smooth the clearance process while keeping a high level of security. This needs identification systems that deliver accurate, fast matching results.

Choose our state-of-the-art Automated Biometric Identification System (ABIS) to increase trust in a traveler's eligibility to enter/exit the country while keeping high throughput.

Supporting face, fingerprint, and iris biometrics, BORDERGUARD™ Bio Matcher links biometric records with traveler data, and performs accurate, fair, and fast identity verification (1:1, 1:N, and 1:Few) for a wide range of high-stake use cases, including automated border control and visa application processing.

For complex or ambiguous cases—such as morphed images or look-alikes—BORDERGUARD™ Bio Matcher includes an optional manual adjudication interface, enabling expert operators to make informed decisions where automated systems alone are not enough.

Scalable, from small to large databases, and easy to integrate, it relies on an OSIA (Open Standard Identity APIs) interface and standard off-the-shelf components for minimal impact on the existing ecosystem.

BORDERGUARD™ Bio Matcher easily scales from a single workstation to an entire server farm—integrating smoothly with existing IT systems while ensuring maximum performance and minimal disruption.

Benefits



Efficient

- > Optimal trade-off between speed and accuracy
- > Top tier in major NIST benchmarks (FRTE, FATE, PFT III, ELFT, IREX 10)



Secure

- > Data cyphering both at rest and in transit
- > State-of-the-art IT security



Easy integration

- > 100% software-based solution
- > OSIA REST API

IDEMIA Public Security #1 in biometric technology

With over 50 years of experience in the field of biometrics and **more than 6 billion biometric records managed worldwide**, IDEMIA Public Security is your trusted partner for identity verification programs and the management of highly sensitive biometric data.

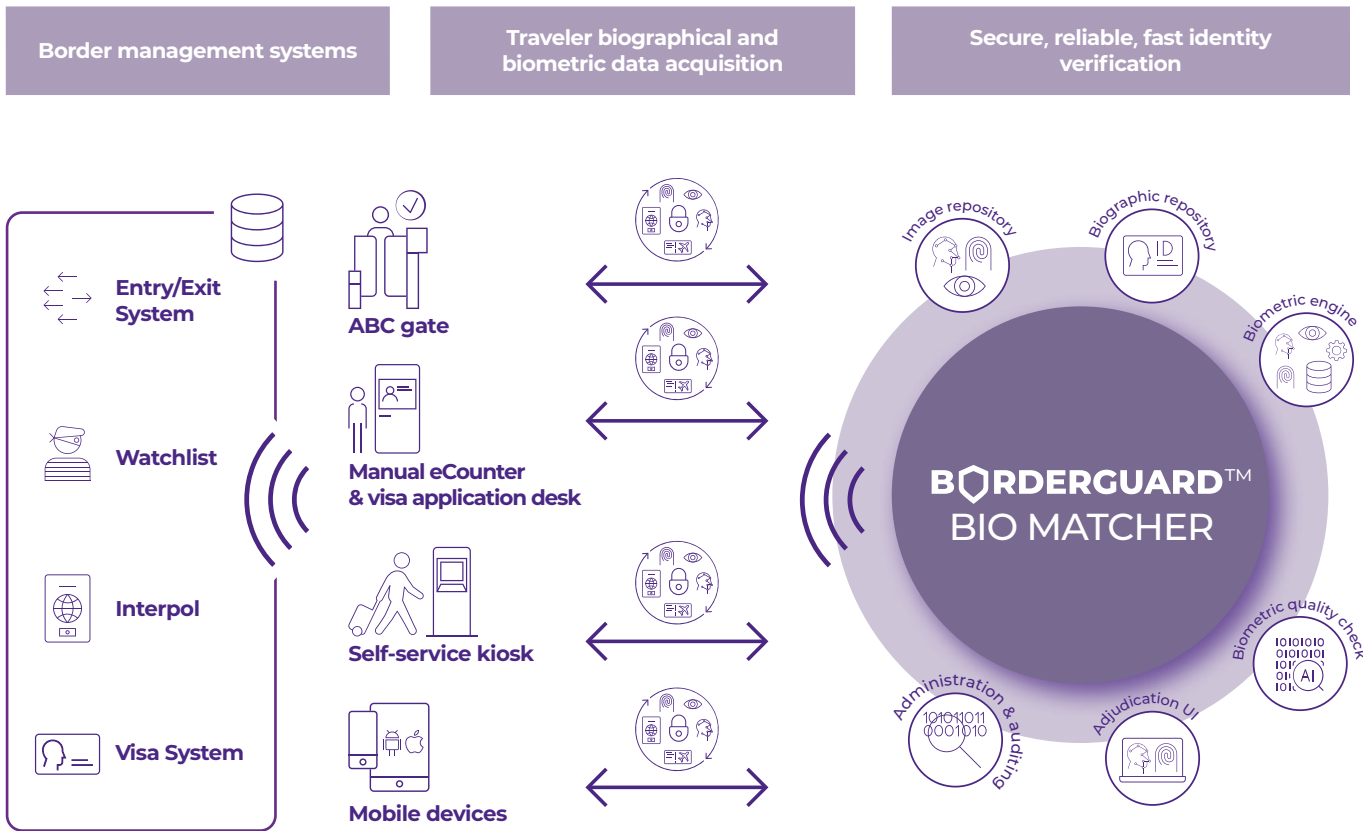
Our algorithms are **independently recognized as the most accurate and fair on the market**, consistently ranking at the top of performance evaluations—including those conducted by the

National Institute of Standards and Technology (NIST).

Our biometric recognition algorithms are already in use by national and supranational agencies around the world, including **Interpol and eu-LISA**. They also play a central role in **India's UIDAI (Aadhaar) program**—the largest biometric system in the world, with **over 1.4 billion biometric records** (face, iris, and ten fingerprints), processing up to 1 million requests per day.



>> Modular, scalable, resilient ABIS adapted to border processes



BORDERGUARD™ Bio Matcher additional benefits

ACCURATE

- › **Latest-generation algorithms** powered by artificial intelligence for better results
- › **Embedded best-in-class biometric engine:** MBSS
- › **Fair, unbiased, and accurate algorithms** for everyone, regardless of gender, age, or ethnicity
- › **Robust to real-life conditions:** independent of lighting, angle, and traveler attitude
- › **Algorithms resilient** to data quality, integrating automatic correction of errors
- › **Convenient adjudication user interface** integrating face and fingerprint image processing tools
- › **High availability:** redundant configuration, no single point of failure
- › **Suitable for high-throughput operations:** processes up to 100 travelers per second and offers rapid response time (< 2 seconds)

SECURE

- › **Secure, segregated** sharing of data between stakeholders
- › **Secure** development methods, including security-oriented analysis and penetration testing
- › **Continuous monitoring of security vulnerabilities:** security-oriented analysis and several intrusion tests per year
- › **Privacy by design:** GDPR compliant

EASY INTEGRATION

- › **Standard, non-proprietary technologies—** no vendor lock-in, no proprietary hardware
- › **Autonomous platform:** private cloud, on-premise
- › **Complete set** of scripts and manuals for easy installation