

DERMALOG

DERMALOG ABIS

Maximum performance
with multibiometrics.



Enhancing Recognition Accuracy and Speed for Human Authentication Systems.

The DERMALOG ABIS is one of our company's core products and the result of more than two decades of experience developing Automated Biometric Identification Systems. Today it is an established product in many parts of the world and has been implemented in numerous large-scale projects.

The DERMALOG ABIS is a software running on different operating systems. With DERMALOG, customers will no longer be dependent on proprietary hardware.

Multibiometric systems rely on evidence presented by multiple sources of biometric information. The accuracy of recognition is enhanced by reconciling the biometric data gathered from these sources.

The DERMALOG research team continually improves the accuracy and search speed of the face, fingerprint, palmprint and iris recognition algorithms. DERMALOG's ABIS meets the highest requirements regarding reliability and security. On top of that, operation is simple and intuitive.

Due to ongoing technical improvements, DERMALOG has developed identification systems far ahead of its time. The DERMALOG AFIS (Automated Fingerprint Identification System) has set the world record with more than 900 million fingerprint matches within one second on a standard server without loss of accuracy. Furthermore, it has long since helped to revolutionize forensic fingerprint analysis.

Maximize your Results with Advanced Multibiometric Technology.

Fingerprint Matching.



DERMALOG fingerprint technology is designed to achieve fast and reliable results. DERMALOG developers put the highest priority on its continuous improvement. This has led to an state-of-the-art algorithm to identify fingerprints in large-scale databases without compromising accuracy rates.

Face Recognition.



In addition to iris and fingerprint recognition, DERMALOG is able to use facial feature biometrics. The technology is nonintrusive and widely accepted. Especially in combination with identification cards it ensures that the person submitting information matches the provided identification document. In criminal investigations DERMALOG face recognition is respected for user-friendliness and high verification rates. It runs on different operating systems.

Iris Recognition.



DERMALOG iris recognition is an ideal choice for a non-invasive and simple-to-apply biometric solution. Iris recognition is based on factors like the stability and uniqueness of the iris pattern. Furthermore, it is accurate, versatile and ready to be used in large-scale installations.

Palm Recognition.



DERMALOG palmprint recognition implements matching characteristics that belong to the best on the market. Palm recognition is characterized by information presented by impressions left by the friction ridges. Their uniqueness and permanence are a trusted form of identification. Capturing and processing them has been automated in the DERMALOG ABIS and offers significant advantages.



Securing a Unique Identity: DERMALOG High Speed ABIS.

DERMALOG's high speed ABIS provides a crucial contribution to preventing identity fraud, barring persons from making multiple registrations at the same institution. This is achieved with the help of biometric identifiers such as finger- and palmprints, iris or face. The Automated Biometric Identification System is continuously improved to guarantee a reliable product.

The DERMALOG high speed ABIS reliably traces identities and duplicates regarding biometric documents such as national IDs or ePassports, for example in border control, voter and refugee registration.

The ABIS manages identification challenges that require solutions including multi-modal biometric algorithms. ABIS represents an opportunity to manage operational risks and to reduce costs.

Civil Services



- > Anti-drug agencies
- > Tax agencies
- > Social welfare
- > Pension funds
- > Elections
- > Anti-corruption agencies
- > National registration
- > Numerous government departments
- > Bank customers

Biometric Documents



- > National ID cards
- > ePassports
- > Drivers' licenses
- > Seafarers' cards
- > Civil servants' cards
- > Weapons licenses
- > Health insurance cards
- > Armed forces ID cards

Border Management



- > Border control
- > DERMALOG Biometric Gate
- > Visa management
- > ID cards

Effective Crime Solving: The DERMALOG Criminal ABIS.

The DERMALOG Criminal ABIS provides comprehensive support for crime investigation. The use of biometrics to prevent identity theft and to uncover fraud enhances security and improves safety. The ABIS is successfully applied by police departments, federal police offices and intelligence services around the world as well as by military and judicial authorities.

The use of fingerprint identification (dactyloscopy) and the corresponding biometric application (ABIS) is authorized by legal systems in many countries. The Criminal ABIS can be applied to convict criminals based on identified finger- or palmprints found at a crime scene.

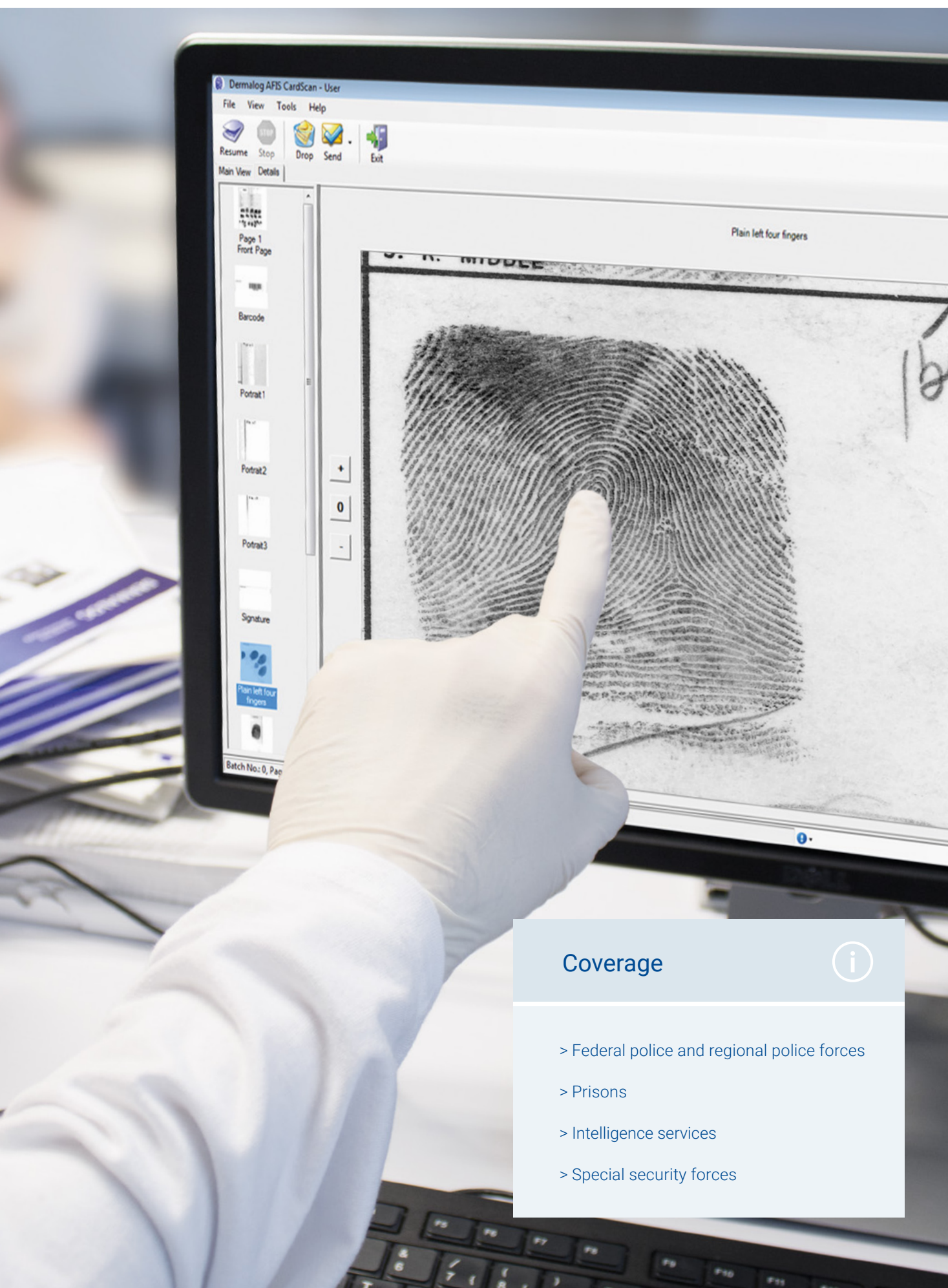
DERMALOG actively participates in numerous advisory committees counseling police organizations worldwide. The results constantly contribute to the ongoing advancement of the DERMALOG ABIS.

As a consequence, DERMALOG ABIS is the perfect choice for a wide range of applications. It is based on more than two decades of experience in providing solutions to law enforcement.

Product Features



- > State-of-the-art card scan applications for the conversion of fingerprint slaps/cards as well as palmprints from paper
- > Live scan application for the capturing of finger- and palmprints, photos and signatures
- > Automatic image processing for the quality control of the captured prints
- > Forensic workstation for editing and visually enhancing of latent finger- and palmprints
- > Verification application for managing biometric and demographic data with easy to handle candidate lists
- > Crime history/case management reporting and statistics
- > Print applications (e.g. certificate of good conduct)



Coverage



- > Federal police and regional police forces
- > Prisons
- > Intelligence services
- > Special security forces

Our International DERMALOG ABIS/AFIS Projects.

Federative Republic of Brazil
High Speed and Criminal ABIS

Saudi Arabia
High Speed and Criminal AFIS

Kingdom of Brunei
High Speed AFIS

United States of Mexico
High Speed ABIS

Malaysia
High Speed AFIS

Republic of Maldives
High Speed ABIS

Republic of Indonesia
High Speed and Criminal AFIS

Republic of Slovakia
High Speed and Criminal AFIS

People's Republic of Bangladesh
High Speed and Criminal AFIS

Republic of Cape Verde
Criminal AFIS

Federal Republic of Nigeria
High Speed ABIS

Republic of Angola
Criminal AFIS

Republic of Sudan
High Speed and Criminal AFIS

Kingdom of Cambodia
High Speed AFIS

Republic of Iraq
High Speed ABIS

Republic of Ghana
High Speed AFIS

United Republic of Tanzania
High Speed AFIS

Netherlands
High Speed AFIS

Bolivarian Republic of Venezuela
High Speed AFIS

Republic of El Salvador
High Speed AFIS

Republic of the Union of Myanmar
High Speed ABIS

 High Speed ABIS

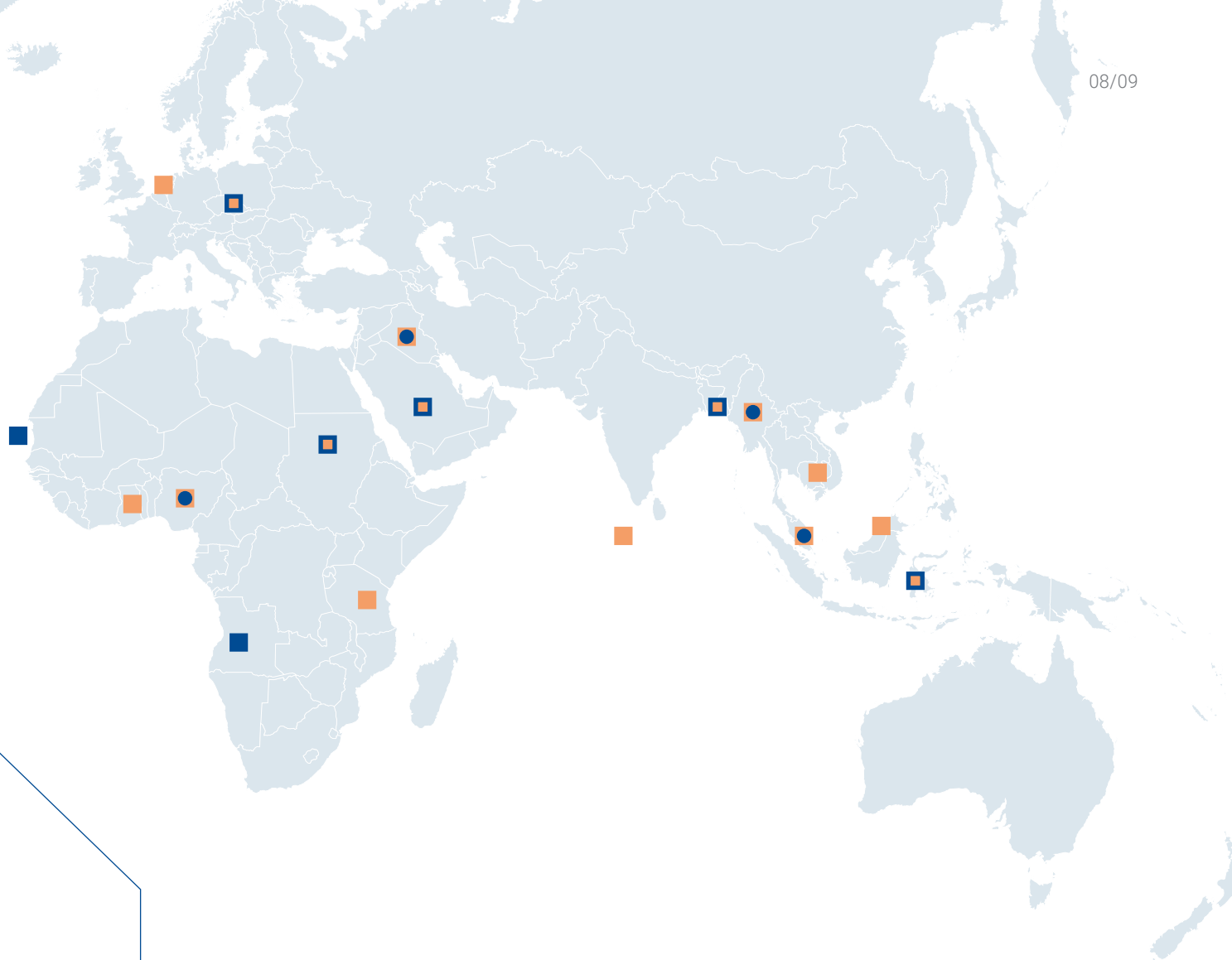
 High Speed AFIS

 Criminal AFIS

 High Speed and Criminal AFIS

 High Speed and Criminal ABIS





ABIS as eGovernment Solution in Brazil.

In Brazil, DERMALOG has installed the largest civil and criminal ABIS in Latin America. The successful system prevents false or double identities, e.g. regarding access to pension funds, social welfare and further social benefits. Biometric characteristics on national ID cards securely identify the holder.

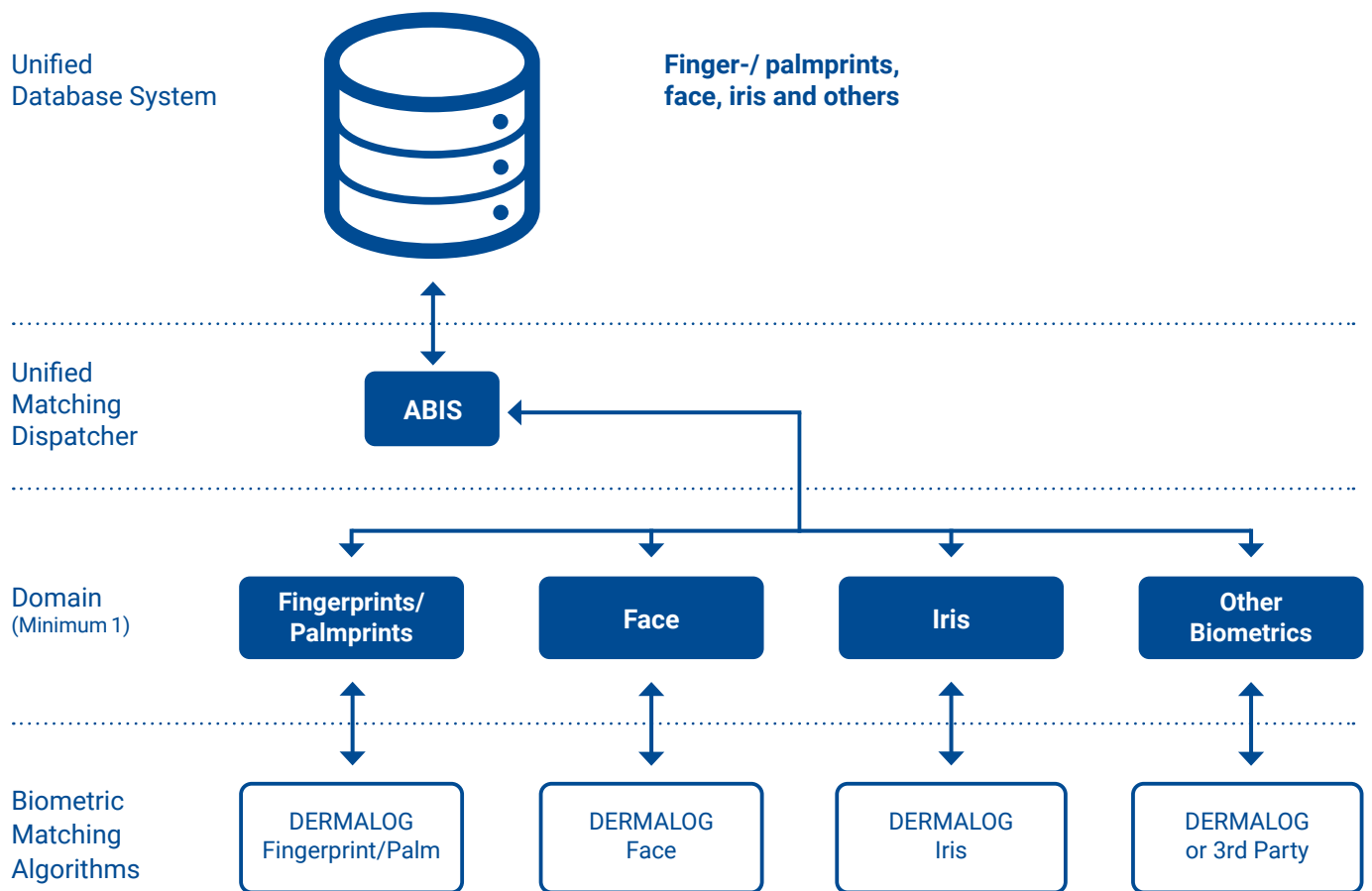


- > Database size – 9.8 million rolled tenprints
- > Tenprint searches – less than 2 seconds
- > Latent searches – 14 minutes average
- > 30% hit rate on latents
- > Solves 30 % of all crime cases with latent prints
- > Prevents more than 15,000 cases of identity fraud
- > Live scanners in police cars (planned)

ABIS – High Level Architecture.

High speed, reliable search performance.

DERMALOG's ABIS comes as a fully customizable software package. Its main features include searching, storing and processing biometric templates. Finger- and palmprints of an individual can be matched in combination with facial and iris images as well as numerous other biometric features.



Outstanding Features



ABIS (operating with fingerprint, face, iris and palm recognition) is successfully in use for civilian identification and law enforcement. Results are obtained with accuracy at high speed.



Uncompromised fast matching and searching results with low false acceptance rates (FAR) and false rejection rates (FRR).



No proprietary hardware is required as standard commercial off-the-shelf (COTS) hardware is used. It runs on all hardware platforms and common operating systems.



All variations of tenprint (TP), palmprint (PP) and latent prints (LP): TP-TP, TP-UL or PP-ULP, LT-TP, LT-UL, LP-ULP, or LP-PP. Any combination (e.g. two fingers, four fingers) is supported.



Customizable workflow and GUI.
Coding and matching of shape, global and local similarity checks, heuristics.



High usability, easy to integrate, unique security, available in multiple languages.



Optional integration of DNA databases.

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