



MorphoTrust USA



ABIS® Search Engine



Multi-Modal Biometric Platform

MorphoTrust is the U.S. leader in identity solutions and services, bringing years of expertise in flexible, scalable biometric platforms and systems that meet the growing demands of our customers. MorphoTrust actively invests in biometric technology as the core foundation for many customer solutions. Our research team continually leads in the industry in improving the accuracy and search speed of the face, fingerprint, and iris recognition algorithms.

The use of biometrics to prevent identity theft, catch fraud and identify unknown individuals has enhanced national security, improved public safety, and streamlined government services. The accuracy, performance, reliability and ease of use of today's technologies continue to improve. Advanced mobile devices enable near-instant ID of individuals in any location, while sophisticated workstations provide a suite of tools to aid investigators.

The MorphoTrust research team continually leads in the industry in improving the accuracy and search speed of the face, fingerprint, and iris recognition algorithms. Our iris recognition technology has proven to be the most accurate and among the fastest, based on evaluations in NIST's most recent Iris Exchange (IREX) report.

The ABIS Search Engine, which is part of the MorphoTrust ABIS platform, provides biometric processing services leveraging MorphoTrust's top-rated algorithms for face, iris, and fingerprint recognition. The platform provides configurable solutions to process, store, create, search, and compare biometric identity records using face, iris and fingerprint, including tenprint, palm and latent, biometric modes, individually and in combination to easily add new modalities in the future. The processing capabilities include biometric matching as well as image processing and image quality analysis based on industry standards.

Image processing includes:

- Biometric quality analysis
- Feature extraction into templates
- Segmentation of two and four fingerprint slap images
- Segmentation of whole palm images

FEATURES AND BENEFITS

- ABIS 8.0 with pluggable architecture that is scalable, flexible and enables 3rd party solutions
- Optimized to support IT best practices for security, distributed systems integration, efficient operation and communications
- Modular and open architecture provides world-class biometrics services
- Built-in monitoring services
- Tamper-safe distributed disk storage
- Speed-optimized for biometric operations
- Exemplary data safety and replication
- Full back-up capabilities, restoration to point of failure
- Easy integration

Simplify, Protect and
Secure the lives of
the American people



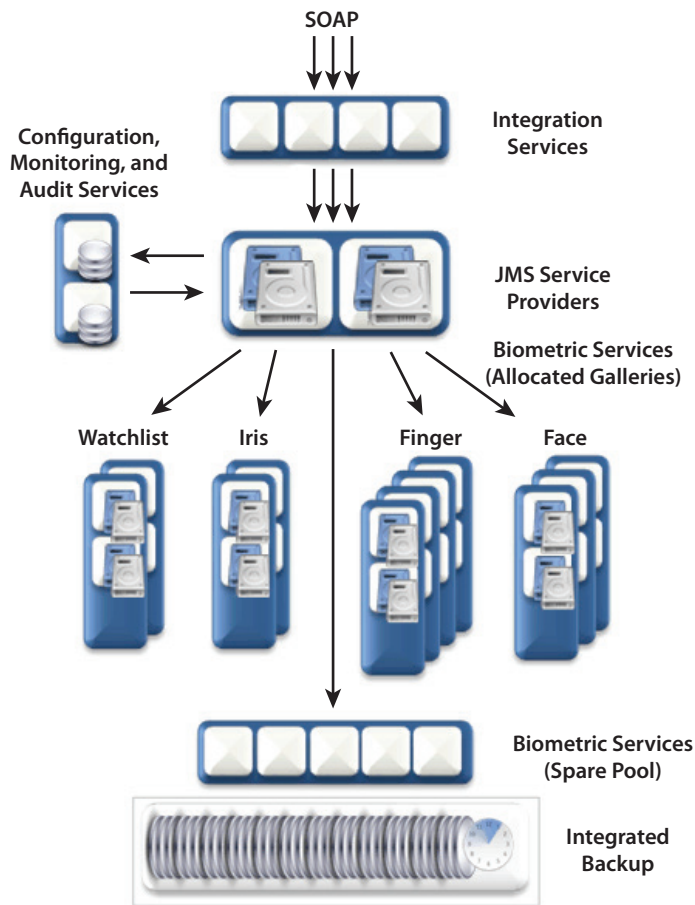
MorphoTrust Solutions

All MorphoTrust solutions are built using the latest technologies and devices, with scalable, flexible platforms that meet your needs today and allow you to add features, capabilities and applications as you desire in the future. We maximize your investment by delivering proven, market-leading solutions and components that are fully customized for your unique environment.

We offer:

- **MorphoTrust™ Complete MVA**
Our full suite for state motor vehicle agencies, includes:
MorphoTrust™ Issuance 360
MorphoTrust™ Driver 360
MorphoTrust™ Vehicle 360
- **MorphoTrust™ Complete Identity for Federal Public Safety**
- **MorphoTrust™ Complete Identity for Federal Agencies**
- **MorphoTrust™ Complete Identity for Federal Military**
- **MorphoTrust™ Complete Identity for Law Enforcement**
- **MorphoTrust™ Services**

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ABIS search engine architecture

The ABIS Search Engine architecture offers flexibility for deployment and growth and extensibility to add existing or new biometric modalities.

MorphoTrust has provided some of the world's largest and most successful biometric identification systems including:

- Department of State databases of visa applicants and passport holders
- Multi-modal India national ID system containing 330 million records as of March 14, 2013
- 240 million record Indonesia multi-modal national ID system
- Multi-modal DOD ABIS system
- Facial recognition solutions to deter identity fraud in the driver license issuance process, used by 34 U.S. states
- Numerous mobile deduplication and forensic face recognition systems installed at different government and commercial agencies including the National Counter Terrorism Center (NCTC)
- Advanced criminal forensic search and subject tracking systems using face and iris recognition at the state and local levels including the turnkey forensic lab operated by a large metropolitan police agency in the North East that averages more than one investigative lead daily
- Lockheed Martin selected ABIS for the FBI Next Generation Identification program. Once implemented, ABIS will provide the FBI's NGI program with superior biometric matching for face and iris modalities.