

MorphoKit™

BY IDEMIA

Multi-biometric SDK from the World leader in biometric technologies



Operating Systems:

- Windows 7, 8/8.1, 10 (32 and 64 bits), Server,
- Linux,
- Android 4, 5 and 6 releases⁽¹⁾

Interfaces:

- Native C/C++,
- .NET wrapper,
- Java wrapper

Development Environments:

- Visual Studio,
- MSDN,
- Eclipse

Coding Languages:

- .NET (C#, C++.NET, J#),
- COM (C, C++)

Banking services, welfare provision, network security, access control, time and attendance management or medical record maintenance are all examples where personal identification is critical. With MorphoKit™ by IDEMIA, all these transactions - and more - can easily benefit from a layer of outstanding biometric technology.

Originally designed for fingerprint-based systems, MorphoKit™ by IDEMIA has been enriched with our world-renowned algorithms for 2D facial and iris recognition. **Fingerprint, Face and Iris:** MorphoKit™ by IDEMIA now gives access to three biometric modalities acknowledged worldwide for their high levels of accuracy and performance.

User enrollment and matching procedures are so simple to implement that system developers can learn in minutes how to enhance client security and identification systems with the power of biometrics.

⁽¹⁾ Fingerprint and face biometrics only



Fingerprint

KEY FEATURES

- **Fingerprint Image Quality Optimization** during acquisition and pre-processing: automatic finger positioning control, live quality check, quality threshold tuning, consolidated enrollment over multiple images
- **Image Compression/Decompression:** WSQ algorithm from FBI/NIST
- **MINEX and FIPS 201** certified Feature Extractor and Matcher
- **Feature Extraction:** generation of ISO 19794-2, ANSI/INCITS 378 standard templates and proprietary ones
- **Management of User Records** including de-duplication check
- **One-to-One Authentication**
- **One-to-Many Identification** up to 1:50,000 users
- **CBEFF** exchange format generation
- **Fake Finger Detection** interface

COMPATIBLE DEVICES:

MSO 300, MSO 1300 and FINGER VP Desktop Series, MorphoWave™ Desktop and Compact by IDEMIA, MorphoTablet™ 2 by IDEMIA and RapID 2



Face

KEY FEATURES

- **Image coding**
- **One-to-One Authentication**
- **One-to-Many Identification** up to 1:50,000 users

TYPICAL USE CASES:

- 1:N identification of a live portrait capture against portraits stored in a database
- Comparison between a live portrait capture and a photo extracted from an ID document by a document reader (including IDEMIA's B5000 and DESKO's Penta scanners)



Iris

KEY FEATURES

- **Iris image coding**
- **One-to-One Authentication**
- **One-to-Many Identification** up to 1:50,000 users

TYPICAL USE CASES:

- 1:N identification between irises captured by Morpho IAD™ by IDEMIA (Iris At a Distance) or equivalent device providing iris images, against a watch list of iris images
- Comparison between irises captured by Morpho IAD™ by IDEMIA or equivalent device providing iris images, and iris images stored in an ID document



Licensing model

The following licenses are required to activate the features of MorphoKit™ by IDEMIA:

	Fingerprint	Face	Iris
Enrollment, coding, 1:1 Authentication	VERIF	VERIF_FACE	VERIF_IRIS
Identification up to 1:5,000 users ⁽¹⁾	IDENTLITE	IDENTLITE_FACE	IDENTLITE_IRIS
Identification up to 1:10,000 users ⁽¹⁾	IDENT10K	IDENT10K_FACE	IDENT10K_IRIS
Identification up to 1:20,000 users ⁽¹⁾	IDENTPLUS	IDENTPLUS_FACE	IDENTPLUS_IRIS
Identification up to 1:50,000 users ⁽¹⁾	IDENT50K	IDENT50K_FACE	IDENT50K_IRIS

⁽¹⁾ Up to 10 fingers, 1 portrait or 2 irises per user