



ANSI & ISO SDK



FROST & SULLIVAN
Global Technology Innovation Award
Winner of the Year, January 2009

ERNST & YOUNG
Entrepreneur of the Year, February
2009

FVC 2004, FVC 2006

MINEX - NIST

U.S. and International Standards-organization compliant fingerprint recognition for your software for true cross-vendor interoperability!

1:1 VERIFICATION WITH ANSI/INCITS 378, ISO 19794-2 OR ILO SID FINGERPRINT TEMPLATES



The ANSI & ISO fingerprint recognition SDK is the ideal solution for developers that need a MINEX-compliant fingerprint component in their application. Utilizing an easy-to-implement, component-based approach (no USB dongles required) developers can quickly integrate a vendor-neutral fingerprint recognition that works with any fingerprint scanner hardware. Innovatrics ANSI & ISO SDK is an "out-of-the-box" solution with the proven performance of Innovatrics unique, high-performance extraction and matching IEngine™ algorithms.



ILO SID compliant

How Might You Use ANSI & ISO Fingerprint SDK?



PC Enrollment and Verification Stations

At enrollment, ANSI & ISO SDK captures user's fingerprint and stores it on card. At card issuance, user's fingerprint is scanned again and compared to the template stored on the card. At verification (i.e., a building entrance), user's live fingerprint is compared with the card template.



Mobile Verification Stations (i.e. disaster relief)

ANSI & ISO Mobile SDK's Matcher on handheld compares template stored on the card with user's just-scanned image to confirm/deny his identity.



Access Control Terminals

Used with mounted type devices. The most popular are the hardware terminals mounted on the wall or ATM-like embedded terminals. In these cases, the terminals employ ANSI & ISO Embedded SDK which compares template stored on the card with user's just-scanned image to confirm/deny his identity.

ENSURING INTEROPERABILITY

When developing solutions for governments or agencies, a fingerprint recognition solution that is interoperable with other systems is critical. Innovatrics ANSI & ISO SDK provides just that. Whether PC, mobile, or embedded, the ANSI & ISO SDK template-based system ensures that fingerprints captured from, or analyzed by, your software will utilize the ANSI/INCITS 378, ISO 19794-2 or ILO SID standard fingerprint templates ensuring a seamless integration with other biometric security systems. ANSI & ISO SDK provides a number of powerful features including:

- ANSI/INCITS 378, ISO 19794-2 and ILO SID Template Extraction and Template Matching engine
- Can work with any fingerprint sensor (takes raw fingerprint image)
- Measures Fingerprint Image Quality which means better recognition rates. This function returns quality of the input fingerprint image. Image quality is calculated according to guidelines contained in Section 2.1.42 of ANSI/INCITS 378
- Conversion from and to ISO Compact Card Template

VALUES AND BENEFITS

- **Small footprint** — the Innovatrics ANSI & ISO SDK is very light and does not include any fixed point operations which means it runs fast on low-cost or embedded platforms
- **Accuracy** — the Innovatrics ANSI & ISO SDK algorithm is very accurate, a top performer in the MINEX test
- **Easy licensing** — the Innovatrics ANSI & ISO SDK algorithm is easy to license and only requires software license files (not USB dongles)





ANSI & ISO SDK is designed for developers and integrators to implement 1:1 standards-based fingerprint template verification into software through a component-model available in the run-time environment.

PC

ANSI & ISO PC is designed to run on any common laptop, desktop or tablet computer and employs a 1:1 verification.

TECHNICAL SPECIFICATIONS

- OS — Win32, Win64, Linux
- Coding environment — C, C++, VB, C#
- Extraction speed — 150ms
- Verification speed — 2000 matches per second
- Fingerprint input — BMP, RAW images
- IScanners SDK — connection with directly supported fingerprint scanners,
- Sensors compatibility— any available sensor (RAW format)

Mobile

ANSI & ISO SDK Mobile is designed to run on Windows-based PDAs and phones and employs a 1:1 verification.

TECHNICAL SPECIFICATIONS

- Processor — XScale, Samsung S3C2440, other ARM9 based processors
- OS — Windows Mobile 2003, Windows Mobile 5.0, 6.0
- Coding environment — C, C++, VB, C#
- Extraction speed — 400ms
- Verification speed — 500 matches per second
- Fingerprint input — BMP, RAW images
- Sensors compatibility — any available sensor (RAW format)

Embedded

ANSI & ISO SDK Embedded is designed to run on hardware terminals powered by ARM9 or Blackfin DSP processors. It employs a 1:1 verification.

TECHNICAL SPECIFICATIONS

- Processor — StrongARM, ARM9, Blackfin DSP
- OS — Embedded Linux and different types of real time OS
- Coding environment — C, C++
- Extraction speed — 0.5-1s
- Verification speed — 150 matches per second
- Fingerprint input — BMP, RAW images
- Sensors compatibility — any available sensor (RAW format)

ANSI & ISO SDK is the most versatile, standard template-compliant fingerprint SDK on the market. Capable of supporting any fingerprint scanner hardware through raw image acquisition, Innovatrics recommends using FIPS201 compliant scanners.

WHAT YOU GET WITH EACH SDK

- ANSI & ISO SDK libraries including MINEX-certified extractor (CBEFF PID 00350A01) and MINEX-certified matcher (CBEFF PID 00350B01),
- Documentation (PDF, CHM),
- 1 Sample with source code in Microsoft Visual C++, .NET connector (for PC and Mobile versions),
- Innovatrics License Manager.

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