



# Motorola Bio-Ident SDK

## Innovative Biometric Core Enabling Development of Advanced Security Technologies

Only Motorola 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 integrated applications into various enrollment and verification solutions
- Incorporate fingerprint images or templates for secure documents such as ePassports

The Motorola Bio-Ident SDK provides the foundation for innovative products built on proven technology to produce advance biometric systems that define the market. This tool kit is designed to integrate fingerprint images and templates in ePassport and other similar applications. The Motorola 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 Motorola' 32 year history of fingerprint innovations. Additionally, Motorola'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
- Motorola minutiae template generation
- Adjustable False Accept Rate (FAR) and False Reject Rate (FRR)
- 1:1 matching based on fingerprint image or minutiae template
- Compression/Decompression: WSQ for 500ppi images and JPEG2000 for 1000ppi images

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

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



The Motorola 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 on customer requirements:

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

### Product Highlights:

- C++ and a Java interfaces
- Windows and Linux platforms
- Segmentation of Flat (and rolled) prints
- Built on 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)
- Roll to slap comparison
- ANSI INCITS 378 (M1) fingerprint minutiae template generation
- ANSI INCITS 381 fingerprint image
- Motorola minutiae template generation
- 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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