

# SDK Comparison

Last Updated Monday, 27 April 2009

ExpressID AFIS

IDKit SDK

ANSI & ISO SDK

Algorithm core features

1-to-1 Fingerprint comparison

1-to-Many Fingerprint search

matching speed in fingerprints per second

600.000 on each Node

200.000 on PC, 40.000 on Mobile

Extract ANSI-INCITS 378 templates

Extract ISO/IEC SC37/19794-2 templates

Match ANSI-INCITS 378 templates

Match ISO/IEC SC37/19794-2 templates

Associate more than one fingerprint with a given person

Combine individual matching scores per finger into a global matching score per person

Fingerprint quality control

Product features

Standalone matcher

runs either as a standalone Windows application or as a Windows service

Integrated database

Distributed architecture

allows parallel matching on multiple PCs

ODBC connector

allows storing data in MS SQL Server, Oracle, MySQL

.NET connector

allows C#, VB programming

(1)

Java connector

allows Java programming

Fingerprint data encryption/decryption (AES)

Client-server architecture (SOAP protocol)

Network data compression

WSQ support

Product features

Fingerprint image input: raw image, .bmp

allows using any fingerprint reader

Additional fingerprint image inputs: .jpg, .png, .gif, .tif

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DigitalPersona U.are.U

CrossMatch

UPEK

Futronic

Lumidigm

SecuGen

Operating system

Windows 64bit

Windows 32bit

Windows CE, Embedded  
Only client (4)

Linux  
Only client (4)

(3)

ARM9 based systems, Linux  
Only client (4)

(1)  
Upon request, we provide a sample .NET connector for ANSI & ISO PC SDK, even if it is not part of the standard installation.

(2) Only IDKit PC SDK on Windows. IDKit PC SDK for Linux and IDKit Mobile SDK do not support additional input formats.

(3) In case of a customer demand, we can provide a Linux version of ANSI & ISO PC SDK.

(4) Client that connects to ExpressID Matching Server software can run on PC, WinCE/Embedded, Linux or ARM9 platforms