



Printrak Bio-Ident SDK

Innovative Biometric Core Enabling the Development of Advanced Security Technologies

Only Printrak Bio-Ident SDK provides you with the ability to:

- Build an application with the top SDK for fingerprint interoperability*
- Match with one of the most accurate fingerprint 1:1 algorithms in the industry
- Easily integrate applications into various enrollment and verification solutions
- Incorporate fingerprint images or templates for secure documents such as ePassports

The Printrak Bio-Ident SDK provides the foundation for innovative products built upon proven technology to produce advanced biometric systems that define the market. This tool kit is designed to integrate fingerprint images and templates into ePassports and other similar applications. The Printrak SDK is a collection of libraries that implement a feature set accessible through a well-defined application programming interface (API). Additionally, the SDK includes documentation and example programs.

System Integrators can have the confidence that their end product will be built upon Printrak's history of fingerprint innovations for over 30 years. Additionally, Printrak's experience has enabled an SDK that is accurate and easy to integrate. The following features are included:

- Return of quality results
- Segmentation of flats (2-finger and 4-finger slaps)
- Roll-to-slap comparison
- ISO SC 37 and ANSI INCITS 378 (M1) fingerprint minutiae template generation
- ISO SC 37 and ANSI INCITS 381 fingerprint image compliance
- Printrak minutiae template generation
- Adjustable False Acceptance Rate (FAR) and False Rejection Rate (FRR)
- 1:1 matching based upon fingerprint image or minutiae template
- Compression/Decompression: WSQ for 500ppi images and JPEG2000 for 100ppi images

*Testing based on 2006 US National Institute of Standards and Technology (NIST) for ANSI/INCITS Interoperability

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The Printrak Bio-Ident SDK is ideal for integration of fingerprints into ePassports.



The Printrak SDK provides a plug-in architecture that allows for a single entry point to the core libraries. All underlying core algorithms “plug” into the exposed dispatch layer, which allows greater extensibility, flexibility and customization of the biometrics environment. The SDK has both a C++ and a Java interface, and supports both Windows and Linux platforms.

A license manager is included to ensure all usage is authorized. It is available in different formats, depending upon customer requirements:

- Option 1: A license assigned to a particular user
- Option 2: A license assigned to a specific machine

Product Highlights:

- C++ and Java interfaces
- Windows and Linux platforms
- Segmentation of flat (and rolled) prints
- Built upon industry-leading minutiae encoding algorithms
- World-class customer service including a responsive 24/7 service center

Software Features:

- Return of quality results
- Segmentation of flats (2-finger and 4-finger slaps)
- 1:1 single finger matching with adjustable False Acceptance Rate (FAR) and False Rejection Rate (FRR)
- 1:1 matching based on fingerprint image or minutiae template
- Compression/Decompression: WSQ for 500ppi images and JPEG2000 for 1000ppi images



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