EXTENDED ACCESS TECHNOLOGIES

DigitalPersona® Biometric SDK for Windows®

DigitalPersona Biometric SDKs provide tools for developers to create a new generation of commercial and internal applications delivering the convenience, security and biometric assurance of fingerprint authentication.

From time and attendance to process control, point-of-sale and business applications, DigitalPersona Biometric SDKs allow developers to quickly integrate fingerprint authentication into their software and hardware designs.

USE HID FINGERPRINT BIOMETRICS TO:

- Authenticate users reliably and conveniently
- Prevent fraud
- Simplify and enhance security
- Streamline business processes
- Address compliancy

The DigitalPersona® Biometric Software Development Kit (SDK) for Windows enables integrators and developers to quickly add the power of fingerprint-based authentication to their Microsoft® Windows-based applications. HID offers powerful SDKs which feature accurate, high performing fingerprint authentication algorithms.

EASY TO USE TOOLKITS

In only a few hours, developers can easily integrate fingerprint authentication into their application and have access to a full range of authentication services for their PC, embedded computer, point-of-sale (POS) terminal or server solution. Sample code is included to help programmers quickly understand how to capture a fingerprint, extract a fingerprint template and match fingerprint templates. Simple architecture diagrams, programming workflow illustrations and detailed documentation enable fast integration of powerful fingerprint biometrics into customer-friendly applications. HID Global offers technical support services to guide you through a stress-free implementation.

FINGERPRINT MATCHING ENGINE

The DigitalPersona FingerJet™ biometric matching engine provides feature extraction, as well as enrollment. The DigitalPersona FingerJet matching engine, combined with DigitalPersona Fingerprint Readers, offers accurate fingerprint recognition, low false accept and false reject rates (FAR/FRR) coupled with fast execution time.

STANDARDS SUPPORT

The DigitalPersona Biometric SDK for Windows fully embraces image, template and compression standards. In addition, the DigitalPersona FingerJet matching engine features an extractor and matcher. This provides developers with the flexibility to make unfettered choices of matching algorithms and the ability to comply with a growing customer requirement for standards support.

SUPPORTED FINGERPRINT READERS AND MODULES

- DigitalPersona 4500 Series
- DigitalPersona 5000 Series
- EikonTouch 510
- EikonTouch 710
- Nomad 30 Module
- Nomad 30 Pocket Reader
- Lumidigm® M210 module and M211 desktop reader (this release supports only Windows 10, 64-bit platforms for the M210 and M211 devices).

SECURITY AND PRIVACY

The DigitalPersona Biometric SDK does not track, store, log, or collect images, user data or activity. This helps protect the privacy of the person using the readers.

PROGRAMMING OPTIONS

The DigitalPersona Biometric SDK for Window supports C, C++, C#, Java, .NET, and JavaScript language interfaces. In addition, User Interface (UI) features, such as enrollment and customizable verification dialog boxes, eliminate having to create these modules.

SPECIFICATIONS

Product Name	**DigitalPersona® Biometric SDK for Windows®**
Development Environment	Visual Studio® 2010, 2017
Programming Interface	C, C++, C#, Java®, VB .NET, JavaScript
User Interface	Customizable user interface
Fingerprint Registration	Developer creates own custom application
Fingerprint Readers	• DigitalPersona 4500 Series • DigitalPersona 5000 Series • EikonTouch® 510 • EikonTouch 710 • Nomad® 30 Module • Lumidigm® M210 module and M211 desktop reader (this release supports only Windows 10, 64-bit platforms for the M210 and M211 devices).
Template Interoperability	Template format compatible with: • One Touch® for Windows SDK, all previous editions • One Touch for Linux® SDK, all distributions • One Touch I.D. SDK (fast identification) • DigitalPersona Gold and Gold CE SDKs • ISO/IEC 19794-2:2005, Biometric data interchange format • ANSI/INCITS 378-2004 Finger minutiae data format
Fingerprint Image	• DigitalPersona Fingerprint Image Format • ISO 19794-4:2005, Fingerprint Image Standard • ANSI/INCITS 381-2004. Finger Image Based Interchange Format
Biometric Engine	FingerJet • 1:1; 1:n
Security	The fingerprint reader sets up an encrypted link with the driver to securely transfer the image (only DigitalPersona 4500). AES256 encryption support for the TCS1 modules & chipsets, EikonTouch® 510 and EikonTouch 710 readers.
Database	Developer may use a database of their choice
Application Deployment	FingerJet Fingerprint Recognition Software (Engine Runtime Libraries) is supplied with the SDK and is freely distributable, DigitalPersona hardware is not included with SDK
Image Compression/ Quality	WSQ/NFIQ – NIST algorithm included; support for Aware library available
SYSTEM REQUIREMENTS	
Operating System	Win 7, Win 10 (32/64), Windows RDP, Citrix/Terminal Services (local driver), .NET and Java Citrix® XenApp Server using the following clients: • XenApp Services Site • Web client • Windows Terminal Services including Remote Desktop Connection
Hardware	Pentium® III class processor or better, USB Port

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