

## Morpho® Integrator's Kit

Integrate a biometric solution in your access control system

Biometric components for software editors and Value Added Resellers:

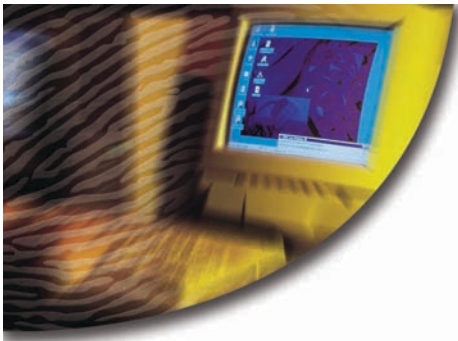
- Software component for fingerprint enrollment
- Advanced matching component for 1:1 authentication and 1:N identification
- Portrait capture
- Card encoding
- MorphoAccess™ command interface



Biometrics in Action



**Sagem Morpho Inc.**  
SAFRAN Group



# Morpho® Integrator's Kit

The MORPHO Integrator's Kit provides software editors and Value Added Resellers with a state-of-the-art fingerprint recognition technology. Our 20 year experience in biometric identification as well as our high performance image processing and feature matching algorithms have enabled us to develop quick and easy solutions to manage enrollment, authentication (1:1) and identification (1:N). The MORPHO Integrator's Kit is more than a usual software development kit: it offers a full range of solutions to meet your specific requirements and facilitates the technology integration thanks to ActiveX components. Together with these essential features, this integrator's kit also includes some additional components for portrait capture, card encoding and biometric terminal management. This kit can be used in different types of application such as physical access control, people registration and management, etc.



MorphoSmart™ Optic



MorphoAccess™



MorphoAccess™ 100

## Active Morphokit™ Enroll:

This self-contained component does integrate all the technology required to perform a reliable and efficient people enrollment. The man-machine interface includes fingerprint image display, some live controls related to image quality and finger positioning. Moreover, it helps the operator to capture biometric samples, which maximizes the image quality according

to the application requirements. The Active Morphokit™ Enroll is also a programmable component which can be called from any type of application thanks to the ActiveX technology. It encodes the fingerprint images and feeds back the corresponding biometric templates in a form suited to the matcher and to the MorphoAccess™ or Morphotouch™ terminals. The Active MorphoKit™ Enroll supports the MorphoSmart™ MSO 300 USB fingerprint reader.

## Active MorphoAccess™ Command Interface:

The Active MorphoAccess™ Command Interface component has been designed to facilitate the terminal management, especially the biometric database which can be downloaded. It relies on the MorphoAccess™ Host Interface protocol and offers three types of functionality: remote terminal configuration, biometric database download and log retrieval. This component manages the MorphoAccess™ which is dedicated to physical access control. This terminal is capable of identifying people and managing large biometric databases containing up to 48K records of two biometric templates each.



## Active MorphoPak™:

is a software component that performs portrait capture. It manages Web cams and a specific digital camera. The main functions are the eye detection for the automatic centering, portrait image enhancement, background and shadows

removal, and contrast improvement. The Active MorphoPak™ also processes all the tuning aspects, including the camera auto focus.

## Active Morphokit™ Matcher:

The matching sub-system is an important component in a biometric application. The Active Morphokit™ Matcher operates on Windows, operating systems. It manages both the biometric database (up to 20K records, ten fingers each) and the identification requests launched against this database. It can be configured to perform matching transactions in accordance with the security requirements of the application (the False Matching Rate is set at the application level).



## Active Contactless Card Encoding:

Some applications require encoding the biometric data on a card. The Active Contactless Card includes all the operations required to encode a MIFARE contactless card with the data necessary to perform a subsequent verification (Biometric templates, ID, etc ...). It manages the cards featuring a 1 or 4 Kbyte storage capacity. These cards can be read directly from the MorphoAccess™ terminals which integrate an embedded contactless card reader.



Technical requirements	Terminal compatibility	Available packages
<ul style="list-style-type: none"> <li>Windows NT, 2000 SP2, XP</li> <li>Pentium II, 500MHz or higher</li> <li>USB</li> </ul>	<ul style="list-style-type: none"> <li>MorphoSmart™ MSO 200/300</li> <li>MorphoAccess™ 100/500</li> </ul> <p>For further information please refer to the brochures.</p>	<ul style="list-style-type: none"> <li>Active MorphoKit™ Enroll</li> <li>Active MorphoKit™ Matcher (1:1, 1:3,000 or 1:20,000)</li> <li>Active MorphoAccess™ command interface</li> <li>Active MorphoPak™</li> <li>Active Contactless Card Encoding</li> </ul>

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