Continuous, Real-time Identity Protection

SafePulse

SafePulse delivers continuous, privacy-first user authentication by analyzing behavioral biometrics—such as keystroke dynamics, mouse movements, and contextual signals—locally for maximum security. Its AI engine combines a 1 D-CNN for time-based anomaly detection (e.g., robotic typing) with a transformer architecture featuring attention layers for context-aware fraud detection (e.g., unusual geo-location or timing). This layered approach enables precise detection of credential hijacking and account takeovers in real time, triggering adaptive responses like MFA or session termination.

Designed for a frictionless user experience, SafePulse auto-enrolls profiles securely and strengthens zero-trust strategies without adding complexity. Organizations gain compliance-ready, privacy-first protection that evolves with user behavior, reducing risks of session hijacking and insider threats while maintaining trust at scale.

*Erasys blends cutting-edge behavioral biometrics with privacy-first cyber intelligence **to transform digital identity security.***

Key Intel-Enabled Features

Ultra-Low Latency

Secure Local AI

Optimized Inference

Adaptive Fraud Detection

accelerated by **intel.**

- Internal testing on Intel® Core™ Ultra processors, OpenVINO™ FP32 achieved up to 10.7x faster inference compared to a custom PyTorch FP32 implementation, providing an optimal balance of speed and accuracy.[1]

- Multi-device acceleration across CPU, GPU, and NPU supports enterprise-grade scalability, with GPU performance further enhanced by larger batch sizes.

- Hardware-based protections secure local processing for privacy-first authentication.

Intel Products and Technologies

- Intel® Core™ Ultra 7 Processor 258V

- OpenVINO™ Toolkit

Ordering Guidance:
- Contact Us

Country/Geo: North America; Europe, Middle East, and Africa

Horizontal Markets: Commercial / Enterprise

Use Cases: Commercial / Enterprise; Consumer; Productivity and Accessibility

AI Workload: ML

Learn more:
- Erasys Website