

## Overview

The biometrics industry relies heavily on published standards to determine image quality and systems interoperability. As a leader in the biometrics industry, Integrated Biometrics (IB) follows these standards closely ensuring that imagery captured by Light Emitting Sensor (LES) technology scanners is of the finest quality available. Many applications include the necessity to meet three primary standards. The information below describes each and how they relate to the images captured by Integrated Biometrics' LES technology scanners. Please contact your Integrated Biometrics team for specific questions about your application.

## FBI IAFIS IQS CJIS-RS-0010 (V7) Appendix F compliance

### Impacts

Physical scanning devices; image capture technologies

### Description

The ability to meet the Federal Bureau of Investigation (FBI) image quality specification for collecting fingerprint images. The standard applies to both "flat" and "rolled" scans. The physical scanning device must meet this critical capture standard for use in database enrollment or matching applications. Most law enforcement agencies worldwide including the FBI, DOD, Interpol, DHS and municipalities use standards-based database applications populated with templates created from Appendix F certified scanners. Integrated Biometrics provides a full complement of Appendix F certified scanners including the Columbo, Sherlock, Watson Mini, and Kojak.

## ISO/IEC FCD 19794-4

### Impacts

Biometric Data Interchange Formats; algorithm based template creation software

### Description

The raw or wsq compressed images taken from certified scanners may be processed by third party algorithms to create templates used for database matching. The specification requires the use of Appendix F certified imagery for use in the matching algorithm. IB provides the highest quality Appendix F certified imagery in the industry as the source input for these matching algorithms. The responsibility to meet these standards falls to the solution provider using a matching algorithm that meets the needs of each application.

## **ANSI/NIST-ITL 1-2007; ANSI/NIST-ITL 1-2000; ANSI/NIST-ITL 1-2000**

### **Interpol Implementation**

#### **Impacts**

Template Data Format Structure

#### **Description**

Three ITL specifications are updates or slight data format variations of the same specification. The most recent update issued in 2015 contains new reference to IB's FAP50 fingerprint acquisition profile specification. They define the data format structure requirements to create and exchange "biometric records" (templates) containing all fingerprint, face and other biometric and demographic information in a standard biometric record. The specification calls for the use of Appendix F certified source imagery. IB provides a full complement of scanning solutions that may be used to provide the highest quality imagery available in the market. Integrators and software solution providers must ensure that the final solution meets the data formats specified in post processing.