

BIOMETRIC SOLUTIONS

OVERVIEW

Securing critical assets can be difficult no matter what business you're in—public or private. Whether it's law enforcement, border control, financial services, healthcare, or pharmaceuticals, you have a duty to protect your domain. Karsof™ biometric technology is a sophisticated identification system that employs different biometric authentication methods such as face and fingerprint, providing the highest level of security without the need for an ID or PIN. Our fingerprint identification detects specific details, including ridges, orientation and other properties of the fingerprint. And, our identification is based on 100% match and is not threshold-based, entirely eliminating false-positives and ensuring the lowest number of false-negatives. Our biometric technology is an optimal solution for securing sensitive areas. Its ability to integrate with various communication and identification standards makes installation quick and easy. And, with its fast-paced registration process and ready acceptance of biometrics raw data from various sources, Karsof biometric technology meets customer demands for high security while retaining flexibility.

BIOMETRIC NETWORK

Karsof Systems' biometric technologies leverage your existing network and connect to external systems over any public network with the most secure encryption available today. Our fast data transmission uses 4096-bit dynamic, multi-layer encryption to create a secure transport layer, effectively turning the public network into a private, secured network. Before data is transmitted, it is separated into packets, which are further broken down into individually encrypted streams. These high security features are hacker-proof and do not affect transmission performance. This unique use of the public network means not having to invest in expensive, dedicated lines.

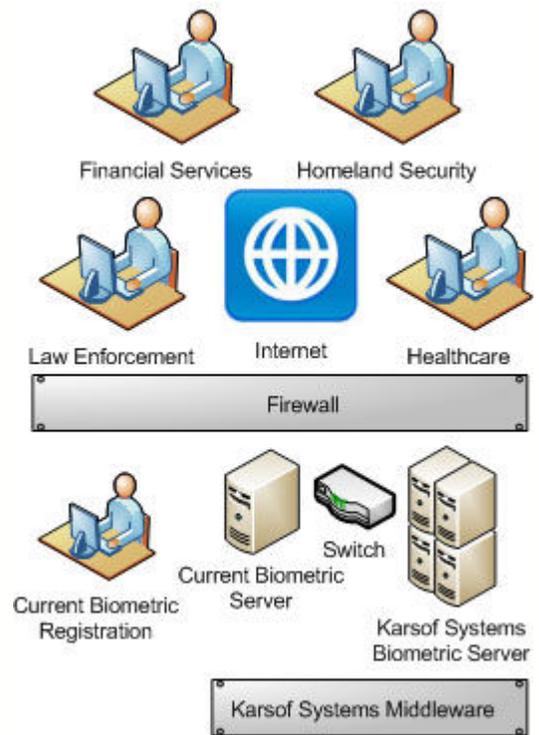
FEATURES

- Lowest fingerprint data storage of 16 bytes. Fingerprints stored in WSQ format with compression.
- Results returned in less than one second regardless of database size (tested on 2.4 billion records). Mobile device results returned in less than three seconds.
- Supports image resolution up to 2000 ppi. Devices vary from 300 ppi to 2000 ppi.
- All biometric features (face, fingerprint, iris, and retina) integrated into one database and only one search required.
- Instant verification rejects duplicate registrations.
- Tamper-free authentication without requiring PIN or smart cards before presenting finger, etc.
- Data recognition from all types and condition of biometric source, with zero false acceptance rate and lowest false rejection rate.
- Secure, web-enabled access and analytics through any smartphone, tablet, laptop, or desktop.
- Compliant with data interchange standards such as IAFIS, EFTS, EFIPS, EFPS, and ANSI/NIST-ITL, ANSI/NIST-CSL.
- Easily integrates with existing biometric systems. Low cost user verification systems are quick to deploy.

HOW IT WORKS

Using your current biometric registration device or one of Karsof Systems' biometric registration devices, the bio-feature (fingerprint, iris, etc.) is scanned into the system. If this is the first registration, the Karsof Systems Biometric Server records the image in a resolution up to 2000 pixels per inch (ppi), depending on the input device, and stored in a small 16-byte file. The image is compliant with all major biometric data interchange standards.

When used for identification purposes, the biometric scan will be passed to the Karsof Systems Biometric Server for possible matches. Regardless of database size, results are returned in approximately half a second. If necessary, the data will be securely sent across the public network to external agencies, such as Interpol, FBI, and immigration agencies, for potential matching. In forensic cases, the Karsof Forensic System will immediately notify officers at the crime scene. When used in border control, Karsof Systems' Border Control Management System will analyze the results using the customized rules engine to provide enhanced information that aids in the decision-making process.



KARSOF SYSTEMS LLC



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KARSOF SYSTEMS YES... WE... CAN...

BIOMETRIC SOLUTIONS

HOMELAND SECURITY

As more and more people travel the globe, validating identity quickly and accurately is key. Manual and visual checks are fraught with potential errors and fraud, allowing criminals and illegal immigrants, even terrorists, to cross borders. Karsof Systems' Biometric Security solutions, which include security documents, leverage our biometric technology, providing absolute, error-free identification of individuals. By integrating biometric data with government information, such as watch lists, permit lists, inquiries, and reports, and processing them through our rules engine, field agents can make swift and accurate decisions. Our rules engine also manages policies that can be configured by the user. These policies include which documents should be checked at inspection, watch list instructions, number of entries to be displayed in the matching threshold, and biometric identification criteria threshold. Karsof Systems' Biometric Security solutions help federal and state agencies balance the economic value of legitimate travel and trade against the risk of illegal or even high-risk travelers.



CRIMINAL FORENSICS

Identifying criminal records from fingerprints can take anywhere from a few days to a few months. Those first few days can make the difference when solving a crime. And, if the fingerprints are not identified, the criminal may never be caught. The Karsof™ Mobile Enforcement Identification Unit can be used on crime scenes, in police cars, and at checkpoints and roadblocks. Fingerprints can be taken and cross referenced to the Karsof™ Central Database at the Police Department or other relevant agencies. If necessary, the search can be extended to the Interpol database. In addition, the Karsof™ Fingerprint Scanner can be used at police stations so that every person admitted can be scanned. If there is a positive match, a facial image and additional information will be displayed. The scanner can also be used at railway stations, hotels, and other places that require closer monitoring.



ENTERPRISE USE

For organizations, both public and private, security measures are critical in protecting assets. Whether those assets are physical, such as medical narcotics, or digital, like online payment gateways, patient records, or surveillance system videos, Karsof Systems' biometric security solutions can provide the strongest, most reliable protection against unauthorized access. Karsof System's biometric solutions for the enterprise offer two significant benefits when managing security—efficiency and strength. Our biometric solutions can help organizations meet the demand for single sign-on by managing both physical and digital access without the need for different passwords and smart cards. This can greatly reduce administration costs and ease user frustration over forgotten and expiring passwords. More importantly, our biometric solutions provide absolute security where you need it most, reducing the potential fraud that can occur with shared or stolen passwords. Let Karsof Systems leverage what you already have—biometrics—to create the most reliable and secure protection available.



Biometric Security | Criminal Forensics | Security Documents | IT Intrusion Prevention | Business Continuity

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