



## Bio-Plugin™ BIOMETRIC IDENTIFICATION SYSTEM

### Fully Secured Fingerprint Recognition, PERIOD.

A natural reaction to the use of biometric technology is the perceived risk of personal privacy invasion – what exactly is being done with my biometric information? Who can access it? How is it being used? How can it be used by an outside party?

As one of the largest fingerprint recognition system providers to the commercial marketplace, M2SYS recognizes the sensitive nature of its technology. Consequently, we employ several important security features to ensure the privacy of those using the system is fully protected:

- Fingerprint images are not stored
- Fingerprint data is stored in a proprietary format unique to the algorithm used in the M2SYS system
- All fingerprint data is stored using the AES 128 bit encryption algorithm

Advanced Encryption Standard (AES), also known as Rijndael, is a block cipher adopted as an encryption standard by the U.S. government. It is expected to be used worldwide and has been analyzed extensively, as was the case with its predecessor, the Data Encryption Standard (DES). AES was adopted by the National Institute of Standards and Technology (NIST) as U.S. FIPS PUB 197 in November 2001 after a 5-year standardization process.

When a person is enrolled in the M2SYS fingerprint recognition system, the software extracts the person's unique identification data (minutiae) and stores this information in the form of a proprietary identity template. An actual copy of the fingerprint image itself is not stored. The system then uses the identity template to recognize that person on an ongoing basis. The identity template is simply a binary data file, a series of zeros and ones. It is virtually impossible to reconstruct the actual fingerprint image from this data. Without a copy of the image itself, it would be impractical and very difficult to perform analysis or comparison of the biometric data.

SECURE BIOMETRICS



Fast, secure, high-performance fingerprint recognition technology without the risk of personal privacy invasion



**M2SYS™**  
ACCELERATED BIOMETRICS

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